

Deployment Guide

# Infoblox REST API

NIOS 8.6

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# Introduction

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

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

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

# General Syntax and Options

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

#### URL

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

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

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

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

#### Arguments

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

The general options are \_schema, \_return\_type, \_return\_fields and \_method.

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

#### Data (Body)

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

#### Example

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

Grid Master IP address Version Resource

Arguments

# **Object Reference**

Every WAPI Object is referenced by a unique Object Reference. WAPI returns this reference when an object is created, modified, deleted or read. This reference is used to identify the object for the same operations.

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

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

#### Example

networkview/ZG5zLm5ldHdvcmtfdmlldyQw:default			
<u> </u>	γ	$\neg$	
wapitype	refdata	name	

#### **Documentation**

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

• • • • \$ Infoblox WAPI documentation - x -	F	~			
$\leftarrow \rightarrow C$ A Not Secure   https://grid-master.lab.com/wapidoc/					
S Infoblox WAPI 2.12 documentation »		next I objects I index			
Infoblox 💸	Infoblo	ox WAPI documentation			
Table Of Contents	Introduction				
Infoblox WAPI documentation Introduction Notation Transport and Authentication Backward Compatibility General Syntax and Options	The Infoblox WAPI is an interface based on REST (REpresentational State Transfer), also called a RESTful web API. It uses HTTP methods for operations and supports input and output in JSON and XML.				
Object Reference     Function Calls     Extensible Attributes     Use Flags     Data Formats	The follow objects:	ing conventions are used to describe syntax for WAPI methods and			
Error Handling	what objref	A reference to an object. This must be a reference returned from an			
GET		earlier call. For more information, see Object Reference.			
<ul><li>POST</li><li>PUT</li></ul>	WAPI	Used as a generic start in an URL. In real calls, this needs to be replaced with /wapi/v2.12 or similar syntax.			
DELETE     Objects	objtype	The name of an object type, such as network.			
<ul> <li>Objects</li> <li>Structs</li> </ul>	field	The name of a field, such as comment.			
Additional Information and Examples     Next topic	value	The value of an item, such as a field. The value must be quoted according to where it is used. For information, see Naming and Values			
ad_auth_service : Active Directory Authentication	[thing]	These brackets are used to signify an optional value.			
Service object.	alb	The symbol    is used to indicate that either <i>a</i> or <i>b</i> can be used.			
Quick search Go	thing	is used at the end of an item to signify that it can be repeated multiple times. Items must be separated in accordance with where they are used, such as a in arguments.			
Enter search terms or a module, class or function name.	{}	These brackets are used to group information in descriptions.			
	Transpor	t and Authentication			

You can also find more information in the <u>Support Site</u> 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 Adobe
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 Schema

Io 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 *next\_page\_id* field and the result field set to the first page of results. Note that the *next\_page\_id* field only contains URL-safe characters so it can be used as is and no quotation characters are required for subsequent requests.
  - To get the subsequent results, you can re-send GET requests to the original object and set \_*page\_id* to the ID string returned in the previous page of results.
  - For a sample request, refer to <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 <u>http://json.org</u>
  - o XML Data:
  - Use XML quoting (& etc.) as needed for XML.
- In the following examples, '+' is encoded as %2B, ':' as %3A, '<' as 3C, '>' as 3E
- The following examples include a sample output for each API call. This data is only representative of the test environment. "...." indicates that there are more records returned than mentioned.
- By default, the output of POST, PUT, and DELETE contains the \_ref of the concerned object.
- PUT and DELETE operations require \_*ref* of the object you are working with.
  - In the following WAPI Samples, the text highlighted in green indicates an object reference specific to the test environment. Please replace it with the object reference specific to your environment. Example: In

{wapi\_url}/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.c om/default

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

o A search argument can use the following modifiers

Modifier	Explanation
!	Negates the condition
:	Makes string matching case insensitive
<ul> <li>Regular expression search. Expressions are unanchored</li> </ul>	
<	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> <u>Feature using /request</u> 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,NIxMItsoxDNvBWKrfOMy+uxUMWS3guCB4yU"

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

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

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

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Outpu	ıt		
A sample API call (Get host records) to save the cookie generated to a file called cookies.txt	Sample CoRL Command Sample CoRL Command Sample CorR Command Curl -k -u admin:infoblox -c cookies.txt -X GET "https://grid-master/wapi/v2.12/record:host?_return_as_object=1" {"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs": [{ "_ref": "record:host_jpv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDE uMTcyLj12LjEuMjAwLg: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" }, 				
	}], "name": "view": "o }]}	"printer.info.com", default"			
	curl -k -b co	okies.txt -X GET "https://grid-master/wapi/v2	2.12/zone_auth?_return_as_object=1"		
A sample API call (Get [{"result": zones) to show how to use the generated cookie from cookies.txt   [{"_ref": "zone_auth/ZG5zLnpvbmUkLIS "fqdn": "test.com", "view": "default" }]}		one_auth/ZG5zLnpvbmUkLl9kZWZhdWx0Li est.com", lefault"	mNvbS50ZXN0:test.com/default",		
	PUT	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Inf oblox</wapi_url>	{"security_setting": {"session_timeout": 60000}}		
Modify the session	curl -k -b co "https:// <mark>grid</mark> - rn_fields%2	okies.txt -H 'content-type: application/json' - master/wapi/v2.12/grid/b25lLmNsdXN0ZXII B=security_setting" -d '{"security_setting":{"	X PUT < <u>MA:Infoblox</u> ?_return_as_object=1&_retu session_timeout": 60000}}'		
timeout	{"result": {"_ref": "gi "security_ { "adm "audi "http	rid/b25lLmNsdXN0ZXIkMA:Infoblox", _setting": in_access_items": [], it_log_rolling_enable": true, _redirect_enable": false,			

	"lcd_input_enable": true,			
	"login banner enable": true,			
	"login banner text": "Disconnect NOW if you have not been expressly authorized to use			
	this system.",			
	"remote console access enable": false,			
	"sec	curity_access_enable": false,		
	"security access remote console enable": true,			
	"session_timeout": 600000.			
	"ssh perm enable": true,			
	"sup	port_access_enable": false,		
	"support_access_info": "Not enabled" }}}			
	POST	<wapi_url>/logout</wapi_url>		
Invalidate a cookie	curl -k -b co	ookies.txt -H 'content-type: application/js	son' -X POST	
	"https://grid-master/wapi/v2.12/logout"			

#### Schema

The \_schema argument returns the WAPI schema.

If a WAPI schema is requested without specifying the type of network object, an object with information about requested version of the WAPI schema, list of supported objects in the requested version, and list of all supported versions will be returned.

If you specify a network object while requesting WAPI schema, along with the above-mentioned information, you will get a list of cloud restrictions, list of fields of the object, list of object restrictions, requested object type, and actual requested version of the WAPI object schema.

	REST Method	API Call
Operation		Sample cURL Command
		Sample Output
	GET	<wapi_url>/<u>?_schema</u></wapi_url>
	curl -k -u <mark>a</mark>	admin:infoblox -X GET
	"https:// <mark>gri</mark>	d-master/wapi/v2.12/?_schema&_return_as_object=1"
Get the overall WAPI Schema (supported versions and supported objects)	{"result": {"request "suppor ["ad_a "admi "zone "zone "zone "zone ], "suppo ["1.0",'  "2.6",' ]}}	ted_version": "2.12", ted_objects": uth_service", ngroup", nrole", _delegated", _forward", _rp", _stub" rted_versions": "1.1","1.2","1.2.1", "1.3","1.4","1.4.1", "2.6.1","2.7", "2.7.1","2.7.2","2.7.3","2.8","2.9","2.9.1","2.9.5"
Get schema of an object ( <i>record:host</i> can be replaced with any other object)	GET curl -k -u a "https://gri ect=1"	<pre><wapi_url>/record:host?_schema admin:infoblox -X GET d-master/wapi/v2.12/record:host?_schema&amp;_return_as_obj</wapi_url></pre>

/"result"·
["cloud additional restrictions":
"fields":
[{"is_array": true,
"name": "aliases",
"standard field": false,
"supports": "rwu",
"type": ["string"]
}
{"is array": false
"name": "allow telnet"
"atondord field": foloo
Stanuaru_lieiu . laise,
supports . Twu ,
"type": ["bool"]
},
{"is_array": false,
"name": "zone",
"searchable by": "=",
"standard field": false.
"supports": "rs"
"type": ["string"]
j), "rostriations": []
ICONIUND . [],
type . record.nost ,
"Version": "Z.12"
}

### **Extensible Attributes**

	REST Method	API Call	Sample Body
Operation		Sample cURL Com	mand
		Sample Outpu	it
	GET	<wapi_url>/<u>extensibleattributedef</u></wapi_url>	
	curl -k -u <mark>ad</mark> "https:// <mark>grid</mark> -	min:infoblox -X GET master/wapi/v2.12/extensibleattribu	tedef?_return_as_object=1"
Get the definition of the Extensible Attributes	{"result": [{ "_ref": "extensiblea xkaW5n:Bui "default_ "name": ' "type": "S },  {"_ref": "extensiblea ydGluZ1Npo "default_ "name": " "type": "E }]}	nttributedef/b25lLmV4dGVuc2libGVf lding", value": null, "Building", STRING" STRING" dGU:ReportingSite", value": "site1", ReportingSite", ENUM"	YXR0cmlidXRlc19kZWYkLkJ1aW YXR0cmlidXRlc19kZWYkLlJlcG9
Create "Owner" Extensible Attribute of type String	POST	<wapi_url>/<u>extensibleattributedef</u></wapi_url>	{"name": "Owner", "type": "STRING"}

	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/extensibleattributedef? _return_fields%2B=name,type&_return_as_object=1" -d '{"name": "Owner","type": "STRING"}'				
	{"result": {".ref": "extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLk93br Vy:Owner", "default_value": null, "name": "Owner", "type": "STRING" }}				
Create a "Location" Extensible Attribute of type list with possible values Santa Clara, Tacoma, Bangalore, Mumbai	POST	<wapi_url>/<u>extensibleattributedef</u></wapi_url>	{"name": "Location", "type": "ENUM", "list_values": [{"value": "Santa Clara"}, {"value": "Tacoma"}, {"value": "Bangalore"}, {"value": "Mumbai"}]}		
	curl -k -u ad "https://grid- _return_fiek "Location"," "Tacoma"},{	min:infoblox -H 'content-type: appli master/wapi/v2.12/extensibleattribu ds%2B=name,type&_return_as_obj type": "ENUM","list_values": [{"valu "value": "Bangalore"},{"value": "Mur	cation/json' -X POST utedef? ject=1" -d '{"name": e": "Santa Clara"},{"value": nbai"}]}'		
	{"result": {"_ref": "extensiblea F0aW9u:Lo "default_v "name": "I "type": "El }}	attributedef/b25lLmV4dGVuc2libGV cation", alue": null, _ocation", NUM"	fYXR0cmlidXRlc19kZWYkLkxvY2		

#### **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*).

	REST Method	API Call	Sample Body					
Operation		Sample cURL Command						
		Sample Output						
	PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNv bS50ZXN0Lmhvc3Qx: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/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Q x:host1.test.com/default?_return_fields%2B=extattrs&_return_as_object=1" -d '{"extattrs":{"Location": ["descendants_action": {"option_with_ea": "RETAIN","option_without_ea":"NOT_INHERIT"},"value": 'Santa Clara"}}'							
Add an extensible attribute with inheritance	{"result": {"_ref": "record:ho "extattrs' {"Locati }, "ipv4addr [{"_ref": "record:ho yLjI2LjEuM "configu "host": ' "ipv4ad }], "name": "h "view": "d	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx: ': on": {"value": "Santa Clara"} rs": st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY ljAwLg:172.26.1.200/host1.test.com/default", ure_for_dhcp": false, 'host1.test.com", dr": "172.26.1.200" most1.test.com", efault"	host1.test.com/default", ′29tLnRlc3QuaG9zdDEuMTc					

# DNS-related scenarios

# Zones

		REST Method	API Call	Sample Body (for POST and PUT)			
Zone type	Operation		Sample cURL 0	Command			
		Sample Output					
		GET	<wapi_url>/zone_auth</wapi_url>				
		curl -k -u ao "https://grid	url -k -u admin:infoblox -X GET https://grid-master/wapi/v2.12/zone auth? return as object=1"				
Authoritative Zone	Fetch information	{"result": [{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS50ZXN0:test.com/default", "fqdn": "test.com", "view": "default" }]}					
	Create	POST	<wapi_url>/zone_auth</wapi_url>	{"fqdn": "info.com"}			

		curl -k -u a "https:// <mark>gric</mark> '{"fɑdn": "in	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST https://grid-master/wapi/v2.12/zone_auth?_return_fields%2B=fqdn&_return_as_object=1" -d {"fqdn": "info.com"}'				
		<pre>("result":     {"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default",     "fqdn": "info.com",     "kijaut": "lafecult"</pre>					
		3}	Jelault				
		POST	<wapi_url>/zone_auth</wapi_url>	{	"fqdn": "10.10.10.in-addr.arpa ", zone_format":"IPV4"}		
	Create IPV4	curl -k -u <mark>a</mark> "https:// <mark>gric</mark> '{"fqdn": "1	dmin:infoblox -H 'conten d-master/wapi/v2.12/zon 0.10.10.in-addr.arpa","zo	t-type: applicat e_auth?_returr one_format":"IP	ion/json' -X POST n_fields%2B=fqdn&_return_as_object=1" -d 'V4"}'		
	reverse mapping zone	{"result": {"_ref": "zone_auth .10.0%2F2 "fqdn": "1 "view": "c	n/ZG5zLnpvbmUkLl9kZ\ 4/default", I0.10.10.0/24", default"	VZhdWx0LmFy	/cGEuaW4tYWRkci4xMC4xMC4xMA:10.10		
		PUT	<wapi_url>/zone_auth/ UkLl9kZWZhdWx0LmN nfo.com/default</wapi_url>	ZG5zLnpvbm IvbS5pbmZv:i	{"grid_primary":[{"name":"infoblox.localdom ain"}]}		
		curl -k -u a "https://gric nfo.com/de '{"grid_prin	dmin:infoblox -H 'conten d-master/wapi/v2.12/zon efault?_return_fields%2E nary":[{"name":"infoblox.	t-type: applicat e_auth/ZG5zLr 3=fqdn,grid_prir localdomain"}]}	ion/json' -X PUT pvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:i mary&_return_as_object=1" -d '		
	Modify	{"result": {"_ref": "z "fqdn": "iı "grid_prir [{"name' "stealth	one_auth/ZG5zLnpvbm nfo.com", mary": ': "infoblox.localdomain" ": false	JkLl9kZWZhdV	Vx0LmNvbS5pbmZv:info.com/default",		
		}], "view": "c }}	default"				
		DELETE	<wapi_url>/zone_auth/ UkLl9kZWZhdWx0LmN nfo.com/default</wapi_url>	ZG5zLnpvbm IvbS5pbmZv:i			
	Delete	curl -k -u a "https://gric nfo.com/de	dmin:infoblox -H 'conten d-master/wapi/v2.12/zon efault&?_return_as_obje	t-type: applicat e_auth/ZG5zLr ct=1"	ion/json' -X DELETE npvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:i		
		{"result": "z	one_auth/ZG5zLnpvbm	UkLI9kZWZhd	//x0LmNvbS5pbmZv:info.com/default"}		
		GEI	<pre></pre>	Ird			
		curi -к -u a "https://grid	d-master/wapi/v2.12/zon	e forward? re	turn as object=1"		
		{"result":			······ <u>_</u> ··· <u>_</u> ··· <u>_</u> ···		
Forward Zone	Fetch information	[{"_ref": "zone_forw m/default",	vard/ZG5zLnpvbmUkLl9	kZWZhdWx0Lr	nNvbS5mb3J3YXJkdGVzdA:forwardtest.co		
		"forward [{"addre "name }],	to": ess": "172.26.1.10", ": "host.forwardtest.com	"			

		"fqdn": " "view": "	forwardtest.com", 'default"	
		}]} POST	<wapi_url>/zone_forward</wapi_url>	{"fqdn":"infoblox.com", "forward_to":[{"address":"10.10.10.11", "name":"host.infoblox.com"}]}
		curl -k -u ac "https://grid '{"fqdn":"inf	dmin:infoblox -H 'content-type: applica l-master/wapi/v2.12/zone_forward?_re oblox.com","forward_to":[{"address":"1	tion/json' -X POST turn_as_object=1" -d 0.10.10.11","name":"host.infoblox.com"}]}'
	Create	{"result": {"_ref": "zone_forw +"	ard/ZG5zLnpvbmUkLl9kZWZhdWx0L	mNvbS5pbmZvYmxveA:infoblox.com/defaul
		"forward [{"addres "name"	to": ss": "10.10.10.11", : "host.infoblox.com"	
		}], "fqdn": "i "view": "a }}	nfoblox.com", default"	
		PUT	<wapi_url>/zone_forward/ZG5zLnpv bmUkLl9kZWZhdWx0LmNvbS5pbmZ vYmxveA:infoblox.com/default</wapi_url>	{"forwarding_servers": [{"name":"infoblox.localdomain"}]}
	Modify	curl -k -u ac "https://grid ZvYmxveA 1" -d '{"forw	dmin:infoblox -H 'content-type: applica l-master/wapi/v2.12/zone_forward/ZG :infoblox.com/default?_return_fields% /arding_servers": [{"name":"infoblox.lo	tion/json' -X PUT 5 <mark>zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbm</mark> 2B=forwarding_servers&_return_as_object= caldomain"}]]'
		{"result": {"_ref": "zone_forw +"	ard/ZG5zLnpvbmUkLl9kZWZhdWx0L	mNvbS5pbmZvYmxveA:infoblox.com/defaul
		"forward_ [{"addres name"	to": ss": "10.10.10.11", : "host.infoblox.com"	
		}], "forwardii [{"forwar "forware "name"	ng_servers": d_to": [], ders_only": false, : "infoblex localdomain"	
		"use_ov }], "fqdn": "i "view": "o	nfoblox.com",	
		}}	<wapi_url>/zone_forward/ZG5zLnpv</wapi_url>	
		DELETE	bmUkLl9kZWZhdWx0LmNvbS5pbmZ vYmxveA:infoblox.com/default	
	Delete	curl -k -u ac "https://grid ZvYmxveA	dmin:infoblox -H 'content-type: applica I-master/wapi/v2.12/zone_forward/ZG :infoblox.com/default?_return_as_obje	tion/json' -X DELETE 5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbm ct=1"
		result : "zone_forw t"}	ard/ZG5zLnpvbmUkLl9kZWZhdWx0L	mNvbS5pbmZvYmxveA:infoblox.com/defaul

		GET	<wapi_url>/zone_delegated</wapi_url>	
		curl -k -u <mark>ac</mark>	dmin:infoblox -X GET	
		"https:// <mark>grid</mark>	-master/wapi/v2.12/zone_delegated?_	_return_as_object=1"
		{"result":		
		[{`_rer`: "zone_dele	aated/765zl novbml lkl 19k7W7bdWx(	) mNvbS5nbmZvl nRlc3O:test info com/def
	Fetch	ault",		
	information	"delegate	e_to":	
		[{"addre	ss": "172.26.1.100", ': "host tost info com"	
			. Host.test.inio.com	
		"fqdn": "t	est.info.com",	
		"view": "o	default"	
		}]}	I	
		POST	<wapi url="">/zone_delegated</wapi>	{ rqun : demo.info.com , "delegate_to":[{"address"·"10 10 10 20"
		1001		"name":"host.demo.info.com"}]}
		curl -k -u <mark>ac</mark>	dmin:infoblox -H 'content-type: application	tion/json' -X POST
		"https:// <mark>grid</mark>	-master/wapi/v2.12/zone_delegated?_	_return_fields%2B=fqdn,delegate_to&_retur
		n_as_objec '{"fodn"·"de	no info com" "delegate_to":[{"address	"."10 10 10 20" "name"."host demo info com
		"}]}'		
	<b>_</b>	{"result":		
	Create	{"_ref":		
Zone		"zone_dele	gated/2G5zLnpvbmUkLl9k2W2hdWx0	JLmNvbS5pbmZvLmRlbW8:demo.info.com/
Delegation		"delegate	to":	
		[{"address	": "10.10.10.20",	
		"name":	"host.demo.info.com"	
		}],   "fadn" <sup>,</sup> "de	amo info com"	
		"view": "de	efault"	
		}}	1	
			<wapi_url>/zone_delegated/ZG5zLn</wapi_url>	
		PUI	pvbmUkLl9kZWZhdWx0LmNvbS5pb mZvl mPlbW8:demo.info.com/default	{"locked":true}
		curl -k -u ac	mininfoblox -H 'content-type: application	tion/ison' -X PLIT
		"https://grid	-master/wapi/v2.12/zone_delegated/Z	G5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pb
		mZvLmŘlb	W8:demo.info.com/default?_return_fie	lds=locked&_return_as_object=1" -d
	Modify	'{"locked":tr	ue}'	
		{"result":		
		{_rer. "zone dele	gated/ZG5zLnpybmUkLl9kZWZhdWx(	) mNvbS5pbmZvI mRlbW8:demo info com/
		default",		
		"locked": t	rue	
		}}		
			<pre><wapi_uri>/zone_delegated/ZG5zLn pybmLlkLl9kZWZbdW/x0LmNybS5pb</wapi_uri></pre>	
			mZvLmRlbW8:demo.info.com/default	
	Delete	curl -k -u <mark>ac</mark>	dmin:infoblox -H 'content-type: application	tion/json' -X DELETE
		"https:// <mark>grid</mark>	-master/wapi/v2.12/zone_delegated/Z	G5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pb
	_object=1"			

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

The most common record types

Record	ord	REST Method	API Call	Sample Body (for POST and PUT)		
type	Operation	Sample cURL Command				
			Sample Output			
		GET	<wapi_url>/record:host</wapi_url>			
		curl -k -u ac "https://grid-	<mark>lmin:infoblox</mark> -X GET - <mark>master</mark> /wapi/v2.12/record:host?_return_as_	_object=1"		
			t/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5	0ZXN0Lmhvc3Qx:host1.test.com/defa		
		"ipv4addi [{ "_ref": "record:hos DEuMTcyLj "config "host": "ipv4ad	rs <sup></sup> : t_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQu I2LjEuMjAwLg:172.26.1.200/host1.test.com/ jure_for_dhcp": false, "host1.test.com", ddr": "172.26.1.200"	ıX2RIZmF1bHQuY29tLnRlc3QuaG9zd /default",		
Fetch information	}], "name": ' "view": "c },  {" ref":	'host1.test.com", lefault"				
HOST		"record:hos default", "ipv4addr [{"_ref": "record:hos nRlci4xNjAu "configu "host":	t/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5 s": t_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQu uMjAuMS4xMDAu:160.20.1.100/printer.info. ure_for_dhcp": false, "printer info.com"	pbmZvLnByaW50ZXI:printer.info.com/ ıX2RIZmF1bHQuY29tLmluZm8ucHJpb com/default",		
		"ipv4ad }], "name": "view": " }]}	ldr": "160.20.1.100" "printer.info.com", default"			
		POST	<wapi_url>/record:host</wapi_url>	{"name":"host.info.com", "ipv4addrs": [{"ipv4addr":"10.10.10.20"}]}		
		curl -k -u ac "https://grid object=1" -c	Imin:infoblox -H 'content-type: application/jso -master/wapi/v2.12/record:host?_return_fiel d '{"name":"host.info.com","ipv4addrs": [{"ipv	on' -X POST ds%2B=name,ipv4addrs&_return_as_ 4addr":"10.10.10.20"}]}'		
	Create	{"result": {"_ref": "record:hos	t/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5	pbmZvLmhvc3Q:host.info.com/default"		
		<sup>''</sup> "ipv4addrs [{"_ref": "record:hos	s": t_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQu	ıX2RIZmF1bHQuY29tLmluZm8uaG9z		

		dCAVMCAV	MCAxMCAvMCA:10 10 10 20/bost info com/	default"			
		configure for dhcp": false.					
		"host": "host.info.com", "ipv4addr": "10.10.10.20" }],					
		"name": "	host.info.com",				
		view": "d	efault"				
		}}					
		PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9 kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:ho st.info.com/default</wapi_url>	{"name":"host1.info.com"}			
		curl -k -u ac "https://grid mhvc3Q:ho '{"name":"he	dmin:infoblox -H 'content-type: application/js -master/wapi/v2.12/record:host/ZG5zLmhvc ist.info.com/default?_return_fields%2B=nam ost1.info.com"}'	on' -X PUT 3QkLl9kZWZhdWx0LmNvbS5pbmZvL e&_return_as_object=1" -d			
	Modify	{"result": {"_ref": "record:hos ult", "inv4addrs	t/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5	pbmZvLmhvc3Qx:host1.info.com/defa			
		[{"_ref": "record:hos dDEuMTAu "configu "host": "l	<sup>•</sup> · .t_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQι MTAuMTAuMjAu:10.10.10.20/host1.info.cor re_for_dhcp": false, host1.info.com",	ıX2RIZmF1bHQuY29tLmluZm8uaG9z n/default",			
		"ipv4ado }], "name": " "view": "d }}	dr": "10.10.10.20" host1.info.com", efault"				
		DELETE	<wapi_url>/record:host/ZG5zLmhvc3QkLl9 kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:h ost1.info.com/default</wapi_url>				
	Delete	curl -k -u ac "https://grid mhvc3Qx:h	dmin:infoblox -H 'content-type: application/jse -master/wapi/v2.12/record:host/ZG5zLmhvc ost1.info.com/default?_return_as_object=1"	on' -X DELETE 3QkLl9kZWZhdWx0LmNvbS5pbmZvL			
		{"result": "record:hos ult"}	t/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5	pbmZvLmhvc3Qx:host1.info.com/defa			
		GET	<wapi_url>/record:a</wapi_url>				
		curl -k -u ac	dmin:infoblox -X GET				
		"https://grid	-master/wapi/v2.12/record:a?_return_as_ob	ject=1"			
		{"result":					
	Fetch	[{"_ref":					
	information	"record:a/Z	G5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLi	mluZm8sdGVzdC5ob3N0LDE3Mi4yNi			
Δ		4xLJEWMA:	nost.test.info.com/default",				
		ipv4add   "namo"' '	1. 172.20.1.100", "bost test info com"				
		view"· "	hefault"				
		313					
	Creata	POST	<wapi_url>/record:a</wapi_url>	{"name":"server.info.com", "ipv4addr":"10.10.10.2"}			
				· · · ·			

		curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:a?_return_fields%2B=name,ipv4addr&_return_as_obje ct=1" -d '{"name":"server.info.com","ipv4addr":"10.10.10.2"}'
		{"result":
		{"_ref":
		"record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjI:
		server.info.com/default",
		Ipv4addr : "10.10.10.2",
		"view": "default"
		}}
		<wapi_url>/record:a/ZG5zLmJpbmRfYSQu         PUT       X2RIZmF1bHQuY29tLmluZm8sc2VydmVy         LDEwLjEwLji:server.info.com/default</wapi_url>
		curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8 sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default?_return_fields%2B=name&_return_as_ object=1" -d '{"name":"server1.info.com"}'
	Modify	{"result":
		`{"_ref": "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4x MC4y:server1.info.com/default", "ipv4addr": "10.10.10.2", "name": "server1.info.com", "view": "default"
		}}
	Delete	DELETE <a grid-master="" href="https://www.carteringenergy-content/content/content/content/content/content/content/content/content/content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-content/carteringenergy-carteringenergy-content/carteringenergy-carteringe&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE&lt;br&gt;" https:="" record:a="" v2.12="" wapi="" zg5zlmjpbmrfysqux2rizmf1bhquy29tlmluzm8<br="">sc2VydmVyMSwxMC4xMC4xMC4y:server1.info.com/default?_return_as_object=1"</a>
		{"result": "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4xMC4x MC4y:server1.info.com/default"}
	curl -k -u <mark>admin:infoblox</mark> -X GET "https:// <mark>grid-master</mark> /wapi/v2.12/record:aaaa?_return_as_object=1"	
		{"result":
ΑΑΑΑ	Fetch information	[{"_ref": "record:aaaa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bHQuY29tLnRlc3QsaG9zdCxmZDYwO mU0NTpIMzFiOjo:host.test.com/default", "ipv6addr": "fd60:e45:e31b::", "name": "host.test.com", "view": "default
		POST <wapi_url>/record:aaaa {`name":"server.info.com", "ipv6addr":"fd60:e32:f1b9::2"}</wapi_url>
	Create	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https:// <mark>grid-master</mark> /wapi/v2.12/record:aaaa?_return_fields%2b=name,ipv6addr&_return_as_o bject=1" -d '{"name":"server.info.com","ipv6addr":"fd60:e32:f1b9::2"}'
		{"result":
		{"_ref":

		"record:aaa 6ZTMyOm` "ipv6addr "name": " "view": "d	ua/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bH /xYjk6OjI:server.info.com/default", ": "fd60:e32:f1b9::2", server.info.com", efault"	lQuY29tLmluZm8sc2VydmVyLGZkNjA
		PUT	<wapi_url>/record:aaaa/ZG5zLmJpbmRfY WFhYSQuX2RIZmF1bHQuY29tLmluZm8s c2VydmVyLGZkNjA6ZTMyOmYxYjk6OjI:s erver.info.com/default</wapi_url>	{"name":"server1.info.com"}
	Modify	curl -k -u ac "https://grid LmluZm8sc =name&_re	dmin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:aaaa/ZG5zLmJpt :2VydmVyLGZkNjA6ZTMyOmYxYjk6Ojl:serv eturn_as_object=1" -d '{"name":"server1.info.	on' -X PUT omRfYWFhYSQuX2RIZmF1bHQuY29t /er.info.com/default?_return_fields%2B com"}'
	Modify	{"result": {"_ref": "record:aaa YwOmUzM "ipv6addr "name": " "view": "d }}	a/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bH jpmMWI5Ojoy:server1.info.com/default", ": "fd60:e32:f1b9::2", server1.info.com", efault"	lQuY29tLmluZm8sc2VydmVyMSxmZD
	Delete	DELETE	<wapi_url>/record:aaaa/record:aaaa/ZG5z LmJpbmRfYWFhYSQuX2RIZmF1bHQuY2 9tLmluZm8sc2VydmVyMSxmZDYwOmUz MjpmMWI5Ojoy:server1.info.com/default</wapi_url>	
		curl -k -u ac "https://grid LmluZm8sc object=1"	dmin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:aaaa/ZG5zLmJpb 2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy	on' -X DELETE omRfYWFhYSQuX2RIZmF1bHQuY29t y:server1.info.com/default?_return_as_
		{"result": "record:aaa YwOmUzM	a/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bH jpmMWI5Ojoy:server1.info.com/default"}	lQuY29tLmluZm8sc2VydmVyMSxmZD
		GET	<wapi_url>/record:cname</wapi_url>	
		curl -k -u ac	dmin:infoblox -X GET -master/wapi/v2 12/record:cname2_return_a	as object=1"
CNAME	Fetch information	<pre>{"result":   [{"_ref":   "record:cna   com/defaul   "canonic   "name":   "view": "o }]}_</pre>	me/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdV t", al": "cnametest.com", "test.test.com", default"	Wx0LmNvbS50ZXN0LnRlc3Q:test.test.
		POST	<wapi_url>/record:cname</wapi_url>	{"name":"cnametest.demo.info.com",
	Create	curl -k -u ac "https://grid _object=1"	u dmin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:cname?_return_fi -d '{"name":"cnametest.demo.info.com","can	ields%2B=name,canonical&_return_as ionical":"demo.info.com"}'
		{"result": {"_ref": "record:cna WV0ZXN0: "canonica	me/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdV cnametest.demo.info.com/default", ıl": "demo.info.com",	Wx0LmNvbS5pbmZvLmRlbW8uY25hb

		"name": "o "view": "do }}	cnametest.demo.info.com", efault"	
		PUT	<wapi_url>/record:cname/ZG5zLmJpbmRf Y25hbWUkLl9kZWZhdWx0LmNvbS5pbmZ vLmRlbW8uY25hbWV0ZXN0:cnametest.d emo.info.com/default</wapi_url>	{"name":"cname.demo.info.com "}
	Modify	curl -k -u ad "https://grid- vbS5pbmZv =name&_re	Imin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:cname/ZG5zLmJ /LmRIbW8uY25hbWV0ZXN0:cnametest.der .turn_as_object=1" -d '{"name":"cname.demo	on' -X PUT pbmRfY25hbWUkLl9kZWZhdWx0LmN no.info.com/default?_return_fields%2B p.info.com"}'
	Modify	{"result": {"_ref": "record:cna WU:cname. "canonica "name": "d "view": "do }}	me/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdV demo.info.com/default", I": "demo.info.com", cname.demo.info.com", efault"	Wx0LmNvbS5pbmZvLmRlbW8uY25hb
	Delete	DELETE	<wapi_url>/record:cname/ZG5zLmJpbmRf Y25hbWUkLl9kZWZhdWx0LmNvbS5pbmZ vLmRlbW8uY25hbWU:cname.demo.info.c om/default</wapi_url>	
		curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmN vbS5pbmZvLmRlbW8uY25hbWU:cname.demo.info.com/default?_return_as_object=1" {"result":		
		"record:cna WU:cname.	me/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdV demo.info.com/default"}	Wx0LmNvbS5pbmZvLmRlbW8uY25hb
	Fetch information	GET	<wapi_url>/record:mx</wapi_url>	
		"https://grid	-master/wapi/v2.12/record:mx?_return_as_o	bject=1"
		{"result": [{"_ref": "record:mx/. zdC5jb20uN "mail_exo "name": " "preferen "view": "d	ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvl /lQ:mail.test.com/default", changer": "host1.test.com", 'mail.test.com", ce": 1, lefault"	bS50ZXN0Lm1haWwuaG9zdDEudGV
MX		POST	<wapi_url>/record:mx</wapi_url>	{"mail_exchanger":"exchange.info.co m",
	Create	curl -k -u ad "https://grid- as_object=^ '{"mail_exch	  min:infoblox -H 'content-type: application/jso -master/wapi/v2.12/record:mx?_return_fields  " -d nanger":"exchange.info.com","name":"mx.inf	"name":"mx.info.com","preference":1} on' -X POST s%2B=mail_exchanger,name&_return_ o.com","preference":1}'
		{"result": {"_ref": "record:mx/ m8uY29tLjE "mail_exc "name": "l	ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvł E:mx.info.com/default", hanger": "exchange.info.com", mx.info.com",	bS5pbmZvLm14LmV4Y2hhbmdlLmluZ

		"preferen "view": "d }}	ce": 1, lefault"
		PUT	<wapi_url>/record:mx/ZG5zLmJpbmRfbXg kLl9kZWZhdWx0LmNvbS5pbmZvLm14Lm V4Y2hhbmdlLmluZm8uY29tLjE:mx.info.co m/default</wapi_url>
		curl -k -u ac "https://grid ZvLm14Lm eturn_as_o	dmin:infoblox -H 'content-type: application/json' -X PUT I-master/wapi/v2.12/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbm V4Y2hhbmdILmluZm8uY29tLjE:mx.info.com/default?_return_fields%2B=name&_r bject=1" -d '{"name":"mail.info.com"}'
	Modify	{"result": {"_ref": "record:mx/ aW5mby5jt "mail_exc "name": " "preferen "view": "d }}	/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2Uu o20uMQ:mail.info.com/default", changer": "exchange.info.com", mail.info.com", ce": 1, lefault"
		DELETE	<wapi_url>/record:mx/ZG5zLmJpbmRfbXg kLl9kZWZhdWx0LmNvbS5pbmZvLm1haW wuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail .info.com/default</wapi_url>
	Delete	curl -k -u ac "https://grid ZvLm1haW	dmin:infoblox -H 'content-type: application/json' -X DELETE I-master/wapi/v2.12/record:mx/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbm /wuZXhjaGFuZ2UuaW5mby5jb20uMQ:mail.info.com/default?_return_as_object=1"
		{"result": "record:mx/ aW5mby5jt	/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFuZ2Uu p20uMQ:mail.info.com/default"}
		GET	<wapi url="">/record:ns</wapi>
	Fetch information	curl -k -u <mark>ac</mark> "https:// <mark>grid</mark>	dmin:infoblox -X GET I-master/wapi/v2.12/record:ns?_return_as_object=1"
NS		{"result": [{"_ref": "record:ns/2 VzdGVy:clu "name": " "nameser "view": "d	ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFycGEuaW4tYWRkci4xMjcuMC4wLi5jbH uster/0.0.127.in-addr.arpa/default", 0.0.127.in-addr.arpa", `ver": "cluster", lefault"
		}, {"_ref": "record:ns/2 C4wLjAuM x1c3Rlcg:cl , "name": "	ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuM C4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMS4uY2 luster/1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0
		"nameser "view": "d },  {"_ref": "record:ns/2 mluZm8uY2	ver": "cluster", lefault" ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3QuaG9zdC50ZXN0L 29t:host.test.info.com/test.info.com/default",

		"name": "t "nameserv "view": "de }]}	est.info.com", /er": "host.test.info.com", efault"	
		POST	<wapi_url>/record:ns</wapi_url>	{"name":"info.com", "nameserver":"infoblox.localdomain", "addresses":[{"address":"192.168.11.0 "}]}
		curl -k -u ac "https://grid eturn_as_o '{"name":"in 0"}]}'	dmin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:ns?_return_fields bject=1" -d lfo.com","nameserver":"infoblox.localdomain	on' -X POST %2B=name,nameserver,addresses&_r ","addresses":[{"address":"192.168.11.
	Create	{"result": {"_ref": "record:ns/z GRvbWFpt "addresse [{"addresse "auto_cr	ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvl og:infoblox.localdomain/info.com/default", s": s": "192.168.11.0", reate_ptr": true	bS5pbmZvLi5pbmZvYmxveC5sb2Nhb
		"name": " "nameser "view": "d }}	info.com", ver": "infoblox.localdomain", efault"	
		PUT	<wapi_url>/record:ns/ZG5zLmJpbmRfbnM kLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZ vYmxveC5sb2NhbGRvbWFpbg:infoblox.lo caldomain/info.com/default</wapi_url>	{"nameserver":"nios.info.com"}
	Modify	curl -k -u ac "https://grid ZvLi5pbmZ ds%2B=na	dmin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:ns/ZG5zLmJpbm vYmxveC5sb2NhbGRvbWFpbg:infoblox.loc me,nameserver&_return_as_object=1" -d '{"i	on' -X PUT RfbnMkLl9kZWZhdWx0LmNvbS5pbm aldomain/info.com/default?_return_fiel nameserver":"nios.info.com"}'
	Μοαπγ	{"result": {"_ref": "record:ns/2 os.info.com "name": " "nameser "view": "d }}	ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvl /info.com/default", info.com", ver": "nios.info.com", efault"	bS5pbmZvLi5uaW9zLmluZm8uY29t:ni
	Delete	DELETE	<wapi_url>/record:ns/ZG5zLmJpbmRfbnM kLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9 zLmluZm8uY29t:nios.info.com/info.com/def ault</wapi_url>	
		curl -k -u ac "https://grid ZvLi5uaW9	dmin:infoblox -H 'content-type: application/jso -master/wapi/v2.12/record:ns/ZG5zLmJpbm zLmluZm8uY29t:nios.info.com/info.com/defa	on' -X DELETE RfbnMkLl9kZWZhdWx0LmNvbS5pbm ault?_return_as_object=1"
		{"result": "record:ns/2 os.info.com	ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvl //info.com/default"}	bS5pbmZvLi5uaW9zLmluZm8uY29t:ni
	Fetch	GET	<wapi_url>/record:ptr</wapi_url>	
PTR	information	curl -k -u ac "https://grid	dmin:infoblox -X GET -master/wapi/v2.12/record:ptr?_return_as_o	bject=1"

		{"result": [{"_ref": "record:ptr/2 mxvY2Fsa0 "ptrdnam "view": "d	ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5h G9zdA:1.0.0.127.in-addr.arpa/default", e": "localhost", lefault"	cnBhLmluLWFkZHluMTI3LjAuMC4xL
		}, {"_ref": "record:ptr/2 jAuMC4wLj, xvY2FsaG9 "ptrdnam "view": "( },	ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5h AuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLj/ zdA:1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	cnBhLmlwNi4wLjAuMC4wLjAuMC4wL AuMC4wLjAuMC4wLjAuMC4wLjEuLm .0.0.0.0.0.0.0.0.0.0.0.ip6.arpa/default",
		 {"_ref": "record:ptr/2 wLmhvc3Qu "ptrdnam "view": "c }]}	ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5ho udGVzdC5pbmZvLmNvbQ:100.1.26.172.in-a e": "host.test.info.com", lefault"	cnBhLmluLWFkZHluMTcyLjl2LjEuMTA addr.arpa/default",
	Create	POST	<wapi_url>/record:ptr</wapi_url>	{"name":"2.10.10.10.in-addr.arpa", "ptrdname":"server1.info.com", "ipv4addr":"10.10.10.2"}
		curl -k -u ad "https://grid rn_as_objec "ptrdname":	Imin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:ptr?_return_fields ct=1" -d '{"name":"2.10.10.10.in-addr.arpa", "server1.info.com","ipv4addr":"10.10.10.2"}'	on' -X POST %2B=name,ptrdname,ipv4addr&_retu
		{"result": {"_ref": Mi5zZXJ2Z "ipv4addr' "name": "2 "ptrdname "view": "de }}	ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5h XluaW5mby5jb20:2.10.10.10.in-addr.arpa/de ": "10.10.10.2", 2.10.10.10.in-addr.arpa", e': "server1.info.com", efault"	cnBhLmluLWFkZHluMTAuMTAuMTAu efault",
	Modify	PUT	<pre><wapi_url>/record:ptr/ZG5zLmJpbmRfcHR yJC5fZGVmYXVsdC5hcnBhLmluLWFkZHI uMTAuMTAuMTAuMi5zZXJ2ZXluaW5mby 5jb20:2.10.10.10.in-addr.arpa/default</wapi_url></pre>	{"ptrdname":"server.info.com"}
		curl -k -u ad "https://grid- luLWFkZHIt eturn_fields	Imin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:ptr/ZG5zLmJpbm uMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5j %2B=ptrdname&_return_as_object=1" -d '{"	on' -X PUT RfcHRyJC5fZGVmYXVsdC5hcnBhLm b20:2.10.10.10.in-addr.arpa/default?_r ptrdname":"server.info.com"}'
		{"result": {"_ref": "record:ptr/2 Mi5zZXJ2Z "ptrdname "view": "do }}	ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5h XluaW5mby5jb20:2.10.10.10.in-addr.arpa/de a": "server.info.com", efault"	cnBhLmluLWFkZHluMTAuMTAuMTAu efault",
	Delete	DELETE	<wapi_url>/record:ptr/ZG5zLmJpbmRfcHR yJC5fZGVmYXVsdC5hcnBhLmluLWFkZHI</wapi_url>	

			uMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby 5jb20:2.10.10.10.in-addr.arpa/default		
		curl -k -u ac "https://grid luLWFkZHlu eturn as o	Imin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:ptr/ZG5zLmJpbm uMTAuMTAuMTAuMi5zZXJ2ZXIuaW5mby5j bject=1"	on' -X DELETE IRfcHRyJC5fZGVmYXVsdC5hcnBhLm ib20:2.10.10.10.in-addr.arpa/default?_r	
		{"result": "record:ptr/2 Mi5zZXJ2Z	- ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5h XIuaW5mby5jb20:2.10.10.10.in-addr.arpa/d	cnBhLmluLWFkZHluMTAuMTAuMTAu efault"}	
		GET	<wapi_url>/record:txt</wapi_url>		
		curl -k -u ac "https://grid	<mark>lmin:infoblox</mark> -X GET - <mark>master</mark> /wapi/v2.12/record:txt?_return_as_ol	bject=1"	
	Fetch information	{"result": [{"_ref": "record:txt/2 m1haWwilC "name": " "text": "Tr "view": "d }]}	ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb CJzZXJ2ZXIi:mail.test.com/default", mail.test.com", iis a mail server", efault"	20udGVzdC5tYWlsLiJUaGlzliAiYSlgl	
	Create	POST	<wapi_url>/record:txt</wapi_url>	{"name":"server.info.com", "text":"This a host server"}	
тхт		curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:txt?_return_fields%2B=name,text&_return_as_object=1 " -d '{"name":"server.info.com","text":"This a host server"}'			
		{"result": {"_ref": "record:txt/2 hliAiaG9zdd "name": "s "text": "Th "view": "d }}	ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb ClgInNIcnZIciI:server.info.com/default", server.info.com", iis a host server", efault"	20uaW5mby5zZXJ2ZXIullRoaXMilCJ	
	Modify	PUT	<pre><wapi_url>/record:txt/ZG5zLmJpbmRfdHh 0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ 2ZXlullRoaXMilCJhliAiaG9zdClgInNlcnZlci I:server.info.com/default</wapi_url></pre>	{"text":"This is a test server"}	
		curl -k -u ac "https://grid mby5zZXJ2 %2B=text&	Imin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:txt/ZG5zLmJpbm 2ZXIuIIRoaXMiICJhIiAiaG9zdCIgInNlcnZlciI: _return_as_object=1" -d '{"text":"This a test s	on' -X PUT RfdHh0JC5fZGVmYXVsdC5jb20uaW5 server.info.com/default?_return_fields server"}'	
		{"result": {"_ref": "record:txt/2 hliAidGVzd "name": " "text": "Th "view": "d }}	ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb ClgInNlcnZlciI:server.info.com/default", server.info.com", iis a test server", efault"	20uaW5mby5zZXJ2ZXIullRoaXMilCJ	
	Delete	DELETE	<pre><wapi_url>/record:txt/ZG5zLmJpbmRfdHh 0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ 2ZXIullRoaXMilCJhliAiaG9zdClgInNlcnZlci I:server.info.com/default</wapi_url></pre>		

		curl -k -u ac "https://grid mby5zZXJ2 ject=1"	curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE https://grid-master/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5 mby5zZXJ2ZXIuIIRoaXMiICJhliAidGVzdClgInNIcnZlcil:server.info.com/default?_return_as_ob ect=1"			
		{"result": "record:txt/2 hliAidGVzd	ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb ClgInNlcnZlcil:server.info.com/default"}	20uaW5mby5zZXJ2ZXIullRoaXMilCJ		
		GET	<wapi url="">/record:srv</wapi>			
		curl -k -u ac "https://grid	Imin:infoblox -X GET -master/wapi/v2.12/record:srv? return as c	biect=1"		
	Fetch information	<pre>{"result":     [{"_result":     [{"_ref":     "record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20udGVzdC9fdGNwLl9zc2gvMS8xMC 8yMi90ZXN0LmNvbQ:_sshtcp.test.com/default",     "name": "_sshtcp.test.com",     "port": 22,     "priority": 1,     "target": "test.com",     "view": "default",     "weight": 10</pre>				
		}]}				
	Create	POST	<wapi_url>/record:srv</wapi_url>	{"name": "_sshtcp.info.com", "port": 22, "priority": 10, "target": "info.com", "weight": 10}		
		curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:srv?_return_fields%2B=name,target&_return_as_object =1" -d '{"name": "_sshtcp.info.com","port": 22,"priority": 10,"target": "info.com","weight": 10}'				
SRV		{"result": {"_ref": "record:srv/ AvMjIvaW5 "name": " "port": 22 "priority": "target": " "view": "d "weight": }}	ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb mby5jb20:_sshtcp.info.com/default", _sshtcp.info.com", 10, info.com", efault", 10	20uaW5mby9fdGNwLl9zc2gvMTAvMT		
		PUT	<wapi_url>/record:srv/ZG5zLmJpbmRfc3J 2JC5fZGVmYXVsdC5jb20uaW5mby9fdGN wLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:_ sshtcp.info.com/default</wapi_url>	{"priority": 20}		
	Modify	curl -k -u ac "https://grid mby9fdGNv %2B=priorit	<pre>Imin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:srv/ZG5zLmJpbn vLl9zc2gvMTAvMTAvMjIvaW5mby5jb20:_ss ty&amp;_return_as_object=1" -d '{"priority": 20}'</pre>	on' -X PUT hRfc3J2JC5fZGVmYXVsdC5jb20uaW5 htcp.info.com/default?_return_fields		
		{"result": {"_ref": "record:srv/ AvMjIvaW5 "name": " "port": 22	ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb mby5jb20:_sshtcp.info.com/default", _sshtcp.info.com",	20uaW5mby9fdGNwLl9zc2gvMjAvMT		

		"priority": "target": " "view": "d "weight": }}	20, info.com", efault", 10	
		DELETE	<pre><wapi_url>/record:srv/ZG5zLmJpbmRfc3J 2JC5fZGVmYXVsdC5jb20uaW5mby9fdGN wLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_s shtcp.info.com/default</wapi_url></pre>	
	Delete	curl -k -u ac "https://grid mby9fdGNv ect=1"	<pre>Imin:infoblox -H 'content-type: application/jsc -master/wapi/v2.12/record:srv/ZG5zLmJpbm wLl9zc2gvMjAvMTAvMjIvaW5mby5jb20:_ssh</pre>	on' -X DELETE hRfc3J2JC5fZGVmYXVsdC5jb20uaW5 htcp.info.com/default?_return_as_obj
		{"result": "record:srv/ AvMjIvaW5	ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb mby5jb20:_sshtcp.info.com/default"}	20uaW5mby9fdGNwLl9zc2gvMjAvMT

### Retrieve all the records in a zone

The API function all records 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		Sample cURL Command						
		Sample Output						
	GET	<wapi_url>/allrecords?zone=info.com</wapi_url>						
	curl -k -u admin:infoblox -X GET							
Retrieve all	"https://grid-master/wapi/v2.12/allrecords?zone=info.com&_return_as_object=1"							
records in a	{"result":							
zone	[["_ref": "							
	m8:",	ZG5ZENPVDNVICZVNCNNOZZIUZGV4JGRUCY518W5KZ3NVYSQUZZRIZMF1DHQUYZ9tEMIUZ						

"commont", "Auto prosted by Add Zono"
comment. Auto-created by Add Zone ,
"name": "",
"type": "UNSUPPORTED",
"view": "default",
"zone": "info.com"
3
\_ici.
aniecologiz Gozchipybni vicz vicini woży w JGRucybia wokrzozu Colz Gvini A vsu Colbzou a womby
4uavv5mb2Jsb3gubG9JYvvxkb21navv4:",
"comment": "Auto-created by Add Zone",
"name": "",
"type": "UNSUPPORTED",
"view": "default".
"zone": "info com"
{*_rer:
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uaW5mby5ob3
N0:host",
"comment": "",
"name": "host".
"type": "record:host_ipy4addr"
"zone": "Into.com"
},
{"_ref":
"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvL
HNIcnZIciwxMC4xMC4xMC4v:server".
"comment". ""
"name". "conver"
type: record:a,
"view": "default",
"zone": "info.com"
},
{" ref":
allecords/ZG5zI npvbmVfc2VbcmNoX2luZGV4.IGRucv5iaW5kX2EhYWEkI.l9kZWZhdWx0I mNvbS5nb
name : server",
"type": "record:aaaa",
"view": "default",
"zone": "info.com"
3.
{" ref"·
alirecords/ZG5zI_nnvbm\/fc2\/bcmNoX2luZG\/4.IGRuov5ob3N0.IC5fZG\/mXX\/edC5ib20ua\//5mbv50Z
VNO-toot"
comment: ",
"name": "test",
"type": "record:host_ipv4addr",
"view": "default",
"zone": "info.com"
313
lu l

### 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.

	REST Method	API Call					
Operation	Sample cURL Command						
	Sample Output						
	GET	<wapi_url>/record:a?creator=STATIC</wapi_url>					
	curl -k -u a "https:// <mark>gri</mark> c =1"	dmin:infoblox -X GET d-master/wapi/v2.12/record:a?creator=STATIC&_return_fields%2B=creator&_return_as_object					
Retrieve non-system generated A records	<pre>{"result":     [{"_ref":     "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info     com/default",         "creator": "STATIC",         "ipv4addr": "10.10.10.2",         "name": "server.info.com",         "view": "default"      },      {"_ref":      "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmRlbW8scHJpbnQsMTAuMTAuTAuMjE:print.den      o com/default"</pre>						
	"creator "ipv4ado "name": "view": " }]}	": "STATIC", dr": "10.10.10.21", "print.demo.com", 'default"					
	GET	<wapi_url>/allrecords?zone=demo001.com&amp;creator=STATIC</wapi_url>					
	curl -k -u a "https://grid ator&_retu	dmin:infoblox -X GE1 d <mark>-master</mark> /wapi/v2.12/allrecords?zone=demo001.com&creator=STATIC&_return_fields%2B=cre rn_as_object=1"					
Retrieve non-system generated	{"result": [{"_ref": "allrecords S5ob3N0N "comme "name":	/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uZGVtbzAwM /IDAx:host001", ent": "", "host001"					
records of all types within	"type": " "view": "	record:host_ipv4addr", /default", /default",					
zone demo001.com	{"_ref": "allrecords DAxLGhvc "comme "name":	/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5kZW1vM 33QwMDIsMTAuMC4wLjI:host002", ent": "", "host002",					
	"type": " "view": " "zone": "	record:a", ldefault", "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

	REST Method	API Call			
Operation		Sample cURL Command			
	Sample Output				
Retrieve host by object reference	GET	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test .com/default</wapi_url>			
	curl -k -u a "https://gri host1.test.	dmin:infoblox -X GET d-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx: com/default?_return_as_object=1"			
	{"result": {"_ref": "record:ho	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",			
	"ipv4add [{ "_ref":	rs":			
	record:ho" jI2LjEuMjA config	st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyL wLg:172.26.1.200/host1.test.com/default", ure_for_dhcp": false,			
	"nost": "ipv4ao 31	"nost1.test.com", ddr": "172.26.1.200"			
	"name": "view": "	"host1.test.com", default"			
	}}				
	GET	<wapi_url>/record:host?name=host1.info.com</wapi_url>			
	curl -k -u a "https:// <mark>gri</mark>	dmin:infoblox -X GE1 d-master/wapi/v2.12/record:host?name=host1.info.com&_return_as_object=1"			
	{"result": [{"_ref": "record:ho	st/ZG5zLmbyc3QkLl9kZWZbdWx0LmNybS5pbmZyLmbyc3Qx:bost1.info.com/default"			
Search host by	"ipv4ado [{"_ref"	drs":			
name	record:ho" MTAuMTA confic	st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uaG9zdDEuMTAu uMjAu:10.10.10.20/host1.info.com/default", ure_for_dbco": false			
	"host": "ipv4a	"host1.info.com", ddr": "10.10.10.20"			
	}], "name": "http://www.	"host1.info.com",			
	view :	default			
	GET	<wapi_url>/record:host?_return_fields%2B=extattrs&amp;*Location:=Santa%20Clara</wapi_url>			
Search host by EA (Location is set to Santa Clara)	curl -k -u a "https://gri & return a	dmin:infoblox -X GET d-master/wapi/v2.12/record:host?_return_fields%2B=extattrs&*Location%3A=Santa%20Clara as_object=1"			
	{"result":				
	"record:ho "extattrs	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", ": 			
	Locat {"valu	e": "Santa Clara"}			

	}, "ipv4addrs":				
	[{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyL jl2LjEuMjAwLg:172.26.1.200/host1.test.com/default",				
	"configure_for_dhcp": false, "bost": "bost1 test com"				
	"ipv4addr": "172.26.1.200"				
	ון, "name": "host1.test.com",				
	"view": "default" }]}				
	GET <wapi_url>/record:host?ipv4addr&gt;=10.10.10.100&amp;ipv4addr&lt;=10.10.10.102</wapi_url>				
	curl -k -u admin:infoblox -X GET "https:// <mark>grid-master</mark> /wapi/v2.12/record:host?ipv4addr>=10.10.10.100&ipv4addr<=10.10.10.102&_return_ as_object=1"				
	{"result":				
	l{ _ref : "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0x:host-1.abc.com/default", "ipv4addrs": ∬" ref"·				
	"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmFiYy5ob3N0LTEuMTAu MTAuMTAuMTAxLg: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" },				
Search host by IP address	{"_ret": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0y:host-2.abc.com/default", "ipv4addrs":				
range	[{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmFiYy5ob3N0LTIuMTAuM TAuMTAuMTAyLg:10.10.10.102/host-2.abc.com/default",				
	"configure_for_dhcp": false, "host": "host-2.abc.com", "ipv4addr": "10.10.102" }],				
	"name": "host-2.abc.com",				
	{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0Lm5ldC54eXoudGVzdA:test.xyz.net/default",				
	[{"_ref":				
	"record:nost_ipv4addr/2G5zLmnvc3RfYWRkcmVzcyQuX2Ri2mF1bHQubmV0Lnn5ei50ZXN0LjEwLjEwLj EwLjEwMC4:10.10.10.100/test.xyz.net/default",				
	"configure_for_dhcp": false, "host": "test xvz net"				
	"ipv4addr": "10.10.10.100"}],				
	"name": "test.xyz.net", "view": "default" }]}				
	GET <wapi_url>/record:host?network=10.10.10.0/24</wapi_url>				
Soarch heat he	curl -k -u admin:infoblox -X GET				
subnet	nttps://gno-master/wapi/v2.12/record:nost?network=10.10.10.0/24&_return_as_object=1"				
	[{"_ref":				
	"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5hYmMuaG9zdC0x:host-1.abc.com/default",				

	"ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmFiYy5ob3N0LTEuMTAu MTAuMTAxLg: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/ZG5zLmhvc3QkLl9kZWZhdWx0Lm5ldC54eXoudGVzdA:test.xyz.net/default", "ipv4addrs": [{"_ref":			
	"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQubmV0Lnh5ei50ZXN0LjEwLjEwLj EwLjEwMC4:10.10.100/test.xyz.net/default", "configure_for_dhcp": false, "host": "test.xyz.net", "ipv4addr": "10.10.10.100"}].			
	"name": "test.xyz.net", "view": "default" }]}			
	GET <pre><wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLj EwLjEwLjI:server.info.com/default</wapi_url></pre>			
	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmV yLDEwLjEwLjEwLjI:server.info.com/default?_return_as_object=1"			
Get A record using object reference	{"result": {"_ref": "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info. com/default", "ipv4addr": "10.10.10.2", "name": "server.info.com", "view": "default" }}			

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

#### Search for network objects based on regular expressions

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

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

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

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

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

info com in the				
into.com in the	curi -k -u admin.intobiox -X GET			
name	"https://grid-master/wapi/v2.12/record:a?name~=info.com&_return_fields=name&_return_as_object=			
	1"			
	{"result":			
	[{" ref":			
	"record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.i			
	nfo.com/default".			
	"name": "server.info.com"			
	<b>}</b> .			
	{" ref":			
	"record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEw			
	MA:host.test.info.com/default",			
	"name": "host.test.info.com"			
	<u>}]</u> }			
	GET <wapi_url>/zone_auth?fqdn~=^i.*lo.*\$&amp;_return_fields=fqdn</wapi_url>			
	curl -k -u admin:infoblox -X GET			
	"https://grid-master/wapi/v2.12/zone_auth?fqdn~=^i.*lo.*\$&_return_fields=fqdn&_return_as_object=1"			
	{"result":			
	[{" ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default".			
Secret for Jones	"fadn": "infoblox.com"			
Search for Zones				
and contain "Io"				
	"fadn": "informblox.com"			
	}			
	{" ref": "zone, auth/ZG5zl novbmUkl l9kZWZhdWx0l mNvbS5phmdsbw inglo.com/default"			
	"fadn": "inalo.com"			
	[]]]			
	۲۰۱ ۲۰۱			

#### Aliases for a host

Operation	REST Method	API Call	Sample Body	
	Sample cURL Command			
	Sample Output			
Get all the aliases on a host	GET	<wapi_url>/record:host?_return_fields%2B=aliases&amp;name=print er.info.com</wapi_url>		
	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"			
	<pre>as_object=1 {"result":     [{"_ref":     "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnByaW50ZXI:printer.info.com/default",     "aliases":     ["scanner.info.com"],     "ipv4addrs":     [{"_ref":     "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ucHJpbnRlci4xNj AuMjAuMS4xMDAu: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",     "iview": "default"</pre>			

			{"name":"wapialias.info.com"		
Add a host with aliases Modify aliases on a host	POST	<wapi_url>/record:host</wapi_url>	, "ipv4addrs": [{"ipv4addr":"172.26.1.2"}], "aliases": [ "remote","pointer"]}		
	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": {"_ref": "record:ho: It"	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlł	ncw:wapialias.info.com/defau		
	"aliases" ["remote "pointe	: e.info.com", r.info.com"			
	], "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWF				
	zLjE3Mi4y "config "host": "ipv4a	Ni4xLjlu:172.26.1.2/wapialias.info.com/default", gure_for_dhcp": false, "wapialias.info.com", ddr": "172.26.1.2"			
	}], "name": "view": " }}	"wapialias.info.com", default"			
	PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS 5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default</wapi_url>	{"aliases": ["local"]}		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhb Glhcw:wapialias.info.com/default?_return_fields%2B=aliases&_return_as_object=1" -d '{"aliases": ["local"]}'				
	{"result": {"_ref": "record:ho: lt",	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlł	ncw:wapialias.info.com/defau		
	"aliases" ["local.ii "ipv4add [{" ref":	: nfo.com"], rs":			
	"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaWFsaWF zLjE3Mi4yNi4xLjIu:172.26.1.2/wapialias.info.com/default", "configure_for_dhcp": false, "host": "wapialias info.com"				
	"ipv4addr": "172.26.1.2" }],				
	"view": "( }}	default"			
Remove aliases from a host	PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS 5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default</wapi_url>	{"aliases": [ ]}		
-					
---	---				
	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhb Glhcw:wapialias.info.com/default?_return_fields%2B=aliases&_return_as_object=1" -d '{"aliases": []}'				
	{"result": {"_ref":				
	"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/defau lt", "inv4oddra":				
	[{"_ref": [{"_ref": "record:host_ipv4addr/ZG5zI_mhvc3RfYWRkcmVzcvQuX2RlZmF1bHQuY29tI_mluZm8ud2EwaWEsaWE				
	zLjE3Mi4yNi4xLjlu: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", "sites the facth"				
	View": "default" }}				

Change the IP address of a host

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Output			
	PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvb S50ZXN0Lmhvc3Qx:host1.test.com/default</wapi_url>	{"ipv4addrs": [{"ipv4addr": "172.26.1.21"}]}		
	curl -k -u a "https://gric host1.test. "172.26.1.:	<pre>dmin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx com/default?_return_fields%2B=ipv4addrs&amp;_return_as_object= 21"}]}'</pre>	0LmNvbS50ZXN0Lmhvc3Qx: 1" -d '{"ipv4addrs":[{"ipv4addr":		
Change IP address of a host	{"result": {"_ref": "record:ho "ipv4add [{"_ref": "record:ho jI2LjEuMjE "config "host": "ipv4ad }], "name": "view": "d	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:r rs": st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY2 fu:172.26.1.21/host1.test.com/default", ure_for_dhcp": false, "host1.test.com", ddr": "172.26.1.21" "host1.test.com", default"	oost1.test.com/default", 29tLnRlc3QuaG9zdDEuMTcyL		

## 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	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvb S50ZXN0Lmhvc3Qx:host1.test.com/default</wapi_url>	{"ipv4addrs+": [{"ipv4addr": "192.168.1.21"}, {"ipv4addr": "10.10.10.21"}]}
	curl -k -u a "https://grid ost1.test.c '{"ipv4addr	dmin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx( om/default?_return_fields%2B=ipv4addrs&_return_as_object=1" 's+":[{"ipv4addr":"192.168.1.21"},{"ipv4addr":"10.10.10.21"}]]'	)LmNvbS50ZXN0Lmhvc3Qx:h -d
Add IP address to a host record	<pre>{"result":     {"_result":     {"_ref":     "record:ho     [{"_ref":     "record:ho l2LjEuMjE     "config     "host":     "ipv4ad     },     {"_ref":     "record:ho jE2OC4xL     "config     "host":     "ipv4ad     },     {"_ref":     "record:ho MTAuMTA     "config     "host":     "ipv4ad     ;,     "ipv4ad     ;,     {".name":     "view": '     "view"</pre>	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:h rs": st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY2 u:172.26.1.21/host1.test.com/default", ure_for_dhcp": false, "host1.test.com", ddr": "172.26.1.21" st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY2 jlxLg:192.168.1.21/host1.test.com/default", ure_for_dhcp": false, "host1.test.com", ddr": "192.168.1.21" st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY2 uMjEu:10.10.10.21/host1.test.com/default", ure_for_dhcp": false, "host1.test.com", ddr": "10.10.10.21/host1.test.com/default", "host1.test.com", ddr": "10.10.10.21" "host1.test.com", 'default"	ost1.test.com/default", 29tLnRlc3QuaG9zdDEuMTcyLj 29tLnRlc3QuaG9zdDEuMTkyL
	PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvb S50ZXN0Lmhvc3Qx:host1.test.com/default</wapi_url>	{"ipv4addrs-": [{"ipv4addr": "192.168.1.21"}]}
Remove IP address from a	curl -k -u a "https://gri ost1.test.c '{"ipv4addr	dmin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx( om/default?_return_fields%2B=ipv4addrs&_return_as_object=1" 's-":[{"ipv4addr":"192.168.1.21"}]]'	)LmNvbS50ZXN0Lmhvc3Qx:h -d
HOST RECORD	{"result": {"_ref": "record:ho "ipv4add [{"_ref":	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:h Irs":	ost1.test.com/default",

"record bost_inv4addr/ZG5zl_mbyc3Rf/WRkcm\/zcyQuX2RIZmE1bHQuY29tl_nRlc3QuaG9zdDEuMTcyLi
12) EUMEDUTT2 26 1 21/bost1 test com/default"
"Antigue of the deal" factor
nost": "nost").test.com",
"ipv4addr": "172.26.1.21"
},
{" ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTAu
MTAuMTAuMjEu:10.10.10.21/host1.test.com/default",
"configure_for_dhcp": false,
"host": "host1.test.com",
"ipv4addr": "10.10.10.21"
}],
"name": "host1.test.com",
"view": "default"
}}

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

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

	REST Method	API Call	Sample Body
Operation			Sample cURL Command
			Sample Output
	POST	<wapi_url>/record:host</wapi_url>	{"name":"wapi.info.com", "ipv4addrs": [{"ipv4addr":{"_object_function":"next_available_ip", "_parameters":{"exclude":["10.10.10.1","10.10.10.2"]}, "_result_field":"ips", "_object" : "network", "_object_parameters":{"network":"10.10.10.0/24"}}}]}
	curl -k -u a "https://gric -d '{"name":"w :{"exclude" "network","	dmin:infoblox -H 'content-ty -master/wapi/v2.12/record: vapi.info.com","ipv4addrs":[- :["10.10.10.1","10.10.10.2"]] ' object parameters":{"netw	pe: application/json' -X POST host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " {"ipv4addr":{"_object_function":"next_available_ip","_parameters" },"_result_field":"ips","_object" : vork":"10.10.10.0/24"}}]]'
Add host with next available IP address from a network	{"result": {"_ref": "re "ipv4add [{"_ref": "record:hos xMC4xMC4 "configu "host": " "ipv4add }], "name": ' "view": "co }}	ecord:host/ZG5zLmhvc3Qk rs": st_ipv4addr/ZG5zLmhvc3Rt 4zLg:10.10.10.3/wapi.info.c ure_for_dhcp": false, 'wapi.info.com", dr": "10.10.10.3" 'wapi.info.com", Jefault"	LI9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default", fYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaS4xMC4 om/default",
	POST	<wapi_url>/record:host</wapi_url>	{"name": "wapi.info.com", "ipv4addrs":[{"ipv4addr": "func:nextavailableip:10.10.10.0/24"}]}

curl -k -u a "https://gric -d '{"name"	dmin:infoblox -H 'content-ty d-master/wapi/v2.12/record ': "wapi.info.com","ipv4addr	/pe: application/json' -X POST :host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " rs":[{"ipv4addr":"func:nextavailableip:10.10.10.0/24"}]}'
{"result": {"_ref": "re "ipv4addi {{" ref":	ecord:host/ZG5zLmhvc3Qk rs":	xLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
"record:hos xMC4xMC4 "configu "host": "ipv4ac }],	st_ipv4addr/ZG5zLmhvc3R 4xLg:10.10.10.10/wapi.info ure_for_dhcp": false, "wapi.info.com", ldr": "10.10.10.10"	fYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4 .com/default",
"name": ' "view": " }}	'wapi.info.com", default"	
POST	<wapi_url>/record:host</wapi_url>	{"name":"wapi.info.com", "ipv4addrs": [{"ipv4addr": "func:nextavailableip:network/ZG5zLm5ldHdvcmskMTkyLjE2OC 4xLjAvMjQvMA:192.168.1.0/24/default"}]}
curl -k -u a "https://gric -d	dmin:infoblox -H 'content-ty I-master/wapi/v2.12/record	/pe: application/json' -X POST :host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 "
'{"name":"v T <mark>kyLjE2O0</mark>	vapi.info.com","ipv4addrs":[ C4xLjAvMjQvMA:192.168.1	[{"ipv4addr":"func:nextavailableip:network/ZG5zLm5ldHdvcmskM .0/24/default "}]}'
{"result": {"_ref": "re "ipv4addr {{"_ref":	ecord:host/ZG5zLmhvc3Qk s":	xLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
"record:hos uMTY4LjEu "configuu "host": "v "ipv4ado }], "name": "v "view": "d	st_ipv4addr/ZG5zLmhvc3R uMS4:192.168.1.5/wapi.info re_for_dhcp": false, wapi.info.com", Ir": "192.168.1.5" wapi.info.com", efault"	fYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xOTI o.com/default",
}}		("name": "wani info.com"
POST	<wapi_url>/record:host</wapi_url>	"ipv4addrs": [{"ipv4addr": "func:nextavailableip:172.21.10.0/24,default"}]}
curl -k -u a "https:// <mark>gric</mark> -d '{"name"	dmin:infoblox -H 'content-ty I-master/wapi/v2.12/record ': "wapi.info.com","ipv4addr	/pe: application/json' -X POST :host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " rs": [{"ipv4addr":"func:nextavailableip:172.21.10.0/24,default"}]}'
{"result": {"_ref": "re "ipv4addi [{" ref":	ecord:host/ZG5zLmhvc3Qk rs":	xLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
"record:hos MjEuMTAu "config "host": "ipv4ac }],	st_ipv4addr/ZG5zLmhvc3R MS4:172.21.10.1/wapi.info ure_for_dhcp": false, "wapi.info.com", Idr": "172.21.10.1"	fYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xNzIu o.com/default",
name": '	'wapi.info.com",	

	"view": "c	lefault"	
	}}	1	
	POST	<wapi_url>/record:host</wapi_url>	{"name": "wapi.info.com", "ipv4addrs": [{"ipv4addr":
			["func:nextavailableip: 192.168.1.10-192.168.1.15"}]}
	Curl -k -u a	dmin:intoblox -H 'content-ty	/pe: application/json' -X POST :boot2_roturn_fielde%2P=name_inv4addre8_roturn_ac_object=1."
	-d '{"name" 192.168.1.	": "wapi.info.com","ipv4addi 10-192.168.1.15"}]}'	rs": [{"ipv4addr":"func:nextavailableip:
	{"result": {"_ref": "re "ipv4addi [{" ref":	ecord:host/ZG5zLmhvc3Qk rs":	xLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
	"record:hos uMTY4LjEu	st_ipv4addr/ZG5zLmhvc3R uMTAu:192.168.1.10/wapi.	tfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xOTI info.com/default",
	"host": " "ipv4ade	/wapi.info.com", dr": "192.168.1.10"	
	}], "name": ' "view": "c	'wapi.info.com", lefault"	
	}}		
	POST	<wapi_url>/record:host</wapi_url>	<pre>{ name : wapl.inio.com , "ipv4addrs":[{"ipv4addr" : {"_object_function":"next_available_ip", "_result_field":"ips", "_object":"network", "_object_parameters":{"*Region" : "EMEA"}, "_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}}, "use_for_ea_inheritance":true}]}</pre>
	curl -k -u a "https:// <mark>gric</mark>	dmin:infoblox -H 'content-ty d-master/wapi/v2.12/record	/pe: application/json' -X POST :host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 "
Add host with next	-a '{"name":"w "ips"," obje	vapi.info.com","ipv4addrs": ect":"network"," object par	[{"ipv4addr":{"_object_function":"next_available_ip","_result_field": ameters":{"*Region" :
a network using a	"ÉMÉA"},"_	_parameters":{"exclude":["1	0.0.0.1","10.0.0.2"]}},"use_for_ea_inheritance":true}]}'
complex search (using Extensible Attributes) and inherit the EAs	{"result": {"_ref": "re "ipv4addi [{"_ref":	ecord:host/ZG5zLmhvc3Qk rs":	xLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
	"record:hos wLjAuMy4: "configu	st_ipv4addr/ZG5zLmhvc3R 10.0.0.3/wapi.info.com/def	tfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4 ault",
	"host": " "ipv4ade	/wapi.info.com", dr": "10.0.0.3"	
	}], "name": '	'wapi.info.com",	
	"view": "c }}	iefault"	

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		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"}]}	
	curl -k -u <mark>a</mark> "https:// <mark>gri</mark> -d '{"name	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1" -d '{"name":"host info com" "ipv4addrs":[{"ipv4addr":"172 26 1 20" "mac":"aa:bb:cc:11:22:21"}]}		
Add a host with a fixed address	{"result": {"_ref": "record:ho "ipv4add [{"_ref":	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:h Irs":	ost.info.com/default",	
	"record:ho uMjYuMS4 "configu "host": "ipv4ad "mac": }], "name": "view": "e	st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQu\ lyMC4:172.26.1.20/host.info.com/default", ure_for_dhcp": true, "host.info.com", ldr": "172.26.1.20", "aa:bb:cc:11:22:21" "host.info.com", default"	′29tLmluZm8uaG9zdC4xNzI	

Add Extensible Attributes to an object

	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
	PUT	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNv bS5pbmZvLndhcGk:wapi.info.com/default</wapi_url>	{"extattrs": {"Site": {"value": "East"}}}
	curl -k -u a "https://gri wapi.info.c "East"}}}'	admin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWz com/default?_return_fields%2B=extattrs&_return_as_object=1"	x0LmNvbS5pbmZvLndhcGk: -d '{"extattrs":{"Site": {"value":
Add an extensible attribute	{"result": {"_ref": "record:ho "extattrs {"Site": }, "ipv4ado [{"_ref": "record:ho 4wLjAuMy "config "host": "ipv4ao }], "name": '	st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:w ": ["value": "East"} lrs": st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY 4:10.0.0.3/wapi.info.com/default", ure_for_dhcp": false, "wapi.info.com", ldr": "10.0.0.3"	api.info.com/default", ′29tLmluZm8ud2FwaS4xMC

"view": "default" }}
-------------------------

#### TTL

By default, the TTL is inherited from the Grid.

To override the default settings, while modifying TTL at the zone level, specify the TTL value in the *soa\_default\_ttl* field and also set the *use\_grid\_zone\_timer* field to true. When this is set to *false*, the *soa\_default\_ttl* value indicates the default ttl.While modifying at the record level, remember to set the *use\_ttl* flag to true. Otherwise, the value will be inherited from a higher-level setting.

	REST Method	API Call	Sample Body
Operation		Sample cURL Command	•
		Sample Output	1
	GET	<wapi_url>/grid:dns?_return_fields%2B=default_ttl</wapi_url>	
Fetch the default	curl -k -u a "https:// <mark>gri</mark>	admin:infoblox -X GET <mark>d-maste</mark> r/wapi/v2.12/grid:dns?_return_fields%2B=default_ttl&_r	eturn_as_object=1"
grid-wide TTL value	{"result": [{"_ref": " "default }]}	grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Int _ttl": 28800	foblox",
	GET	<wapi_url>/zone_auth?fqdn=info.com&amp;_return_fields%2B=use grid_zone_timer,soa_default_ttl</wapi_url>	
	curl -k -u a "https:// <mark>gri</mark> a_default_	admin:infoblox -X GET d-master/wapi/v2.12/zone_auth?fqdn=info.com&_return_fields% ttl&_return_as_object=1"	62B=use_grid_zone_timer,so
Fetch TTL for a zone	{"result": [{"_ref": " "fqdn": ' "soa_de "use_gr "view": }]}	zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:inf 'info.com", efault_ttl": 28800, id_zone_timer": false, "default"	ō.com/default",
	PUT	<wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvb S5pbmZv:info.com/default</wapi_url>	{"use_grid_zone_timer":true, "soa_default_ttl":5000}
Modify TTL for a	curl -k -u a "https://gri <mark>efault</mark> ?_re '{"use_gric	admin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx turn_fields%2B=use_grid_zone_timer,soa_default_ttl&_return_a i_zone_timer":true,"soa_default_ttl":5000}'	0LmNvbS5pbmZv:info.com/d as_object=1" -d
zone	{"result": {"_ref": "z "fqdn": "i "soa_de "use_gri "view": "i	zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info info.com", fault_ttl": 5000, d_zone_timer": true, default"	o.com/default",
Modify TTL for a	PUT	<wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsd C5jb20udGVzdC5tYWlsLiJUaGlzliAiYSIgIm1haWwilCJzZXJ2 ZXli:mail.test.com/default</wapi_url>	{"use_ttl": true, "ttl":3600}
recoru	curl -k -u a "https:// <mark>gri</mark>	admin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVn	nYXVsdC5jb20udGVzdC5tY

WIsLiJUaGIzliAiYSIgIm1haWwiICJzZXJ2ZXI:mail.test.com/default?_return_fields%2B=ttl&_return_as _object=1" -d '{"use_ttl": true,"ttl":3600}'
<pre>["soject i ' d' [ dec_ta : trade, ta : bood] {"result": {"_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzliAiYSlgIm1haWwi ICJzZXJ2ZXli:mail.test.com/default", "name": "mail.test.com", "text": "This a mail server", "ttl": 3600, "view": "default"</pre>
}

#### Name Server Groups

Quanting	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	GET	<wapi_url>/nsgroup</wapi_url>		
Fetch name server groups and its members	curl -k -u a "https:// <mark>gri</mark> s_object=1	idmin:infoblox -X GET d-master/wapi/v2.12/nsgroup?_return_fields%2B=grid_primary, I"	grid_secondaries&_return_a	
	{"result": {"_ref": "nsgroup/ZG5zLm5zX2dyb3VwJFRIc3Qy:demo", "grid_primary": [{"name": "infoblox.localdomain", "stealth": false}], "name": "demo" }}			
	POST	<wapi_url>/nsgroup</wapi_url>	{"name":"test", "grid_primary":[{"name":"info blox.localdomain"}]}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/nsgroup?_return_fields%2B=grid_primary&_return_as_object=1" -d '{"name":"test","grid_primary":[{"name":"infoblox.localdomain"}]]'			
Create a name server group	{"result": {"_ref": "n: "grid_prir [{"name" "stealth "grid_sec "name": " }}	sgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test", nary": : "infoblox.localdomain", ": false}], condaries": [], 'test"		
	PUT	<wapi_url>/nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test</wapi_url>	{"grid_secondaries":[{"name ":"member1.localdomain"}]}	
Add grid secondaries to the name server group	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/nsgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test?_return_fields%2B=grid_p rimary,grid_secondaries&_return_as_object=1" -d {{"grid_secondaries":[{"name":"member1.localdomain"}]}'			
	{"result": {"_ref": "n: "grid_prir [{"name" "stealth }],	sgroup/ZG5zLm5zX2dyb3VwJHRlc3Q:test", nary": : "infoblox.localdomain", ": false		

	"grid_secondaries": [{"enable_preferred_primaries": false, "grid_replicate": true, "lead": false, "name": "member1.localdomain", "preferred_primaries": [], "stealth": false
	"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\_tranfer* flag, set the *use\_allow\_transfer* flag.

	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
	PUT	<wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRp ZXMkMA:Infoblox?_return_fields%2B=allow_transfer</wapi_url>	{"allow_transfer": [{ "_struct": "addressac", "address":"Any", "permission":"ALLOW"}]}
Enable and specify the zone transfer	curl -k -u a "https://gri return_fiel "addressa	dmin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb ds%2B=allow_transfer&_return_as_object=1" -d '{"allow_transf c","address":"Any","permission":"ALLOW"}]}'	3BlcnRpZXMkMA:Infoblox?_ er": [{ "_struct":
level	{"result": {"_ref": "ç "allow_tr [{"_struc "addre "permi: }]}}	ırid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Info ansfer": st": "addressac", ss": "Any", ssion": "ALLOW"	oblox",
	PUT	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydG llcyQx:member1.localdomain?_return_fields%2B=allow_transf er</wapi_url>	{"allow_transfer": [{ "_struct": "addressac", "address":"10.10.0.0/16", "permission":"ALLOW"}]}
Enable and specify	curl -k -u a "https://gri aldomain? "addressa	dmin:infoblox -H 'content-type: application/json' -X PUT d-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJv _return_fields%2B=allow_transfer&_return_as_object=1" -d '{"a c","address":"10.10.0.0/16","permission":"ALLOW"}]}'	cGVydGllcyQx:member1.loc allow_transfer": [{ "_struct":
the zone transfer settings at the member level	{"result": {"_ref": "r "allow_tr [{"_struc "addre "permi: }], "host_n: "ipv4ado }}	nember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:memb ansfer": xt": "addressac", ss": "10.10.0.0/16", ssion": "ALLOW" ame": "member1.localdomain", dr": "172.26.1.3"	er1.localdomain",

	PUT	<pre>{"use_a {"use_a {"use_a s5kZW1v:demo.com/default?_return_fields%2B=allow_transfe [{ "_stru "addres "permise"</pre>	llow_transfer":true, ransfer": ct": "addressac", s":"192.168.0.1/24", sion":"ALLOW"}]}				
	curl -k -u <mark>a</mark>	admin:infoblox -H 'content-type: application/json' -X PUT					
	"https://gri	id-master/wapi/v2.12/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvb 2. return_fields%2B=allow_transfer&_return_as_object=1"_d	S5kZW1v:demo.co				
Enable and specify	'{"use allo	n/default?_return_fields%2B=allow_transfer&_return_as_object=1" -d {"use allow transfer":true."allow transfer": [{ " struct":					
the zone transfer	"addressac","address":"192.168.0.0/24","permission":"ALLOW"}]]						
settings at the zone level	{"result": {"_ref": "z	and auth/ZG5zI ppybml lkl l0kZW/ZbdW/v0l mNybS5kZW1v;demo.com/	default"				
	allow tra	ansfer":	Jelault,				
	[{"_struct": "addressac",						
	"address": "192.168.0.0/24",						
	"permission": "ALLOW"						
	)], "fadn" <sup>,</sup> "a	demo.com"					
	"view": "c	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	<wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0L mNvbS5kZW1v:demo.com/default?_return_fields%2B=u se_dnssec_key_params</wapi_url>	{"use_dnssec_key_params":tr ue}	
Enable DNSSEC at	curl -k -u a zone_auth =use_dnss	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/ zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B =use_dnssec_key_params&_return_as_object=1" -d '{"use_dnssec_key_params":true}'		
the zone level	{"result": { "_ref": " "fqdn": ' "use_dr "view": ' }}	zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW 'demo.com", issec_key_params": true, 'default"	/1v:demo.com/default",	
Disable DNSSEC at the zone level	PUT	<wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0L mNvbS5kZW1v:demo.com/default?_return_fields%2B=u se_dnssec_key_params</wapi_url>	{"use_dnssec_key_params":fal se}	
	curl -k -u a zone_auth =use_dns:	dmin:infoblox -H 'content-type: application/json' -X PUT "h /ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.c sec_key_params&_return_as_object=1" -d '{"use_dnssec_	https:// <mark>grid-master</mark> /wapi/v2.12/ com/default?_return_fields%2B _key_params":false}'	
	{"result": { "_ref": " "fqdn": ' "use_dr "view": ' }}	zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW 'demo.com", issec_key_params": false, 'default"	/1v:demo.com/default",	

Sign the zone		POST <a href="https://wapi_url&gt;/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0L">wapi_url&gt;/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0L</a> mNvbS5kZW1v:demo.com/default?_function=dnssec_op {"operation":"SIGN"} eration
		curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/ zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_ operation" -d '{"operation":"SIGN"}'
		exapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0L           POST         mNvbS5kZW1v:demo.com/default?_function=dnssec_ge         {"key_pair_type":"ZSK"}           t_zone_keys         {"key_pair_type":"ZSK"}
		curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/ zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_function=dnssec_ get_zone_keys" -d '{"key_pair_type":"ZSK"}'
	Initiate the DNSSEC key download	{"token": "eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHIr5ehyQuHLhEMfx8/NznpTWzej1\ nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+XuxGmh b874\nGcmMeiFcKXZQInmZVesSkhqKGgBEOC2ufmC4YsIbkQv3aQpZApsqybM8ySGNVVSG1yP szaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iz nkDEnDexM\ne9Ypje7f1voxlcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7W DPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n", "url": "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0313185231810852/zsk_key_pair.txt" }
	Download the zone key	GET <pre></pre>
Get the zone key		curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/ req_id-DOWNLOAD-0313185231810852/zsk_key_pair.txt" -o "zsk_key_pair.txt"
(key pair type can be ZSK or KSK)		The content of the file looks similar to this: Keytag: 61578 Size: 1024 demo.com. IN DNSKEY 256 3 8
		AwEAAanEjBwnl/ftcaRD1R8NyXVhQwFFVzAxiFYUwanYKDJI3207eObhjb2FINOgO9y98Ln0kmlzS peLtqYzye10Dxfm+Eg4YSA9NNDunMM26yvSR/UqXakxH2Yain+rvXYIQB98QnuzWxNkJnmkPmst gugfcCTLdvBHIECJS/C3XqcT Private-key-format: v1.2
		Algoritnm: 8 (RSASHA256) Modulus: {0}_{aes}_sAAAAO3ti1bn6M/m4oXt8f3LUuyxdAjKjucwWVCL/0w3oqirdHsimtiVLc1mLwR7eZ1TTCn PfQDOW6USdmUY384tk6hush/WjFrSpxwA2yPr1b2s0Lk5QkvK/bn/JHkO4nj2BJk4QWegKJJHTkU hQzRlewr9Kj11OXfzExgu+FzkLTxvp6wSrmkY5hs4FV6yIZPWGA3DStRWv0f/cZDqvDZNpZyfS/0W 4HarfTb1IUfLariT PublicExponent: {0}_{aes}_EAAAADPzg/q9WRyzpo50uikbF6g=
		PrivateExponent: {0}_{aes}_sAAAAG7ErDwDyxx4Xg171crlSdxCMOOKbZmO8JGsXO6qo5eDNvdEfxp4E4DUIaiCM6 4aHmshvS6J1ILwHipTwkfdLyXTi7IasLDFHNWi8csJCMGQSD7slPxp96Jy/d4OGaVWgeVdEtBaD4 BK+2g8/Z85eqvkvv/JCG+EHbiUYYWUwHMUqpgw/2QmiCT1NQAkUb6uil9r3IE7gu9nGWJlx4s2u7 63UScbPtCfjOaRocAFcEaV Prime1:
		{0}_{aes}_YAAAAI9bl0ISOndVzocDRXWRBknU3qPBRY4wO2jIIzybdxgmXuPaBAW9CFK+JviUd+8 6JSEH5iMWay0NguohYK2d6Itg7y/Rnx3pTMJcjN0NrxzM9fRZFfJ7arb3ZEHn5pn7kA== Prime2:
		رەئےمەنى تەمەمەرىكە ئەرەپىكەن ئەرەپىكەن ئەرەپىكەن ئەرەپىكەن ئەرەپكەن ئەرەپكەن ئەرەپكەن ئەرەپكەن ئەرەپكەن ئەرەپكە dFDMMuM1ltHo44gYt5aLQPZIAq6GVMjPLX6vQnu/MOPXkkqrNL85BtNlyaZLkcR5Gg==

		Exponent1: {0}_{aes}_YAAAANmPwbRhwdBAkLQZHRD2seAC3YpYcHTgS7t7kSq48AF1wtfOmXKpcGeYg0 gAeTtJI4ELbB0B1ZLRFSDq7UkIY+LfrCnl3mZsrM1fKwTkqHwglxuPwSjNJoIAIJ5SxXDw== Exponent2:				
		<pre>{0}_{aes}_YAAAAFVZPm9Y3k0nAnSI/NIGC7kqPmjgAFHV6FvkITgjEdD3Oq8S3vDZ1GOvI51i8ht 4D/wvc6RCqP0kRYFISzSAPIFObN/HZtN69I8QtQU2x+k9zDiE0S4IPqAFZy8ndqzg== Coefficient:</pre>				
		{0}_{aes}_YAAAAO3i/B+eJC8sD0esfl/7l8lp4x2t7UDwNQh0vWQEp/6a8una6PUHuzTPuin/n+Lrtak6 OFkx/xGLNAE7G8KHtHA34XBpDRMQ7L7Yw/3fWbVhvS5DcBXPYNefxiUolb9EeQ==				
		POST <wapi_url>/fileop?_function=downloadcomplete {"token": "eJytUMv\n"}</wapi_url>				
	Remove the stored file using the token					
		<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0L POST mNvbS5kZW1v:demo.com/default?_function=dnssec_ex port&amp;operation=EXPORT_DS</wapi_url></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"				
	Initiate the export	{"token": "eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHlr5ehyQuHLhEMfx8/NznpTWzej1\ nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+XuxGmh b874\nGcmMeiFcKXZQInmZVesSkhqKGgBEOC2ufmC4YsIbkQv3aQpZApsqybM8ySGNVVSG1yP szaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iz nkDEnDexM\ne9Ypje7f1voxIcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7W DPZGDyog\nWZR2dK3/ZtViHx3oWodmclfCD+2DsVPENox1yRdF36Jv\n", "url": "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0502010716646241/ds_records.txt" }				
Export trust anchor in DS format	Download	GET GET $= \frac{\text{surl_from_the_previous_output>}}{\text{Example:}} \\ = \frac{\text{https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-050}}{2010716646241/ds_records.txt}$				
ioimat		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"				
	records	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>				
	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" : "eJytUMFOwzAMvedHtsvauqVdx22oTEJCm7QhcbTaJB3R2iYkHIr5ehyQuHLhEMfx8/NznpTWzej1\ nWXCQdgrkr5KsFw7EUpqpt91gb4mddDw0Ox1E01KLR90LlwuJ2F3NQGZCFMpIEq4QS+XuxGmh b874\nGcmMeiFcKXZQInmZVesSkhqKGgBEOC2ufmC4YsIbkQv3aQpZApsqybM8ySGNVVSG1yP				

	szaDR2NTr\ndzRq1Rxe98+HbbPKCiigLnMOkPGdfoYLXvSMrjU+oRuxwjqKGcVZzVp/TeC2TSQo/iz nkDEnDexM\ne9Ypje7f1voxIcqgnqRVZjrHas56D0/7mBa/DaNV0UqI7jbbly0eH3fxXYpARwdVdB7W DRZGDvoglpWZR2dK3/Zt\/iHx3oWodmclfCD+2Ds\/PENox1yRdE36.lv\n"\
	GET {     se_dnssec_key_params,is_dnssec_enabled,dnssec_key     s
Get a list of the zone keys	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/ zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fields%2B =use dnssec key params,is dnssec enabled,dnssec keys& return as object=1"
	<pre>{"result":     { "_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default",     "dnssec_keys":     [{"algorithm": "8",         "next_event_date": 1584039064,         "public_key":     "AwEAAboElNe0pPpO+SXWII8JY05tPL1WKqJV2GcoJqbUbiGa6dgD4NDpZ8taFax7cpSp3TKEUL JiwXCoQ+tpPD8f0IJO0LRtGYnn99VYIX8eNuQ+jH2oJl66hnarmzx99YWowZNIQ4UsJiLe1bo1+5Qt 0vsgN8m0bLJHLgDnUBWga7BmNXsjVgXJD/QRHyfZdsSX5qbrvnogzZTjFYe+wsA2mZXvv5MhOE 3qdCpOv3W4GkX//x3HaRU1R1ozKImpQM6Rk4+EUjjNT9gGXt2EMGGZDNBgvhMbjzuBhuyu0GX 5zqVi5ZkN++MOYQQUQ5EFKgJPW7oFJMtTYi4XmV7bwIZA/rM=",     "status": "ACTIVE",     "tag": 4654,     "type": "KSK" }</pre>
	<pre> /, {"algorithm": "8",     "next_event_date": 1555095064,     "public_key":     "AwEAAd2v3QOi88A/SDjY62yX33euAHSqdp+ORs98xRv93GmYli3zVMGfbglgJdhQ8UvRiCNBu+r ECpZBzV//xgRh+WVoHAAPILGpuKuoqy7g82a9fenQPhAC1fP61pVJpl06bVEGVNS8GsARgMnf6Lf 084Dri32tq4WLfJdoj+rd4wir",     "status": "PUBLISHED",     "tag": 49428,     "type": "ZSK" </pre>
	<pre>}, {"algorithm": "8",     "next_event_date": 1555095064,     "public_key": "AwEAAanEjBwnl/ftcaRD1R8NyXVhQwFFVzAxiFYUwanYKDJI3207eObhjb2FINOgO9y98Ln0kmlz SpeLtqYzye10Dxm+Eg4YSA9NNDunMM26yvSR/UqXakxH2Yain+rvXYIQB98QnuzWxNkJnmkPms tgugfcCTLdvBHIECJS/C3XqcT",     "status": "ACTIVE",     "tag": 61578,     "type": "ZSK"     }],     "fqdn": "demo.com",     "is_dnssec_enabled": true,     "use_dnssec_key_params": true,     "view": "default"</pre>

## **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.

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
		Sample Output		
	GET	<wapi_url>/zone_rp</wapi_url>		
	curl -k -u a "https:// <mark>gri</mark>	<mark>idmin:infoblox</mark> -X GET <mark>d-master</mark> /wapi/v2.12/zone_rp?_return_fields%2B=rpz_po	licy&_return_as_object=1"	
Fetch RPZs	{"result": [{"_ref": " "fqdn": ' "rpz_po "view": ' }]}	zone_rp/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5nb29r /www.googl.com", licy": "NXDOMAIN", 'default"	nbC53d3c:www.googl.com/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_na me&_return_as_object=1" -d '{"fqdn": "inblox.com","rpz_policy": "SUBSTITUTE","rpz_severity": "WARNING","substitute_name": "infoblox.com"}'			
	{"result": {"_ref": "z "fqdn": "i "rpz_pol "rpz_sev "substitu }}	zone_rp/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv nblox.com", icy": "SUBSTITUTE", rerity": "WARNING", te_name": "infoblox.com"	/Ymxvdw:inblox.com/default",	
	POST	<wapi_url>/record:rpz:a</wapi_url>	{"name": "server.inblox.com", "ipv4addr":"1.1.1.156", "rp_zone":"inblox.com"}	
	curl -k -u a "https://gri -d '{"name	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/record:rpz:a?_return_fields%2B=nal ":"server.inblox.com","ipv4addr":"1.1.1.156","rp_zone":"in	me,rp_zone&_return_as_object=1" blox.com"}'	
Add a substitution rule for DNS A records	{"result": {"_ref": "record:rpz server.inbl "ipv4addr" "name": "s "rp_zone" "view": "de }}	z:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm9i ox.com/default", ": "1.1.1.156", server.inblox.com", : "inblox.com", efault"	ibG93LHNlcnZlciwxLjEuMS4xNTY:	
Add a substitution rule for DNS PTR records	POST	<wapi_url>/record:rpz:ptr</wapi_url>	{"name": "135.10.10.10.in-addr.arpa.inblox.c om ",	

			"ipv4addr":"10.10.10.135", "ptrdname": "inblox.com", "rp_zone":"inblox.com"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:ptr?_return_fields%2B=name,rp_zone&_return_as_object=1 " -d '{"name": "135.10.10.10.in-addr.arpa.inblox.com ","ipv4addr":"10.10.10.135","ptrdname": "inblox com" "rp_zone": "inblox com"\'			
	{"result": {"_ref": "record:rpz jEwLjEwLj "name": ' "ptrdnam "rp_zone "view": "c }}	z:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5jb20uaW EwLjEzNS5pbmZvYmxvdy5jb20:135.10.10.10.in-addr.ar '135.10.10.10.in-addr.arpa.inblox.com", e": "inblox.com", ": "inblox.com", lefault"	5mb2Jsb3cuYXJwYS5pbi1hZGRyL pa.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"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:a:ipaddress?_return_fields%2B=name,rp_zone&_return_as _object=1" -d '{"name":"1.1.1.6.inblox.com","ipv4addr":"2.2.2.6","rp_zone":"inblox.com"}'			
Add a substitution rule for IP trigger policy	{"result": {"_ref": "record:rp2 uMS42LjM "ipv4addu "name": ' "rp_zone "view": "c 33	z:a:ipaddress/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29 lyLDluMi4yLjY:1.1.1.6.inblox.com/default", ": "2.2.2.6", '1.1.1.6.inblox.com", ": "inblox.com", lefault"	tLmluZm9ibG93LHJwei1pcC4xLjE	
	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"test.inblox.com", "canonical":"", "rp_zone":"inblox.com"}	
Add a Block	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_obje ct=1" -d '{"name":"test.inblox.com","canonical":"","rp_zone":"inblox.com"}'			
Domain Name (No Such Domain) Rule	{"result": {"_ref": "record:rpz nblox.com "canonica "name": ' "rp_zone "view": "c }}	z:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmN /default", al": "", 'test.inblox.com", ": "inblox.com", lefault"	lvbS5pbmZvYmxvdy50ZXN0:test.i	
Add a Block	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"demo.inblox.com", "canonical":"*", "rp_zone":"inblox.com"}	
Domain Name (No Data) Rule	curl -k -u a "https:// <mark>gri</mark> ct=1" -d '{"	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/record:rpz:cname?_return_fields%2 name":"demo.inblox.com","canonical":"*","rp_zone":"inblo	- B=name,rp_zone&_return_as_obje bx.com"}'	

	<pre>{"result":     {"_ref":     "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5kZW1v:demo .inblox.com/default",     "canonical": "*",     "name": "demo.inblox.com",     "rp_zone": "inblox.com",     "view": "default" }</pre>			
	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"pass.inblox.com", "canonical":"pass.inblox.com", "rp_zone":"inblox.com"}	
	curl -k -u a "https:// <mark>gri</mark> ct=1" -d '{"	dmin:infoblox -H 'content-type: application/json' -X POS d-master/wapi/v2.12/record:rpz:cname?_return_fields%2 name":"pass.inblox.com","canonical":"pass.inblox.com",	T 2B=name,rp_zone&_return_as_obje "rp_zone":"inblox.com"}'	
Add a Passthru Domain Name Rule	{"result": { "_ref": "record:rp: .inblox.cor "canonic: "name": ' "rp_zone "view": "c }}	z:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0Lm n/default", al": "pass.inblox.com", pass.inblox.com", ": "inblox.com", lefault"	NvbS5pbmZvYmxvdy5wYXNz:pass	
	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"sub.inblox.com", "canonical":"test", "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_obje ct=1" -d '{"name":"sub.inblox.com","canonical":"test","rp_zone":"inblox.com"}'			
Add a Substitute Domain Name Rule	{"result": {"_ref": "record:rp: lox.com/de "canonica "name": ' "rp_zone "view": " }}	z:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0Lm efault", al": "test", sub.inblox.com", ": "inblox.com", default"	NvbS5pbmZvYmxvdy5zdWI:sub.inb	
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	{"name":"10.10.10.200.inblox.com" , "canonical":"", "rp_zone":"inblox.com"}	
Add a Block Client IP Address (No Such Domain) Rule	curl -k -u a "https://gri _return_as {"result":	dmin:infoblox -H 'content-type: application/json' -X POS d-master/wapi/v2.12/record:rpz:cname:clientipaddress?_ s_object=1" -d '{"name":"10.10.10.200.inblox.com","cano	T _return_fields%2B=name,rp_zone& nical":"","rp_zone":"inblox.com"}'	
	{"_ref": "record:rp: y5ycHotY2 "canonica "name": ' "rp_zone	z:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9k 2xpZW50LWIwLjEwLjEwLjEwLjIwMC4zMg:10.10.10.200 al": "", 10.10.10.200.inblox.com", ": "inblox.com",	<zwzhdwx0lmnvbs5pbmzvymxvd .inblox.com/default",</zwzhdwx0lmnvbs5pbmzvymxvd 	

	"view": "	default"		
	}}		{"name":"10.10.10.210.inblox.com"	
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	, "canonical":"*", "rp_zone":"inblox.com"}	
Add a Block Client	curl -k -u a "https://gri _return_as	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/record:rpz:cname:clientipaddress?_ s_object=1" -d '{"name":"10.10.10.210.inblox.com","canor	return_fields%2B=name,rp_zone& nical":"*","rp_zone":"inblox.com"}'	
Add a Block Client IP Address (No Data) Rule	{"result": {"_ref": y5ycHotY2 "canonic "name": "rp_zone "view": "{}	z:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9k 2xpZW50LWIwLjEwLjEwLjEwLjIxMC4zMg:10.10.10.210.i al": "*", "10.10.10.210.inblox.com", a": "inblox.com", default"	ZWZhdWx0LmNvbS5pbmZvYmxvd inblox.com/default",	
			{"name":"10.10.10.220.inblox.com"	
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	, "canonical":"rpz-passthru", "rp_zone":"inblox.com"}	
Add a Passthru	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:rpz:cname:clientipaddress?_return_fields%2B=name,rp_zone& _return_as_object=1" -d '{"name":"10.10.10.220.inblox.com","canonical":"rpz-passthru","rp_zone":"inblox.com"}'			
Client IP Address Rule	{"result": {"_ref": "record:rpz y5ycHotY2 "canonica "name": ' "rp_zone "view": "c }}	z:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9k 2xpZW50LWIwLjEwLjEwLjEwLjIyMC4zMg:10.10.10.220.i al": "rpz-passthru", '10.10.10.220.inblox.com", ": "inblox.com", lefault"	ZWZhdWx0LmNvbS5pbmZvYmxvd inblox.com/default",	
			{"name":"10.10.10.230.inblox.com"	
	POST	<wapi_url>/record:rpz:cname:clientipaddressdn</wapi_url>	, "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 &_return_as_object=1" -d '{"name":"10.10.10.230.inblox.com"."canonical":"test"."rp_zone":"inblox.com"}'			
	{"result": {"_ref": "record:rpz xvdy5ycHo "canonica "name": ' "rp_zone "view": "	z:cname:clientipaddressdn/ZG5zLmJpbmRfY25hbWUkLl btY2xpZW50LWIwLjEwLjEwLjEwLjIzMC4zMg:10.10.10.2 I": "test", '10.10.10.230.inblox.com", ": "inblox.com", default"	l9kZWZhdWx0LmNvbS5pbmZvYm 30.inblox.com/default",	

Add a Block IP Address (No Such Domain) Rule	POST	<wapi_url>/record:rpz:cname:ipaddress</wapi_url>	{"name":"5.5.5.10.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:ipaddress?_return_fields%2B=name,rp_zone&_retur n as object=1" -d '{"name":"5.5.5.10.inblox.com","canonical":"","rp_zone":"inblox.com"}'					
	{"result": {"_ref": "record:rpz HotaXAuN "canonica "name": "{ "rp_zone "view": "d }}	z:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZł IS41LjUuMTAuMzI:5.5.5.10.inblox.com/default", I": "", 5.5.5.10.inblox.com", ": "inblox.com", Iefault"	ndWx0LmNvbS5pbmZvYmxvdy5yc			
	POST	<wapi_url>/record:rpz:cname:ipaddress</wapi_url>	{"name":"5.5.5.25.inblox.com", "canonical":"*", "rp_zone":"inblox.com"}			
	curl -k -u a "https:// <mark>gri</mark> n_as_obje	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/record:rpz:cname:ipaddress?_returr ct=1" -d '{"name":"5.5.5.25.inblox.com","canonical":"*","rp	- n_fields%2B=name,rp_zone&_retur o_zone":"inblox.com"}'			
Add a Block IP Address (No Data) Rule	{"result": {"_ref": "record:rpz HotaXAuN "canonic "name": "rp_zone "view": "0 }}	z:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZł S41LjUuMjUuMzI:5.5.5.25.inblox.com/default", al": "*", "5.5.5.25.inblox.com", e': "inblox.com", default"	ndWx0LmNvbS5pbmZvYmxvdy5yc			
	POST	<wapi_url>/record:rpz:cname:ipaddress</wapi_url>	{"name":"5.5.5.100.inblox.com", "canonical":"5.5.5.100", "rp_zone":"inblox.com"}			
	curl -k -u a "https://gri n_as_obje	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/record:rpz:cname:ipaddress?_returr ct=1" -d '{"name":"5.5.5.100.inblox.com","canonical":"5.5	- n_fields%2B=name,rp_zone&_retur .5.100","rp_zone":"inblox.com"}'			
Add a Passthru IP Address Rule	{"result": {"_ref": "record:rpz HotaXAuN "canonica "name": " "rp_zone "view": "0 }}	z:cname:ipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZł S41LjUuMTAwLjMy:5.5.5.100.inblox.com/default", al": "5.5.5.100", '5.5.5.100.inblox.com", e": "inblox.com", default"	ndWx0LmNvbS5pbmZvYmxvdy5yc			
Add a Substitute Domain Name (IP Address) Rule	POST	<wapi_url>/record:rpz:cname:ipaddressdn</wapi_url>	{"name":"5.5.5.200.inblox.com", "canonical":"test", "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:ipaddressdn?_return_fields%2B=name,rp_zone&_ret urn_as_object=1" -d '{"name":"5.5.5.200.inblox.com","canonical":"test","rp_zone":"inblox.com"}'					
	{ result : {"_ref": "record:rpz	z:cname:ipaddressdn/ZG5zLmJpbmRfY25hbWUkLl9kZW	/ZhdWx0LmNvbS5pbmZvYmxvdy5			

"name": "5.5.5.200.inblox.com",				
lle&_return_				
.mNvbS5pb YXVsdC5jb2				
YXVsdC5jb2				
YXVsdC5jb2				
YXVsdC5jb2				
YXVsdC YXVsdC				

"r	pz_rule": "SubstituteIPAddressCname",
"ty   "v	ype": "record:rpz:cname:ipaddressdn", iew": "default"
v   "7	one": "inblox.com"
},	
[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	_ref":
"allr	pzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb2
0ua	W5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMDAuMzI:10.10.10.200",
C   "n	omment.,
"n	pz_rule"; "BlockNxdomainClientIpaddr".
"ty	ype": "record:rpz:cname:clientipaddress",
"V	iew": "default",
"z	one": "inblox.com"
},   [],	rof!
ے ا allr	_iei . nzrecords/ZG5zLnnvbm\/fc2\/bcmNoX2luZG\/4.IGRucv5ia\W5kX2NuYW1LIC5fZG\/mYX\/sdC5ib2
Oua	W5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4vMTAuMzI:10.10.10.210".
"c	omment": "",
"n	ame": "10.10.10.210",
"r	pz_rule": "BlockNoDataClientIpaddr",
"ty	ype": "record:rpz:cname:clientipaddress",
V   "⁊	ne". "inblox com"
.	
{"_	ref":
"allr	pzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb2
0ua	W5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMjAuMzI:10.10.10.220",
C "C	omment : ",
"n	pz_rule": "PassthruClientIpaddr".
"ty	ype": "record:rpz:cname:clientipaddress",
"V	iew": "default",
"Z	one": "inblox.com"
}, ۲"	rof <sup>ii</sup>
ן ג _ l"allr	pzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucv5jaW5kX2NuYW1IJC5fZGVmYXVsdC5jb2
0ua	W5mb2Jsb3cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMzAuMzI:10.10.10.230",
"c	omment": "",
"n	ame": "10.10.10.230",
"r	pz_rule": "SubstituteClientIPAddressCname",
	jew": "default"
"z	one": "inblox.com"
},	
[]	ref":
allr	pzrecoras/ZG5zLnpvbmVtc2VncmNoX2luZGV4JGRucy5iaW5kX3B0ciQuX2RIZmF1bHQuY29tLml
uzn ddr	1910G95L11FyCGEudVV4L1 VVRKCl4XIVIC4XIVIC4XIVIC4XIVIC4XIVIC4XIVI20UdVV511102J505CU129L155.10.10.10.10.11-a arna"
"c	omment": "",
"n	ame": "135.10.10.10.in-addr.arpa",
	pz_rule": "SubstitutePTRRecord",
"ty	ype": "record:rpz:ptr",
	iew . ueiauli , one": "inblox com"
.	
j,	



## **DNS Traffic Control**

Resource	Operation	REST Method	API Call	Sample Body (for POST and PUT)
type		Sample cURL Command		
			Sample O	utput
		GET	<wapi_url>/dtc:server</wapi_url>	
		curl -k -u ac	dmin:infoblox -X GET	
		"https://grid	-master/wapi/v2.12/dtc:server?_return	_as_object=1"
DTC Servers		{ result : [{"_ref": "d "host": "1 "name": }.	ltc:server/ZG5zLmlkbnNfc2VydmVyJHl I.1.1.25", "server1"	NIcnZlcjE:server1",
	Fetch information	{"_ref": "d "host": "1 "name": ' },	ltc:server/ZG5zLmlkbnNfc2VydmVyJGl  0.10.10.20", "host"	าvc3Q:host",
		<pre>{"_ref":</pre>		
		POST	<wapi_url>/dtc:server</wapi_url>	{"name": "test-server", "host": "2.2.2.56"}
	Create	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/dtc:server?_return_fields%2B=name,host&_return_as_object= 1" -d '{"name": "test-server","host": "2.2.2.56"}'		
		{"result": {"_ref": "di "host": "2 "name": " }}	c:server/ZG5zLmlkbnNfc2VydmVyJHF .2.2.56", test-server"	lc3Qtc2VydmVy:test-server",
		GET	<wapi_url>/dtc:pool</wapi_url>	
	Fetch information	curl -k -u ac "https://grid	dmin:infoblox -X GET -master/wapi/v2.12/dtc:pool?_return_a	s_object=1"
DTC Pools		{"result": [{"_ref": "d "name": ' },	ltc:pool/ZG5zLmlkbnNfcG9vbCRwb29s "pool1"	MQ:pool1",
		{"_ref": "dtc:pool/Z( 2127", "name": " }]}	G5zLmlkbnNfcG9vbCRQT09MX1RFT\ POOL_TEMPNAME_22127"	/BOQU1FXzIyMTI3:POOL_TEMPNAME_2
	Create	POST	<wapi_url>/dtc:pool</wapi_url>	{"name": "test-pool", "availability": "ALL", "lb_preferred_method":"GLOBAL_AVAILAB ILITY", "monitors": ["dtc:monitor:icmp/ZG5zLmlkbnNfbW9uaX Rvcl9pY21wJGljbXA:icmp"], "servers":

				[{"ratio": 4, "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc 3Qtc2VydmVy:test-server"}]}
		curl -k -u ad "https://grid- =1" -d '{"nar "ALL","Ib_pr ["dtc:monito 4 "server": "	min:infoblox -H 'content-type: applica master/wapi/v2.12/dtc:pool?_return_f ne": "test-pool","availability": eferred_method":"GLOBAL_AVAILAE r:icmp/ZG5zLmlkbnNfbW9uaXRvcl9p dtc:server/ZG5zLmlkbnNfbW9uaXRvcl9p	tion/json' -X POST fields%2B=name,servers&_return_as_object BILITY","monitors": bY21wJGljbXA:icmp"],"servers": [{"ratio": IHBIc3Otc2\/vdm\/vtest-server"\\\'
	{"result": {"_result": {"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool", "name": "test-pool" "servers": [{"ratio": 4, "server": "dtc:server/ZG5zLmlkbnNfc2\/vdm\/v_HRlc3Otc2\/vdm\/v_test-server"			
L		}]}}		
		PUT	<wapi_url>/dtc:pool/ZG5zLmlkbnNfc G9vbCR0ZXN0LXBvb2w:test-pool</wapi_url>	{"servers": [{"ratio": 4, "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3 Qtc2VydmVy:test-server" }, {"ratio": 4, "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3 Qtc2VydmVyMg:test-server2"}]}
N a	/lodify to add nother server	curl -k -u ad "https://grid- eturn_fields "dtc:server/2 "dtc:server/2	min:infoblox -H 'content-type: applica master/wapi/v2.12/dtc:pool/ZG5zLml %2B=name,servers&_return_as_obje ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2 ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2	tion/json' -X PUT kbnNfcG9vbCR0ZXN0LXBvb2w:test-pool?_r ect=1" -d '{"servers": [{"ratio": 4,"server": 2VydmVy:test-server" },{"ratio": 4,"server": 2VydmVyMg:test-server2"}]}'
		{"result": {"_ref": "dtc "name": "te "servers": [{"ratio": 4 "server":	:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0 est-pool", , "dtc:server/ZG5zLmlkbnNfc2VvdmVv	DLXBvb2w:test-pool", /JHRlc3Qtc2VvdmVv:test-server"
		<pre>{"ratio": 4,</pre>		
	Modify the ratio	PUT	<wapi_url>/dtc:pool/ZG5zLmlkbnNfc G9vbCR0ZXN0LXBvb2w:test-pool</wapi_url>	{"servers": [{"ratio": 20, "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc 3Qtc2VydmVy:test-server" }, {"ratio": 80, "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc 3Qtc2VydmVyMg:test-server2"}]}
			min:infoblox -H 'content-type: applica master/wapi/v2.12/dtc:pool/ZG5zLml %2B=name,servers&_return_as_obje	tion/json' -X PUT kbn/fcG9vbCR0ZXN0LXBvb2w:test-pool?_r ect=1" -d '{"servers": [{"ratio": 20,"server":

		"dtc:server/	ZG5zLmlkbnNfc2VydmVyJHRI ZG5zLmlkbnNfc2VydmVyJHRI	c3Qtc2VydmVy:test-server"	
		<pre>{"result": {"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",     "name": "test-pool",     "servers":     [{"ratio": 20,         "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"     },     {"ratio": 80,         "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server"     }]}     GET <wapi_url>/dtc:lbdn     outl.k_u.adminiinfoblox_X_CET</wapi_url></pre>			
		Curi -k -u ac	_master/wapi/v2 12/dtc:lbdn?_r	return as object=1"	
	Fetch information	<pre>{"result":   [{"_ref":   "dtc:lbdn/ZG5zLmlkbnNfbGJkbiRMQkROX1RFTVBOQU1FXzIyMTI3:LBDN_TEMPNAME_22 127",   "name": "LBDN_TEMPNAME_22127" }]}</pre>			
DTC Load Balanced Domain Name	Create	POST	<wapi_url>/dtc:lbdn</wapi_url>	{"auth_zones": ["zone_auth/ZG5zLnpvbmUkLl9kZWZhdW x0LmNvbS5kdGM:dtc.com/default"], "lb_method": "ROUND_ROBIN", "name": "test-lbdn", "patterns": ["server.dtc.com"], "pools": [{"ratio": 4, "pool":"dtc:pool/ZG5zLmlkbnNfcG9vbCR0Z XN0LXBvb2w: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,patterns &_return_as_object=1" -d '{"auth_zones":["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"] ,"lb_method": "ROUND_ROBIN","name": "test-lbdn","patterns": ["server.dtc.com"],"pools": [{"ratio": 4,"pool":"dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool"}]]' {"result": {"_reef": "dtc:lbdn/ZG5zLmlkbnNfbGJkbiR0ZXN0LWxiZG4:test-lbdn", "auth_zones": ["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"], "name": "test_lbdn"			
		"patterns": ["server.d "pools": [{"pool": "u "ratio": 4 }]}}	: tc.com"], dtc:pool/ZG5zLmlkbnNfcG9vb( l	CR0ZXN0LXBvb2w:test-pool",	

# IP address management related scenarios

## Add a network or container

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample O	utput		
	POST	<wapi_url>/network</wapi_url>	{"network": "1.1.1.0/24"}		
Add a network	curl -k -u a "https:// <mark>gri</mark> '{"network'	admin:infoblox -H 'content-type: application d-master/wapi/v2.12/network?_return_fielo ": "1.1.1.0/24"}'	/json' -X POST ls%2B=network&_return_as_object=1 " -d		
	{"result": {"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNC8w:1.1.1.0/24/default", "network": "1.1.1.0/24", "network_view": "default"				
	POST	<wapi_url>/network</wapi_url>	{"network": "2.2.2.0/24", "members": [{"_struct": "dhcpmember", "ipv4addr":"172.26.1.3"}]}		
	curl -k -u a "https:// <mark>gri</mark> 1" -d '{"net	admin:infoblox -H 'content-type: application d-master/wapi/v2.12/network?_return_fielo twork": "2.2.2.0/24","members":[{"_struct":	/json' -X POST ls%2B=network,members&_return_as_object= "dhcpmember","ipv4addr":"172.26.1.3"}]}'		
Add a network and assign to a member	{"result": {"_ref": "r "membe [{"_struc "ipv4a "ipv6a "name }], "networ }}	network/ZG5zLm5ldHdvcmskMi4yLjluMC8 rs": ct": "dhcpmember", ddr": "172.26.1.3", ddr": null, ": "member1.localdomain" k": "2.2.2.0/24", k_view": "default"	yNC8w: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 corresponding reverse lookup zone	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network,members&_return_as_object= 1" -d '{"network": "10.10.10.0/24","members":[{"_struct": "dhcpmember","ipv4addr":"172.26.1.2"}],"auto_create_reversezone":true}'				
	{"result": {"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNC8w:10.10.10.0/24/default", "members": [{"_struct": "dhcpmember", "ipv4addr": "172.26.1.2", "ipv6addr": null, "name": "infoblox.localdomain" }], "network": "10.10.10.0/24",				

	"network_view": "default"			
	POST <wapi_url>/network</wapi_url>	{"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}		
	["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'			
Add a network with DHCP options	<pre>{"_ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2" "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"}] </pre>	OS4wLjAvMjQvMA:192.168.0.0/24/default",		
Add a network from	POST <wapi_url>/network</wapi_url>	{"network": "func:nextavailablenetwork:10.0.0.0/8,default,2 4", "network_view":"default", "extattrs": {"Country":{"value":"UK"}, "Region":{"value":"EMEA"}}}		
next available network	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network,members,extattrs&_return_as_ object=1" -d '{"network": "func:nextavailablenetwork:10.0.0.0/8,default,24","network_view": "default", "extattrs": {"Country":{"value":"UK"}, "Region":{"value":"EMEA"}}' {"result": {"ref": "network/ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default", "extattrs":			

"Region": {"value": "EMEA"}
},
"members": [],
"network": "10.0.0/24",
"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

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

	{"result":				
	[{" ref": "network/ZG5zLm5ldHdvcmskMTkvLjE2OC4xLjAvMjQvMA: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"				
	<pre>&gt;!!}</pre>				
	GET <wapi_url>/network?_return_fields%2B=extattrs&amp;*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&*Building!=Mai				
	n&_return_as_object=1"				
Search by EA	{"result":				
(Networks in the HQ	[{" ref": "network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default",				
but not in the Main	"extattrs":				
Building)	{"Building": {"value": "Remote"},				
	"Site": {"value": "HQ"}},				
	"network": "192.168.1.0/24",				
	"network_view": "default"				
	313				

#### Get next available subnet

Use the function *next\_available\_network* by specifying it in the option *\_function*.

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
		Sample Output		
Create a network from the next available subnet from a network in the Region(EA) EMEA	POST	<wapi_url>/network</wapi_url>	{"network": {"_object_function": "next_available_network", "_result_field":"networks", "_object":"network", "_object_parameters": {"*Region" : "EMEA"}, "_parameters": {"cidr":24}}, "network_view":"default"}	
	curl -k -u a "https://gri -d '{"network" etwork","_ "EMEA"}," { "result":	dmin:infoblox -H 'content-type: application/json' d-master/wapi/v2.12/network?_return_fields%2B ':{"_object_function":"next_available_network","_ object_parameters":{"*Region" : _parameters":{"cidr":24}},"network_view":"defaul: {	·X POST =network&_return_as_object=1 " result_field":"networks","_object":"n t"}	

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

#### Get next available address from a subnet

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

	REST Method	API Call Sample			
Operation		Sample cURL Command	•		
		Sample Output			
	POST	<wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEw LjAvMjQvMA:172.21.10.0/24/default?_function=next_a vailable_ip</wapi_url>	{"num":1}		
Get the next available IP address in a subnet	curl -k -u a "https://gri 1.10.0/24/	dmin:infoblox -H 'content-type: application/json' -X POS d-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTcyl default?_function=next_available_ip&_return_as_object=	T L <mark>jIxLjEwLjAvMjQvMA:172.2</mark> =1" -d '{"num":1}'		
	{"result": {"ips": [ "172.2 }}	21.10.1"]			
	POST	<wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEw LjAvMjQvMA:172.21.10.0/24/default?_function=next_a vailable_ip</wapi_url>	{"num":5}		
	curl -k -u a "https://gri 1.10.0/24/	dmin:infoblox -H 'content-type: application/json' -X POS d-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTcyl default?_function=next_available_ip&_return_as_object:	T LjIxLjEwLjAvMjQvMA:172.2 =1" -d '{"num":5}'		
Get the next 5 available IP addresses in a subnet	{"result": {"ips": ["172.21 "172.21 "172.21 "172.21 "172.21 ]}}	.10.1", .10.2", .10.3", .10.4", .10.5"			

#### Reparent subnets while deleting network container

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

	REST Method	API Call		
Operation	Sample cURL Command			
	Sample Output			
Reparent subnets while deleting network container	DELETE	<wapi_url>/networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4w LzgvMA:10.0.0/8/default?remove_subnets=false</wapi_url>		
	curl -k -u ad "https://grid- MC4wLzgvN	min:infoblox -H 'content-type: application/json' -X POST master/wapi/v2.12/networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAu /A:10.0.0.0/8/default?remove_subnets=false&_return_as_object=1"		

{"result":
{"_ref":
"networkcontainer/ZG5zLm5ldHdvcmtfY29udGFpbmVyJDEwLjAuMC4wLzgvMA:10.0.0.0/8/defa
ult"}}

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

	REST Method	API Call		
Operation	Sample cURL Command			
		Sample Output		
	GET	<wapi_url>/ipv4address?network=10.10.10.0/24</wapi_url>		
	curl -k -u <mark>a</mark> "https:// <mark>gric</mark>	dmin:infoblox -X GET I-master/wapi/v2.12/ipv4address?network=10.10.10.0/24&_return_as_object=1"		
Get addresses in a subnet	"https://grid "result": [{"_result": "ip_addr "is_confi "mac_addr "network "network "network "objects" "status": "types": "usage": }, {"_ref": "i "ip_addr "is_confi "mac_addr "network "network "network "network "types": "usage": },  {"_ref": "if "is_confil "mac_addr "network" "network "network" "netw	I-master/wapi/v2.12/ipv4address?network=10.10.10.0/24&_return_as_object=1" pv4address/Li5pcHY0X2FkZHJIc3MkMTAuMTAuMTAuMJU2LzA:10.10.10.1", ess": "10.10.10.1", ict": false, idress": "", : [], ": "10.10.10.0/24", : [], "UNUSED", [], [] pv4address/Li5pcHY0X2FkZHJIc3MkMTAuMTAuMTAuMJU0LzA:10.10.10.2", ess": "10.10.10.2", ict": false, idress": "", : [], ": "10.10.10.0/24", : yiew": "default", : [], "UNUSED", [], [] pv4address/Li5pcHY0X2FkZHJIc3MkMTAuMTAuMTAuMJU1LzA:10.10.10.255", ess": "10.10.10.255", ct": false, if : "10.10.10.255", ct": false, [], [], [], :: "10.10.10.255", ct": false, if : "10.10.10.255", ct": false, if : "10.10.10.255", ct": false, if : "10.10.10.0/24", :: "10.10		
	"objects" "status": "types": [	"[], "USED", "BROADCAST"],		
	usage :	Ц		
	GET	<pre><wapi url="">/ipv4address?ip address&gt;=10.10.10.252&amp;&amp;ip address&lt;=10.10.10.254</wapi></pre>		
Get addresses in a given range (10.10.10.252 - 10.10.10.254)	curl -k -u a "https://gric .10.10.254	dmin:infoblox -X GET I-master/wapi/v2.12/ipv4address?ip_address%3E=10.10.10.252&ip_address%3C=10 &_return_as_object=1"		

<pre>{"result":     [{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjUyLzA:10.10.10.252",     "ip_address": "10.10.10.252",     "is_conflict": false,     "mac_address": "",     "names": [],     "network": "10.10.10.0/24",     "network_view": "default",     "objects": [],     "status": "UNUSED",     "types": [],     "usage": []</pre>
<pre>}, {".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": "10.10.10.0/24",     "objects": [],     "status": "UNUSED",     "types": [],     "usage": []</pre>
<pre>}, {".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": "10.10.10.0/24",     "objects": [],     "status": "UNUSED",     "types": [], ]]}</pre>

#### Zone associations on a network

Operation	REST Method	API Call	Sample Body	
	Sample cURL Command			
		Sample Output		
List zone associations on a network	GET	<wapi_url>/network/ZG5zLm5ldHdvcmskMTAu MS4wLjAvMTYvMA:10.1.0.0/16/default</wapi_url>		
	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/network/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0. 0/16/default? return fields%2B=zone associations& return as object=1"			
	{"result": {"_ref": "ne "network" "network_ "zone_as [{"fqdn": "is_defa	etwork/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYv : "10.1.0.0/16", _view": "default", sociations": "info.com", ault": true,	/MA:10.1.0.0/16/default",	

	"view": "default"				
	<u>}]}}</u>				
	PUT	<wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjl xLjEwLjAvMjQvMA:172.21.10.0/24/default</wapi_url>	{"zone_associations": [{"fqdn": "test.org","is_default":true}]}		
	curl -k -u ac	min:infoblox -H 'content-type: application/json' -X	PUT		
	"https://grid	-master/wapi/v2.12/network/ZG5zLm5ldHdvcmsk	MTcyLjIxLjEwLjAvMjQvMA:172.2		
	1.10.0/24/default? return fields%2B=zone associations& return as object=1" -d				
	'{"zone_associations": [{"fqdn": "test.com","is_default":true}]]}'				
Add a zone association to	{"result":				
a network	{"_ref": "network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvMjQvMA:172.21.10.0/24/default",				
	"network": "172.21.10.0/24",				
	"network_view": "default",				
	"zone_associations":				
	[{"fqdn": "test.com",				
	"is default": true,				
	"view": '	'default"			
	}]}}				

#### Add a fixed address

A fixed address is a specific IP address that a DHCP server always assigns when a lease request comes from a particular MAC address of the client.

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

	REST Method	API Call	Sample Body
Operation		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 a "https:// <mark>gri</mark> d bject=1" -c	d <mark>min:infoblox</mark> -H 'content-type: application/json' -X d-master/wapi/v2.12/fixedaddress?_return_fields% l '{"ipv4addr":"192.168.1.100","mac":"aa:bb:cc:11:2	POST 2B=ipv4addr,mac&_return_as_o 22:21"}'
Add a fixed address	{"result": {"_ref": "fixedaddru efault", "ipv4addu "mac": "a "network_ }}	ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4 ": "192.168.1.100", a:bb:cc:11:22:21", _view": "default"	4xLjEwMC4wLi4:192.168.1.100/d
	POST	<wapi_url>/fixedaddress</wapi_url>	{"ipv4addr":"172.26.1.200", "mac":"00:00:00:00:00:00"}
Add a fixed address reservation	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_o bject=1" -d '{"ipv4addr":"172.26.1.200","mac":"00:00:00:00:00:00"}'		
	{"result": {"_ref": "fixedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTcyLjl2LjEuMjAwLjAuLg:172.26.1.200/default ", "ipv4addr": "172.26.1.200".		
	"mac": "(	00:00:00:00:00",	

	"network_view": "default" }}			
	POST	<wapi_url>/fixedaddress?<u>_return_fields=ipv4addr</u></wapi_url>	{"ipv4addr": "func:nextavailableip:10.1.0.0/16 ", "mac":"ff:ff:ff:ff:ff:ff"}	
Add a fixed address with	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_o bject=1" -d '{"ipv4addr":"func:nextavailableip:10.1.0.0/16","mac":"ff:ff:ff:ff:ff:ff"}'			
next available IP	{"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 address	POST	<wapi_url>/ipv6fixedaddress</wapi_url>	{"ipv6addr":"2001:0db8:85a3:00 00:0000:8a2e:0370:7334", "duid":"00:02:00:01:02:03:04:05: 07:a0"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/ipv6fixedaddress?_return_fields%2B=ipv6addr,duid&_return_a s_object=1" -d '{"ipv6addr":"2001:0db8:85a3:0000:0000:8a2e:0370:7334","duid":"00:02:00:01:02:03:04:05:07 :a0"}'			
	{"result": {"_ref": "ipv6fixeda 5a3:0000:( "ipv4addı "duid": "0 "network }}	address/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2 0000:8a2e:0370:7334/default", ": "2001:0db8:85a3:0000:0000:8a2e:0370:7334", 0:02:00:01:02:03:04:05:07:a0", _view": "default"	2OC4xLjEwMC4wLi4:2001:0db8:8	

## 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.

Quanting	REST Method	API Call		
Operation		Sample cURL Command		
	Sample Output			
	GET	<wapi_url>/fixedaddress?_return_fields%2B=mac&amp;mac=aa:bb:cc:11:22:21</wapi_url>		
Search fixed address by MAC	curl -k -u a "https://gri 1&_return	dmin:infoblox -X GET d-master/wapi/v2.12/fixedaddress?_return_fields%2B=mac&mac=aa:bb:cc:11:22:2 _as_object=1"		
	{"result": [{"_ref": "fixedaddr efault", "ipv4ado "mac": "a "network }]]	ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:192.168.1.100/d lr": "192.168.1.100", aa:bb:cc:11:22:21", <_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	<wapi_url>/fixedaddress?_method=GET&amp;_retur n_fields%2B=ipv4addr,mac,ms_server,name</wapi_url>	{"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,ma c,ms_server,name&_return_as_object=1" -d '{"ms_server":{"_struct": "msdhcpserver" "inv4addr": "192 168 4 21"}}'				
Search for a fixed address by Microsoft Server	<pre>"msdhcpse {"result": [{"_ref": "fixedaddre mpany%20 "ipv4addr "mac": "1 "ms_serv {"_struct" "ipv4addr "name": " "fixedaddre mpany%20 "ipv4addr "mac": "c "ms_serv {"_struct "ipv4addr "name": ' "ipv4addr "name": ' "fixedaddre mpany%20 "ipv4addr "name": '' "fixedaddre mpany%20 "ipv4addr "name": '' "ipv4addr "mac": "0 "ms_serv {"_struct" "ipv4addr "mac": "0 "ms_serv {"_struct" "ipv4addr" "natwork }]</pre>	<pre>rver","ipv4addr": "192.168.4.21"}}' ss/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4 1", ": "192.168.4.3", 2:34:56:78:91:23", er": ': "msdhcpserver", jr": "192.168.4.21"}, test", _view": "Company 1" ss/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4 1", ": "192.168.4.8", :a:fe:ca:fe:be:ef", /er": ': "msdhcpserver", dr": "192.168.4.21"}, "awo666", _view": "Company 1" ss/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4 1", ": "192.168.4.85", 0:50:56:ba:01:ec", er": ': "msdhcpserver", jr": "192.168.4.21"}, "192.168.4.21"}, "192.168.4.85", 0:50:56:ba:01:ec", er": ': "msdhcpserver", jr": "192.168.4.21"}, "192.168.4.85", 0:50:56:ba:01:ec", er": ': "msdhcpserver", jr": "192.168.4.21"}, "192.168.4.21"}, "192.168.4.21"}, "192.168.4.21"}, "192.168.4.85", 0:50:56:ba:01:ec", er": ': "msdhcpserver", jr": "192.168.4.21"}, "192.168.4.21"}, "192.168.4.21"}, "192.168.4.21", "192.168.4.21"}, "192.168.4.21", "192.168.4.25", _view": "Company 1"</pre>	40LjMuMC4xNy4:192.168.4.3/Co 40LjguMC4xNy4:192.168.4.8/Co 40Ljg1LjAuMTcu:192.168.4.85/Co		

## Get information about an IP address

Operation	REST Method	API Call	
	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/wapi/v2.12/ipv4address?ip address=10.10.10.10& return as object=1"		
Query an IP address	Inttps://gnd-master/wapi/v2.12/ipv4address/ip_address=10.10.10.10.10&_return_as_object=1" {"result":     [{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMTAvMA:10.10.10.10",     "ip_address": "10.10.10.10",     "is_conflict": false,     "mac_address": "i",     "names": [],     "network": "10.10.10.0/24",     "network": "10.10.10.0/24",     "notwork_view": "default",     "objects": [],     "status": "UNUSED",     "types": [],     "usage": []		

Get unused IP addresses in a subnet

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

"usage": []
},
1}

## Search for any object with an IP address

Operation	REST Method	API Call		
	Sample cURL Command			
	Sample Output			
	GET	<wapi_url>/ipv4address?status=USED&amp;ip_address=10.10.10.20</wapi_url>		
Search for objects by IP address	curl -k -u <mark>a</mark> "https:// <mark>gri</mark> c as object=	dmin:infoblox -X GET d <mark>-master</mark> /wapi/v2.12/ipv4address?status=USED&ip_address=10.10.10.20&_return_ -1"		
	{"result": [{"_ref": "i "ip_addi "is_conf "mac_ad "names "networ "objects ["record:hc ult"], "status' "types": "usage'	pv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20", ress": "10.10.10.20", lict": false, ddress": "", ": ["host1.info.com"], k": "10.10.10.0/24", k_view": "default", s": bst/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/defa f: "USED", [ "HOST" ], ': [ "DNS" ]		

## Search for an IP address

Operation	REST Method	API Call	
		Sample cURL Command	
	Sample Output		
	GET	<wapi_url>/search?address=172.26.1.100</wapi_url>	
	curl -k -u a "https://grid	dmin:infoblox -X GET d-master/wapi/v2.12/search?address=172.26.1.100&_return_as_object=1"	
Search an IP address	<pre>"https://grid-master/wapi/v2.12/search?address=172.26.1.100&amp;_return_as_object=1" {"result":     [{"_ref":     "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi 4xLjEwMA:host.test.info.com/default",     "ipv4addr": "172.26.1.100",     "name": "host.test.info.com",     "view": "default"     },     {"_ref": "network/ZG5zLm5ldHdvcmskMTcyLjI2LjEuMC8yNC8w:172.26.1.0/24/default",     "network": "172.26.1.0/24",     "network_view": "default"</pre>		
#### **Delete an IP address**

Original	REST Method	API Call
Operation		Sample cURL Command
		Sample Output
Delete an IP	DELETE	<wapi_url>/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10. 10.20</wapi_url>
	curl -k -u admin:infoblox -H 'content-type: application/json' -X DELETE "https://grid-master/wapi/v2.12/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvM A:10.10.10.20&_return_as_object=1"	
	{"result":"ip	v4address/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	REST API Call Sample Body				
Operation		Sample cURL Command	•			
		Sample Output				
	GET	<wapi_url>/view</wapi_url>				
	curl -k -u <mark>ad</mark>	min:infoblox -X GET "https://grid-master/wapi/v2.12/view?_re	turn_as_object=1"			
	{"result":					
	[{"_ref": "vie	ew/ZG5zLnZpZXckLl9kZWZhdWx0:default/true",				
	"IS_defaul	t": true, hefault"				
Get all DNS views	{"_ref": "vie	ew/ZG5zLnZpZXckLjE:default.test/false",				
	"is_defaul	t": false,				
	"name": "default.test"					
	}, {"rof": "view/ZCEzLeZeZXekLikdefeult eleved/felee"					
	{ _ier . view/2002Litzpz/0kLji.deiduit.cloud/idise , 					
	"name": "default.cloud"					
	}]}					
	GET	<wapi_url>/zone_auth?view<u>=default.test</u></wapi_url>				
	curl -k -u <mark>ad</mark>	min:infoblox -X GET				
	"https://grid-master/wapi/v2.12/zone_auth?view=default.test&_return_as_object=1"					
Get authoritative zones	{"result":					
IOF a DINS VIEW	[{"_ref": "zone_auth/ZG5zLnpvbmUkLjEuY29tLmluZm8:info.com/default.test",					
	iqan": "In" "view": "de	IU.CUIII , afault teet"				
	},	Sidulitor				

	{"_ref": "zone_auth/ZG5zLnpvbmUkLjEub3JnLnRlc3Q:test.org/default.test", "fqdn": "test.org",			
	"view": "default.test"			
	GET <wapi_url>/record:bost2zone=info_com&amp;view=default_test</wapi_url>			
	curl -k -u admininfoblox -X GET			
	"https://grid-master/wapi/v2.12/record:host?zone=info.com&view <u>=default.test</u> &_return_as_object=			
	1"			
	{"result": [/"_ref": "record:bost/ZG5zI mbyc3OkI iEuY29tI mluZm8uc2\/vdm\/v:server.info.com/default.test"			
	"ipv4addrs":			
	[{"_ref":			
	uMC4xMDAu:10.10.0.100/server.info.com/default.test".			
	"configure_for_dhcp": false,			
	"host": "server.info.com",			
	}].			
Get all records for a zone in a DNS view	"name": "server.info.com", "view": "default test"			
	},			
	{"_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test", "ipv4addrs":			
	[{"_ref": "record:bost_inv4addr/7G5zl_mbvc3RfYWRkcm\/zcvQuMS5ib20uaW5mbv5tYWls7XluMTAuMS4x			
	LjEwMC4:10.1.1.100/mailer.info.com/default.test",			
	"configure_for_dhcp": false,			
	"nost": "mailer.info.com", "ipv4addr": "10.1.1.100".			
	"mac": "aa:bb:cc:11:22:33"			
	}], "name": "mailer info com"			
	"view": "default.test"			
	}]}			
	GET <wapi_url>/networkview</wapi_url>			
	"https://grid-master/wapi/v2.12/networkview? return as object=1"			
	{"result":			
	[{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQw:default/true",			
	"is_default": true, "name": "default"			
Get all network views	},			
	{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:test/false",			
	"is_detault": talse, "name": "test"			
	},			
	{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQy:cloud/false", "is_default": false			
	"name": "cloud"			
	<u>}]}</u>			
	POST <wapi_url>/networkview     {"name": "demo"}</wapi_url>			
Create a network view	сип -к -u admin:Infobiox -н content-type: application/json -х POST "https://grid-master/wapi/v2.12/networkview? return fields%2B=name& return as object=1" -d			
	'{"name": "demo"}'			

	{"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	curl -k -u admin:infoblox - "https://grid-master/wapi/\ ect=1" -d '{"fqdn": "infoblo	H 'content-type: application/json' -X POST /2.12/zone_auth?_return_fields%2B=fqdn,netw x.com","view": "default.test"}'	ork_view&_return_as_obj	
zone within a network view	{"result": {"_ref": "zone_auth/ZG5 "fqdn": "infoblox.com", "network_view": "test" "view": "default.test" }}	zLnpvbmUkLjEuY29tLmluZm9ibG94:infoblox.cc	om/default.test",	
	POST	<wapi_url>/record:host</wapi_url>	{"name":"host.infoblox.co m", "ipv4addrs": [{"ipv4addr":"10.10.10.20 "}], "view": "default.test"}	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/record:host?_return_fields%2B=name,network_view&_return_as_o bject=1" -d '{"name":"host.infoblox.com","ipv4addrs": [{"ipv4addr":"10.10.10.20"}],"view": "default.test"}'			
Create a host record within a network view	{"result": {"_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm9ibG94Lmhvc3Q:host.infoblox.com/default.test", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mb2Jsb3guaG9zdC4xMC4x MC4xMC4vMC4:10.10.10.20/bost infoblox.com/default.test"			
	"configure_for_dhcp": fa "host": "host.infoblox.co "ipv4addr": "10.10.10.20 }], "name": "host.infoblox.c "network_view": "test", "view": "default.test" }}	alse, m", )" om",		
	POST	<wapi_url>/network</wapi_url>	{"network": "192.168.1.0/24", "network_view": "test"}	
Add a network within a network view	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/network?_return_fields%2B=network&_return_as_object=1 " -d '{"network": "192.168.1.0/24","network_view": "test"}'			
	{"result": {"_ref": "network/ZG5zLm "network": "192.168.1.0/. "network_view": "test" }}	n5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMQ:192. 24",	168.1.0/24/test",	

# VLAN Management

This is only supported with WAPI version 2.10 onwards

	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
	GET	<wapi_url>/vlanview</wapi_url>	
	curl -k -u <mark>ad</mark>	min:infoblox -X GET "https://grid-master/wapi/v2.12/vla	nview?_return_as_object=1"
Get VLAN View	{"result": [{"_ref": "vl "end_vlar "name": " "start_vla }]}	anview/ZG5zLnZsYW5fdmlldyRkZWZhdWx0LjEuNDA n_id": 4094, default", n_id": 1	5NA:default/1/4094",
	,,,,		{"start vlan id": 10,
	POST	<wapi_url>/vlanview</wapi_url>	"end_vlan_id": 20, "name": "test"}
Add a VI AN view	curl -k -u <mark>ad</mark> "https:// <mark>grid</mark> - as_object=1	min:infoblox -H 'content-type: application/json' -X POS master/wapi/v2.12/vlanview?_return_fields%2B=start_ " -d '{"start_vlan_id": 10,"end_vlan_id": 20,"name": "tes	T vlan_id,end_vlan_id,name&_return_ ;t"}'
Add a VLAN View	{"result": {"_ref": "vla "end_vlan_ "name": "te "start_vlan }}	nview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjlw:test/10/ _id": 20, est", _id": 10	20",
Add a VLAN range	POST	<wapi_url>/vlanrange</wapi_url>	{"start_vlan_id": 15, "end_vlan_id": 20, "name": "testrange", "vlan_view": "vlanview/ZG5zLnZsYW5fdmlldyR0 ZXN0LjEwLjlw:test/10/20"}
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vlanrange?_return_fields%2B=start_vlan_id,end_vlan_id,name&_return _as_object=1" -d '{"start_vlan_id": 15,"end_vlan_id": 20, "name": "testrange","vlan_view": "vlanview/ZG5zLnZsYW5fdmlldvR0ZXN0LiEwLilw:test/10/20"}'		
	{"result": {"_ref": "vlanrange/2 /15/20", "end_vlan "name": "t "start_vlar "vlan_viev }}	ZG5zLnZsYW5fcmFuZ2UkdGVzdC4xMC4yMC50ZXN0 _id": 20, estrange", n_id": 15, v": {"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjE	0cmFuZ2UuMTUuMjA:test/testrange EwLjIw:test/10/20"}
Add a VLAN	POST	<wapi_url>/vlan</wapi_url>	{"id": 11, "name": "testvlan", "parent": "vlanview/ZG5zLnZsYW5fdmlldyR0 ZXN0LjEwLjlw:test/10/20", "reserved":true,

			"contact":"879220", "department":"ng"}
	curl -k -u ad "https://grid-	min:infoblox -H 'content-type: application/json' -X POS master/wapi/v2.12/vlan?_return_fields%2B=id,name&	T _return_as_object=1" -d '{"id":
	11,"name": ' "vlanview/Z( rtment":"ng"	"testvlan","parent": G5zLnZsYW5fdmlldyR0ZXN0LjEwLjIw:test/10/20","res }'	erved":true,"contact":"879220","depa
	{"result": { "_ref":		
	"vian/2G52L testvlan/11", "id": 11,	_nZ\$YVV4KLmNVD\$5pbmZVYmxveC5kbnMuamxnbl92a ,	awv3JHRic3QuMTAuMJAuMTE:test/
	"name": "t "vlan_viev }}	estvlan", v": {"_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjE	EwLjIw:test/10/20"}
	POST	<wapi_url>/vlan</wapi_url>	{"id":"func:nextavailablevlanid:vlanvi ew/ZG5zLnZsYW5fdmlldyR0ZXN0L jEwLjlw:test/10/20", "name": "next-vlan", "parent": "vlanview/ZG5zLnZsYW5fdmlldyR0 ZXN0LjEwLjlw:test/10/20", "reserved":true, "contact":"879220", "department":"ng"}
Next available VLAN	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/vlan?_return_fields%2B=id,name&_return_as_object=1" -d '{"id":"func:nextavailablevlanid:vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjlw:test/10/20","name": "next-vlan","parent": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjlw:test/10/20","reserved":true,"contact":"879220","depa rtment":"ng"}		
	{"_ref": "vlan/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:test/ next-vlan/10", "id": 10, "name": "next-vlan"		
	"parent": {"	_ref": "vlanview/ZG5zLnZsYW5fdmlldyR0ZXN0LjEwLjI	w:test/10/20"}}
	POST	<wapi_url>/network</wapi_url>	{"network_view":"default", "network":"61.0.0.0/24", "vlans": [{"vlan": "vlan/ZG5zLnZsYW4kLmNvbS5pb mZvYmxveC5kbnMudmxhbl92aWV 3JHRIc3QuMTAuMjAuMTA:test/nex t-vlan/10" }]}
Create a network with a VLAN	curl -k -u ad "https://grid- '{"network_v [{"vlan":"vlar TA:test/next	min:infoblox -H 'content-type: application/json' -X POS master/wapi/v2.12/network?_return_fields%2B=vlans& view":"default","network":"61.0.0.0/24","vlans": n/ZG5zLnZsYW4kLmNvbS5pbmZvYmxveC5kbnMudm -vlan/10" }]]'	xhbl92aWV3JHRlc3QuMTAuMjAuM
	{"result": {"_ref": "net "network": "network_\ "vlans":	work/ZG5zLm5ldHdvcmskNjEuMC4wLjAvMjQvMA:61 "61.0.0.0/24", /iew": "default",	.0.0.0/24/default",

	[{"id": 10, "name": "vlan": "vlan/ZG5zL next-vlan/10 }]}}	"next-vlan", _nZsYW4kLmNvbS5pbmZvYmxveC5 )"	kbnMudmxhbl92aWV3JHRlc3QuMTAuMjAuMTA:test/
	POST	<wapi_url>/network</wapi_url>	{"network_view":"default", "network":"62.0.0.0/24", "vlans": [{"vlan": "func:nextavailablevlan:vlanview/ZG 5zLnZsYW5fdmlldyR0ZXN0LjEwLjl w:test/10/20" }]}
Create network with next available VLAN	curl -k -u ad "https://grid- '{"network_v [{"vlan":"fun {"result": {"_ref": "nef "network": "vlans": [{"id": 11, "name": "vlan": "vlan/ZG5zL testvlan/11"	Imin:infoblox -H 'content-type: applica -master/wapi/v2.12/network?_return_ view":"default","network":"62.0.0.0/24 c:nextavailablevlan:vlanview/ZG5zLr twork/ZG5zLm5ldHdvcmskNjEuMC4 "62.0.0.0/24", view": "default", "testvlan", _nZsYW4kLmNvbS5pbmZvYmxveC5	ition/json' -X POST fields%2B=vlans&_return_as_object=1" -d ","vlans": ZsYW5fdmlldyR0ZXN0LjEwLjlw:test/10/20" }]}' wLjAvMjQvMA:62.0.0.0/24/default",

# DHCP related scenarios

# DHCP ranges

Onersting	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
	GET	<wapi_url>/range</wapi_url>	
	curl -k -u <mark>ad</mark>	min:infoblox -X GET "https://grid-master/wapi/v2.12/rar	nge?_return_as_object=1"
Get DHCP ranges	{"result": [{"_ref": "range/ZG5: 92.168.1.15 "end_addi "network": "network_ "start_add }]}	zLmRoY3BfcmFuZ2UkMTkyLjE2OC4xLjEwLzE5Mi4xN /default", "" "192.168.1.15", "192.168.1.0/24", view": "default", ir": "192.168.1.10"	ljguMS4xNS8vLzAv:192.168.1.10/1
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"}}
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_ ject=1" -d '{"start_addr": "10.10.10.20","end_addr": "10.10.10.100","server_association_type": "MEMBER","member":{" struct": "dhcpmember","ipv4addr" : "172.26.1.3"}}'			
	{"result": {"_ref": "range/ZG5: 0/10.10.10.1 "end_addi "member" {"_struct"	zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMjAvMTA 100/default", ": "10.10.10.100", : : "dhcpmember",	AuMTAuMTAuMTAwLy8vMC8:10.10.10.2
	"ipv4add "ipv6add "name": }, "network": "network_ "start_add }}	r": "172.26.1.3", r": null, "member1.localdomain" : "10.10.10.0/24", view": "default", ir": "10.10.10.20"	
	POST	<wapi_url>/range</wapi_url>	{"start_addr": "172.26.1.20", "end_addr": "172.26.1.100"}
	curl -k -u ad "https:// <mark>grid</mark> - ject=1" -d '{'	min:infoblox -H 'content-type: application/json' -X -master/wapi/v2.12/range?_return_fields%2B=star 'start_addr": "172.26.1.20","end_addr": "172.26.1.	POST 't_addr,end_addr,member&_return_as_ob 100"}'
Add a DHCP range reserved range	{"result": {"_ref": "range/ZG5: 1.100/defau "end_addr" "network": "network_\ "start_addr }}	zLmRoY3BfcmFuZ2UkMTcyLjl2LjEuMjAvMTcyLjl2 lt", ": "172.26.1.100", "172.26.1.0/24", <i>v</i> iew": "default", ": "172.26.1.20"	2LjEuMTAwLy8vMC8:172.26.1.20/172.26.

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

	REST Method	API Call
Operation		Sample cURL Command
		Sample Output
	GET	<wapi_url>/range?_return_fields%2B=extattrs&amp;*Country:=<u>France</u></wapi_url>
Search ranges by EA (ranges in Bangalore)	curl -k -u a "https://gri _object=1'	admin:infoblox -X GET d-master/wapi/v2.12/range?_return_fields%2B=extattrs&*Location:=Bangalore&_return_as '
	{"result": [{"_ref": "range/ZG 50/10.10.1 "end_ad "extattrs" "network	5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMTUwLzEwLjEwLjEwLjIwMC8vLzEv:10.10.10.1  0.200/test", dr": "10.10.10.200", ": {"Location": {"value": "Bangalore"}}, ": "10.10.10.0/24",

	"network   "start_ac }]}	c_view": "test", Idr": "10.10.10.150"
DHCP Leases	111	
	REST Method	API Call
Operation		Sample cURL Command
		Sample Output
	GET	<wapi_url>/lease</wapi_url>
	curl -k -u a	idmin:infoblox -X GET "https://grid-master/wapi/v2.12/lease?_return_as_object=1"
	{"result": [{"_ref": " "addres "networ	lease/ZG5zLmxIYXNIJDAvMTAuMTAuMC4yMDAvMC8:10.10.10.200/test", s": "10.10.10.200", k_view": "test"
Get DHCP leases	}, {"_ref": "le "address "network },	ease/ZG5zLmxIYXNIJDAvMTAuMTAuMC4xOTUvMC8:192.168.1.100/default", ": "192.168.1.100", :_view": "default"
	 {"_ref": "le "address "network }]}	ease/ZG5zLmxIYXNIJDAvMTAuMTAuMC4xOTEvMC8:10.10.10.191/default", s": "10.10.10.191", <_view": "default"
	GET	<wapi_url>/lease?address=172.26.1.250&amp;_return_fields=binding_state,hardware,client_ho stname,fingerprint&amp;_max_results=1</wapi_url>
	curl -k -u a "https://gri- client_hos	idmin:infoblox -X GET d-master/wapi/v2.12/lease?address=172.26.1.250&_return_fields=binding_state,hardware, tname,fingerprint&_max_results=1&_return_as_object=1"
IP Address	{"result": [{"_ref": " "binding "fingerpr	lease/ZG5zLmxIYXNIJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1",  _state": "ACTIVE", int": "Cisco/Linksys SPA series IP Phone",
	"hardwa	re": "16:55:a4:1b:98:c9"
	}]}	
	GET	<wapi_url>/lease?client_hostname~=demo&amp;_max_results=1&amp;_return_fields=binding_state ,hardware,client_hostname,fingerprint</wapi_url>
Get a DHCP lease by hostname	curl -k -u a "https:// <mark>gri</mark> ng_state,h	idmin:infoblox -X GET d-master/wapi/v2.12/lease?client_hostname~=demo&_max_results=1&_return_fields=bindi iardware,client_hostname,fingerprint&_return_as_object=1"
	{"result": [{"_ref": " "binding "client_h "hardwa	lease/ZG5zLmxIYXNIJC8xOTIuMTY4LjQuMy8wLzE3:192.168.4.3/Company%201", _state": "STATIC", ostname": "test", re": "12:34:56:78:91:23"
	)]} GET	<wapi_url>/lease?network=172.26.1.0/24&amp;_return_fields=binding_state,hardware,client_h</wapi_url>
Get DHCP leases		
by network	cun -к -u a "https://gri ,client_hos	d-master/wapi/v2.12/lease?network=172.26.1.0/24&_return_fields=binding_state,hardware stname,fingerprint,network&_return_as_object=1"

{"result":
[{"_ref": "lease/ZG5zLmxIYXNIJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1",
binding_state": "ACTIVE",
"fingerprint": "Cisco/Linksys SPA series IP Phone",
"hardware": "16:55:a4:1b:98:c9",
"network": "172.26.1.0/24"
},
{"_ref": "lease/ZG5zLmxlYXNIJC8xOTIuMTY4LjQuMy8wLzE3:172.26.1.3/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	REST API Call			
		Sample cURL Command			
	Sample Output				
Crid reference	GET	<wapi_url>/grid</wapi_url>			
	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid"				
Ond reference	{"result": [{"_ref": "grid/b25lLmNsdXN0ZXIkMA:Infoblox"}]}				

## **Grid Settings**

On any time	REST Method	API Call	Sample Body	
Operation		Sample cURL Comman	d	
		Sample Output		
	PUT	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Info blox?_return_fields%2B=snmp_setting</wapi_url>	<pre>{"snmp_setting":     {"queries_community_string":     "public",     "queries_enable": true,     "trap_receivers":     [{"address": "1.1.1.1"}],     "traps_community_string":     "public",     "traps_enable": true }}</pre>	
Configure SNMP	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_return_fields%2B=sn mp_setting&_return_as_object=1" -d '{"snmp_setting": {"queries_community_string": "public","queries_enable": true, "trap_receivers": [{"address": "1.1.1.1"}],"traps_community_string": "public","traps_enable": true}}'			
	{"result": {"_ref": "gr "snmp_se {"engine "querie "querie "snmpv "snmpv	id/b25lLmNsdXN0ZXlkMA:Infoblox", itting": e_id": ["80:00:1E:63:05:00:50:56:81:4d:38:0a:o s_community_string": "public", s_enable": true, '3_queries_enable": false, '3_traps_enable": false,	:/4:cd:0c"],	

	"syscor	itact": []			
	"systematic: [],				
	"syslocation": [], "syspame": []				
	"tran re	aceivers": [/"address": "1 1 1 1"\]			
	"trape	community string": "nublic"			
	"traps_	continuinty_stilling . public ,			
	uaps_				
	111		an		
	PUT	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Info blox?_return_fields%2B=ntp_setting</wapi_url>	{"ntp_setting": {"enable_ntp": true, "ntp_servers": [{"address":"10.224.0.10"}] }}		
	curl -k -u adı	min:infoblox -X GET			
	"https://grid-	master/wani/v2 12/grid/b25ll mNsdXN07XlkM	A:Infoblox? return fields%2B=ntn		
	setting& re	turn as object=1" -d '{"ntn setting": {"enable	ntn": true "ntn_servers":		
	[/"address"·"	10 224 0 10"\\\\			
	{"_ret": "gr	id/b25iLmNsdXNUZXikMA:infobiox",			
	"ntp_setti	ng":			
Configure NTP	{"enab	le_ntp": true,			
, , , , , , , , , , , , , , , , , , ,	"ntp_acl":				
	{"ac_list": [],				
	"acl_type": "NONE",				
	"service": "TIME"},				
	"ntp_keys": [],				
	"ntp_k	od": false,			
	"ntp s	ervers":			
	[{"address": "10.224.0.10",				
	"burst": true,				
	"enable_authentication": false,				
	"iburst": true.				
	"preferred": false}]}				
	33				
		<wani_url>/grid/b25ll_mNedXN07XlkMA·lpfo</wani_url>	("dns resolver setting" ·		
	рит	blox2 return fields%2B=dns resolver settin	("recolvers"·["102 168 8 52"]		
			ý		
	curl -k -u admin:infoblox -X GET				
	"https://grid-master/wapi/v2.12/grid/b25ILmNsdXN0ZXIkMA:Infoblox?_return_fields%2B=dn				
	s_resolver_setting&_return_as_object=1" -d '{"dns_resolver_setting" :				
Configure DNS Resolver	{"resolvers":["192.168.8.52"]}}'				
Setting	{"result":				
	{"_ref": "gr	id/b25ILmNsdXN0ZXIkMA:Infoblox",			
	"dns resolver setting":				
	{"resolver	rs": ["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.

Oneration	REST Method	API Call	Sample Body		
Operation		Sample cURL Comman	d		
		Sample Output			
	GET	<wapi_url>/grid:dns?_return_fields%2B=ma x_cached_lifetime</wapi_url>			
Get grid DNS properties	curl -k -u <mark>ad</mark> r "https:// <mark>grid-</mark> ı as_object=1	min:infoblox -X GET master/wapi/v2.12/grid:dns?_return_fields%2E "	3=max_cached_lifetime&_return_		
	{"result": [{"_ref": "gri "max_cac }]}	id:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3Blcr hed_lifetime": 86400	IRpZXMkMA:Infoblox",		
	PUT	<wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJfZ G5zX3Byb3BlcnRpZXMkMA:Infoblox?_retur n_fields%2B=max_cached_lifetime</wapi_url>	{"max_cached_lifetime":60000}		
Modify grid DNS properties (max_cached_lifetime) at the Grid level	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA: Infoblox?_return_fields%2B=max_cached_lifetime&_return_as_object=1" -d '{"max_cached_lifetime":60000}'				
	{"result": {"_ref": "grid "max_cach }}	d:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3Blcn ned_lifetime": 60000	RpZXMkMA:Infoblox",		
	GET	<wapi_url>/member:dns?_return_fields%2B =max_cached_lifetime</wapi_url>			
	curl -k -u <mark>ad</mark> r "https:// <mark>grid-</mark> ı urn_as_obje	min:infoblox -X GET master/wapi/v2.12/member:dns?_return_fields ct=1"	s%2B=max_cached_lifetime&_ret		
Get member DNS propertie	{"result": [{"_ref": "ma "host_nam "ipv4addr": "max_cach }, {"_ref": "me	ember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVy e": "infoblox.localdomain", "172.26.1.2", ed_lifetime": 86400 ember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVyd	dGllcyQw:infoblox.localdomain", dGllcyQx:member1.localdomain",		
	"host_nam "ipv4addr": "max_cach }]}	e": "member1.localdomain", : "172.26.1.3", ned_lifetime": 86400			

Modify DNS properties (max_cached_lifetime) at the member level	PUT	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9k bnNfcHJvcGVydGllcyQx:member1.localdom ain?_return_fields%2B=max_cached_lifetim</wapi_url>	{"use_max_cached_lifetime": true, "max cached lifetime":80000}
	curl -k -u adr "https://grid-i mber1.localo '{"use_max	re nin:infoblox -H 'content-type: application/json' master/wapi/v2.12/member:dns/ZG5zLm1lbW lomain?_return_fields%2B=max_cached_lifet cached_lifetime": true,"max_cached_lifetime":	L
	{"result": [{"_ref": "me "host_nam "ipv4addr": "max_cach }]}	ember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVy e": "member1.localdomain", : "172.26.1.3", ied_lifetime": 80000	rdGllcyQx:member1.localdomain",
	PUT	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9k bnNfcHJvcGVydGllcyQw:infoblox.localdomai n?_return_fields%2B=additional_ip_list</wapi_url>	{"additional_ip_list": ["32.32.32.32"]}
Update DNS properties with	curl -k -u adr "https://grid-i oblox.localdo '{"additional_	nin:infoblox -H 'content-type: application/json' master/wapi/v2.12/member:dns/ZG5zLm1lbW omain?_return_fields%2B=additional_ip_list&_ ip_list": ["32.32.32.32"]}'	-X PUT /JIcl9kbnNfcHJvcGVydGllcyQw:inf _return_as_object=1" -d
	{"result": [{"_ref": "mo "host_nam "ipv4addr": "additional }]}	ember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVy e": "infoblox.localdomain", : "172.26.1.3", _ip_list": ["32.32.32.32"]	'dGllcyQw:infoblox.localdomain",

#### Members

	REST Method	API Call	Sample Body
Operation		Sample cURL Comman	d
		Sample Output	
	GET	<wapi_url>/member</wapi_url>	
	curl -k -u ac "https:// <mark>grid</mark>	<mark>lmin:infoblox</mark> -X GET - <mark>master</mark> /wapi/v2.12/member?_return_as_objec	t=1"
Get members	<pre>"https://grid-master/wapi/v2.12/member?_return_as_object=1" {"result":     [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",         "config_addr_type": "IPV4",         "host_name": "infoblox.localdomain",         "platform": "VNIOS",         "service_type_configuration": "ALL_V4"     },     {"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQx:member1.localdomain",         "config_addr_type": "IPV4",         "host_name": "infoblox.localdomain",         "platform": "VNIOS",         "service_type_configuration": "ALL_V4"     },     {"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQx:member1.localdomain",         "platform": "VNIOS",         "service_type_configuration": "ALL_V4"     },     {"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQx:member1.localdomain",         "platform": "VNIOS",         "service_type_configuration": "ALL_V4"     } }</pre>		
Get details of a member based on its name	GET	<wapi_url>/member?host_name=infoblox.loc aldomain</wapi_url>	
	curl -k -u <mark>ac</mark> "https:// <mark>grid</mark> ct=1"	dmin:infoblox -X GET -master/wapi/v2.12/member?host_name=infob	lox.localdomain&_return_as_obje

	{"result": [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain", "config_addr_type": "IPV4", "host_name": "infoblox.localdomain", "platform": "VNIOS", "service_type_configuration": "ALL_V4"				
	Bit         GET <wapi_url>/member?ipv4_address=172.26.1.         curl -k -u admin:infoblox -X GET         "https://grid-master/wapi/v2.12/member?ipv4_address=172.26.1.2&amp;_return_fields%2B=vip_setting&amp;_return_as_object=1"</wapi_url>				
Get details of a member based on its IPv4 address	<pre>setting&amp;_return_as_object=1" {"result":     [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",     "config_addr_type": "IPV4",     "host_name": "infoblox.localdomain",     "platform": "VNIOS",     "service_type_configuration": "ALL_V4",     "vip_setting":     {"address": "172.26.1.2",     "dscp": 0,     "gateway": "172.26.1.1",     "primary": true,     "subnet_mask": "255.255.255.0".</pre>				
	<pre>}}} GET</pre>				
Get node information for all members	<pre>indextransport intervention of indextransport indextransport</pre>				

	}, ("description": "20/ Drimony drive upper in OK "					
	{ description . 2% - Primary drive usage is OK. , "service": "DISK_USACE"					
	}, ["description": "172 26 1 2"					
	$\{ uescription : 172.20.1.2, \\ "service": "ENET I AN"$					
	service . ENET_LAN , "status": "WORKING"					
	}, {"description": "7% - Database canacity usage is OK "					
	"envice": "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					
	}}],					
	}					
	<pre><wapi_url>/member?_return_fields%2B=servi</wapi_url></pre>					
	ce_status					
	curl -k -u admin:infoblox -X GET					
	"https://grid-master/wapi/v2.12/member?_return_fields%2B=service_status&_return_as_obj					
	ect=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"					
Get Service Status for all	}, (III de cominities III III DNIO, Occasiona in consultin e III					
members	{ description : "DNS Service is working",					
	service . DNS ,					
	SIGIUS . WORKING					
	}, ["description": "NTD Service is working"					
	service". "NTD"					
	status": "WORKING"					
	/"description": "Hard Disk: 0% - TETP Service is inactive"					
	"service". "TFTP"					
	"status": "INACTIVE"					
	}, {"description": "Hard Disk: 0% - HTTP File Dist Service is inactive".					
	<pre>{"description": "Hard Disk: 0% - HTTP File Dist Service is inactive", "service": "HTTP_FILE_DIST",</pre>					
	<pre>status : "NACTIVE }, {"description": "Hard Disk: 0% - HTTP File Dist Service is inactive",     "service": "HTTP_FILE_DIST",     "status": "INACTIVE"</pre>					
	<pre>}, {"description": "Hard Disk: 0% - HTTP File Dist Service is inactive",     "service": "HTTP_FILE_DIST",     "status": "INACTIVE" },</pre>					

	{"descri "service "status }, {"descri "status }, {"descr "status }, {"descr "status }, {"service },  }, 	ption": "Hard Disk: 0% - FTP Service is inactive e": "FTP", ": "INACTIVE" ption": "CPU: 100%, Memory: 0%, Hard Disk: 0 e": "BLOXTOOLS", ": "INACTIVE" iption": "Captive Portal Service is inactive", e": "CAPTIVE_PORTAL", se": "CAPTIVE_PORTAL", se": "INACTIVE" ce": "HSM", se_type_configuration": "ALL_V4"	e", D%",
	PUT curl -k -u ac "https://grid	<wapi_url>/member/b25lLnZpcnR1YWxfbm9 kZSQw:infoblox.localdomain min:infoblox -H 'content-type: application/json' -master/wapi/v2.12/member/b25lLnZpcnR1YW ields%28=bost_name&amp;_return_as_object=1"</wapi_url>	{"host_name":"nios.test.com"} -X PUT /xfbm9kZSQw:infoblox.localdomai
Modify the name of a member	{"result": {"_ref": "m "config_a "host_nar "platform' "service_1 }}	ember/b25lLnZpcnR1YWxfbm9kZSQw:nios.tes ddr_type": "IPV4", ne": "nios.test.com", ': "VNIOS", type_configuration": "ALL_V4"	st.com",
	PUT	<wapi_url>/member/b25lLnZpcnR1YWxfbm9 kZSQw:infoblox.localdomain</wapi_url>	{"static_routes": [{"address":"10.10.10.0", "gateway":"172.26.1.1", "subnet_mask": "255.255.255.0"}]]
	curl -k -u ac "https://grid n?_return_f "10.10.10.0	min:infoblox -H 'content-type: application/json' -master/wapi/v2.12/member/b25ILnZpcnR1YW ields%2B=static_routes&_return_as_object=1" ","gateway": "172.26.1.1","subnet_mask": "255	-X PUT /xfbm9kZSQw:infoblox.localdomai ' -d '{ "static_routes":[{"address": .255.255.0"}]]}'
Add static routes to a member	{"result": {"_ref": "me "config_ac "host_nam "platform": "service_t "static_rou [{"address "gatewa "subnet_ }]]}	ember/b25ILnZpcnR1YWxfbm9kZSQw:infoblox ddr_type": "IPV4", ne": "infoblox.localdomain", : "VNIOS", ype_configuration": "ALL_V4", ites": s": "10.10.10.0", y": "172.26.1.1", _mask": "255.255.255.0"	.localdomain",
Delete static routes from a member	PUT	<wapi_url>/member/b25lLnZpcnR1YWxfbm9 kZSQw:infoblox.localdomain</wapi_url>	{"static_routes": []}

curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomai n?_return_fields%2B=static_routes&_return_as_object=1" -d '{ "static_routes":[]}'			
{"result": {".ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain", "config_addr_type": "IPV4", "host_name": "infoblox.localdomain", "platform": "VNIOS", "service_type_configuration": "ALL_V4", "static_routes": [] }}			
PUT	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9kb nNfcHJvcGVydGllcyQw:member1.localdomai n</wapi_url>	{"enable_dns":true}	
curl -k -u ad "https://grid- ember1.loca	min:infoblox -H 'content-type: application/json' master/wapi/v2.12/member:dns/ZG5zLm1lbW aldomain?_return_as_object=1" -d '{"enable_du	-X PUT /JIcl9kbnNfcHJvcGVydGllcyQw:m ns":true}'	
{"result": "m	ember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVy	dGllcyQw:member1.localdomain"}	
PUT	<wapi_url>/member:dhcpproperties/ZG5zLm 1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:me mber1.localdomain</wapi_url>	{"enable_dhcp":true}	
curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3Bl cnRpZXMkMQ:member1.localdomain?_return_as_object=1" -d '{"enable_dhcp":true}'			
{"result": "member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:mei domain"}			
POST	<wapi_url>/member</wapi_url>	{"config_addr_type": "IPV4", "platform": "VNIOS", "host_name":"autojoin01.localdo main", "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": "255.255.25			
{"result" <sup>.</sup> "m	ember/b25ll nZpcnR1YWxfbm9kZSQx:autoioi	n01 localdomain"}	
POST	<wapi_url>/member</wapi_url>	{"config_addr_type": "IPV4", "platform": "VNIOS", "host_name":"member-ha.localdo main", "enable_ha":true, "router_id":150, "vip_setting": {"subnet_mask": "255.255.255.0", "address": "192.128.2.100", "gateway":"192.128.2.1"},	
	'https://grid- n?_return_fi ["result": {"_ref": "me "config_ad "host_nam "platform": "service_ty "static_rou } PUT curl -k -u ad 'https://grid- curl -k -u ad 'pOST POST POST	https://grid-master/wapi/v2.12/member/b25lLn2pcnR1YWxfbm9kZSQw:infoblox "config_addr_type": "IPV4", "host_name": "infoblox.localdomain", "platform": "VNIOS", "service_type_configuration": "ALL_V4", "static_routes": [] } PUT <a :="" []<br="" augustuation:="" href="static_routes" static_routes":="">} PUT <a :="" application="" href="static_routes" json"<br="">https://grid-master/wapi/v2.12/member.dns/ZG5zLm1lbWJlcl9kb nNfcHJvcGVydGllcyQw:member1.localdomain n curl -k -u admin:infoblox -H 'content-type: application/json' https://grid-master/wapi/v2.12/member.dncpproperties/ZG5zLm PUT <a href="static_routes">static_routes</a> ("result": "member:dns/ZG5zLm1lbWJlcl9kbNhfcHJvcGVy ember1.localdomain? return_as_object=1" -d '("enable_d "result": member:dns/ZG5zLm1lbWJlcl9kbNhfcHJvcGVy PUT <a href="static-routes">static-routes</a> ("result": "member:dncpproperties/ZG5zLm PUT <a href="static-routes">static-routes</a> ("result": "member:dns/ZG5zLm1lbWJlcl9kbNhfcHJvcGVy PUT <a href="static-routes">static-routes</a> ("result": "member:dncpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:me mber1.localdomain? return_as_object= "result": "member:dncpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb domain"&gt;static-routes/application/json' 'https://grid-master/wapi/v2.12/member?_return_as_object= "result": "member:dncpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb domain"&gt;static-routes: "192.128.2.7", "gateway":"192.128.2.1"}) "result": "member/b25ILnZpcnR1YWxfbm9kZSQx:autojoi POST <wapi_url>/member</wapi_url></a></a>	

	curl -k -u ad "https://grid- "IPV4","plat "VNIOS","ho ng": {"subne "192.128.2.1 192.128.2.7 {"result": "m	min:infoblox -H 'content-type: application/json' master/wapi/v2.12/member?_return_as_objec form": ost_name":"member-ha.localdomain","enable_ et_mask": "255.255.255.0","address": 100","gateway":"192.128.2.1"},"node_info":[{"la 28.2.70","mgmt_lan":"192.128.2.80"}},{"lan_ha 1","mgmt_lan":"192.128.2.81"}}]}' ember/b25LnW9vjR1ZUxfbm9aUIsx:member-	<pre>[{"lan_ha_port_setting": {"ha_ip_address":"192.128.2.70", "mgmt_lan":"192.128.2.80"}}, {"lan_ha_port_setting": {"ha_ip_address":"192.128.2.71", "mgmt_lan":"192.128.2.81"}}]} X POST ct=1" -d '{"config_addr_type": ha":true,"router_id":150,"vip_setti an_ha_port_setting":{"ha_ip_addr _port_setting":{"ha_ip_address":" ha.localdomain"}</pre>
Add a member with anycast configuration	POST POST "IPV4","plat: {"subnet_ma "192.128.2."	<wapi_url>/member min:infoblox -H 'content-type: application/json' master/wapi/v2.12/member?_return_as_objec form': "VNIOS","host_name":"member-anycas ask": "255.255.255.0","address": 100","gateway":"192.128.2.1"},"additional_ip_li</wapi_url>	<pre>{"config_addr_type": "IPV4", "platform": "VNIOS", "host_name":"member-anycast.lo caldomain", "vip_setting": {"subnet_mask": "255.255.255.0", "address": "192.128.2.100", "gateway":"192.128.2.10", "gateway":"192.128.2.1"}, "additional_ip_list": [{"anycast":true, "enable_bgp":true, "enable_bgp":true, "enable_ospf":true, "interface":"LOOPBACK", "ipv4_network_setting": {"subnet_mask": "255.255.255.255", "address": 192.128.2.10", "gateway":"192.128.2.10", "gateway":"192.128.2.1"}}], "bgp_as": [{"ast":100, "link_detect":true, "neighbors": [{"authentication_mode":"NONE", "interface":"LAN_HA", "neighbor_ip":"192.168.2.102", "remote_as":102, "enable_bfd":true}]}], "ospf_list": [{"area_id":"100", "authentication_type":"NONE", "auto_calc_cost_enabled":true, "interface":"LAN_HA", "is_ipv4":true}]} -x POST ct=1" -d '{"config_addr_type": st.localdomain","vip_setting": ist":[{"anycast":true,"enable_bgp":t</pre>

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

# Clear DNS Cache

	REST Method	API Call		
Operation	Sample cURL Command			
		Sample Output		
	GET	<wapi_url>/member:dns</wapi_url>		
	curl -k -u <mark>adı</mark> "https:// <mark>grid</mark> -	min:infoblox -X GET master/wapi/v2.12/member:dns?_return_as_object=1"		
Get member DNS reference	{"result": [{"_ref": "m "host_nan "ipv4addr' {"_ref":	ember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infoblox.localdomain", ne": "infoblox.localdomain", ": "10.196.205.12"},		
	"member:dn "host_nan "ipv4addr' {"_ref": "member:dn	member:dns/2G5zLm1lbWJlcl9kbnNtcHJvcGVydGllcyQx:infoblox_member1.localdomain", "host_name": "infoblox_member1.localdomain", "ipv4addr": "10.196.205.13"}, {"_ref": 		
	"host_nan "ipv4addr' {"_ref": "member:dn "host_nan "ipv4addr' {"_ref": "m "host_nan "ipv4addr' }]}	ne": "infoblox-cpmember.localdomain", ": "10.196.205.14"}, s/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQ4:testingwapi.localdomain", ne": "testingwapi.localdomain", ": "192.128.2.7"}, ember:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQxMA:nios.test.com", ne": "nios.test.com", ": "10.196.205.100"		
	POST	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_ member1.localdomain?_function=clear_dns_cache</wapi_url>		
Clear DNS cache of a member	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:inf oblox_member1.localdomain?_function=clear_dns_cache"			
	8			
Clear DNS cache of a	POST	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_ member1.localdomain?_function=clear_dns_cache&amp;view=Internal%20DNS</wapi_url>		
member for a specific DNS view	curl -k -u adı "https://grid- oblox_memt	min:infoblox -H 'content-type: application/json' -X POST master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:inf per1.localdomain?_function=clear_dns_cache&view=Internal%20DNS"		

	{}	
	POST	<wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:infoblox_ member1.localdomain?_function=clear_dns_cache&amp;domain=test.com&amp;clear_f ull_tree=true</wapi_url>
member for a specific FQDN and all the records within it	curl -k -u adr "https://grid-r oblox_memb e=true" &	nin:infoblox -H 'content-type: application/json' -X POST master/wapi/v2.12/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:inf per1.localdomain?_function=clear_dns_cache&domain=test.com&clear_full_tre

### Services

Operation	REST Method	API Call	Sample Body	
•		Sample cURL Command		
	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_f unction=requestrestartservicestatus</wapi_url>	{"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/b25ILmNsdXN0ZXIkMA:Infoblox?_function=requestr estartservicestatus" -d '{"service option": "ALL"}'			
	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_f unction=restartservices</wapi_url>	{"member_order" : "SIMULTANEOUSLY", "service_option": "ALL"}	
Restart the services	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25ILmNsdXN0ZXIkMA:Infoblox?_function= restartservices" -d '{"member order" : "SIMULTANEOUSLY","service option": "ALL"}'			
Restart the services when no	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_f unction=restartservices</wapi_url>	{"member_order" : "SIMULTANEOUSLY", "restart_option":"FORCE _RESTART", "service_option": "ALL"}	
restart action is required	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/grid/b25ILmNsdXN0ZXIkMA:Infoblox?_function= restartservices" -d '{"member_order" : "SIMULTANEOUSLY", "restart option": "FORCE RESTART", "service option": "ALL"}'			
Get the pending changes	GET	<wapi_url>/g<u>rid:servicerestart:request:changedobje</u> <u>ct</u></wapi_url>		
	curl -k -u a "https://gri	idmin:infoblox -X GET d-master/wapi/v2.12/grid:servicerestart:request:chan	gedobject"	

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

### Discovery

Operation	REST Method	API Call	Sample Body		
	Sample cURL Command				
		Sample Output			
	GET	<wapi_url>/discoverytask</wapi_url>			
Get the pre-built discovery tasks on the grid	curl -k -u				
	{"result": [{"_ref": "discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current", "discovery_task_oid": "current", "member_name": "infoblox.localdomain"},				

	{"_ref": "discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxlZA:scheduled",			
	"member_name": "infoblox.localdomain"			
	}]}			
Modify the scheduled discovery task	PUT	<wapi_url>/discoverytask/ZG5zLmRpc2N vdmVyeV90YXNrJHNjaGVkdWxlZA:sche duled</wapi_url>	<pre>'{"mode":"ICMP", "network_view":"default", "network/ZG5zLm5ldHdvcmskMTky LjE2OC4xMS4wLzI0LzA:192.168.11 .0/24/default", "network/ZG5zLm5ldHdvcmskMTcy LjAuMC4wLzI0LzA:172.0.0.0/24/def ault", "network/ZG5zLm5ldHdvcmskMTAu MTAuMTAwLjAvMjQvMA:10.10.100. 0/24/default"], "ping_retries": 5, "ping_timeout": 1500, "scheduled_run": {"frequency": "DAILY", "hour_of_day": 6, "minutes_past_hour": 0, "repeat": "RECUR" }}</pre>	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVk dWxIZA:scheduled" -d '{"mode":"ICMP","network_view":"default","networks": ["network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default", "network/ZG5zLm5ldHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0.0/24/default","network/ZG 5zLm5ldHdvcmskMTAuMTAwLjAvMjQvMA:10.10.100.0/24/default","ping_retries": 5,"ping_timeout": 1500,"scheduled_run": {"frequency": "DAILY","hour_of_day": 6,"minutes_past_hour": 0,"repeat": "RECUR"}}			
	discoveryt	ask/ZG5zLmRpc2NvdmVyeV90YXNrJHNja r	aGVkdWxlZA:scheduled	
Modify the current discovery task	PUT	<wapi_url>/discoverytask/ZG5zLmRpc2N vdmVyeV90YXNrJGN1cnJlbnQ:current</wapi_url>	'{"mode":"ICMP", "network_view":"default", "network/ZG5zLm5ldHdvcmskMTky LjE2OC4xMS4wLzI0LzA:192.168.11 .0/24/default", "network/ZG5zLm5ldHdvcmskMTcy LjAuMC4wLzI0LzA:172.0.0.0/24/def ault", "network/ZG5zLm5ldHdvcmskMTAu MTAuMTAwLjAvMjQvMA:10.10.100. 0/24/default"], "ping_retries": 5, "ping_timeout": 1500}'	
	curl -k -u admin:infoblox -H 'content-type: application/json' -X PUT "https://grid-master/wapi/v2.12/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlb nQ:current" -d '{"mode":"ICMP","network_view":"default","networks": ["network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMS4wLzI0LzA:192.168.11.0/24/default", "network/ZG5zLm5ldHdvcmskMTcyLjAuMC4wLzI0LzA:172.0.0.0/24/default","network/ZG 5zLm5ldHdvcmskMTAuMTAwLjAvMjQvMA:10.10.100.0/24/default"],"ping_retries": 5,"ping_timeout": 1500}' discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current			

Start the current discovery task	POST	<wapi_url>/discoverytask/ZG5zLmRpc2 NvdmVyeV90YXNrJGN1cnJlbnQ:current {"action":"START"} ?_function=network_discover_control</wapi_url>		
	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/discoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlb nQ:current? function=network discovery control" -d '{"action":"START"}'			
	GET	<wapi_url>/discoverytask?_return_fields %2B=status,state</wapi_url>		
	curl -k -u ac "https:// <mark>grid</mark> tatus,state"	Jmin:infoblox -X GET -master/wapi/v2.12/discoverytask?_return_as_object=1&_return_fields%2B=s		
Fetch the discovery task to get the state	{"result": [{"_ref": "di "discove "state": " "status": Discovered Existing ob {"_ref": "di "discove "member "state": " "status": Managed: ( data: 0" }]}	scoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJGN1cnJlbnQ:current", ry_task_oid": "current", `_name": "infoblox.localdomain", COMPLETE", "Current status: Ended\nDiscovery was started by administrator 'admin'\n\n : 8\n Pending processing: 0\n Managed: 0\n Unmanaged: 8\n Conflicts: 0\n\n jects updated with discovery data: 0"}, scoverytask/ZG5zLmRpc2NvdmVyeV90YXNrJHNjaGVkdWxIZA:scheduled", ry_task_oid": "scheduled", r_name": "infoblox.localdomain", COMPLETE", "Current status: Ended\n\n Discovered: 0\n Pending processing: 0\n 0\n Unmanaged: 0\n Conflicts: 0\n\n Existing objects updated with discovery		

### vDiscovery

	REST Method	API Call	Sample Body
Operation		Sample cURL Comr	mand
		Sample Output	
	GET	<wapi_url>/vdiscoverytask</wapi_url>	
	curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/vdiscoverytask? return as object=1"		
Get vDiscovery tasks	<pre>""""""""""""""""""""""""""""""""""""</pre>	task/ZG5zLmNkaXNjb3ZlcnlfdGFzayRBe ", Azure vDiscovery", VARNING" WS vDiscovery", /ARNING" task/ZG5zLmNkaXNjb3ZlcnlfdGFzayRW <sup>-</sup> covery", /Mware vDiscovery", /ARNING"	mVyZSB2RGlzY292ZXJ5:Azure%20 /1MgdkRpc2NvdmVyeQ:AWS%20vD

	}, {"_ref": "vdiscovery penstack% "name": ' "state": " }]}	ytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRPo 520vDiscovery", "Openstack vDiscovery", WARNING"	cGVuc3RhY2sgdkRpc2NvdmVyeQ:O	
Create a vDiscovery Task to discover the AWS environment	POST <wapi_url>/vdiscoverytask</wapi_url>		<pre>'{"name": "ec2.eu-west-1", "driver_type": "AWS", "fqdn_or_ip": "ec2.eu-west-1.amazonaws.com", "username": "test", "password": "test", "member": "infoblox.localdomain", "port": 443, "protocol": "HTTPS", "auto_consolidate_cloud_ea": true, "auto_consolidate_managed_tenant ": true, "auto_consolidate_managed_tenant ": true, "auto_consolidate_managed_tenant ": true, "auto_consolidate_managed_vm": true, "merge_data": true, "private_network_view": "default", "private_network_view": "default", "private_network_view": "default", "public_network_view": "default", "public_network_view": "default", "public_network_view": "default", "public_network_view_mapping_poli cy": "DIRECT", "update_metadata": true, "scheduled_run": {"_struct":"setting:schedule", "frequency": "HOURLY", "repeat": "RECUR", "minutes_past_hour": 1, "disable": true}}'</pre>	
	"https://grid-master/wapi/v2.12/vdiscoverytask?_return_fields=name,driver_type&_return_ as_object=1" -d '{"name": "ec2.eu-west-1", "driver_type": "AWS", "fqdn_or_ip": "ec2.eu-west-1.amazonaws.com", "username": "test", "password": "test", "member": "infoblox.localdomain", "port": 443, "protocol": "HTTPS", "auto_consolidate_cloud_ea": true, "auto_consolidate_managed_tenant": true, "auto_consolidate_managed_vm": true, "merge_data": true, "private_network_view": "default", "private_network_view_mapping_policy": "DIRECT", "public_network_view": "default", "public_network_view_mapping_policy": "DIRECT", "update_metadata": true, "scheduled_run": {"_struct": "setting:schedule","frequency": "HOURLY", "repeat": "RECUR", "minutes_past_hour": 1, "disable": true}}			
Start a vDiscoverv task	{"result": {"_ref": "vdiscovery "driver_ty "name": ' }} POST	ytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRlY ype": "AWS", "ec2.eu-west-1" <wapi_url>/vdiscoverytask/ZG5zLmNka</wapi_url>	zluZXUtd2VzdC0x:ec2.eu-west-1", {"action":"START"}	

	x: nt	:ec2.eu-west-1 <u>?_function=vdiscover_co</u> <u>trol</u>	
c "	url -k -u adm https://grid-n Jtd2VzdC0x:	nin:infoblox -H 'content-type: application/ naster/wapi/v2.12/vdiscoverytask/ZG5zL :ec2.eu-west-1? function=vdiscovery co	/json' -X POST .m <mark>NkaXNjb3ZlcnlfdGFzayRlYzluZX</mark> ontrol" -d '{"action":"START"}'

Permissions

	REST Method	API Call		
Operation	Sample cURL Command			
		Sample Output		
	GET	<wapi_url>/<u>permission</u></wapi_url>		
	curl -k -u a "https:// <mark>gri</mark> d	idmin:infoblox -X GET d-master/wapi/v2.12/permission?_return_as_object=1"		
	{"result": [{"_ref": "permissio mluZm9ib( "permiss	n/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC4uLi4uY29tL G94Lm9uZS5yb2xlJEROUyBBZG1pbi4:DNS%20Admin/WRITE", ion": "WRITE"		
	"resource "role": "D }, {"_ref":	e_type": "VIEW", DNS Admin"		
Get permissions	"permissio dC4uLmN <sup>1</sup> ITE", "permiss	n/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC5zcmdfcm9v vbS5pbmZvYmxveC5vbmUucm9sZSRETIMgQWRtaW4u:DNS%20Admin/WR .ion": "WRITE"		
	"resource "role": "D },	e_type": "SHARED_RECORD_GROUP", DNS Admin"		
	 {"_ref": "permissio fcGFyZW5 fYWRfc2l0 "permiss "resource	n/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXd i0JC8uLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkR3JpZCBBZG1pbi5kbnMubXN iZXNfZG9tYWlu:Grid%20Admin/WRITE", ion": "WRITE", e_type": "MS_ADSITES_DOMAIN"		
	"role": "@ }]}	Srid Admin"		
	GET	<wapi_url>/permission?role=DHCP%20Admin</wapi_url>		
	curl -k -u a "https://grio "	<pre>idmin:infoblox -X GET d-master/wapi/v2.12/permission?role=DHCP%20Admin&amp;_return_as_object=1</pre>		
Get permissions for a role (DHCP Admin)	{"result": [{"_ref": "permissio fcGFyZW5 0Admin/W "permiss "resource "role": "D	n/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXd i0JC8uLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1pbi4:DHCP%2 RITE", ion": "WRITE", e_type": "NETWORK_VIEW", 0HCP Admin"		
	}, {"_ref": "permissio	n/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5kaGNwX21hY19ma		

	Wx0ZX IfcGEvZW50 IDAul i5ib20uaW5mb2 lsb3gub25ll p.lybGl lkREbDI ICBBZG1pbi4:
	"resource_type": "DHCP_MAC_FILTER",
	"role": "DHCP Admin"
	},
	{"_ref":
	"permission/b25ILmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3
	BfcHJvcGVydGllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5yb2xlJERIQ1AgQWRtaW4u:DH
	CP%20Admin/WRITE",
	"permission": "WRITE".
	"resource type": "GRID DHCP PROPERTIES".
	"role": "DHCP Admin"
	n
	GE1 <wapi_url>/permission?group=cloud-api-only</wapi_url>
	curi -k -u admin:infodiox -X GE I
	"https://grid-master/wapi/v2.12/permission?group=cloud-api-only"
	{"result":
	[{"_ref":
	"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3
	BfcHJvcGVvdGllcvQwLi4uY29tLmluZm9ibG94Lm9uZS5hZG1pbl9ncm91cCQuY2xvdW
	OtYXBpLW9ubHku:cloud-api-only/WRITE".
	"group": "cloud-api-only".
	"nermission": "WRITE"
	"resource type": "GRID DHCP PROPERTIES"
	<i>J</i> <sup>1</sup>
	\\ "normination/h25ll_mha7X_lfan\/a7SQuV20tl_mlu7m0ihC04l_mDuayE07WEhhaDfaCEu7W
	permission/b2sichmipzAsichvs2SQu12sichmission/s4chmicky3v2w3inhinkitG192w
	50JGFsbC4uLmixvbS5pbmZvYmXveC5vbmOuYvvRtavv5iZ3JvdXAkLmixb3vkLvvFwa
	S1vbmx5Lg:cloud-api-only/WRITE",
	"group": "cloud-api-only",
Get permissions for a group	"permission": "WRITE",
	"resource_type": "TENANT"
	},
	{"_ref":
	"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXd
	fcGFyZW50JC8uLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGkt
	b25seS4:cloud-api-only/WRITE".
	"group": "cloud-api-only".
	"permission": "WRITE"
	"resource type": "NETWORK VIEW"
	Ϳ, ∫" rof"·
	normicsion/b25ll_mhp7X_lfon/c7SQuV20tl_mlu7m0ibC04l_mPuov5ibHV/zdC\/vV2Puo10
	permission/b25/Emip2A3ich782/SQ0125/Emip30594Emic0305/Emip206972/C0072
	the Cith 25 ac Adam and an in an MARTER
	Incorrections and a set of the se
	group : cloud-api-only",
	"permission": "WRITE",
	"resource_type": "GRID_DNS_PROPERTIES"
	<u>}]</u> }

## 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.

	REST Method	API Call	Sample Body					
Operation		Sample cURL Command						
	Sample Output							
	POST	<wapi_url>/fileop?_function=csv_export</wapi_url>	{"_object": "record:host"}					
	curl -k -u a "https:// <mark>gri</mark> d	<mark>idmin:infoblox</mark> -H 'content-type: application/json' -X POST <mark>d-master</mark> /wapi/v2.12/fileop?_function=csv_export" -d '{"_c	- object": "record:host"}'					
Initiate a CSV export	{"token": "eJyIUMFu g7SmhD9I N8x\n0qRı JLVo\nD+/ \ntIrMOVV p3\nDsm4 "url": "https }	uwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9 RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6 n4CrYiaqomqouVpus4VCtlZxmFz8yWjP/I0YXHvJcNGVV 718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0iK 'LHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2 S8Sr9oGsSdiGsT77AjVimUo=\n", s://grid-master.2/http_direct_file_io/req_id-DOWNLOAD-1	OnEnbabcdYjl+z89+ltK6O3p9\nB ExkkEERTKCW8JcuRWcZvrmy V1pnlyjyVUBGvFnGgUSPZ3OtP /XAuCublgc13Z53Hyf1nuhA/yqiN 2gYHEiPKmC0KO3kOv/dtYZ9Mt 1001/Hostrecords.csv"					
Download the CSV file	GET	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-10 01/Hostrecords.csv</url_from_the_previous_output>						
	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv" -o "Hostrecords.csv"							
	#Hostreco	rds.csv file is saved in the present working directory#						
	POST	<wapi_url>/fileop?_function=downloadcomplete</wapi_url>	{"token": "eJyIUMo="}					
Remove the stored file using the token	curl -k -u a "https://grid g7SmhD9I N8x\n0qRi JLVo\nD+/ \ntIrMOVV p3\nDsm4	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/fileop?_function=downloadcomplete wjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPzg RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6 n4CrYiaqomqouVpus4VCtIZxmFz8yWjP/I0YXHvJcNGVV 718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0iK 'LHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2 S8Sr9oGsSdiGsT77AjVimUo=\n"}'	- 					

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

#### Export results of a WAPI call

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

Organitian	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.js on","_object":"record:host", "_return_fields":"name,extattrs", "zone":"info.com"}	
	curl -k -u a "https://gri '{"_encodir me,extattr	admin:infoblox -H 'content-type: application/json' -X POST id-master/wapi/v2.12/fileop?_function=read" -d ng":"JSON","_filename":"allhosts.info.com.json","_object":"record:host","_return_fields":"na rs","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 Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Output			
	POST	<wapi_url>/fileop?_function=getleasehistoryfiles</wapi_url>	{"member": "m1.infoblox.com", "start_time": "1514764800", "end_time" :"1533686400"}		
	curl -k -u a "https://gri "m1.infoble	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/fileop?_function=getleasehistoryfile: ox.com", "start_time": "1514764800", "end_time" :"15336	「 s" -d '{"member": 86400"}'		
Initiate a CSV export	{"token": "eJyIUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltl port g7SmhD9RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6ExkkEERTKCW8Jcu N8x\n0qRn4CrYiaqomqouVpus4VCtlZxmFz8yWjP/I0YXHvJcNGVW1pnIyjyVUBGvFnGg JLVo\nD+/71802XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0iK/XAuCublgc13Z53Hy \ntIrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2gYHEiPKmC0KO3k( p3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n", "url": "https://192.168.1.2/http_direct_file_io/req_id-DOWNLOAD-0202150809630902/dhcpLe sv.gz"				
Download the CSV	GET	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-02 02150809630902/dhcpLeaseHistory.csv.gz</url_from_the_previous_output>			
file	curl -k -u a "https://grid sv.gz" -o "d	dmin:infoblox -H 'content-type: application/force-downloa d-master/http_direct_file_io/req_id-DOWNLOAD-020215 dhcpLeaseHistory.csv.gz"	ad' 0809630902/dhcpLeaseHistory.c		
	#dhcpLeas	seHistory.csv.gz file is saved in the present working direc	tory#		
	POST	<wapi_url>/fileop?_function=downloadcomplete</wapi_url>	{"token": "eJyIUMo="}		
Remove the stored file using the token	curl -k -u a "https://grid "eJylUMFu g7SmhD9l N8x\n0qRi JLVo\nD+/ \ntIrMOVV p3\nDsm4	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/fileop?_function=downloadcomplete wjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPzs RUbrwQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6 n4CrYiaqomqouVpus4VCtIZxmFz8yWjP/I0YXHvJcNGVV 718O2XYiiEPmz5c3ZgFchk+HKik0SJ8XZmrX/amJok0ik 'LHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3W6p2 S8Sr9oGsSdiGsT77AjVimUo=\n"}'	r - d '{"token" : 9nEnbabcdYjl+z89+ltK6O3p9\nB ExkkEERTKCW8JcuRWcZvrmy V1pnlyjyVUBGvFnGgUSPZ3OtP //XAuCublgc13Z53Hyf1nuhA/yqiN 2gYHEiPKmC0KO3kOv/dtYZ9Mt		

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 API Call Samp					
Operation	Sample cURL Command					
		Sample Output				
	POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>				
	curl -k -u <mark>a</mark> "https:// <mark>gri</mark> d	dmin:infoblox -H 'content-type:application/json' -X POST d-master/wapi/v2.12/fileop?_function=uploadinit"				
Initiate file upload	{"token": "eJydUMF E\n8ZLW+ WZyFww0 OP2BpBZ\ RVpE5pW YyfAc8FM "url": "http }	OwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9 OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSM \n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/Kwqy /\nL0/Pm+1CIKUoaGLrvhIR6ypLKIbrqPqXHoE2UVT0EV kV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdl 7\nT9YkrI1Yn38Bt1KUqw==\n", s://172.26.1.2/http_direct_file_io/req_id-UPLOAD-1001/ii	PMgQXbhwS2X7PL3IPSssXdPo /R+pjGQQQRFMgAv4UbxLRwzf <qvkqyuvefwmeiulxag40airb VtRRlbho+nupIsw8f9eFeJHE7W I7ZQHpUHoNFaSfu3HVrDftksO8 mport_file"</qvkqyuvefwmeiulxag40airb 			
Upload contents of a	POST	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1001/i mport_file</url_from_the_previous_output>	file=@ca.cert.pem			
	curl -k -u admin:infoblox -H 'content-type:multipart-formdata' "https://grid-master/http_direct_file_io/req_id-UPLOAD-1001/import_file" -F file=@ca.cert.pem					
Upload the CA Certificate	POST	<wapi_url>/fileop?_function=uploadcertificate</wapi_url>	{"certificate_usage":"EAP_CA", "member": "infoblox.localdomain", "token":"eJydk=="}			
	curl -k -u a "https://grid {"certificat "infoblox.lc MgQXbhw R+pjGQQQ qvKqyUVe RRlbho+nu QHpUHoN	dmin:infoblox -H 'content-type:application/json' -X POST d-master/wapi/v2.12/fileop?_function=uploadcertificate" - e_usage":"EAP_CA","member": ocaldomain","token":"eJydUMFOwzAMvftHymVt09Fu5TY S2X7PL3IPSssXdPoE\n8ZLW+OBmGawDFnAjyQy2H+( QRFMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5 FWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrv uplsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaX IFaSfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw=	d <sup>(0</sup> JiGhgTY4W22SDkttYpIUbX9P <sup>(0</sup> 5t0anEy6sPWy700FBD8AVSM <sup>(0</sup> GXZtmIF/pjNboxoE/nvIbC/Kwqx hIR6ypLKIbrqPqXHoE2UVT0EWt <sup>(15</sup> nWDh4dd6mvw4cCiSQnGdI7Z ==\n"}			

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

#### Import a CSV file

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command	·	
		Sample Output		
	POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>		
	curl -k -u a "https:// <mark>gri</mark> d	dmin:infoblox -H 'content-type:application/json' -X POST d-master/wapi/v2.12/fileop?_function=uploadinit"		
Initiate file upload	{"token": "eJydUE1PwzAMvfuPbJe1Tbe2G7ehMQkJDbTB2WqTdFhqk5CkaPv3OENw4cYhkeP34TxLad0Vv T4D\nX9KaEP0ko/XgBMwlmd52g71k1uh04tXpALs2tnjUPbgSJGI30RDJIIIiGcEtYa7cCk4zfXHkrxhp\ n1DNwFexFVVRNVddVk4l6tdyUGwin2eQHhmsWvMfowl2ei6bMyjoTWZmnFiriv0XsadBINvf6A0kt\n 3I6enre7hSiKMqfRWf/NYK8m2ZLias2uf+kM3CYrDsK1KJiVB07dnnUeR/e/qUL8eKI20ioy59Qt\n2fz+ 8ZDK5S9htOomSWvabV+3eHzYp3cFIR6dqNMKRcNgT3pQAaNFaUfX+ptqDYcUsGsdknFTxE/t\nA 1mTsA1jXfYFNGOU6g==\n", "url": "https://172.26.1.2/http_direct_file_io/req_id-UPLOAD-1002/import_file" }			
Upload contents of the CSV file	POST	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1002/i mport_file</url_from_the_previous_output>	file=@HostRecords.csv	
	curl -k -u admin:infoblox -H 'content-type:multipart/form-data' "https://grid-master/			
Upload the CSV file	POST	<wapi_url>/fileop?_function=csv_import</wapi_url>	{"action":"START", "on_error":"CONTINUE", "update_method":"MERGE", "token":"eJydU=="}	
	curl -k -u a "https://grid '{"action":" uPbJe1Tb gBMwImd5 ddVk4l6tdy Wf/NYK8m WvabV+3e U6g==\n"}	dmin:infoblox -H 'content-type:application/json' -X POST d-master/wapi/v2.12/fileop?_function=csv_import" -d START","on_error":"CONTINUE","update_method":"MEF e2G7ehMQkJDbTB2WqTdFhqk5CkaPv3OENw4cYhkeF 52g71k1uh04tXpALs2tnjUPbgSJGI30RDJIIIiGcEtYa7cCl /UGwin2eQHhmsWvMfowl2ei6bMyjoTWZmnFiriv0Xsad n2ZLias2uf+kM3CYrDsK1KJiVB07dnnUeR/e/qUL8eKI20 eHzYp3cFIR6dqNMKRcNgT3pQAaNFaUfX+ptqDYcUsG	RGE","token":"eJydUE1PwzAMvf 234TxLad0VvT4D\nX9KaEP0ko/X 44zfXHkrxhp\n1DNwFexFVVRNV BINvf6A0kt\n3l6enre7hSiKMqfR bioy59Qt\n2fz+8ZDK5S9htOomS sdknFTxE/t\nA1mTsA1jXfYFNGO	
	{"csv_impo {"_ref": "c "admin_r "file_nam "file_size "import_i "lines_fa "lines_pr "lines_wa "on_erro "operatic "separate	ort_task": svimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5", name": "admin", ne": "import_file", ": 215, d": 5, iled": 0, ocessed": 0, arning": 0, r": "CONTINUE", nn": "UPDATE", or": "COMMA",		

	"start_time": 1537512228, "status": "PENDING"				
	"update_method": "MERGE"				
	GET <wapi_url>/csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5</wapi_url>				
	curl -k -u admin:infoblox -X GET				
	"https://grid-master/wapi/v2.12/csvimporttask/b25ILmNzdl9pbXBvcnRfdGFzayQ1:5"				
	{" ref": "csvimporttask/b25lLmNzdl9pbXBvcnRfdGFzayQ1:5",				
	l"admin name": "admin",				
	"end time": 1537512233.				
	"file name": "import file",				
	"file_size": 215,				
Verify the status of	"import_id": 5,				
the CSV import task	"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": "eJyljrEKw 2nfNUCEE JzzhIHkG0 OXxXyegN	rjAURX+IZLZJXzSN7VapgiAtiOAYSvOsAWNrjKCI/24z6C EIZGIGMInIzZ3GiBy9H645Y5BQyFLKE0GBs0CVNg5brv QkIqhWQtOk8HtGS068Y3Cs9tr825CzuLdfXIttfhFimLXaC /I9j1mw\n",	)rgei733PskeB+MeyhvLJI8\ngnQ v7mhMr0zOFFGR2X9b7a1EUZ\n S2y9UnCIxdfe+aDpm3w/83\njA7

	"url": "http:	'url": "https://10.196.205.12/http_direct_file_io/req_id-DOWNLOAD-0202172915716757/cert.pem"}			
Download the CSV file	GET	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/rreq_id-DOWNLOAD-0 202172915716757/cert.pem</url_from_the_previous_output>			
	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0202172915716757/cert.pem" -o "cert.pem"				
	#cert.pem file is saved in the present working directory#				
	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+IZLZJXzSN7VapgiAtiOAYSvOsAWNrjKCl/24z6Orgei733PskeB+MeyhvLJI8\ngnQ 2nfNUCEEIZGIGMInIzZ3GiBy9H645Y5BQyFLKE0GBs0CVNg5brw7mhMr0zOFFGR2X9b7a1EUZ\n JzzhIHkGQkIqhWQtOk8HtGS068Y3Cs9tr825CzuLdfXIttfhFimLXaG2y9UnClxdfe+aDpm3w/83\njA7 OXxXyegM9j1mw\n"}'				

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

#### Grid database backup and restore

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	POST	<wapi_url>/fileop?_function=getgriddata</wapi_url>	{"type": "BACKUP"}	
	curl -k -u <mark>a</mark> "https:// <mark>gri</mark> c	<mark>dmin:infoblox</mark> -H 'content-type: application/json' -X POST <mark>d-master</mark> /wapi/v2.12/fileop?_function=getgriddata" -d '{"ty	- /pe": "BACKUP"}'	
Initiate a backup	Initiate a backup Initiate a b			
Download the backup	GET	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-10 01/database.bak</url_from_the_previous_output>		
	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak" -o "database.bak"			
	#database.bak file is saved in the present working directory#			
	POST	<wapi_url>/fileop?_function=downloadcomplete</wapi_url>	{"token": "eJydUA="}	
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" : "eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2DO\ nwJdyNqZwUckF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQqxv9CYyCKCJpXAL+BO+yWcZubqK			

dww\n0WRm4CXshKxkI+W6XhWyqZayhniaXcLl6Ir5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZIrg/IA0v P2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY4vGKqfJ\ nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktIaajF6ucpGgYHMiMOmJyqNzku/CtWsM+b9l3Hsn6\nS 8JPEyI5m7ENY33xBbQAIIA=\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.

<b>o</b> "	REST Method	API Call Sample Body				
Operation		Sample cURL Command				
		Sample Output				
	POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>				
	curl -k -u <mark>a</mark> "https:// <mark>gri</mark> d	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/fileop?_function=uploadinit"	-			
Initiate a file upload	{"token": "eJydUMF E\n8ZLW+ WZyFww0 OP2BpBZ' RVpE5pW YyfAc8FM "url": "http }	OwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9 OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSN \n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/Kwqx v\nL0/Pm+1ClKUoaGLrvhIR6ypLKlbrqPqXHoE2UVT0EV kV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdl 7\nT9YkrI1Yn38Bt1KUqw==\n", s://grid-master/http_direct_file_io/req_id-UPLOAD-1001/	PMgQXbhwS2X7PL3IPSssXdPo /R+pjGQQQRFMgAv4UbxLRwzf <qvkqyuvefwmeiulxag40airb VtRRlbho+nupIsw8f9eFeJHE7W /7ZQHpUHoNFaSfu3HVrDftksO8 import_file"</qvkqyuvefwmeiulxag40airb 			
Upload the backup file	POST	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-UPLOAD-1001/i mport_file</url_from_the_previous_output>	filedata=@database.bak			
	curl -k -u <mark>a</mark> name=data	dmin:infoblox "https://grid-master/http_direct_file_io/req_ abase.bak -F filedata=@database.bak	id-UPLOAD-1001/import_file" -F			
	POST	<wapi_url>/fileop?_function=restoredatabase</wapi_url>	{"mode":"NORMAL", "token": "eJydUw="}			
Restore the database	curl -k -u a "https://grid "("mode":"I gQXbhwS pjGQQQR qyUVeFWi bho+nupIs pUHoNFa	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/fileop?_function=restoredatabase" NORMAL", "token": "eJydUMFOwzAMvftHymVt09Fu5TY0 2X7PL3IPSsSXdPoE\n8ZLW+OBmGawDFnAjyQy2H+05 FMgAv4UbxLRwzfWZyFww0\n6Qy4hp2oy3pVN1XT5GX mEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1CIKUoaGLrvhIR6 w8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5n Sfu3HVrDftksO8YyfAc8FM7\nT9YkrI1Yn38Bt1KUqw==\r	- d JiGhgTY4W22SDkttYpIUbX9PM t0anEy6sPWy70OFBD8AVSMR+ (ZtmIF/pjNboxoE/nvIbC/KwqxqvK SypLKIbrqPqXHoE2UVT0EWtRRI WDh4dd6mvw4cCiSQnGdI7ZQH )"}'			

#### 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.
- 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.

Operation		REST Method	API Call	Sample Body			
			Sample cURL Command				
			Sample Output	-			
		POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>				
		curl -k -u a	dmin:infoblox -H 'content-type: application/json' -X POST	-			
		"https://gri	d-master/wapi/v2.12/fileop?_function=uploadinit"				
Initiate a file uploac	Initiate a file upload	{ token : "eJydUMF E\n8ZLW+ WZyFww0 OP2BpBZ RVpE5pW YyfAc8FM "url": "http }	OwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9 OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSN \n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/Kwqx v\nL0/Pm+1ClKUoaGLrvhIR6ypLKlbrqPqXHoE2UVT0EV kV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCiSQnGdI 7\nT9YkrI1Yn38Bt1KUqw==\n", s://grid-master/http_direct_file_io/req_id-UPLOAD-1001/i	PMgQXbhwS2X7PL3IPSssXdPo IR+pjGQQQRFMgAv4UbxLRwzf qvKqyUVeFWmEiuLXAg40aiRb /tRRlbho+nupIsw8f9eFeJHE7W 7ZQHpUHoNFaSfu3HVrDftksO8 mport_file"			
Upload the			<url_from_the_previous_output></url_from_the_previous_output>				
upgrade	Upload	POST	Example:	file=@upgrade-file.bin			
file	the		nttps://x.x.x.x/nttp_direct_tile_lo/req_ld-UPLOAD-1001/l mport_file				
	file	curl -k -u a	dmin:infoblox "https://grid-master/http_direct_file_io/reg	id-UPLOAD-1001/import_file" -F			
		name=upg	rade-file.bin -F filedata=@upgrade-file.bin				
		POST	<wapi_url>/fileop?_function=set_upgrade_file</wapi_url>	{"token": "eJydUw="}			
		curl -k -u a	dmin:infoblox -H 'content-type: application/json' -X POST	-			
	Set it as	"https://grid	d-master/wapi/v2.12/fileop?_function=set_upgrade_file" -				
	the	SssXdPoF	N87IW+0BmGawDFnAivQv2H+05t0anEv6sPWv700Ff	3D8AVSMR+piGQQQRFMgAv4U			
	file	bxLRwzfW	ZyFww0\n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvI	bC/KwqxqvKqyUVeFWmEiuLXA			
	ille	g40aiRbOP2BpBZv\nL0/Pm+1ClKUoaGLrvhlR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nupIsw8f9					
		JHE/WRV DftksO8Yv	'pE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4dd6mvw4cCi∜ fAc8EM7\nT9YkrI1Yn38Bt1KUgw==\n"\'	SQnGdI/ZQHpUHoNFaStu3HVr			
			<pre><wapi url="">/grid/b25lLmNsdXN0ZXlkMA:Infoblox? functi</wapi></pre>				
Call the	upgrade	POST	on=upgrade	{"action": "UPLOAD"}			
funct	ion to	curl -k -u a	dmin:infoblox -H 'content-type: application/json' -X POST				
UPLOAI	D" the file	"https://gri	d-master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblo:	x?_function=upgrade" -d			
			UPLOAD }	("action":			
Call the	uparade	POST	on=upgrade	DISTRIBUTION START"			
function to	o start the	curl -k -u a	dmin:infoblox -H 'content-type: application/json' -X POST				
distributio	n process	"https:// <mark>gri</mark>	d-master/wapi/v2.12/grid/b25lLmNsdXN0ZXlkMA:Infoblo	x?_function=upgrade" -d			
		'{"action": '	'DISTRIBUTION_START"}'	1			
Call the	upgrade	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_functi on=upgrade</wapi_url>	{"action": "UPGRADE"}			
function to	o start the	curl -k -u a	dmin:infoblox -H 'content-type: application/json' -X POST	- · · · · · · · · · · · · · · · · · · ·			
upgi	laue	"nttps://gno '{"action": '	<mark>d-master/wapi/v2.12/grid/b25iLmiNsdXNUZXiki/iA:Infobio</mark> . 'UPGRADE"}'				
		GET	<pre><wapi url="">/upgradestatus?type=GRID</wapi></pre>				
Oh e statt		curl -k -u a	dmin:infoblox -H 'content-type: application/json' -X POST	-			
Check the	e upgrade	"https://gri	d-master/wapi/v2.12/upgradestatus?type=GRID"				
Sla	103	[{"_ref": "u	pgradestatus/Li51cGdyYWRlc3RhdHVzJHVwZ3JhZGVfc	3RhdHVz:Infoblox",			
		"element_status": "WORKING",					

"grid state": "DEFAULT",
"group_state": "GROUP_NONE",
"ha_status": "NOT_CONFIGURED",
"message": "",
"steps completed": 0,
"steps_total": 0,
"type": "GRID",
"upgrade state": "NONE",
"upgrade 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.

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Output			
	POST	<wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:inf oblox.localdomain?_function=capture_traffic_status</wapi_url>			
Check the current capture status	curl -k -u a "https:// <mark>gri</mark> ion=captur	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZ re_traffic_status"	SQw:infoblox.localdomain?_funct		
	{"file_exist "file_size" "status": "	s": false, : 0, STOPPED"}			
	POST	<wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:inf oblox.localdomain?_function=capture_traffic_control∾ tion=START&amp;interface=ALL</wapi_url>			
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?_funct ion=capture_traffic_control&action=START&interface=ALL"				
	{}				
	POST	<wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:inf oblox.localdomain?_function=capture_traffic_status</wapi_url>			
Check the capture status	curl -k -u a "https://grid ion=captur	<pre>dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZ re_traffic_status"</pre>	SQw:infoblox.localdomain?_funct		
	{"file_exist "file_size" "status": "	s": true, : 12288, RUNNING"}			
Stop the capture	POST	<wapi_url>/member/b25lLnZpcnR1YWxfbm9kZSQw:inf oblox.localdomain?_function=capture_traffic_control∾ tion=STOP&amp;interface=ALL</wapi_url>			
	curl -k -u a "https://grid ion=captur	dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/member/b25lLnZpcnR1YWxfbm9kZ re_traffic_control&action=STOP&interface=ALL"	SQw:infoblox.localdomain?_funct		
	{}				
Generate the capture file	POST	<wapi_url>/fileop?_function=getmemberdata&amp;member=i nfoblox.localdomain&amp;type=TRAFFIC_CAPTURE_FILE</wapi_url>			

	curl -k -u admin:infoblox -H 'content-type: application/json' -X POST "https://grid-master/wapi/v2.12/fileop?_function=getmemberdata&member=infoblox.localdomain&typ e=TRAFFIC_CAPTURE_FILE"			
	{"token": "eJy9kcFuwyAMhu+8SHsJCTRJw26dskqTqlZqJ+1oJUAypCQwQqZ2Tz9Tab3utgOW8f9bfNhSWnc D\nr3uCQdppDn6RwXriGFILM3W2HeyV2knHE25Oz6RuQgNn3RHHiQRoFzMEMwEQZWQgbkPW yuXkstJX\nZ/wNghn1iriC7FmxzZkQvKoo5xUrBZkvq8UPqJbo/wjBzU9pyjLKREI5VtCcp7EKyiBdgM4 MGoxN\nvf4Eo5L69H48nHZ1whgTPNvkecV5IcoifYAPVjaDspABz5hAY4KRZ8kmT/IKgnRqGd3B9jQ 0nvbf\nSLKNUEZhViHTXy+h7f4LhTPBnGXYk844wKbXaRjdv+Mz9osDepJWmamPVY5cz6/HmG4e htGquBkW\nl1Xv3nZwftnHe0HmcHasjItkWxQ7owc1Q7Ag7egaf++qyDFOqm0cmMktAb60n42doiZQ a+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_tcpdumpl.og_tar.gz")			
Download the traffic capture file	GET	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-11 19203448225965/infoblox.localdo_0_2019-11-19-20-34- 48_tcpdumpLog.tar.gz</url_from_the_previous_output>		
	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_2 019-11-19-20-34-48_tcpdumpLog.tar.gz" -o "trafficCapture.tar.gz"			
	# trafficCa	pture.tar.gz file is saved in the present working directory#		
Remove the stored file using the token	POST curl -k -u a "https://grid "eJy9kcFu D\nr3uCQd yuXkstJX\n MGoxN\nv 0nvbf\nSLI htGquBkW a+kPIMm5	<pre><wapi_url>/fileop?_function=downloadcomplete dmin:infoblox -H 'content-type: application/json' -X POST d-master/wapi/v2.12/fileop?_function=downloadcomplete' wyAMhu+8SHsJCTRJw26dskqTqlZqJ+1oJUAypCQwQq; dppDn6RwXriGFILM3W2HeyV2knHE25Oz6RuQgNn3RH nZ/wNghn1iriC7FmxzZkQvKoo5xUrBZkvq8UPqJbo/wjBzl f4Eo5L69H48nHZ1whgTPNvkecV5IcoifYAPVjaDspABz5 KNUEZhViHTXy+h7f4LhTPBnGXYk844wKbXaRjdv+Mz9 \nl1Xv3nZwftnHe0HmcHasjItkWxQ7owc1Q7Ag7egaf++c s\nYA==\n"}'</wapi_url></pre>	{"token": "eJy9kcA=="} " -d '{"token" : Z2Tz9Tab3utgOW8f9bfNhSWnc IHiQRoFzMEMwEQZWQgbkPW U9pyjLKREI5VtCcp7EKyiBdgM4 hAY4KRZ8kmT/IKgnRqGd3B9jQ osDepJWmamPVY5cz6/HmG4e tyDFOqm0cmMktAb60n42doiZQ	

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.

Operation	REST Method	API Call	Sample Body	
	Sample cURL Command			
	Sample Output			
Initiate the support bundle download	POST	<wapi_url>/fileop?_function=get_support_bundle</wapi_url>	{"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": "eJytUUFuwyAQvPOR5BJsnBjbvSVyI1WqEimp1OPKBuwi2bAFXCV9faFSe+2lB9Cws8MsgxAW7+ DU\nSOImrPHBLSJYR5CRtdBmsP1kb9QaIVa4o/Kk7UIHFzUQLIgA6Bc9BW0AiNQiENyStcQdua7U DbW7\nQ9CzWhEsyZGVVV00ZVE2lFf5rm4Y8dfV4qZl8yh4CwH9Q5axpqCM15TRKs9SEaSO0wU			

	Y9KRA28yp\nd9By055fT8/nfbvJWc5zXuRlw3lV57vML4jWhcNi5KRo6BwdP6NJlfy0jKiOdn/dEtuaJJ DxvRGz\nPGoyH8PpRpWFGf91NMZ+rEAZYaU2Y6oW0fPwdEpw+9swW5kSZSnkdv+yh8vjMZ1L4s MFGU8fwKpl\nDlpN0kOwIOyMnftW1eSUUug7BG1wCfChnNfWJK6JXE+/AJH0pUU=\n", "url": "https://10.196.205.42/http_direct_file_io/req_id-DOWNLOAD-0106062059667804/supportBundle.ta r.gz"}		
Download the support bundle	GET <pre>{url_from_the_previous_output&gt; Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-01 06062059667804/supportBundle.tar.gz</pre>		
	curl -k -u admin:infoblox -H 'content-type: application/force-download' "https://grid-master/http_direct_file_io/req_id-DOWNLOAD-0106062059667804/supportBundle.tar.g z" -o "infoblox.local_supportBundle.tar.gz"		
	# infoblox.local_supportBundle.tar.gz file is saved in the present working directory#		
	POST <wapi_url>/fileop?_function=downloadcomplete       {"token": "eJytUUFU=\n"}</wapi_url>		
Remove the stored file using the token	url -k -u admin:infoblox -H 'content-type: application/json' -X POST https://grid-master/wapi/v2.12/fileop?_function=downloadcomplete" -d '{"token" : aJytUUFuwyAQvPOR5BJsnBjbvSVyI1WqEimp1OPKBuwi2bAFXCV9faFSe+2IB9Cws8MsgxAW7+ U\nSOImrPHBLSJYR5CRtdBmsP1kb9QaIVa4o/Kk7UIHFzUQLIgA6Bc9BW0AiNQiENyStcQdua7U bW7\nQ9CzWhEsyZGVVV00ZVE2IFf5rm4Y8dfV4qZI8yh4CwH9Q5axpqCM15TRKs9SEaSO0wU 9KRA28yp\nd9By055fT8/nfbvJWc5zXuRIw3IV57vML4jWhcNi5KRo6BwdP6NJIfy0jKiOdn/dEtuaJJ xvRGz\nPGoyH8PpRpWFGf91NMZ+rEAZYaU2Y6oW0fPwdEpw+9swW5kSZSnkdv+yh8vjMZ1L4s IFGU8fwKpI\nDIpN0kOwIOyMnftW1eSUUug7BG1wCfChnNfWJK6JXE+/AJH0pUU=\n"}'		

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

# Sample paging request

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

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

Operation	REST Method	API Call
		Sample cURL Command
		Sample Output
Fetch the first 4 host records	GET	<wapi_url>/record:host?_paging=1&amp;_return_as_object=1&amp;max_results=4</wapi_url>
	curl -k -u a "https:// <mark>gri</mark>	admin:infoblox -X GET d-master/wapi/v2.12/record:host?_paging=1&_return_as_object=1&_max_results=4"
	{"next_pag "789c5590 7efcd7bf66 fb083b9b8 17b8fd1f5 277e7b96 5034416a	ge_id": )4d4ec3301085f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f23 ce2601b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6 }e4da6ee3237cd334c2313f6c8103d123b8131981ea498810e83b1d4bc998a19d2197686657ac 5a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c11504d7f5983f55b614 aa7265321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c5e0d482ce 511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad0

	7f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371",
	"result": [{"_ref": "record:host/ZG5z  mhyc3Qk  l9kZWZhdWx0I mNivhS5nhmZvI mhyc3Q:host info.com/default"
	"ipv4addrs":
	[{"_ref":
	"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uaG9zdC4xMC4x
	MC4xMC4yMC4:10.10.20/host.info.com/default",
	"host": "host info com"
	"ipv4addr": "10.10.10.20"
	}],
	"name": "host.info.com",
	"view": "default"
	}, {" ref":
	"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLnNlcnZlcjE:server1.demo.com/default",
	"ipv4addrs":
	[{"_ref":
	"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmRlbW8uc2VydmVyMS4x
	LjEuMS4yNS4.1.1.1.25/Server1.demo.com/deiauit,
	"host": "server1.demo.com".
	"ipv4addr": "1.1.1.25"
	}],
	"name": "server1.demo.com",
	, {" ref":
	"record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLm1vbml0b3I:monitor.demo.com/default",
	"ipv4addrs":
	[{"_ref": "record:bact_inv4addr/7C5zLmbvc2BfV14/DkcmV/zovQuV2DI7mE1bHQuV20tLmDlb\4/8ub\4/8ub\4/8ub\4/8ub
	record:nost_lpv4addf/2G52Lmnvc3Rf1vvRkcmv2cyQuX2Ri2mF1bHQu129tLmRibvv8ubvv9uaXRvcl4XL iEuMS41MC4:1.1.1.50/monitor.demo.com/default"
	"configure for dhcp": false.
	"host": "monitor.demo.com",
	"ipv4addr": "1.1.1.50"
	}],
	name : monitor.demo.com , "view": "default"
	<pre>view . default }.</pre>
	{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3Q:test.info.com/default",
	"ipv4addrs":
	("ref": "record:bact_inv4addr/ZC5zLmbvc2BfV14/DkcmV/zcv/QuV2DIZmE1bHQuV20tLmbvZm9udQV/zdC4vLibvMi
	1ecolu.nost_ipv4auui/2G52L1niivC5R11vvRkCniv2CyQuA2Ri2InF1bHQu129iL1niu2moudGv2uC4yLjiuivii 4xMTAu: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&amp;_return_as_object=1&amp;_page_id=789c55904d4ec3301085</wapi_url>
Query the next	GFT f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce26
set of records	01b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6fb08
	50906e40a6ee5257c0554c2515f6c81030123D8131981ea498810e83D104Dc998a190219768
6657ac17b8fd1f55a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c1150 4d7f5983f55b614277e7b96aa7265321261b084353470fca939634599b0841a304af4beb836a7 673cb5155655c5e0d482ce5034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca95 36fd87065e3a1c58ef43fe767355dad07f014b0f819a-e4718db1318cfc3099a781c541542ccd82 f4738853cf5c1a2b0b371	
---	
curl -k -u admin:infoblox -X GET "https://grid-master/wapi/v2.12/record:host?_paging=1&_return_as_object=1&_page_id=789c55904d4ec 3301085f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce260 1b70eb3ab5b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6fb083b9b8e4da 6eea3237cd334c2313f6c8103d123b8131081ea408810e83b1d4bc008a10d2107686657ac17b8fd1f55a15	
07afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c11504d7f5983f55b614277e7b96aa72 65321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c5e0d482ce5034416a511fc 931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad07f014b0f819a-e	
4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371"	
/"next nage id":	
"789c55904b6ec3300c44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef96 6c82179b051c0bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb0 10e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a9b079 24203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89924182516adac 352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b5843059717 98b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad987547f20075a a083dcfe0072798173-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e",	
"result":	
[{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnMx:s1.info.com/default", "ipv4addrs": [{" ref":	
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uczEuMTAuMTAu MTAuMjAu: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" },	
<pre>{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmgy:h2.info.com/default", "ipv4addrs": [{" ref":</pre>	
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uaDluNS41LjUuO TAu:5.5.5.90/h2.info.com/default", "configure_for_dhcp": false, "host": "h2.info.com", "ipv4addr": "5.5.5.90"	
<pre>}], "name": "h2.info.com", "view": "default" },</pre>	
<pre>{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmUy:e2.info.com/default", "ipv4addrs": [{"_ref":</pre>	
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uZTluOS45LjkuM TAwLg: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"			
	}, []]				
	{rer :	at/ZCE-I mbyo20kl l0kZWZbdWy0l mNybSEnbmZyl mDldnNl0VW/Nrdoyatook info com/dafaylt			
	"	svzG5zLmmvc3QkLi9kzvvZnuvvX0LmmvbS5pbmzvLmRidnin0+vvivi.devstack.imo.com/delaut			
	, "inv4add	rs"			
	[{" ref"				
	"record:ho	st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcvQuX2RlZmF1bHQuY29tLmluZm8uZGV2c3RhY2su			
	MTcvLil2L	EuMiAu:172.26.1.20/devstack.info.com/default",			
	"configi	ure_for_dhcp": false,			
	"host":	"devstack.info.com",			
	"ipv4ado	dr": "172.26.1.20"			
	}],				
	"name":	"devstack.info.com",			
	view": '	'default"			
	}]}				
		<wapi_url>/record:host?_paging=1&amp;_return_as_object=1&amp;_page_id=789c55904b6ec3300c44</wapi_url>			
		t7bc88b3322cd9t9t506de0445730041d6c755619b8224a3c9ed4b0a69812et966c82179b051c			
		UD0C1e4ca9e3be5835bbc5b2b0adc4094a43490efc04aba8a7a7b64c7b183bc154a799eb010e3			
	GET	01eab403154aa9e136003931173493603001114559e015170a166e400201b1069b910b9721107a9 b07024203a3006a30346afa0d8bca5027653300128a060d8382df8687173ada4b38377aa1f80			
	GEI	024182516adac352c2a61450b43385780fb7f21145dd5e1c600d836201000717360845357776a1109			
		712e7d7414b584305971798b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3			
		c769ffe3e2265555aad987547f20075aa083dcfe0072798173-a0384f2ecdda419caa42aba69cb4			
		0f4827127cd8d59201fdd873f5e			
	curl -k -u admin:infoblox -X GET				
	"https://grid-master/wapi/v2.12/record:host?_paging=1&_return_as_object=1&_page_id=789c55904b6ec				
	3300c44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0b				
	dc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36e5835b6c562bdadc4094aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36e5835b6c564bdc1e4ca9e36aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1e4ca9e36aba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1eaba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1eaba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1eaba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1eaba8a7a7b64c7b183bc154a799eb010e361eab4d3f54bdc1eaba8a7a764c7b183bc154a799eb010e361eab4d3f54bdc1eaba8a7a764c7b183bc154a799eb010e361eaba4d3f54bdc1eaba8a7a764c7b183bc154a799eb010e361eaba4d3f54bdc1eaba8a7a764c7b183bc154a799eb010e361eaba4d3f54bdc1eaba8a7a7b4c7b18aba8a7a764c7b183bc154a799eb010e361eaba4d3f54bdc1eaba8a7a7b4c7b18aba8a7a7b4c7b18aba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7ba8a7ba8a7a7b4c7b18bc16aba8a7a7b4c7b18bc16aba8a7ba8aa7ba8a7ba8a7a7b4c7b18bc16aba8a7a7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aa7ba8aaaaaa7ba8aaaaaaaa				
	aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a9b07924203a3006e3934				
Query the payt	6cta0d8bce5927653309128e060d8382dt8687173eda4b38377ea1t89924182516adac352c2a61450b433				
set of records	85780fb7f2114500561c69008fe95027c089a70f137301899712e7074140584305971798D1a08a9843090 820f43ebbaa5f61ec50b7ba687e65c73002864e3c760ffe3e226555aad087547f20075aa083dcfe0072708				
Set of records	173-20384	lf2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e"			
	/"result".				
	[{" ref"·				
	"record:host/ZG5zI mhyc3QkI l9kZWZhdWx0I mNybS5pbmZyI n.lydXRlcg:router.info.com/default".				
	"ipv4addrs":				
	[{" ref":				
	"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ucm91dGVyLjEw				
	MC4xMC4xMC4xLg:100.10.10.1/router.info.com/default",				
	"configure_for_dhcp": false,				
	"host":	"router.info.com",			
	"ipv4addr": "100.10.1"				
	}], "name": "router info.com"				
	"view": "default"				
	<pre>}]}</pre>				

# 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

	Samp	le cURL Command		
	ç			
		ample Output		
POST curl -k -u ad https://grid- {"method":'	<wapi_url>/request min:infoblox -H 'content-type:app master/wapi/v2.12/request" -d 'GET" "object":"record host" "dat</wapi_url>	[{"method": "GET", "object": "record:host", "args":{"_return_fields":"name,dns_name,aliases,dns_alia ses,ipv4addrs,configure_for_dns"}}, {"method": "GET", "object": "record:a", "data": {},"args": {}, {"method": "GET", "object": "record:ptr", "object": "record:ptr", "data": {},"args": {}] Dication/json' -X POST a":0 "args":{" return_fields":"name_dps_name_aliases.dps		
_aliases,ipv4addrs,configure_for_dns"}},{"method": "GET","object": "record:a","data": {},"args": {}},{"method": "GET"."object": "record:ptr"."data": {},"args": {}}				
<pre>[[{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",     "configure_for_dns": true,     "dns_name": "host1.test.com",     "ipv4addrs":     [{"_ref":     "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTc     yLjI2LjEuMjEu:172.26.1.21/host1.test.com/default",     "configure_for_dhcp": false,     """""""""""""""""""""""""""""""""</pre>				
	POST url -k -u ad https://grid- {"method":' aliases,ipv },{"method {"_ref": "configure "dns_nam "ipv4addrs [{"_ref": record:host [{"_ref": record:host Lj12LjEuMj "configur "host": "h	POST <wapi_url>/request url -k -u admin:infoblox -H 'content-type:app https://grid-master/wapi/v2.12/request" -d ("method":"GET","object":"record:host","data aliases,ipv4addrs,configure_for_dns"}},{("method": "GET","object": "record:host","data aliases,ipv4addrs,configure_for_dns"}},{("method": "GET","object": "record:host","data aliases,ipv4addrs,configure_for_dns"},{("method": "GET","object": "record:host","data aliases,ipv4addrs,configure_for_dns"},{("method": "GET","object": "record:host","data aliases,ipv4addr," "GET","object": "record:host","data aliases,ipv4addr," "GET","object": "record:host","data aliases,ipv4addr," "GET","object": "record:host","data aliases,ipv4addr," "GET","object": "record:host","data aliases,ipv4addr," "GET","object": "record:host","data aliases,ipv4addr," "GET","object": "record:host","data "configure_for_dns": true, "ipv4addrs": [{"_ref": "ecord:host_ipv4addr," ZG5zLmhvc3RfYWRk Lj12LjEuMjEu:172.26.1.21/host1.test.com", "host": "host1.test.com",</wapi_url>		

"ipv4addr": "172.26.1.21"
},
{"_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",
"configure_for_dns": true,
"dns_name": "mailer.info.com",
"ipv4addrs":
[{" ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcvQuMS5ib20uaW5mbv5tYWlsZXluMTAuMS4xLiE
wMC4:10.1.1.100/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"
lane . malemo.com
II record:a/ZG5zI m lphmRfVSQuX2RIZmE1bHQuX29tI mluZm8sdGVzdC5ob3N0LDE3Mi4yNi4yLiEwM
A host test info com/default"
"invladdr": "172.26.1.100"
"name": "host test info com"
"view": "default"
ι, {" ref"·
record a/ZG5zI m.lpbmRfYSQuX2RIZmE1bHQuY29tI mluZm8sc2VvdmVvI DEwI iEwI iEwI iI:server inf
o com/default"
"inv4addr"· "10 10 10 2"
"name": "server.info.com".
"view": "default"
y]
[{" ref":
"record:ptr/ZG5zLmJpbmRfcHRvJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTI3LiAuMC4xLmxvY2Fs
aG9zdA:1.0.0.127.in-addr.arpa/default".
"ptrdname": "localhost".
"view": "default"
}.
{" ref":
"record:ptr/ZG5zLmJpbmRfcHRyJC4yLmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjA
uMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMS4ubG9jYWxob3N0:1.0.0.0.0.0.0.
0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
"ptrdname": "localhost",
"view": "default.cloud"
31]

### Delete a host record

Organstian	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
	Sample Output				
Delete a Host record	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:##"},		

1				
				"assign_state": {"host_ref": "_ref"}, "enable_substitution": true,"discard": true}, { "method": "DELETE", "object": "##STATE:host_ref:##", "enable_substitution": true,"discard": true}, {"method": "STATE:DISPLAY"}]
	cur "htt "ST "rea "_ra "##	rl -k -u adr ttps://grid-i TATE:ASS ecord:host' ref"},"enab #STATE:ho	min:infoblox -H 'content-type:ap master/wapi/v2.12/request" -d '[ SIGN", "data":{"host_name":"hos ", "data": {"name":"##STATE:hos ble_substitution": true, "discard": lost_ref:##", "enable_substitution	plication/json' -X POST {"method": t1.test.com"}},{"method":"GET","object": st_name:##"},"assign_state": {"host_ref": true},{ "method": "DELETE", "object": ": true,"discard": true},{"method": "STATE:DISPLAY"}]'
	[{"h "h "rea }]	host_name host_ref": ecord:host/	e": "host1.test.com", :/ZG5zLmhvc3QkLl9kZWZhdWx	0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default"

### Get next available IP address

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

curl -k -u admin:infoblox -H 'content-type:application/json' -X POST "https://grid-master/wapi/v2.12/request" -d '[{"method": "POST","object": "record:host","data": {"configure_for_dns": false,"ipv6addrs":[{"configure_for_dhcp": false, "ipv6addr":{"_object_function":"next_available_ip","_result_field":"ips","_object" :
"ipv6network","_object_parameters":{"network":"2600:6801:1106:f00::f00/120", "network_view":"sandbox"}}}],"name": "host.demo.com","network_view": "sandbox"},"args": {"_return_fields": "name" }}]'
[{"_ref": "record:host/ZG5zLmhvc3QkLm5vbl9ETINfaG9zdF9yb290MS4wLjE1NzQxOTEwMTc2NzUuY29tLm RlbW8uaG9zdA:host.demo.com/%20%20", "name": "host.demo.com" }]

### 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>	<pre>[{"method": "POST", "object": "member", "data": {"host_name": "autojoin01.localdomain", "vip_setting": {"address": "172.16.0.160", "gateway": "172.16.0.1", "subnet_mask": "255.255.255.0"}, "config_addr_type": "IPV4", "platform": "VNIOS"}, "assign_state": {"member_ref": "_ref"}, "enable_substitution": true, "discard": true}, {"method": "PUT", "object": "##STATE:member_ref:##", "enable_substitution": true, "data": {"pre_provisioning":{"hardware_info": [{"hwmodel": "IB-VM-820",</pre>	
	<pre>"https://grid-master/wapi/v2.12/request" -d '[{"method": "POST", 'object": "member", 'data": {"host_name": "autojoin01.localdomain", 'vip_setting": {"address": "172.16.0.160", "gateway": "172.16.0.1", "subnet_mask": "255.255.255.0"}, "config_addr_type": "IPV4", "platform": "VNIOS"}, "assign_state": {"member_ref": "_ref"}, "enable_substitution": true, "discard": true}, {"method": "PUT", "object": "##STATE:member_ref:##", "enable_substitution": true, "data": {"pre_provisioning": {"hardware_info": [{"hwmodel": "IB-VM-820", "hwtype": "IB-VNIOS"}], "licenses": ["dhcp", "dns", "enterprise", "vnios", "rpz"]}}}, {"method": "STATE:DISPLAY"}]' ["member/b25lLnZpcnR1YWxfbm9kZSQy:autojoin01.infoblox", //"member.ref": "member/b25lLnZpcnR1YWxfbm9kZSQy:autojoin01.infoblox",</pre>			
Pre-provision an IB-FLEX member	POST	<wapi_url>/request</wapi_url>	[{"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": []}}, ("methed": "STATE:DISPLAY"]]
curl -k - "https:// {"host_ "172.16 "VNIOS {"metho {"pre_p "STATE	
["memt {"men	er/b25lLnZpcnR1YWxfbm9kZSQ5:flex-member1.localdomain", ber_ref": "member/b25lLnZpcnR1YWxfbm9kZSQ5:flex-member1.localdomain"}]

Enable DHCP service on a member

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
			Sample Output	
Enable the DHCP service on a	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"}]	
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/ZG5zLm1lbW.llcl9kaGNwX3Bvb3BlcnRpZXMkMQ:member1.localdomain"			
	["member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.locald {"host_ref": "member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdo "member_name": "member1.localdomain"}]			

### Get permissions for an object

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
			Sample Output	
	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"}]	
Get permissions for an object	curl -k -u a "https://gri "test.org"}] "##STATE true},{"met "STATE:DI [[{"_ref": "permissio 4Lm9uZS{ "permissio 4Lm9uZS{ "resourc "role": "E },  {"_ref": "permissio aWVzJDA -only/WRI "group": "permisss "resourc }], {"zone_na "zone_ref }] [{"host_na "host_ref "record:ho }]	admin:infoblox -H 'content-type:ap d-master/wapi/v2.12/request" -d '[ },{"method": "GET", "object": "zone :zone_name:##"},"assign_state": thod": "GET", "object": "permission ISPLAY"}]' m/b25lLmhpZXJfcnVsZSQuY29tL 5yb2xIJEROUyBBZG1pbi4:DNS% sion": "WRITE", e_type": "VIEW", DNS Admin" m/b25lLmhpZXJfcnVsZSQuY29tL uLi5jb20uaW5mb2Jsb3gub25lLm TE", "cloud-api-only", sion": "WRITE", e_type": "GRID_DNS_PROPERT me": "test.org", ": "zone_auth/ZG5zLnpvbmUkLjE me": "host1.test.com", ": st/ZG5zLmhvc3QkLl9kZWZhdWx	plication/json' -X POST {"method": "STATE:ASSIGN","data": {"zone_name": _auth","data": {"fqdn": {"zone_ref": "_ref"},"enable_substitution": true,"discard": n","enable_substitution": true },{"method": mluZm9ibG94LmRucy56b25IJC4uLi4uY29tLmluZm9ibG9 520Admin/WRITE", mluZm9ibG94LmRucy5jbHVzdGVyX2Ruc19wcm9wZXJ0 FkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api IES" Sub3JnLnRlc3Q:test.org/default.test"	

### Add multiple subnets

Operation	REST Method	API Call	Sample Body
	Sample cURL Command		
			Sample Output
Create multiple subnets	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"}}]
curl -k -u a "https://grid "10.10.10.10.10.10.10.10.10.10.10.10.10.1	idmin:infoblox -H 'content-type:application/json' -X POST d-master/wapi/v2.12/request" -d '[{"method": "POST","object": "network","data": {"network": 0/24"}},{"method": "POST", "object": "network","data": {"network": 0/24"}},{"method": "POST","object": "network","data": {"network": "10.10.30.0/24"}}]'
["network/2 "network/2 "network/2	ZG5zLm5ldHdvcmskMTAuMTAuMTAuMC8yNC8w:10.10.10.0/24/default", ZG5zLm5ldHdvcmskMTAuMTAuMjAuMC8yNC8w:10.10.20.0/24/default", ZG5zLm5ldHdvcmskMTAuMTAuMzAuMC8yNC8w:10.10.30.0/24/default"]

# Add multiple host record

Orantian	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
			Sample Output	
Create multiple host records	POST	<wapi_url>/request</wapi_url>	<pre>[{"method": "POST", "object": "record:host", "data": {"name":"host-1.info.com",</pre>	
	curl -k -u a "https://griv {"name":"h "_ref"},"ena {"name":"h "_ref"},"ena [{"host1_ref	dmin:infoblox -H 'content-type:ap d-master/wapi/v2.12/request" -d '[ lost-1.info.com","ipv4addrs": [{"ipv able_substitution": true,"discard": lost-2.info.com", "ipv4addrs": [{"ip able_substitution": true,"discard": af":	plication/json' -X POST {"method": "POST","object": "record:host","data": <sup>(</sup> 4addr":"10.10.10.21"}]},"assign_state": {"host1_ref": true},{"method": "POST","object": "record:host","data": v4addr":"10.10.10.22"}]},"assign_state": {"host2_ref": true},{"method": "STATE:DISPLAY"}]'	
	"record:ho "host2_re "record:ho	st/ZG5zLmhvc3QkLl9kZWZhdWx sf": st/ZG5zLmhvc3QkLl9kZWZhdWx	0LmNvbS5pbmZvLmhvc3QtMQ:host-1.info.com/default", 0LmNvbS5pbmZvLmhvc3QtMg:host-2.info.com/default"}]	

Add network using next available network

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

function within a network container with the EA Site set to "test"			<pre>"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:##"      } },</pre>
			"enable_substitution": true}, {"method": "STATE: DISPLAY"}]
	curl -k -u a "https://grid {"*Site:": "t "network",' "next_avai "##STATE: [ [ "n ]	dmin:infoblox -H 'content-type:ap d-master/wapi/v2.12/request" -d '[ est"}, "assign_state": {"netw_ref": 'data":{"network":{"_object_functio lable_network","_result_field":"net :netw_ref:##"} },"enable_substituti etwork/ZG5zLm5ldHdvcmskMTky	<pre>clication/json' -X POST { "method": "GET", "object": "networkcontainer", "data":     "_ref"}, "discard": true}, { "method": "POST", "object":     on":     works", "_parameters": { "cidr":24 }, "_object_ref":     on": true}, {"method": "STATE: DISPLAY"}]' /LjE2OC4xLjAvMjQvMA:192.168.1.0/24/default"</pre>

# Sample Codes

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

## Python

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

Network Object	REST Operation	Sample Python Programme
HOST record	GET	<pre>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)</pre>
	GET	<pre>#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)</pre>
	GET	<pre>#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"</pre>

	<pre>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</pre>
POST	<pre>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)</pre>
POST (using the 'session' method that automatically handles the session cookies, etc when you perform multiple POST/GET)	<pre>import requests import getpass requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://grid-master/wapi/v2.12" # Get username and password for auth # user = input('Username: ') passwd = getpass.getpass('Password: ') wapi_session = requests.session() wapi_session.auth = ('user', 'passwd') payload = '{"name":"host.info.com","ipv4addrs": [{"ipv4addr":"172.26.1.20"}]}' headers = { 'content-type': "application/json" } # WAPI call POST /record:host # response = wapi_session.post(wapi_url+"/record:host?_return_as_object=1", data=payload, headers=headers, auth=(user, passwd), verify=False) # Error handling # if response.status_code == 201: print("Success.") else: print("Failed.") print(response.text)</pre>
PUT	<pre>import requests requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZ vLmhvc3Qx: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()

, ,	"https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZ vLmhvc3Qx:host.info.com/default?_return_as_object=1" headers = {'content-type': "application/json"}
	response = requests.request("DELETE", url, auth=('admin', 'Infoblox'), headers=headers,
, in the second s	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	<pre>function Ignore-SelfSignedCerts {     try     {         Write-Host "Adding TrustAllCertsPolicy type." -ForegroundColor White         Add-Type -TypeDefinition @"         using System.Net;         using System.Security.Cryptography.X509Certificates;         public class TrustAllCertsPolicy : ICertificatePolicy         {             public bool CheckValidationResult(                 ServicePoint srvPoint, X509Certificate certificate,                 WebRequest request, int certificateProblem)             {                  return true;                 }</pre>

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

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         \$url =         "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvL         mhvc3Qx:host.info.com/default?_return_as_object=1"         \$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force         PUT       \$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         Ignore-SelfSignedCerts         \$url =         "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvL         mhvc3Qx:host.info.com/default?_return_as_object=1"         \$url =       "https://grid-master/wapi/v2.12/			
Ignore-SelfSignedCerts         \$url =         "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLI9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1"         \$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force         PUT       \$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         Ignore-SelfSignedCerts         \$url =         "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLI9kZWZhdWx0LmNvbS5pbmZvL         mhvc3Qx: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		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         \$url =         "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvL         DELETE       mhvc3Qx: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		PUT	Ignore-SelfSignedCerts \$url = "https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLI9kZWZhdWx0LmNvbS5pbmZvL mhvc3Qx: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/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvL mhvc3Qx: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 Operation	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/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvb S5pbmZvLmhvc3Qx: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 =</jsonnode>
		Unirest.delete("https://grid-master/wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmN
		vbS5pbmZvLmhvc3Qx:host.info.com/default?_return_as_object=1")
		header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=")
		header("accept", "application/json")
		header("content-type", "application/json")
		.body("{\"name\":\"host1.info.com\"}")
		.asJson();

# Using Java OkHttpClient

Network Object	REST Operation	Sample Java OkHttpClient Code
HOST record	GET	OkHttpClient client = new OkHttpClient(); Request request = new Request.Builder() .url("https://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\",\"ipv4addr\":[{\"ipv4addr\":\"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/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbm ZvLmhvc3Qx: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/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbm ZvLmhvc3Qx: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 Operation	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 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;
	POST	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?_return_as_object=1",Method.POST); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); request.AddHeader("content-type", "application/json"); request.AddParameter("application/json", "{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"]}", ParameterType.RequestBody); IRestResponse response = client.Execute(request); var results = response.Data;
	PUT	ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("grid-master"); var request = new RestRequest("wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc 3Qx:host.info.com/default?_return_as_object=1",Method.PUT); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); request.AddHeader("content-type", "application/json"); request.AddParameter("application/json", "{\"name\":\"host1.info.com\"}", ParameterType.RequestBody); IRestResponse response = client.Execute(request); var results = response.Data;
	DELETE	ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("grid-master"); var request = new RestRequest("wapi/v2.12/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc 3Qx: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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