



Infoblox REST API

NIOS 8.3



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Introduction

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

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

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

General Syntax and Options

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

URL

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

The URL syntax is *<grid_IP>wapi/v<major.minor>*, e.g. x.x.x.x/wapi/v2.4/. The current version of the API is 2.7. If you need to use a patch release, you can specify it as vx.x.x (like v2.6.1)

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

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

Arguments

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

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

Data (Body)

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

Example



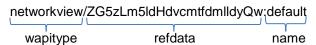
Object Reference

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

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

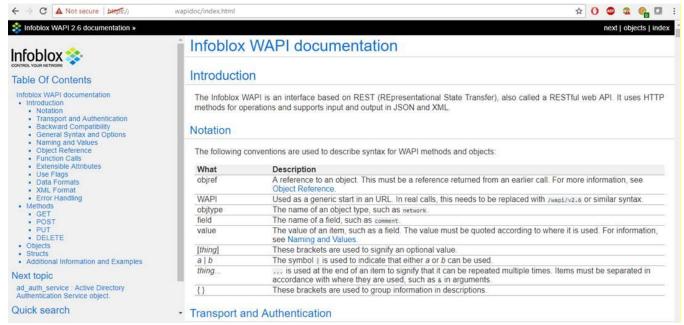
wapitype | refdata [: name1 [{ | nameN }...]]

Example

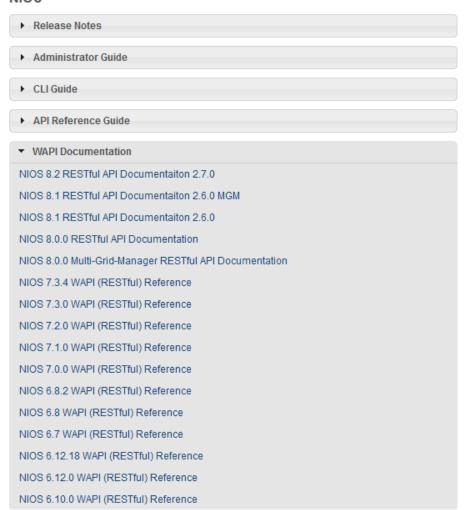


Documentation

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



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



Common scenarios

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

Points to remember

- This document will cover the most common use cases. It will not cover all the APIs available. For any additional information, please refer to the WAPI documentation.
- For each of the use cases, it will cover the API call and corresponding cURL commands.
- The Sample Codes section contains sample Python, Powershell, Java and C# code.
- In the following WAPI Samples, the guide uses a base url referenced as <wapi_url>. Replace it with https://<grid_master_ip>/wapi/<wapi_version> or https://<grid_master_fqdn>/wapi/wapi_version. Example: https://x.x.x.x/wapi/v2.7 or https://this.is.a.test.com/wapi/wapi_version
- In the sample cURL commands, replace the text in red with values specific to your environment.
- By default, all the fields are not returned during a GET request. You can use the _return_fields argument
 to get the desired data. You would have to explicitly mention the additional fields you require with a
 _return_fields+=<requiredfield>
- You can set _return_as_object argument to 1. This will change the format of the JSON output to make it easy to parse by 3rd party libraries. It is recommended to set this as it standardizes the JSON format and is less error prone.
- Set the _max_results option to 1 when you need to stop a search on the first match. This results in a huge performance and speed improvement in large environments.
- When a search result yields a large number of results, you can use paging.
 - To start a paging request, the initial search request must have _paging and _return_as_object set to 1, and _max_results set to the desired page size.
 - The returned results object will contain the next_page_id field and the result field set to the first page of results. Note that the next_page_id field only contains URL-safe characters so it can be used as is and no quotation characters are required for subsequent requests.
 - To get the subsequent results, you can re-send GET requests to the original object and set _page_id to the ID string returned in the previous page of results.
 - o For a sample request, refer to Sample paging request
- When making POST, or PUT requests, it is easier to send the data as 'application/json' in the body of the message, since it lets you send complex data structures in the payload.
- Field and argument values must be quoted according to where they are used.
 Examples:
 - URL args, x-www-form-urlencoded:
 Use %xx encoding for "%", ";", "/", "?", ":", "@", "&", "=", "+", "\$", "," and " " (a space)
 - JSON Data:
 Use JSON quoting, as specified at http://json.org
 - XML Data: Use XML quoting (& amp; etc.) as needed for XML.
- In the following examples, '+' is encoded as %2B, ':' as %3A, '<' as 3C, '>' as 3E
- The following examples include a sample output for each API call. This data is only representative of the test environment. "...." indicates that there are more records returned than mentioned.
- By default, the output of POST, PUT, and DELETE contains the _ref of the concerned object.
- PUT and DELETE operations require ref of the object you are working with.
 - In the following WAPI Samples, the text highlighted in green indicates an object reference specific to the test environment. Please replace it with the object reference specific to your environment. Example: In
 - {wapi_url}/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.com/default
 - replace with {wapi url}/< ref>
 - You can get the _ref by performing a GET operation.
- If a field is of type BOOLEAN, do not quote the word. Example: "is_default":true

- Some fields are associated with a corresponding boolean flag value that has the prefix *use_*. For example, *ttl* is associated with the flag *use_ttl*. In an object, the value of this field will only take effect when its use flag is *true*. Otherwise, the value will be inherited from a higher level setting.
- While searching for network objects, you can filter the data using regular expressions. You would need to specify the ~ modifier to indicate you are querying with a regular expression.
 - o A search argument can use the following modifiers

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

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

Access

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

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

Authentication

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

WAPI supports only HTTP Basic Authentication. You can use the connection for issuing multiple requests. In the case of multiple requests, authentication is handled by supplying the cookie (ibapauth) that was returned after the initial authentication. The IBAPAUTH cookie is sent back by the server to avoid repeat authentication requests. It is sent as an HTTPONLY, SECURE cookie.

Example: set-cookie: ibapauth="ip=127.0.0.1,client=API,group=admin-

group,ctime=1446631868,timeout=600,mtime=1446631868,su=1,auth=LOCAL,user=admin,NlxMltsoxDNvBWKrf OMy+uxUMWS3guCB4yU"

This cookie can be invalidated by sending a POST request to /wapi/v2.7/logout

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

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Com	mand	
		Sample Outpu	t	
	curl -k -u adr	min:Infoblox -c cookies.txt -X GET "https://127.0.0.1/	/wapi/v2.7/record:host?_return_as_object=1"	
A sample API call (Get host records) to save the cookie generated to a file called cookies.txt	"ipv4addrs [{ "_ref": "record:host, MjAwLg:172 "configu "host": ' "ipv4adds }], "name": "h "view": "de }, {"_ref": "record:host, MS4xMDAu: "configu "host": " "ipv4adds }],	_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZml .26.1.200/host1.test.com/default", ure_for_dhcp": false, 'host1.test.com", dr": "172.26.1.200" host1.test.com", efault" cord:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5 ": _ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZml 160.20.1.100/printer.info.com/default", re_for_dhcp": false, printer.info.com", dr": "160.20.1.100"	F1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjl2LjEu pbmZvLnByaW50ZXI:printer.info.com/default",	
A sample API call (Get zones) to show how to use the generated cookie from cookies.txt	curl -k -b cookies.txt -X GET "https://127.0.0.1/wapi/v2.7/zone_auth_return_as_object=1" {"result": [{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS50ZXN0:test.com/default", "fqdn": "test.com", "view": "default" }]}			
	PUT	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox</wapi_url>	{"security_setting": {"session_timeout": 60000}}	
Modify the session timeout	"https://127.0 rity_setting" {"result":	okies.txt -H 'content-type: application/json' -X PUT D.0.1/wapi/v2.7/grid/b25lLmNsdXN0ZXlkMA:Infoblov -d '{"security_setting":{"session_timeout": 60000}}' id/b25lLmNsdXN0ZXlkMA:Infoblox", setting": n_access_items": [], s_log_rolling_enable": true, redirect_enable": false, nput_enable": true, _banner_enable": true,	?_return_as_object=1&_return_fields%2B=secu	

	"login_banner_text": "Disconnect NOW if you have not been expressly authorized to use this system.",				
		re_console_access_enable": false,			
	"secu	rity_access_enable": false,			
	"secu	rity_access_remote_console_enable": true,			
	"sess	on_timeout": 600000,			
	"ssh_perm_enable": true,				
	"support_access_enable": false,				
	"support_access_info": "Not enabled"				
	}}}				
Invalidate a cookie	<wapi_url>/logout</wapi_url>				
mivalidate a cookie	kies.txt -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/logout"				

Schema

The _schema argument returns the WAPI schema.

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

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

GET	Sample cURL Command Sample Output
GET	Sample Output
GET	
	<wapi_url>/?_schema</wapi_url>
	dmin:Infoblox -X GET 7.0.0.1/wapi/v2.7/?_schema&_return_as_object=1"
"support ["ad_au "admin "admin "zone_ "zone_ "zone_], "support ["1.0","	_delegated", _forward", _rp",
	<pre><wapi_url>/record:host?_schema dmin:Infoblox -X GET 7.0.0.1/wapi/v2.7/record:host?_schema&_return_as_object=1"</wapi_url></pre>
	"https://127 {"result": {"requeste"

```
{"result":
 {"cloud_additional_restrictions":
  ["function call"],
  "fields":
  [{"is_array": true,
  "name": "aliases",
   "standard_field": false,
   "supports": "rwu",
   "type": ["string"]
  },
  {"is_array": false,
  "name": "allow_telnet",
   "standard_field": false,
   "supports": "rwu",
   "type": ["bool"]
   {"is_array": false,
   "name": "zone",
   "searchable_by": "=",
   "standard_field": false,
   "supports": "rs",
   "type": ["string"]
  }],
  "restrictions": [],
  "type": "record:host",
  "version": "2.7"
}}
```

Extensible Attributes

Extensible Attributes			
	REST Method	API Call	Sample Body
Operation		Sample cURL	Command
		Sample O	utput
	GET	<wapi_url>/extensibleattributedef</wapi_url>	
	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/extensibleattributedef?_return_as_object=1"		
Get the definition of the Extensible Attributes	ding",	ttributedef/b25lLmV4dGVuc2libGVfY) value": null,	KR0cmlidXRlc19kZWYkLkJ1aWxkaW5n:Buil
	"name": " "type": "S }, {"_ref":	_	
	GU:Reportin "default_v		KR0cmlidXRlc19kZWYkLlJlcG9ydGluZ1Npd

	"type": "E	NII IM"		
	}}}			
	POST	<wapi_url>/extensibleattributedef</wapi_url>	{"name": "Owner", "type": "STRING"}	
Create "Owner" Extensible Attribute of type	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/extensibleattributedef? _return_fields%2B=name,type&_return_as_object=1" -d '{"name": "Owner","type": "STRING"}'			
String	{"result": {"_ref": "extensibleattributedef/b25lLmV4dGVuc2libGVfYXR0cmlidXRlc19kZWYkLk93bmVy:Owner", "default_value": null, "name": "Owner", "type": "STRING" }}			
	POST	<wapi_url>/extensibleattributedef</wapi_url>	{"name": "Location", "type": "ENUM", "list_values": [{"value": "Santa Clara"}, {"value": "Tacoma"}, {"value": "Bangalore"}, {"value": "Mumbai"}]}	
Create a "Location" Extensible Attribute of type list with possible values Santa Clara, Tacoma, Bangalore, Mumbai	"https://127.0 _return_field "ENUM","list	min:Infoblox -H 'content-type: applicat 0.0.1/wapi/v2.7/extensibleattributedef s%2B=name,type&_return_as_objec _values": [{"value": "Santa Clara"},{"v ,{"value": "Mumbai"}]}'	? t=1" -d '{"name": "Location","type":	
	{"result": {"_ref": "extensibleat ation", "default_va" "name": "L "type": "EN }}	alue": null, ocation",	XR0cmlidXRlc19kZWYkLkxvY2F0aW9u:Loc	

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/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN 0Lmhvc3Qx: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://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/def ault?_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	"extattrs"	on": {"value": "Santa Clara"} s": st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3Q .200/host1.test.com/default", ure_for_dhcp": false, 'host1.test.com", dr": "172.26.1.200"					

DNS-related scenarios

Zones

	Operation	REST Method	API Call	Sample Body (for POST and PUT)
Zone type		Sample cURL Command		
		Sample Output		
	Fetch information	GET	<wapi_url>/zone_auth</wapi_url>	
Authoritative Zone		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone_auth?_return_as_object=1"		
		{"result": [{"_ref": "zo	one_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmN	vbS50ZXN0:test.com/default",

		"fqdn": "test.com", "view": "default" }]}		
		POST	<wapi_url>/zone_auth</wapi_url>	{"fqdn": "info.com"}
	Overte		min:Infoblox -H 'content-type: application/json' 0.0.1/wapi/v2.7/zone_auth?_return_fields%2B	
	Create	{"result":		vbS5pbmZv:info.com/default",
		POST	<wapi_url>/zone_auth</wapi_url>	{"fqdn": "10.10.10.in-addr.arpa ", "zone_format":"IPV4"}
	Create IPV4	"https://127.	min:Infoblox -H 'content-type: application/json' 0.0.1/wapi/v2.7/zone_auth?_return_fields%2B -addr.arpa","zone_format":"IPV4"}'	
	reverse mapping zone	ault",	0.10.10.0/24",	V4tYWRkci4xMC4xMC4xMA:10.10.10.0%2F24/def
		PUT	<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9 kZWZhdWx0LmNvbS5pbmZv:info.com/def ault</wapi_url></pre>	{"grid_primary":[{"name":"infoblox.localdomain"}]}
	Modify	"https://127. eturn_fields	I min:Infoblox -H 'content-type: application/json' 0.0.1/wapi/v2.7/zone_auth/ZG5zLnpvbmUkLls %2B=fqdn,grid_primary&_return_as_object=1' ary":[{"name":"infoblox.localdomain"}]}'	0kZWZhdWx0LmNvbS5pbmZv:info.com/default?_r
		"fqdn": "int "grid_prim	ary": "infoblox.localdomain", : false	vbS5pbmZv:info.com/default",
	Delete	DELETE	<pre><wapi_url>/zone_auth/ZG5zLnpvbmUkLl9 kZWZhdWx0LmNvbS5pbmZv:info.com/def ault</wapi_url></pre>	
				-X DELETE 0kZWZhdWx0LmNvbS5pbmZv:info.com/default&?_
		{"result": "zo	one_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmN	lvbS5pbmZv:info.com/default"}

		GET	<wapi_url>/zone_forward</wapi_url>	
	Fetch information	curl -k -u ad	l <mark>min:Infoblox</mark> -X GET "https://127.0.0.1/wapi/v2	2.7/zone_forward?_return_as_object=1"
		"forward_ [{"addres "name" }],	to": ss": "172.26.1.10", : "host.forwardtest.com"	mb3J3YXJkdGVzdA:forwardtest.com/default",
		POST	<wapi_url>/zone_forward</wapi_url>	{"fqdn":"infoblox.com", "forward_to":[{"address":"10.10.10.11", "name":"host.infoblox.com"}]}
		"https://127.	Imin:Infoblox -H 'content-type: application/json' 0.0.1/wapi/v2.7/zone_forward?_return_as_objoblox.com","forward_to":[{"address":"10.10.10.	iect=1" -d
Forward Zone	Create	"forward_t [{"addres "name": }],	to": s": "10.10.10.11", "host.infoblox.com"	mNvbS5pbmZvYmxveA:infoblox.com/default",
	Modify	PUT	<pre><wapi_url>/zone_forward/ZG5zLnpvbmUk LI9kZWZhdWx0LmNvbS5pbmZvYmxveA:i nfoblox.com/default</wapi_url></pre>	{"forwarding_servers": [{"name":"infoblox.localdomain"}]}
		"https://127. com/default [{"name":"in {"result":	?_return_fields%2B=forwarding_servers&_retifoblox.localdomain"}]}' nne_forward/ZG5zLnpvbmUkLl9kZWZhdWx0Lito": s": "10.10.10.11", "host.infoblox.com" g_servers": d_to": [], lers_only": false, "infoblox.localdomain", erride_forwarders": false	kLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.

	Delete	"https://127.com/default	?_return_as_object=1"	-X DELETE kLI9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox. mNvbS5pbmZvYmxveA:infoblox.com/default"}		
			T			
		GET	<pre><wapi_url>/zone_delegated</wapi_url></pre>			
	Fetch information	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone_delegated?_return_as_object=1" {"result": [{"_ref": "zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3Q:test.info.com/def "delegate_to": [{"address": "172.26.1.100",				
	Create	POST	<wapi_url>/zone_delegated</wapi_url>	{"fqdn":"demo.info.com", "delegate_to":[{"address":"10.10.10.20", "name":"host.demo.info.com"}]}		
Zone Delegation		"https://127. '{"fqdn":"der {"result": {"_ref": "zon "delegate_t [{"address' "name": " }],	no.info.com","delegate_to":[{"address":"10.10. e_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0lo": ': "10.10.10.20", host.demo.info.com"	s%2B=fqdn,delegate_to&_return_as_object=1" -d		
		}}	<pre><wapi_url>/zone_delegated/ZG5zLnpvbm</wapi_url></pre>			
		PUT	UkLl9kZWZhdWx0LmNvbS5pbmZvLmRlb W8:demo.info.com/default	{"locked":true}		
	Modify	"https://127.	min:Infoblox -H 'content-type: application/json' 0.0.1/wapi/v2.7/zone_delegated/ZG5zLnpvbmdefault?_return_fields=locked&_return_as_objections.	nUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:dem		
		-	gated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvb\$ rue	S5pbmZvLmRlbW8:demo.info.com/default",		
	Delete	DELETE	<pre><wapi_url>/zone_delegated/ZG5zLnpvbm UkLl9kZWZhdWx0LmNvbS5pbmZvLmRlb W8:demo.info.com/default</wapi_url></pre>			

curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:dem o.info.com/default?_return_as_object=1"
{"result": "zone_delegated/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8:demo.info.com/default"}

The most common record types

Record	Operation	REST Method	API Call	Sample Body (for POST and PUT)
type			Sample cURL Comn	nand
			Sample Output	
		GET	<wapi_url>/record:host</wapi_url>	
		curl -k -u a	dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/rec	ord:host?_return_as_object=1"
HOST	Fetch information	"ipv4ado [{ "_ref". "record:hos EuMjAwLg "config "host" "ipv4ado], "name": "view": ", }, {"_ref": "record:hos "ipv4addi [{"_ref": "record:hos AuMS4xMI "config "host": "ipv4ad }], "name":	: st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZm :172.26.1.200/host1.test.com/default", gure_for_dhcp": false, : "host1.test.com", addr": "172.26.1.200" "host1.test.com", default" st/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLr rs":	F1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjl2Lj nByaW50ZXI:printer.info.com/default", F1bHQuY29tLmluZm8ucHJpbnRlci4xNjAuMj
		POST	<wapi_url>/record:host</wapi_url>	{"name":"host.info.com", "ipv4addrs": [{"ipv4addr":"10.10.10.20"}]}
	Create	"https://127	dmin:Infoblox -H 'content-type: application/json' -X PC 7.0.0.1/wapi/v2.7/record:host?_return_fields%2B=nam lost.info.com","ipv4addrs": [{"ipv4addr":"10.10.10.20"}	ne,ipv4addrs&_return_as_object=1" -d
	{"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/defau"ipv4addrs":			

	[{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ua0xMC4yMC4:10.10.10.20/host.info.com/default", "configure_for_dhcp": false, "host": "host.info.com", "ipv4addr": "10.10.10.20" }], "name": "host.info.com", "view": "default" }}			F1bHQuY29tLmluZm8uaG9zdC4xMC4xMC4
		PUT	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZh dWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/def ault</wapi_url></pre>	{"name":"host1.info.com"}
		"https://127	dmin:Infoblox -H 'content-type: application/json' -X PL '.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZW t?_return_fields%2B=name&_return_as_object=1" -d	ZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.
	Modify	"ipv4addr: [{"_ref": "record:hos AuMTAuMj "configu "host": " "ipv4add	st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZml Au:10.10.10.20/host1.info.com/default", ire_for_dhcp": false, host1.info.com", dr": "10.10.10.20"	
		DELETE	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZh dWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/ default</wapi_url></pre>	
	Delete	"https://127	dmin:Infoblox -H 'content-type: application/json' -X DE 7.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZW2 ult?_return_as_object=1"	
		`	ecord:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5	pbmZvLmhvc3Qx:host1.info.com/default"}
		GET	<pre><wapi_url>/record:a</wapi_url></pre>	prd:22 return as object-1"
A	Fetch information	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:a?_return_as_object=1" {"result": [{"_ref": "record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host .test.info.com/default", "ipv4addr": "172.26.1.100", "name": "host.test.info.com", "view": "default" }]}		
	Create	POST	<wapi_url>/record:a</wapi_url>	{"name":"server.info.com", "ipv4addr":"10.10.10.2"}

		"https://127	dmin:Infoblox -H 'content-type: application/json' -X PC 7.0.0.1/wapi/v2.7/record:a?_return_fields%2B=name,i erver.info.com","ipv4addr":"10.10.10.2"}'		
		m/default", "ipv4add	G5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8s r": "10.10.10.2", 'server.info.com", default"	c2VydmVyLDEwLjEwLjI:server.info.co	
		PUT	<pre><wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RIZ mF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLj EwLjl:server.info.com/default</wapi_url></pre>	{"name":"server1.info.com"}	
		"https://127 LjEwLjEwL	dmin:Infoblox -H 'content-type: application/json' -X PU 7.0.0.1/wapi/v2.7/record:a/ZG5zLmJpbmRfYSQuX2Rl jl:server.info.com/default?_return_fields%2B=name&_iserver1.info.com"}	ZmF1bHQuY29tLmluZm8sc2VydmVyLDEw	
	Modify	nfo.com/de "ipv4add	r": "10.10.10.2", 'server1.info.com",	c2VydmVyMSwxMC4xMC4xMC4y:server1.i	
		DELETE	<pre><wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RIZ mF1bHQuY29tLmluZm8sc2VydmVyMSwxMC4x MC4xMC4y:server1.info.com/default</wapi_url></pre>		
	Delete	"https://127	dmin:Infoblox -H 'content-type: application/json' -X DE 7.0.0.1/wapi/v2.7/record:a/ZG5zLmJpbmRfYSQuX2RlxMC4y:server1.info.com/default?_return_as_object=1	ZmF1bHQuY29tLmluZm8sc2VydmVyMSwx	
		{"result": "record:a/Z nfo.com/de	:G5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8s efault"}	c2VydmVyMSwxMC4xMC4xMC4y:server1.i	
		GET	<wapi_url>/record:aaaa</wapi_url>		
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:aaaa?_return_as_object=1" {"result":			
AAAA	Fetch information	[{"_ref": "record:aaa jo:host.test "ipv6ado	aa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bHQuY29tl com/default", dr": "fd60:e45:e31b::", "host.test.com", default	_nRlc3QsaG9zdCxmZDYwOmU0NTplMzFiO	
	Create	POST	<wapi_url>/record:aaaa</wapi_url>	{"name":"server.info.com", "ipv6addr":"fd60:e32:f1b9::2"}	

		"https://127	dmin:Infoblox -H 'content-type: application/json' -X PC 7.0.0.1/wapi/v2.7/record:aaaa?_return_fields%2b=nan server.info.com","ipv6addr":"fd60:e32:f1b9::2"}'		
		jk6Ojl:serv "ipv6add	aa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bHQuY29tl er.info.com/default", r": "fd60:e32:f1b9::2", 'server.info.com", default"	LmluZm8sc2VydmVyLGZkNjA6ZTMyOmYxY	
		PUT	<pre><wapi_url>/record:aaaa/ZG5zLmJpbmRfYWFhYS QuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLGZ kNjA6ZTMyOmYxYjk6Ojl:server.info.com/default</wapi_url></pre>	{"name":"server1.info.com"}	
		"https://127 mVyLGZkN	dmin:Infoblox -H 'content-type: application/json' -X PL 7.0.0.1/wapi/v2.7/record:aaaa/ZG5zLmJpbmRfYWFhY NjA6ZTMyOmYxYjk6Ojl:server.info.com/default?_retu "server1.info.com"}'	/SQuX2RIZmF1bHQuY29tLmluZm8sc2Vyd	
	Modify	mMWI5Ojo "ipv6add	aa/ZG5zLmJpbmRfYWFhYSQuX2RIZmF1bHQuY29tl by:server1.info.com/default", r": "fd60:e32:f1b9::2", 'server1.info.com", default"	LmluZm8sc2VydmVyMSxmZDYwOmUzMjp	
	Delete	DELETE	<pre><wapi_url>/record:aaaa/record:aaaa/ZG5zLmJpb mRfYWFhYSQuX2RIZmF1bHQuY29tLmluZm8sc 2VydmVyMSxmZDYwOmUzMjpmMWI5Ojoy:serv er1.info.com/default</wapi_url></pre>		
		"https://127	dmin:Infoblox -H 'content-type: application/json' -X DE 7.0.0.1/wapi/v2.7/record:aaaa/ZG5zLmJpbmRfYWFhYZDYwOmUzMjpmMWI5Ojoy:server1.info.com/default	/SQuX2RIZmF1bHQuY29tLmluZm8sc2Vyd	
			aa/ZG5zLmJpbmRfYWFhYSQuX2RlZmF1bHQuY29tl by:server1.info.com/default"}	LmluZm8sc2VydmVyMSxmZDYwOmUzMjp	
		GET	<wapi_url>/record:cname</wapi_url>		
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:cname?_return_as_object=1"			
CNAME	Fetch information	"canonic	ame/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmN cal": "cnametest.com", "test.test.com", default"	vbS50ZXN0LnRlc3Q:test.test.com/default",	
	Create	POST	<wapi_url>/record:cname</wapi_url>	{"name":"cnametest.demo.info.com", "canonical":"demo.info.com"}	

	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:cname?_return_fields%2B=name,canonical&_return_as_obj '{"name":"cnametest.demo.info.com","canonical":"demo.info.com"}'			
		metest.dem "canonica	nme/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNno.info.com/default", no.info.com/default", al": "demo.info.com", cnametest.demo.info.com", lefault"	vbS5pbmZvLmRlbW8uY25hbWV0ZXN0:cna
		PUT	<pre><wapi_url>/record:cname/ZG5zLmJpbmRfY25hb WUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8u Y25hbWV0ZXN0:cnametest.demo.info.com/defau It</wapi_url></pre>	{"name":"cname.demo.info.com "}
	Modify	"https://127 bW8uY25h	dmin:Infoblox -H 'content-type: application/json' -X PU .0.0.1/wapi/v2.7/record:cname/ZG5zLmJpbmRfY25hlbWV0ZXN0:cnametest.demo.info.com/default?_retur"cname.demo.info.com"}'	bWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRl
		mo.info.cor "canonica	al": "demo.info.com", cname.demo.info.com",	vbS5pbmZvLmRlbW8uY25hbWU:cname.de
		DELETE	<pre><wapi_url>/record:cname/ZG5zLmJpbmRfY25hb WUkLl9kZWZhdWx0LmNvbS5pbmZvLmRlbW8u Y25hbWU:cname.demo.info.com/default</wapi_url></pre>	
	Delete	curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvLmRl bW8uY25hbWU:cname.demo.info.com/default?_return_as_object=1"		
		{"result": "record:cna mo.info.cor	me/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmN n/default"}	vbS5pbmZvLmRlbW8uY25hbWU:cname.de
		GET	<wapi_url>/record:mx</wapi_url>	
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:mx?_return_as_object=1"		
MX	Fetch information	mail.test.co "mail_ex	changer": "host1.test.com", "mail.test.com", nce": 1,	J0Lm1haWwuaG9zdDEudGVzdC5jb20uMQ:

		POST	<wapi_url>/record:mx</wapi_url>	{"mail_exchanger":"exchange.info.com", "name":"mx.info.com","preference":1}	
	Create	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:mx?_return_fields%2B=mail_exchanger,name&_return_as_object=1" -d '{"mail_exchanger":"exchange.info.com","name":"mx.info.com","preference":1}'			
		x.info.com/ "mail_ex	changer": "exchange.info.com", "mx.info.com", nce": 1,	ZvLm14LmV4Y2hhbmdlLmluZm8uY29tLjE:m	
		PUT	<pre><wapi_url>/record:mx/ZG5zLmJpbmRfbXgkLl9kZ WZhdWx0LmNvbS5pbmZvLm14LmV4Y2hbbmdl LmluZm8uY29tLjE:mx.info.com/default</wapi_url></pre>	{"name":"mail.info.com "}	
		"https://127 hbmdlLmlu	dmin:Infoblox -H 'content-type: application/json' -X PU 7.0.0.1/wapi/v2.7/record:mx/ZG5zLmJpbmRfbXgkLl9k IZm8uY29tLjE:mx.info.com/default?_return_fields%2E nail.info.com"}'	xZWZhdWx0LmNvbS5pbmZvLm14LmV4Y2h	
	Modify	uMQ:mail.i "mail_ex		ZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20	
		DELETE	<pre><wapi_url>/record:mx/ZG5zLmJpbmRfbXgkLl9kZ WZhdWx0LmNvbS5pbmZvLm1haWwuZXhjaGFu Z2UuaW5mby5jb20uMQ:mail.info.com/default</wapi_url></pre>		
	Delete	"https://127	dmin:Infoblox -H 'content-type: application/json' -X DE 7.0.0.1/wapi/v2.7/record:mx/ZG5zLmJpbmRfbXgkLl9kuaW5mby5jb20uMQ:mail.info.com/default?_return_as	zZWZhdWx0LmNvbS5pbmZvLm1haWwuZXh	
			/ZG5zLmJpbmRfbXgkLl9kZWZhdWx0LmNvbS5pbm2nfo.com/default"}	ZvLm1haWwuZXhjaGFuZ2UuaW5mby5jb20	
		GET	<wapi_url>/record:ns</wapi_url>		
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:ns?_return_as_object=1"			
NS	Fetch information	/0.0.127.in "name": '	ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFycGEuaW -addr.arpa/default", "0.0.127.in-addr.arpa", rver": "cluster", default"		

```
{"_ref":
           record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4
           wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMS4uY2x1c3Rlcg:cluster/1.0.0.0.0.0.
           "nameserver": "cluster",
             "view": "default"
           },
           {"_ref":
           "record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3QuaG9zdC50ZXN0LmluZm8uY29t:
           host.test.info.com/test.info.com/default",
            "name": "test.info.com",
            "nameserver": "host.test.info.com",
            "view": "default"
           }]}
                                                                    {"name":"info.com",
            POST
                                                                    "nameserver": "infoblox.localdomain",
                      <wapi_url>/record:ns
                                                                    "addresses":[{"address":"192.168.11.0"}]}
           curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
           "https://127.0.0.1/wapi/v2.7/record:ns?_return_fields%2B=name,nameserver,addresses&_return_as_object=
           1" -d '{"name":"info.com","nameserver":"infoblox.localdomain","addresses":[{"address":"192.168.11.0"}]}'
           {"result":
            {"_ref":
Create
           record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb2NhbGRvbWFpbg:in
           foblox.localdomain/info.com/default",
            "addresses":
            [{"address": "192.168.11.0",
             "auto_create_ptr": true
            }],
            "name": "info.com",
            "nameserver": "infoblox.localdomain",
             "view": "default"
           }}
                      <wapi_url>/record:ns/ZG5zLmJpbmRfbnMkLl9kZ
                      WZhdWx0LmNvbS5pbmZvLi5pbmZvYmxveC5sb
             PUT
                                                                    {"nameserver":"nios.info.com"}
                      2NhbGRvbWFpbg:infoblox.localdomain/info.com/
                      default
           curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT
           "https://127.0.0.1/wapi/v2.7/record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5pbmZvYmxv
           eC5sb2NhbGRvbWFpbg;infoblox.localdomain/info.com/default?_return_fields%2B=name,nameserver&_retu
           rn_as_object=1" -d '{"nameserver":"nios.info.com"}'
Modify
           {"result":
            {"_ref":
           record:ns/ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY29t:nios.info.com/inf"
           o.com/default",
            "name": "info.com",
            "nameserver": "nios.info.com",
             "view": "default"
           }}
```

			T	T
		DELETE	<wapi_url>/record:ns/ZG5zLmJpbmRfbnMkLl9kZ WZhdWx0LmNvbS5pbmZvLi5uaW9zLmluZm8uY 29t:nios.info.com/info.com/default</wapi_url>	
	Delete	"https://127	dmin:Infoblox -H 'content-type: application/json' -X DE 7.0.0.1/wapi/v2.7/record:ns/ZG5zLmJpbmRfbnMkLl9k ios.info.com/info.com/default?_return_as_object=1"	
		{"result": "record:ns/ o.com/defa	ZG5zLmJpbmRfbnMkLl9kZWZhdWx0LmNvbS5pbmZ ault"}	ZvLi5uaW9zLmluZm8uY29t:nios.info.com/inf
		GET	<wapi_url>/record:ptr</wapi_url>	
		curl -k -u a	dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/rec	ord:ptr?_return_as_object=1"
PTR	Fetch information	A:1.0.0.12 "ptrdnan "view": " }, {"_ref": "record:ptr, MC4wLjAu .0.0.0.0.0.0 "ptrdnan "view": }, {"_ref": "record:ptr, GVzdC5pb	/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLml MC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjA 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	wNi4wLjAuMC4wLjAuMC4wLjAuMC4wLjAu uMC4wLjEuLmxvY2FsaG9zdA:1.0.0.0.0.0.0 ',
		POST	<wapi_url>/record:ptr</wapi_url>	{"name":"2.10.10.10.in-addr.arpa", "ptrdname":"server1.info.com", "ipv4addr":"10.10.10.2"}
		"https://127	dmin:Infoblox -H 'content-type: application/json' -X PC 7.0.0.1/wapi/v2.7/record:ptr?_return_fields%2B=name "2.10.10.10.in-addr.arpa", "ptrdname":"server1.info.co	ptrdname,ipv4addr&_return_as_object=1" -
	Create	aW5mby5j "ipv4add "name": '	ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLml b20:2.10.10.10.in-addr.arpa/default", r": "10.10.10.2", '2.10.10.10.in-addr.arpa", e": "server1.info.com", default"	luLWFkZHluMTAuMTAuMTAuMi5zZXJ2ZXlu
	Modify	PUT	<pre><wapi_url>/record:ptr/ZG5zLmJpbmRfcHRyJC5fZ GVmYXVsdC5hcnBhLmluLWFkZHluMTAuMTAu</wapi_url></pre>	{"ptrdname":"server.info.com"}

			MTAuMi5zZXJ2ZXIuaW5mby5jb20:2.10.10.10.in-addr.arpa/default			
		curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTA uMTAuMTAuMi5zZXJ2ZXluaW5mby5jb20:2.10.10.10.in- addr.arpa/default?_return_fields%2B=ptrdname&_return_as_object=1" -d '{"ptrdname":"server.info.com"}'				
		aW5mby5j	ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmli b20:2.10.10.10.in-addr.arpa/default", e": "server.info.com", default"	uLWFkZHluMTAuMTAuMTAuMi5zZXJ2ZXlu		
		DELETE	<pre><wapi_url>/record:ptr/ZG5zLmJpbmRfcHRyJC5fZ GVmYXVsdC5hcnBhLmluLWFkZHluMTAuMTAu MTAuMi5zZXJ2ZXluaW5mby5jb20:2.10.10.10.in- addr.arpa/default</wapi_url></pre>			
	Delete	curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTA uMTAuMTAuMi5zZXJ2ZXluaW5mby5jb20:2.10.10.10.in-addr.arpa/default?_return_as_object=1"				
		{"result": "record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTAuMTAuMTAuMi5zZXJ2ZXIu aW5mby5jb20:2.10.10.10.in-addr.arpa/default"}				
		GET	<wapi_url>/record:txt</wapi_url>			
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:txt?_return_as_object=1"				
	Fetch information	XJ2ZXIi:ma "name": '	ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVz ail.test.com/default", 'mail.test.com", his a mail server", default"	zdC5tYWlsLiJUaGlzliAiYSlglm1haWwilCJzZ		
TXT		POST	<wapi_url>/record:txt</wapi_url>	{"name":"server.info.com", "text":"This a host server"}		
		curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:txt?_return_fields%2B=name,text&_return_as_object=1" -d '{"name":"server.info.com","text":"This a host server"}'				
	Create	{"result": {"_ref": "record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIIRoaXMilCJhIiAiaG9zdClgI nNlcnZlcil:server.info.com/default", "name": "server.info.com", "text": "This a host server", "view": "default" }}				
	Modify	PUT	<pre><wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZ GVmYXVsdC5jb20uaW5mby5zZXJ2ZXluIIRoaX</wapi_url></pre>	{"text":"This is a test server"}		

			MilCJhliAiaG9zdClgInNlcnZlcil:server.info.com/de fault		
		curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuII RoaXMilCJhliAiaG9zdClgInNlcnZlcil:server.info.com/default?_return_fields%2B=text&_return_as_object=1" -d '{"text":"This a test server"}'			
		nNlcnZlcil:s "name": "	ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5r server.info.com/default", server.info.com", nis a test server", lefault"	mby5zZXJ2ZXIullRoaXMilCJhliAidGVzdClgl	
		DELETE	<pre><wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZ GVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIlRoaX MilCJhliAiaG9zdClgInNlcnZlcil:server.info.com/de fault</wapi_url></pre>		
	Delete	curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5mby5zZXJ2ZXIuIl RoaXMilCJhliAidGVzdClgInNlcnZlcil:server.info.com/default?_return_as_object=1"			
			ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20uaW5r server.info.com/default"}	mby5zZXJ2ZXIuIIRoaXMiICJhIiAidGVzdClgI	
		GET	<wapi_url>/record:srv</wapi_url>		
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:srv?_return_as_object=1"			
SRV	Fetch information	mNvbQ:_ss "name": "port": 22 "priority"	: 1, "test.com", default",		
	Create	POST	<wapi_url>/record:srv</wapi_url>	{"name": "_sshtcp.info.com", "port": 22, "priority": 10, "target": "info.com", "weight": 10}	
		"https://127 "_sshtcp.	dmin:Infoblox -H 'content-type: application/json' -X PC '.0.0.1/wapi/v2.7/record:srv?_return_fields%2B=name info.com","port": 22,"priority": 10,"target": "info.com","v	e,target&_return_as_object=1" -d '{"name":	
		{"result": {"_ref": "record:srv	/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5r	mby9fdGNwLl9zc2gvMTAvMTAvMjIvaW5mb	

		y5jb20:_sshtcp.info.com/default", "name": "_sshtcp.info.com", "port": 22, "priority": 10, "target": "info.com", "view": "default", "weight": 10 }}		
		PUT	<pre><wapi_url>/record:srv/ZG5zLmJpbmRfc3J2JC5fZ GVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMT AvMTAvMjlvaW5mby5jb20:_sshtcp.info.com/de fault</wapi_url></pre>	{"priority": 20}
		curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc 2gvMTAvMTAvMjlvaW5mby5jb20:_sshtcp.info.com/default?_return_fields%2B=priority&_return_as_object =1" -d '{"priority": 20}'		
	Modify	y5jb20:_ssl "name": " "port": 22 "priority":	20, info.com", lefault",	mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mb
	Delete	DELETE	<pre><wapi_url>/record:srv/ZG5zLmJpbmRfc3J2JC5fZ GVmYXVsdC5jb20uaW5mby9fdGNwLl9zc2gvMj AvMTAvMjlvaW5mby5jb20:_sshtcp.info.com/de fault</wapi_url></pre>	
		curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/record:srv/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5mby9fdGNwLl9zc 2gvMjAvMTAvMjlvaW5mby5jb20:_sshtcp.info.com/default?_return_as_object=1"		
			/ZG5zLmJpbmRfc3J2JC5fZGVmYXVsdC5jb20uaW5i ntcp.info.com/default"}	mby9fdGNwLl9zc2gvMjAvMTAvMjIvaW5mb

Retrieve all the records in a zone

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

- record:a
- record:aaaa
- record:cname
- record:dname
- record:host
- record:host_ipv4addr
- record:host_ipv6addr
- record:mx
- record:naptr

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

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

	REST Method	API Call			
Operation	Sample cURL Command				
		Sample Output			
	GET	<wapi_url>/allrecords?zone=info.com</wapi_url>			
	curl -k -u a	dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/allrecords?zone=info.com&_return_as_object=1"			
	{"result": [{"_ref": "allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX3NvYSQuX2RIZmF1bHQuY29tLmluZm8:", "comment": "Auto-created by Add Zone", "name": "",				
	"type": "UNSUPPORTED", "view": "default", "zone": "info.com" }, {"_ref":				
	"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX25zJC5fZGVmYXVsdC5jb20uaW5mby4uaW5mb2Jsb3 gubG9jYWxkb21haW4:", "comment": "Auto-created by Add Zone", "name": "",				
Retrieve all records in a	"type": "UNSUPPORTED", "view": "default", "zone": "info.com"				
zone	}, {"_ref":				
	"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uaW5mby5ob3N0:host", "comment": "", "see a still the set!"				
	"name": "host", "type": "record:host_ipv4addr",				
	"view": "default", "zone": "info.com"				
	}, {"_ref":				
	"allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvLHNlcnZlciwxM0xMC4xMC4y:server",				
	"comment": "", "name": "server",				
	"type": "re "view": "c	default",			
	"zone": "info.com" },				
	{"_ref": "allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2FhYWEkLl9kZWZhdWx0LmNvbS5pbmZvLHNlcnZlcix				

```
mZDYwOmUzMjpmMWI5Ojoy:server",
    "comment": "",
    "name": "server",
    "type": "record:aaaa",
    "view": "default",
    "zone": "info.com"
    },
    {"_ref":
    "allrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5ob3N0JC5fZGVmYXVsdC5jb20uaW5mby50ZXN0:test",
    "comment": "",
    "name": "test",
    "type": "record:host_ipv4addr",
    "view": "default",
    "zone": "info.com"
}]}
```

Retrieve non-system generated records

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

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

	REST Method	API Call	
Operation	Sample cURL Command		
		Sample Output	
	GET	<wapi_url>/record:a?creator=STATIC</wapi_url>	
	curl -k -u ad	dmin:Infoblox -X GET	
	"https://127	7.0.0.1/wapi/v2.7/record:a?creator=STATIC&_return_fields%2B=creator&_return_as_object=1"	
Retrieve non- system generated records	"https://127.0.0.1/wapi/v2.7/record:a?creator=STATIC&_return_fields%2B=creator&_return_as_object=1" {"result":		

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			
	GET	<wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default</wapi_url>			
	"https://127	dmin:Infoblox -X GET 7.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/defau as_object=1"			
Retrieve host by object reference	{"result":				
	}} GET	<wapi_url>/record:host?name=host1.info.com</wapi_url>			
		dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:host?name=host1.info.com&_return_as_object=1"			
Search host by name	{"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdDEuMTAuMTAuMTAuMJA u:10.10.10.20/host1.info.com/default", "configure_for_dhcp": false, "host": "host1.info.com", "ipv4addr": "10.10.10.20" }], "name": "host1.info.com",				
	"view": "(}]}				
	GET	<pre><wapi_url>/record:host?_return_fields%2B=extattrs&*Location:=Santa%20Clara</wapi_url></pre>			
Search host by	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=extattrs&*Location%3A=Santa%20Clara&_return_as_object= 1"				
EA (Location is set to Santa Clara)	"extattrs" {"Location	on": ": "Santa Clara"} Irs":			

```
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjl2LjEuMjAwLg:1
                72.26.1.200/host1.test.com/default",
                    "configure_for_dhcp": false,
                    "host": "host1.test.com",
                    "ipv4addr": "172.26.1.200"
                   }],
                  "name": "host1.test.com",
                   "view": "default"
                }]}
                            <wapi_url>/record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:serv
                  GET
                            er.info.com/default
                curl -k -u admin:Infoblox -X GET
                "https://127.0.0.1/wapi/v2.7/record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:
                server.info.com/default?_return_as_object=1"
Get A record
using object
                {"result":
 reference
                 {"_ref":
                "record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default",
                  "ipv4addr": "10.10.10.2",
                  "name": "server.info.com",
                  "view": "default"
```

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

Search for network objects based on regular expressions

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

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

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

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

	REST Method	API Call			
Operation	Sample cURL Command				
	Sample Output				
	GET	<wapi_url>/record:a?name~=info.com&_return_fields=name</wapi_url>			
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:a?name~=info.com&_return_fields=name&_return_as_object=1"			
Search for A records that contain info.com in the name		:G5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjI:server.info.com/default", "server.info.com"			
	{"_ref": "record:a/Z com/defaul	:G5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info. It",			

	"name": "host.test.info.com" }]}				
	GET	<wapi_url>/zone_auth?fqdn~=^i.*lo.*\$&_return_fields=fqdn</wapi_url>			
	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone_auth?fqdn~=^i.*lo.*\$&_return_fields=fqdn&_return_as_object=1"				
Search for zones that start with an "i"	{"result": [{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxveA:infoblox.com/default", "fqdn": "infoblox.com" },				
and contain "lo"	{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvcm1ibG94:informblox.com/default", "fqdn": "informblox.com"				
	}, {"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmdsbw:inglo.com/default", "fqdn": "inglo.com"				
	}]}				

Aliases for a host

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	GET	<wapi_url>/record:host?_return_fields%2B=aliases&name=printer.info.co m</wapi_url>		
		dmin:Infoblox -X GET 7.0.0.1/wapi/v2.7/record:host?_return_fields%2B=aliases&name=printer.info.c	om&_return_as_object=1"	
Get all the aliases on a host	{"result": [{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnByaW50ZXI:printer.info.com/default", "aliases": ["scanner.info.com"], "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ucHJpbnRlci4xNjAuMjAuMS4xMD Au:160.20.1.100/printer.info.com/default", "configure_for_dhcp": false, "host": "printer.info.com", "ipv4addr": "160.20.1.100" }], "name": "printer.info.com", "view": "default"			
Add a host with aliases	POST	<wapi_url>/record:host</wapi_url>	{"name":"wapialias.info.com", "ipv4addrs": [{"ipv4addr":"172.26.1.2"}], "aliases": ["remote","pointer"]}	
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=aliases&_return_as_object=1" -d '{"name":"wapialias.info.com","ipv4addrs": [{"ipv4addr":"172.26.1.2"}],"aliases": ["remote","pointer"]}'			

```
{"result":
                    {" ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",
                     "aliases":
                      ["remote.info.com",
                       "pointer.info.com"
                      ],
                     "ipv4addrs":
                      [{"_ref":
                   record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjl"
                   u:172.26.1.2/wapialias.info.com/default",
                       "configure_for_dhcp": false,
                       "host": "wapialias.info.com",
                       "ipv4addr": "172.26.1.2"
                      }],
                     "name": "wapialias.info.com",
                     "view": "default"
                   }}
                               <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvL
                     PUT
                                                                                                        {"aliases": ["local"]}
                               ndhcGlhbGlhcw:wapialias.info.com/default
                   curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT
                   "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.
                   com/default?_return_fields%2B=aliases&_return_as_object=1" -d '{"aliases": ["local"]}'
                   {"result":
                    {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",
                     "aliases":
                      ["local.info.com"],
Modify aliases on
                     "ipv4addrs":
     a host
                      [{"_ref":
                   record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjl"
                   u:172.26.1.2/wapialias.info.com/default",
                       "configure_for_dhcp": false,
                       "host": "wapialias.info.com",
                       "ipv4addr": "172.26.1.2"
                     "name": "wapialias.info.com",
                     "view": "default"
                   }}
                               <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvL
                     PUT
                                                                                                        {"aliases": [ ]}
                               ndhcGlhbGlhcw:wapialias.info.com/default
                   curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT
                   "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.
                   com/default?_return_fields%2B=aliases&_return_as_object=1" -d '{"aliases": []}'
                   {"result":
Remove aliases
                    {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGlhbGlhcw:wapialias.info.com/default",
  from a host
                     "ipv4addrs":
                     [{"_ref":
                   record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaWFsaWFzLjE3Mi4yNi4xLjl"
                   u:172.26.1.2/wapialias.info.com/default",
                       "configure for dhcp": false,
                       "host": "wapialias.info.com",
                       "ipv4addr": "172.26.1.2"
                     }],
```

```
"name": "wapialias.info.com",

"view": "default"

}}
```

Change the IP address of a host

	REST Method	API Call	Sample Body			
Operation	Sample cURL Command					
		Sample Output				
	PUT	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0 Lmhvc3Qx:host1.test.com/default</wapi_url></pre>	{"ipv4addrs": [{"ipv4addr": "172.26.1.21"}]}			
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/defau lt?_return_fields%2B=ipv4addrs&_return_as_object=1" -d '{"ipv4addrs":[{"ipv4addrs": "172.26.1.21"}}}'					
Change IP address of a host	{"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjl2LjEuMjEu:172 .26.1.21/host1.test.com/default", "configure_for_dhcp": false, "host": "host1.test.com", "ipv4addr": "172.26.1.21" }], "name": "host1.test.com", "view": "default"					

Add or remove IP addresses from a host

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

	REST Method	API Call	Sample Body			
Operation	Sample cURL Command					
	Sample Output					
	PUT	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0 Lmhvc3Qx:host1.test.com/default</wapi_url></pre>	{"ipv4addrs+": [{"ipv4addr": "192.168.1.21"}, {"ipv4addr": "10.10.10.21"}]}			
Add IP address to a host record	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/defaul t?_return_fields%2B=ipv4addrs&_return_as_object=1" -d '{"ipv4addrs+":[{"ipv4addr":"192.168.1.21"},{"ipv4addr":"10.10.10.21"}]}'					
	{"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default", "ipv4addrs": [{"_ref":					

```
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjl2LjEuMjEu:172.
                 26.1.21/host1.test.com/default",
                     "configure_for_dhcp": false,
                     "host": "host1.test.com",
                     "ipv4addr": "172.26.1.21"
                    },
                    {"_ref":
                 "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTkyLjE2OC4xLjlxLg:1
                 92.168.1.21/host1.test.com/default",
                     "configure_for_dhcp": false,
                     "host": "host1.test.com",
                     "ipv4addr": "192.168.1.21"
                    },
                    {"_ref":
                 "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTAuMTAuMTAuMjEu:
                 10.10.10.21/host1.test.com/default",
                     "configure_for_dhcp": false,
                     "host": "host1.test.com",
                     "ipv4addr": "10.10.10.21"
                    "name": "host1.test.com",
                    "view": "default"
                 }}
                             <wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0
                                                                                                    {"ipv4addrs-":
                    PUT
                             Lmhvc3Qx:host1.test.com/default
                                                                                                    [{"ipv4addr": "192.168.1.21"}]}
                 curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT
                 "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/defaul
                 t?_return_fields%2B=ipv4addrs&_return_as_object=1" -d '{"ipv4addrs-":[{"ipv4addr":"192.168.1.21"}]}'
                 {"result":
                  {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",
                   "ipv4addrs":
                   [{"_ref":
                 record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjl2LjEuMjEu:172.
                 26.1.21/host1.test.com/default",
 Remove IP
                    "configure_for_dhcp": false,
address from a
                    "host": "host1.test.com",
 host record
                    "ipv4addr": "172.26.1.21"
                   },
                   {"_ref":
                 "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLnRlc3QuaG9zdDEuMTAuMTAuMTAuMjEu:
                 10.10.10.21/host1.test.com/default",
                    "configure_for_dhcp": false,
                    "host": "host1.test.com",
                    "ipv4addr": "10.10.10.21"
                   }],
                   "name": "host1.test.com",
                   "view": "default"
                 }}
```

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

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

	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"}}}]}		
	"https://127 '{"name":"v "10.10.10.1	7.0.0.1/wapi/v2.7/record:ho			
Add host with next available IP address from a network	{"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4xMC4zLg:10.10.10.3/wapi.info.com/default", "configure_for_dhcp": false, "host": "wapi.info.com", "ipv4addr": "10.10.10.3" }], "name": "wapi.info.com", "view": "default" }}				
	POST	<wapi_url>/record:host</wapi_url>	{"name": "wapi.info.com", "ipv4addrs":[{"ipv4addr": "func:nextavailableip:10.10.10.0/24"}]}		
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d '{"name": "wapi.info.com","ipv4addrs":[{"ipv4addr":"func:nextavailableip:10.10.10.0/24"}]}'				
	{"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default", "ipv4addrs": [{"_ref": "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8ud2FwaS4xMC4xMC4xM xLg:10.10.10.10/wapi.info.com/default", "configure_for_dhcp": false, "host": "wapi.info.com", "ipv4addr": "10.10.10.10" }], "name": "wapi.info.com", "view": "default" }}				
	POST	<wapi_url>/record:host</wapi_url>	{"name":"wapi.info.com", "ipv4addrs": [{"ipv4addr":		

```
"func:nextavailableip:network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQ
                                      vMA:192.168.1.0/24/default"}]}
curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
"https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d
\frac{\text{"/mame":"wapi.info.com","ipv4addrs":\frac{\text{"ipv4addr":"func:nextavailableip:network/ZG5zLm5ldHdvcmskMTkyLjE2OC4
xLjAvMjQvMA:192.168.1.0/24/default "}]}'
{"result":
 {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
 "ipv4addrs":
 [{"_ref":
record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xOTluMTY4LjEu
MS4:192.168.1.5/wapi.info.com/default",
  "configure_for_dhcp": false,
  "host": "wapi.info.com",
  "ipv4addr": "192.168.1.5"
 "name": "wapi.info.com",
 "view": "default"
}}
                                      {"name": "wapi.info.com",
 POST
            <wapi url>/record:host
                                      "ipv4addrs": [{"ipv4addr":
                                      "func:nextavailableip:172.21.10.0/24,default"}]}
curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
"https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d '{"name":
"wapi.info.com", "ipv4addrs": [{"ipv4addr": "func:nextavailableip:172.21.10.0/24,default"}]}'
{"result":
 {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
  "ipv4addrs":
  [{"_ref":
record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xNzluMjEuMTAu
MS4:172.21.10.1/wapi.info.com/default",
   "configure_for_dhcp": false,
   "host": "wapi.info.com",
   "ipv4addr": "172.21.10.1"
  "name": "wapi.info.com",
  "view": "default"
}}
                                      {"name": "wapi.info.com",
 POST
            <wapi url>/record:host
                                      "ipv4addrs": [{"ipv4addr":
                                      "func:nextavailableip: 192.168.1.10-192.168.1.15"}]}
curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
"https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d '{"name":
"wapi.info.com","ipv4addrs": [{"ipv4addr":"func:nextavailableip: 192.168.1.10-192.168.1.15"}]}'
{"result":
 {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
  "ipv4addrs":
  [{"_ref":
record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xOTluMTY4LjEu"
MTAu:192.168.1.10/wapi.info.com/default",
```

```
"configure_for_dhcp": false,
                             "host": "wapi.info.com",
                            "ipv4addr": "192.168.1.10"
                           "name": "wapi.info.com",
                           "view": "default"
                                                                {"name":"wapi.info.com",
                                                                "ipv4addrs":[{"ipv4addr": {"_object_function":"next_available_ip",
                                                                "_result_field":"ips",
                           POST
                                      <wapi_url>/record:host
                                                                "_object":"network",
                                                                "_object_parameters":{"*Region": "EMEA"},
                                                                "_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}},
                                                                "use_for_ea_inheritance":true}]}
                          curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
                          "https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1 " -d
                          '{"name":"wapi.info.com","ipv4addrs":[{"ipv4addr":{"_object_function":"next_available_ip","_result_field":"ips","_obje
  Add host with next
                          ct":"network","_object_parameters":{"*Region":
 available IP from a
                          "EMEA"},"_parameters":{"exclude":["10.0.0.1","10.0.0.2"]}},"use_for_ea_inheritance":true}]}'
   network using a
complex search (using
Extensible Attributes)
                           {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/default",
 and inherit the EAs
                           "ipv4addrs":
                            [{"_ref":
                          "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ud2FwaS4xMC4wLjAuMy4:
                          10.0.0.3/wapi.info.com/default",
                            "configure_for_dhcp": false,
                            "host": "wapi.info.com",
                             "ipv4addr": "10.0.0.3"
                           "name": "wapi.info.com",
                           "view": "default"
```

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

Add a host with a fixed address

	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"}]}			
Add a host with a fixed address	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=name,ipv4addrs&_return_as_object=1" -d '{"name":"host.info.com","ipv4addrs":[{"ipv4addr":"172.26.1.20","mac":"aa:bb:cc:11:22:21"}]}'					
	{"result": {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default", "ipv4addrs":					

```
[{"_ref":
    "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdC4xNzluMjYuMS4yMC4
    :172.26.1.20/host.info.com/default",
        "configure_for_dhcp": true,
        "host": "host.info.com",
        "ipv4addr": "172.26.1.20",
        "mac": "aa:bb:cc:11:22:21"
        }],
        "name": "host.info.com",
        "view": "default"
    }}
```

Add Extensible Attributes to an object

	REST Method	API Call	Sample Body		
Operation		Sample cURL Command			
		Sample Output			
	PUT	<pre><wapi_url>/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZ vLndhcGk:wapi.info.com/default</wapi_url></pre>	{"extattrs": {"Site": {"value": "East"}}}		
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLndhcGk:wapi.info.com/defau It?_return_fields%2B=extattrs&_return_as_object=1" -d '{"extattrs":{"Site": {"value": "East"}}}'				
Add an extensible attribute	· · · · · · · · · · · · · · · · · · ·				

TTL

By default, the TTL is inherited from the Grid.

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	GET	<wapi_url>/grid:dns?_return_fields%2B=default_ttl</wapi_url>		
Fetch the default		dmin:Infoblox -X GET .0.0.1/wapi/v2.7/grid:dns?_return_fields%2B=default_ttl&_return_as_object	t=1"	
grid-wide TTL value		rid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox", ttl": 28800		
	GET	<pre><wapi_url>/zone_auth?fqdn=info.com&_return_fields%2B=use_grid_zo ne_timer,soa_default_ttl</wapi_url></pre>		
Fetch TTL for a		dmin:Infoblox -X GET .0.0.1/wapi/v2.7/zone_auth?fqdn=info.com&_return_fields%2B=use_grid_z t=1"	cone_timer,soa_default_ttl&_retur	
zone	{"result": [{"_ref": "zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default", "fqdn": "info.com", "soa_default_ttl": 28800, "use_grid_zone_timer": false, "view": "default" }]}			
	PUT	<wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default</wapi_url>	{"use_grid_zone_timer":true, "soa_default_ttl":5000}	
Modify TTL for a	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZv:info.com/default?_return_field s%2B=use_grid_zone_timer,soa_default_ttl&_return_as_object=1" -d '{"use_grid_zone_timer":true,"soa_default_ttl":5000}'			
zone	"fqdn": "ir "soa_defa	ault_ttl": 5000, _zone_timer": true,	t",	
	PUT	<pre><wapi_url>/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20ud GVzdC5tYWlsLiJUaGlzliAiYSlglm1haWwilCJzZXJ2ZXli:mail.test.com/d efault</wapi_url></pre>	{"use_ttl": true, "ttl":3600}	
Modify TTL for a record	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/record:txt/ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzliAiYSlg Im1haWwilCJzZXJ2ZXIi:mail.test.com/default?_return_fields%2B=ttl&_return_as_object=1" -d '{"use_ttl": true,"ttl":3600}'			
	{"result": {"_ref": "record:txt/2	ZG5zLmJpbmRfdHh0JC5fZGVmYXVsdC5jb20udGVzdC5tYWlsLiJUaGlzli <i>l</i>	AiYSIgIm1haWwilCJzZXJ2ZXIi:m	

```
ail.test.com/default",
    "name": "mail.test.com",
    "text": "This a mail server",
    "ttl": 3600,
    "view": "default"
}}
```

Zone transfers

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	PUT	<pre><wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkM A:Infoblox?_return_fields%2B=allow_transfer</wapi_url></pre>	{"allow_transfer": [{ "_struct": "addressac", "address":"Any", "permission":"ALLOW"}]}	
Enable and specify the zone transfer settings at the grid	"https://127 llow_transf	dmin:Infoblox -H 'content-type: application/json' -X PUT '.0.0.1/wapi/v2.7/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkN er&_return_as_object=1" -d '{"allow_transfer": [{ "_struct": ","address":"Any","permission":"ALLOW"}]}'	MA:Infoblox?_return_fields%2B=a	
level	{"result": {"_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox", "allow_transfer": [{"_struct": "addressac", "address": "Any", "permission": "ALLOW" }]}}			
	PUT	<pre><wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:m ember1.localdomain?_return_fields%2B=allow_transfer</wapi_url></pre>	{"allow_transfer": [{ "_struct": "addressac", "address":"10.10.0.0/16", "permission":"ALLOW"}]}	
Enable and specify	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain?_return_fi elds%2B=allow_transfer&_return_as_object=1" -d '{"allow_transfer": [{ "_struct":			
the zone transfer settings at the member level	{"result": {"_ref": "member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomain", "allow_transfer": [{"_struct": "addressac", "address": "10.10.0.0/16", "permission": "ALLOW" }], "host_name": "member1.localdomain", "ipv4addr": "172.26.1.3" }}			

	PUT	<wapi_url>/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1 v:demo.com/default?_return_fields%2B=allow_transfer</wapi_url>	{"use_allow_transfer":true, "allow_transfer": [{ "_struct": "addressac", "address":"192.168.0.1/24", "permission":"ALLOW"}]}		
Enable and specify the zone transfer	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kZW1v:demo.com/default?_return_fie lds%2B=allow_transfer&_return_as_object=1" -d '{"use_allow_transfer":true,"allow_transfer":[{ "_struct": "addressac","address":"192.168.0.0/24","permission":"ALLOW"}]}'				
settings at the zone level	"allow_tra [{"_struct "addres "permis }],	": "addressac", s": "192.168.0.0/24", sion": "ALLOW" emo.com",	ult",		

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	Sample Body		
Operation		Sample cURL Command		
		Sample Output		
	GET	<wapi_url>/zone_rp</wapi_url>		
Fetch RPZs	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/zone_rp?_return_fields%2B=rpz_policy&_return_as_object=1" {"result": [{"_ref": "zone_rp/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5nb29nbC53d3c:www.googl.com/default", "fqdn": "www.googl.com", "rpz_policy": "NXDOMAIN", "view": "default" }]}			
Create a RPZ	POST	<wapi_url>/zone_rp</wapi_url>	{"fqdn": "infoblow.com", "rpz_policy": "SUBSTITUTE", "rpz_severity": "WARNING", "substitute_name": "infoblox.com"}	

	"https://127 ect=1" -d '{ "infoblox.co	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone_rp?_return_fields%2B=fqdn,rpz_policy,rpz_severity,substitute_name&_return_as_oblect=1" -d '{"fqdn": "infoblow.com","rpz_policy": "SUBSTITUTE","rpz_severity": "WARNING","substitute_name": "infoblox.com"}'			
	{"result": {"_ref": "zone_rp/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdw:infoblow.com/default", "fqdn": "infoblow.com", "rpz_policy": "SUBSTITUTE", "rpz_severity": "WARNING", "substitute_name": "infoblox.com" }}				
	POST	<wapi_url>/record:rpz:a</wapi_url>	{"name": "server.infoblow.com", "ipv4addr":"1.1.1.156", "rp_zone":"infoblow.com"}		
Add a substitution	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/record:rpz:a?_return_fields%2B=name,rp_zone erver.infoblow.com","ipv4addr":"1.1.1.156","rp_zone":"infoblow.com"	-		
rule for DNS A records	om/default "ipv4addr' "name": "s	"1.1.1.156", server.infoblow.com", "infoblow.com",	HNIcnZlciwxLjEuMS4xNTY:server.infoblow.c		
	POST	<wapi_url>/record:rpz:ptr</wapi_url>	{"name": "135.10.10.10.in-addr.arpa.infoblow.com ", "ipv4addr":"10.10.10.135", "ptrdname": "infoblow.com", "rp_zone":"infoblow.com"}		
Add a substitution rule for DNS PTR	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:ptr?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name": "135.10.10.10.in-addr.arpa.infoblow.com ","ipv4addr":"10.10.10.135","ptrdname": "infoblow.com","rp_zone":"infoblow.com"}'				
records	{"result": {"_ref": "record:rpz:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3cuYXJwYS5pbi1hZGRyLjEwLjEwLj EzNS5pbmZvYmxvdy5jb20:135.10.10.10.in-addr.arpa.infoblow.com/default", "name": "135.10.10.10.in-addr.arpa.infoblow.com", "ptrdname": "infoblow.com", "rp_zone": "infoblow.com", "view": "default" }}				
Add a substitution rule for IP trigger policy	POST	<wapi_url>/record:rpz:a:ipaddress</wapi_url>	{"name":"1.1.1.6.infoblow.com", "ipv4addr":"2.2.2.6", "rp_zone":"infoblow.com"}		

	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:a:ipaddress?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"1.1.1.6.infoblow.com","ipv4addr":"2.2.2.6","rp_zone":"infoblow.com"}' {"result": {"_ref": "record:rpz:a:ipaddress/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm9ibG93LHJwei1pcC4xLjEuMS42LjMyLDlu Mi4yLjY:1.1.1.6.infoblow.com/default", "ipv4addr": "2.2.2.6", "name": "1.1.1.6.infoblow.com", "rp_zone": "infoblow.com", "view": "default" }}				
	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"test.infoblow.com", "canonical":"", "rp_zone":"infoblow.com"}		
Add a Block	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST '.0.0.1/wapi/v2.7/record:rpz:cname?_return_fields%2B=name,rp_z est.infoblow.com","canonical":"","rp_zone":"infoblow.com"}'	one&_return_as_object=1" -d		
Domain Name (No Such Domain) Rule	{"result": {"_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy50ZXN0:test.infoblow.com/def ault", "canonical": "", "name": "test.infoblow.com", "rp_zone": "infoblow.com", "view": "default" }}				
	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"demo.infoblow.com", "canonical":"*", "rp_zone":"infoblow.com"}		
Add a Block	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"demo.infoblow.com","canonical":"*","rp_zone":"infoblow.com"}'				
Domain Name (No Data) Rule	{"result": {"_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5kZW1v:demo.infoblow.com/d efault", "canonical": "*", "name": "demo.infoblow.com", "rp_zone": "infoblow.com", "view": "default" }}				
Add a Passthru	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"pass.infoblow.com", "canonical":"pass.infoblow.com", "rp_zone":"infoblow.com"}		
Domain Name Rule	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname?_return_fields%2B=name,rp_zone&_return_as_object=1" -d '{"name":"pass.infoblow.com","canonical":"pass.infoblow.com","rp_zone":"infoblow.com"}'				

	{"result": { "_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5wYXNz:pass.infoblow.com/rfault", "canonical": "pass.infoblow.com", "name": "pass.infoblow.com", "rp_zone": "infoblow.com", "view": "default" }}			
	POST	<wapi_url>/record:rpz:cname</wapi_url>	{"name":"sub.infoblow.com", "canonical":"test", "rp_zone":"infoblow.com"}	
Add a Substitute	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST '.0.0.1/wapi/v2.7/record:rpz:cname?_return_fields%2B=name,rpub.infoblow.com","canonical":"test","rp_zone":"infoblow.com"}'	o_zone&_return_as_object=1" -d	
Domain Name Rule	{"result": {"_ref": "record:rpz:cname/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdy5zdWI:sub.infoblow.com/defau It", "canonical": "test", "name": "sub.infoblow.com", "rp_zone": "infoblow.com", "view": "default" }}			
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	{"name":"10.10.10.200.infoblow.com", "canonical":"", "rp_zone":"infoblow.com"}	
Add a Block Client	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddress?_return_fields%2B=name,rp_zone&_return_as_object=1 " -d '{"name":"10.10.10.200.infoblow.com","canonical":"","rp_zone":"infoblow.com"}'			
IP Address (No Such Domain) Rule	W50LWIwL "canonica "name": "	10.10.10.200.infoblow.com", : "infoblow.com",	Wx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZ	
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	{"name":"10.10.10.210.infoblow.com", "canonical":"*", "rp_zone":"infoblow.com"}	
Add a Block Client IP Address (No Data) Rule	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddress?_return_fields%2B=name,rp_zone&_return_as_object=1 " -d '{"name":"10.10.10.210.infoblow.com","canonical":"*","rp_zone":"infoblow.com"}'			
	-	:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhd\ .jEwLjEwLjEwLjIxMC4zMg:10.10.10.210.infoblow.com/default", al": "*",	Wx0LmNvbS5pbmZvYmxvdy5ycHotY2xpZ	

		"10.10.10.210.infoblow.com", ": "infoblow.com", default"		
	POST	<wapi_url>/record:rpz:cname:clientipaddress</wapi_url>	{"name":"10.10.10.220.infoblow.com", "canonical":"rpz-passthru", "rp_zone":"infoblow.com"}	
	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddress?_return_fields' e":"10.10.10.220.infoblow.com","canonical":"rpz-passthru","rp_zon		
Add a Passthru Client IP Address Rule	W50LWlwl "canonica "name": "	c:cname:clientipaddress/ZG5zLmJpbmRfY25hbWUkLl9kZWZhdW _jEwLjEwLjEwLjIyMC4zMg:10.10.10.220.infoblow.com/default", stall": "rpz-passthru", 10.10.10.220.infoblow.com", ': "infoblow.com", efault"	x0LmNvbS5pbmZvYmxvdy5ycHotY2xpZ	
	POST	<wapi_url>/record:rpz:cname:clientipaddressdn</wapi_url>	{"name":"10.10.10.230.infoblow.com", "canonical":"test", "rp_zone":"infoblow.com"}	
Add a Substitute	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:clientipaddressdn?_return_fields%2B=name,rp_zone&_return_as_object =1" -d '{"name":"10.10.10.230.infoblow.com","canonical":"test","rp_zone":"infoblow.com"}'			
Domain Name (Client IP Address) Rule	ZW50LWIv "canonica "name": "	10.10.10.230.infoblow.com", ': "infoblow.com",	dWx0LmNvbS5pbmZvYmxvdy5ycHotY2xp	
	POST	<wapi_url>/record:rpz:cname:ipaddress</wapi_url>	{"name":"5.5.5.10.infoblow.com", "canonical":"", "rp_zone":"infoblow.com"}	
	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/record:rpz:cname:ipaddress?_return_fields%2B= 5.5.5.10.infoblow.com","canonical":"","rp_zone":"infoblow.com"}'	-name,rp_zone&_return_as_object=1" -d	
Add a Block IP Address (No Such Domain) Rule	UuMTAuM "canonica "name": "5	5.5.5.10.infoblow.com", ': "infoblow.com",	NvbS5pbmZvYmxvdy5ycHotaXAuNS41Lj	

Add a Block IP Address (No Data) Rule	POST					
		<pre><wapi_url>/record:rpz:cname:ipaddress dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/record:rpz:cname:ipaddress?_return_fields%2E</wapi_url></pre>	{"name":"5.5.5.100.infoblow.com", "canonical":"5.5.5.100", "rp_zone":"infoblow.com"}			
Add a Passthru IP Address Rule	'{"name":"5 {"result": {"_ref": "record:rpz UuMTAwL; "canonica "name": "	:.5.5.100.infoblow.com", "canonical": "5.5.5.100", "rp_zone": "infoblow.com", "canonical": "5.5.5.100", "rp_zone": "infoblow.com.com.com.com.com.com.com.com.com.com	ow.com"}'			
	POST	<wapi_url>/record:rpz:cname:ipaddressdn</wapi_url>	{"name":"5.5.5.200.infoblow.com", "canonical":"test", "rp_zone":"infoblow.com"}			
Add a Substitute	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:rpz:cname:ipaddressdn?_return_fields%2B=name,rp_zone&_return_as_object=1" - d '{"name":"5.5.5.200.infoblow.com","canonical":"test","rp_zone":"infoblow.com"}'					
Domain Name (IP Address) Rule	me (IP {"result":					
Fetch all objects belonging to a RPZ		GET <pre>curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/allrpzrecords?zone=infoblow.com&_return_fields%2B=rpz_rule&_return_as_object=1"</pre>				

```
{"result":
[{"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdyxycH"
otaXAuMS4xLjEuNi4zMiwyLjIuMi42:1.1.1.6",
 "comment": "",
 "name": "1.1.1.6",
 "rpz_rule": "SubstituteIPv4AddressRecord",
 "type": "record:rpz:a:ipaddress",
 "view": "default",
 "zone": "infoblow.com"
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWlwLjUuNS41LjEwLjMy:5.5.5.10",
 "comment": "",
 "name": "5.5.5.10",
 "rpz_rule": "BlockNxdomainIpaddr",
 "type": "record:rpz:cname:ipaddress",
 "view": "default",
 "zone": "infoblow.com"
},
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWlwLjUuNS41LjI1LjMy:5.5.5.25",
 "comment": "",
 "name": "5.5.5.25",
 "rpz_rule": "BlockNoDatalpaddr",
 "type": "record:rpz:cname:ipaddress",
 "view": "default",
 "zone": "infoblow.com"
 },
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWIwLjUuNS41LjEwMC4zMg:5.5.5.100",
 "comment": "",
 "name": "5.5.5.100",
 "rpz_rule": "Passthrulpaddr",
 "type": "record:rpz:cname:ipaddress",
 "view": "default",
 "zone": "infoblow.com"
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1JJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWIwLjUuNS41LjIwMC4zMg:5.5.5.200",
 "comment": "",
 "name": "5.5.5.200",
 "rpz_rule": "SubstituteIPAddressCname",
 "type": "record:rpz:cname:ipaddressdn",
 "view": "default",
 "zone": "infoblow.com"
},
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMDAuMzI:10.10.10.200",
 "comment": "",
 "name": "10.10.10.200",
```

```
"rpz_rule": "BlockNxdomainClientlpaddr",
 "type": "record:rpz:cname:clientipaddress",
 "view": "default",
 "zone": "infoblow.com"
{"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMTAuMzI:10.10.10.210",
 "comment": "",
 "name": "10.10.10.210",
 "rpz_rule": "BlockNoDataClientIpaddr",
 "type": "record:rpz:cname:clientipaddress",
 "view": "default",
 "zone": "infoblow.com"
},
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1JJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMjAuMzI:10.10.10.220",
 "comment": "",
 "name": "10.10.10.220",
 "rpz_rule": "PassthruClientIpaddr",
 "type": "record:rpz:cname:clientipaddress",
 "view": "default",
 "zone": "infoblow.com"
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucnB6LWNsaWVudC1pcC4xMC4xMC4xMC4yMzAuMzI:10.10.10.230",
 "comment": "",
 "name": "10.10.10.230",
 "rpz_rule": "SubstituteClientIPAddressCname",
 "type": "UNSUPPORTED",
 "view": "default",
 "zone": "infoblow.com"
},
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX3B0ciQuX2RlZmF1bHQuY29tLmluZm9ibG93LmF"
ycGEuaW4tYWRkci4xMC4xMC4xMC4xMzUuaW5mb2Jsb3cuY29t:135.10.10.10.in-addr.arpa",
 "comment": "",
 "name": "135.10.10.10.in-addr.arpa",
 "rpz_rule": "SubstitutePTRRecord",
 "type": "record:rpz:ptr",
 "view": "default",
 "zone": "infoblow.com"
},
 {" ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cuZGVtbw:demo".
 "comment": "",
 "name": "demo",
 "rpz_rule": "BlockNoDataDomain",
 "type": "record:rpz:cname",
 "view": "default",
 "zone": "infoblow.com"
}.
 {"_ref":
```

```
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1JJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cucGFzcw:pass",
  "comment": "",
  "name": "pass",
  "rpz_rule": "SubstituteCName",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "infoblow.com"
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2EkLl9kZWZhdWx0LmNvbS5pbmZvYmxvdyxzZX"
J2ZXIsMS4xLjEuMTU2:server",
  "comment": "",
 "name": "server",
  "rpz_rule": "SubstituteARecord",
  "type": "record:rpz:a",
  "view": "default",
 "zone": "infoblow.com"
 },
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1JJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cuc3Vi:sub",
  "comment": "",
  "name": "sub",
  "rpz_rule": "SubstituteCName",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "infoblow.com"
 },
 {"_ref":
allrpzrecords/ZG5zLnpvbmVfc2VhcmNoX2luZGV4JGRucy5iaW5kX2NuYW1IJC5fZGVmYXVsdC5jb20uaW5mb2Jsb3"
cudGVzdA:test",
  "comment": "",
  "name": "test",
  "rpz_rule": "BlockNxdomainDomain",
  "type": "record:rpz:cname",
  "view": "default",
  "zone": "infoblow.com"
}]
```

DNS Traffic Control

Resource type	Operation	REST Method	API Call	Sample Body (for POST and PUT)
			Sample cURL Command	
			Sample Ou	tput
		GET	<wapi_url>/dtc:server</wapi_url>	
DTC Servers	Fetch information	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/dtc:server?_return_as_object=1"		.7/dtc:server?_return_as_object=1"
		{"result": [{"_ref": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHNlcnZlcjE:server1",		

```
"host": "1.1.1.25",
                                "name": "server1"
                               {"_ref": "dtc:server/ZG5zLmlkbnNfc2VydmVyJGhvc3Q:host",
                                "host": "10.10.10.20",
                                "name": "host"
                              },
                              {"_ref":
                              "dtc:server/ZG5zLmlkbnNfc2VydmVyJFNFUIZFUI9URU1QTkFNRV8yMjEyNw:SERVER_TEMPNAME_2212
                               "host": "example.com",
                               "name": "SERVER_TEMPNAME_22127"
                             }]}
                                                                                       {"name": "test-server",
                                POST
                                           <wapi_url>/dtc:server
                                                                                       "host": "2.2.2.56"}
                             curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
                              "https://127.0.0.1/wapi/v2.7/dtc:server?_return_fields%2B=name,host&_return_as_object=1" -d '{"name":
                             "test-server", "host": "2.2.2.56"}'
                 Create
                             {"result":
                               {"_ref": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server",
                               "host": "2.2.2.56",
                               "name": "test-server"
                             }}
                                GET
                                           <wapi_url>/dtc:pool
                             curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/dtc:pool?_return_as_object=1"
                             {"result":
                  Fetch
                               [{"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCRwb29sMQ:pool1",
               information
                                "name": "pool1"
                              {"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCRQT09MX1RFTVBOQU1FXzlyMTI3:POOL_TEMPNAME_22127",
                               "name": "POOL_TEMPNAME_22127"
                             }]}
                                                                                      {"name": "test-pool",
                                                                                       "availability": "ALL",
                                                                                      "lb_preferred_method":"GLOBAL_AVAILABILIT
DTC Pools
                                                                                      Υ".
                                                                                      "monitors":
                                                                                      ["dtc:monitor:icmp/ZG5zLmlkbnNfbW9uaXRvcl9
                                POST
                                           <wapi_url>/dtc:pool
                                                                                      pY21wJGljbXA:icmp"],
                                                                                      "servers":
                                                                                      [{"ratio": 4,
                 Create
                                                                                       "server":
                                                                                       "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc
                                                                                      2VydmVy:test-server"}]}
                             curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
                              "https://127.0.0.1/wapi/v2.7/dtc:pool?_return_fields%2B=name,servers&_return_as_object=1" -d '{"name":
                              "test-pool", "availability": "ALL", "lb_preferred_method": "GLOBAL_AVAILABILITY", "monitors":
                             ["dtc:monitor:icmp/ZG5zLmlkbnNfbW9uaXRvcl9pY21wJGljbXA:icmp"],"servers": [{"ratio": 4,"server":
                              "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server"}]}'
```

		{"result": {"_ref": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool", "name": "test-pool" "servers": [{"ratio": 4, "server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server" }]}}			
	Modify to add another server	PUT	<wapi_url>/dtc:pool/ZG5zLmlkbnNfcG9vb CR0ZXN0LXBvb2w:test-pool</wapi_url>	{"servers": [{"ratio": 4,	
		curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test- pool?_return_fields%2B=name,servers&_return_as_object=1" -d '{"servers": [{"ratio": 4,"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVy:test-server" },{"ratio": 4,"server": "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc3Qtc2VydmVyMg:test-server2"}]}'			
		"name": "te "servers": [{"ratio": 4, "server": }, {"ratio": 4,	, "dtc:server/ZG5zLmlkbnNfc2VydmVyJHRlc30	Qtc2VydmVy:test-server"	
		GET	<wapi_url>/dtc:lbdn</wapi_url>		
	Fetch information Create	curl -k -u ad	min:Infoblox -X GET "https://127.0.0.1/wapi/v2	2.7/dtc:lbdn?_return_as_object=1"	
			o:lbdn/ZG5zLmlkbnNfbGJkbiRMQkROX1RFT' .BDN_TEMPNAME_22127"	VBOQU1FXzIyMTI3:LBDN_TEMPNAME_22127",	
DTC Load Balanced Domain Name		POST	<wapi_url>/dtc:lbdn</wapi_url>	{"auth_zones": ["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0Lm NvbS5kdGM:dtc.com/default"], "Ib_method": "ROUND_ROBIN", "name": "test-lbdn", "patterns": ["server.dtc.com"], "pools": [{"ratio": 4, "pool":"dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0L XBvb2w:test-pool"}]}	
		curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/dtc:lbdn?_return_fields%2B=name,pools,auth_zones,patterns&_return_as_objec			

```
t=1" -d
'{"auth_zones":["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"],"lb_method":
"ROUND_ROBIN","name": "test-lbdn","patterns": ["server.dtc.com"],"pools": [{"ratio":
4,"pool":"dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool"}]}'

{"result":
{"_ref": "dtc:lbdn/ZG5zLmlkbnNfbGJkbiR0ZXN0LWxiZG4:test-lbdn",
"auth_zones":
["zone_auth/ZG5zLnpvbmUkLl9kZWZhdWx0LmNvbS5kdGM:dtc.com/default"],
"name": "test-lbdn",
"patterns":
["server.dtc.com"],
"pools":
[{"pool": "dtc:pool/ZG5zLmlkbnNfcG9vbCR0ZXN0LXBvb2w:test-pool",
"ratio": 4
}]}}
```

IP address management related scenarios

Add a network or container

	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"}		
		dmin:Infoblox -H 'content-type: application/json' -X 7.0.0.1/wapi/v2.7/network?_return_fields%2B=netv "}'			
Add a network	{"result": {"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNC8w:1.1.1.0/24/default",				
	POST	<wapi_url>/network</wapi_url>	{"network": "2.2.2.0/24", "members": [{"_struct": "dhcpmember", "ipv4addr":"172.26.1.3"}]}		
Add a network and	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/network?_return_fields%2B=network,members&_return_as_object=1" -d '{"network": "2.2.2.0/24","members":[{"_struct": "dhcpmember","ipv4addr":"172.26.1.3"}]}'				
assign to a member	{"result": {"_ref": "network/ZG5zLm5ldHdvcmskMi4yLjluMC8yNC8w:2.2.2.0/24/default", "members": [{"_struct": "dhcpmember", "ipv4addr": "172.26.1.3", "ipv6addr": null, "name": "member1.localdomain" }],				

```
"network": "2.2.2.0/24",
                            "network view": "default"
                          }}
                                                                                        {"network": "10.10.10.0/24",
                                                                                        "members":
                           POST
                                      <wapi_url>/network
                                                                                        [{"_struct": "dhcpmember",
                                                                                        "ipv4addr":"172.26.1.2"}],
                                                                                        "auto_create_reversezone":true}
                         curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
                         "https://127.0.0.1/wapi/v2.7/network?_return_fields%2B=network,members&_return_as_object=1" -d '{"network":
                          "10.10.10.0/24", "members": [{"_struct": "dhcpmember", "ipv4addr": "172.26.1.2"}], "auto_create_reversezone": true}'
 Add a network and
 automatically create
                         {"result":
 the corresponding
                           {"_ref": "network/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNC8w:10.10.10.0/24/default",
 reverse lookup zone
                           "members":
                            [{"_struct": "dhcpmember",
                             "ipv4addr": "172.26.1.2",
                             "ipv6addr": null,
                             "name": "infoblox.localdomain"
                            }],
                           "network": "10.10.10.0/24",
                           "network_view": "default"
                         }}
                                                                                        {"network":
                                                                                        "func:nextavailablenetwork:10.0.0.0/8,default,24",
                                                                                        "network_view":"default",
                           POST
                                      <wapi_url>/network
                                                                                        "extattrs":
                                                                                        {"Country":{"value":"UK"},
                                                                                        "Region":{"value":"EMEA"}}}
                         curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
                         "https://127.0.0.1/wapi/v2.7/network?_return_fields%2B=network,members,extattrs&_return_as_object=1" -d
                          '{"network": "func:nextavailablenetwork:10.0.0.0/8,default,24","network_view": "default","extattrs":
 Add a network from
                         {"Country":{"value":"UK"},"Region":{"value":"EMEA"}}}'
next available network
                         {"result":
                          {"_ref": "network/ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default",
                           "extattrs":
                            {"Country": {"value": "UK"},
                            "Region": {"value": "EMEA"}
                            "members": [],
                            "network": "10.0.0.0/24",
                            "network_view": "default"
```

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

	REST Method	API Call			
Operation	Sample cURL Command				
		Sample Output			
	GET	<wapi_url>/network?network=172.21.10.0/24</wapi_url>			
		dmin:Infoblox -X GET '.0.0.1/wapi/v2.7/network?network=172.21.10.0/24&_return_as_object=1"			
Search for a network	"network	network/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMjQvMA:172.21.10.0/24/default", ": "172.21.10.0/24", _view": "default"			
	GET	<wapi_url>/network?network~=192.168</wapi_url>			
	curl -k -u a	dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/network?network~=192.168&_return_as_object=1"			
Search for network(s) that begins with a certain value (192.168)	"network "network }, {"_ref": "r	network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xLjAvMjQvMA:192.168.1.0/24/default", ": "192.168.1.0/24", :_view": "default" network/ZG5zLm5ldHdvcmskMTkyLjE2OC4xMDEuMC8yNC8w:192.168.101.0/24/default", ": "192.168.101.0/24", :_view": "default"			
	GET	<wapi_url>/network?network~=.0/27</wapi_url>			
Search for network(s) based on the netmask (/27)	{"result": [{"_ref": "n	dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/network?network~=.0/27&_return_as_object=1" etwork/ZG5zLm5ldHdvcmskMTAuMTAuMTAwLjAvMjcvMA:10.10.100.0/27/default", ': "10.10.100.0/27", _view": "default" etwork/ZG5zLm5ldHdvcmskMS4xLjEuMC8yNy8x:1.1.1.0/27/demo", : "1.1.1.0/27", view": "demo"			
	GET	<wapi_url>/network?_return_fields%2B=extattrs&*Country:=UK</wapi_url>			
Search by EA (Networks in the UK)	"https://127 {"result": [{"_ref": "r "extattrs {"Count "Region "network	dmin:Infoblox -X GET '.o.0.1/wapi/v2.7/network?_return_fields%2B=extattrs&*Country%3A=UK&_return_as_object=1" network/ZG5zLm5ldHdvcmskMTAuMC4wLjAvMjQvMA:10.0.0.0/24/default", ": ry": {"value": "UK"}, ": ("value": "EMEA"}}, ": "10.0.0.0/24", 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 Body		
Operation		Sample cURL Command			
		Sample Output			
	POST	<pre><wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMj QvMA:172.21.10.0/24/default?_function=next_available_ip</wapi_url></pre>	{"num":1}		
Get the next available IP address in a subnet	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMjQvMA:172.21.10.0/24/default? _function=next_available_ip&_return_as_object=1" -d '{"num":1}'				
	{"result":	1.10.1"]			
	POST	<pre><wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMj QvMA:172.21.10.0/24/default?_function=next_available_ip</wapi_url></pre>	{"num":5}		
	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/network/ZG5zLm5ldHdvcmskMTcyLjIxLjEwLjAvN next_available_ip&_return_as_object=1" -d '{"num":5}'	ljQvMA:172.21.10.0/24/default?		
Get the next 5 available IP addresses in a subnet	{"result": {"ips": ["172.21. "172.21. "172.21. "172.21. "172.21.]}}	10.2", 10.3", 10.4",			

Get all the addresses based on a search criteria

Occupation	REST Method	ΔPI Call	
Operation	Sample cURL Command		
		Sample Output	
Get addresses in a subnet	GET	<wapi_url>/ipv4address?network=10.10.10.0/24</wapi_url>	

```
curl -k -u admin:Infoblox -X GET
                                 "https://127.0.0.1/wapi/v2.7/ipv4address?network=10.10.10.0/24&_return_as_object=1"
                                 {"result":
                                  [{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMJUzLzA:10.10.10.1",
                                    "ip_address": "10.10.10.1",
                                    "is_conflict": false,
                                    "mac_address": "",
                                    "names": [],
                                    "network": "10.10.10.0/24",
                                    "network_view": "default",
                                    "objects": [],
                                    "status": "UNUSED",
                                    "types": [],
                                    "usage": []
                                   },
                                   {"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU0LzA:10.10.10.2",
                                    "ip_address": "10.10.10.2",
                                    "is_conflict": false,
                                    "mac_address": "",
                                    "names": [],
                                    "network": "10.10.10.0/24",
                                    "network_view": "default",
                                    "objects": [],
                                    "status": "UNUSED",
                                    "types": [],
                                    "usage": []
                                  },
                                  {"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU1LzA:10.10.10.255",
                                   "ip_address": "10.10.10.255",
                                   "is_conflict": false,
                                   "mac_address": "",
                                   "names": [],
                                   "network": "10.10.10.0/24",
                                   "network_view": "default",
                                   "objects": [],
                                   "status": "USED",
                                   "types": ["BROADCAST"],
                                   "usage": []
                                 }]}
                                    GET
                                              <wapi_url>/ipv4address?ip_address>=10.10.10.252&&ip_address<=10.10.10.254</pre>
                                 curl -k -u admin:Infoblox -X GET
                                 "https://127.0.0.1/wapi/v2.7/ipv4address?ip_address%3E=10.10.10.252&ip_address%3C=10.10.10.254&_r
                                 eturn_as_object=1"
                                 {"result":
Get addresses in a given range
                                  [{"_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": []
     },
      \label{localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-localized-locali
       "ip_address": "10.10.10.253",
       "is_conflict": false,
       "mac_address": "",
       "names": [],
       "network": "10.10.10.0/24",
       "network_view": "default",
       "objects": [],
       "status": "UNUSED",
       "types": [],
       "usage": []
     {"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjU0LzA:10.10.10.254",
       "ip_address": "10.10.10.254",
       "is_conflict": false,
       "mac_address": "",
       "names": [],
       "network": "10.10.10.0/24",
       "network_view": "default",
       "objects": [],
       "status": "UNUSED",
       "types": [],
       "usage": []
}]}
```

Zone associations on a network

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Output			
	GET	<pre><wapi_url>/network/ZG5zLm5ldHdvcmskMTAuMS4wLj AvMTYvMA:10.1.0.0/16/default</wapi_url></pre>			
	"https://127.	min:Infoblox -X GET 0.0.1/wapi/v2.7/network/ZG5zLm5ldHdvcmskMTAuMS4wLj 2B=zone_associations&_return_as_object=1"	jAvMTYvMA:10.1.0.0/16/default?_ret		
List zone associations on a network	"network": "network_v "zone_ass [{"fqdn": "	twork/ZG5zLm5ldHdvcmskMTAuMS4wLjAvMTYvMA:10.1.0" "10.1.0.0/16", view": "default", sociations": info.com", ult": true, default"	0.0/16/default",		

	PUT	<pre><wapi_url>/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEw LjAvMjQvMA:172.21.10.0/24/default</wapi_url></pre>	{"zone_associations": [{"fqdn": "test.org","is_default":true}]}		
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/network/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMjQvMA:172.21.10.0/24/default? _return_fields%2B=zone_associations&_return_as_object=1" -d '{"zone_associations": [{"fqdn": "test.com", "is_default":true}]}'				
Add a zone association to a network	"network": "network_v "zone_ass [{"fqdn": "	twork/ZG5zLm5ldHdvcmskMTcyLjlxLjEwLjAvMjQvMA:172 "172.21.10.0/24", view": "default", sociations": test.com", ult": true, default"	.21.10.0/24/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"}
	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/fixedaddress?_return_fields%2B=ipv4add":"192.168.1.100","mac":"aa:bb:cc:11:22:21"}'	lr,mac&_return_as_object=1" -d
Add a fixed address	"ipv4addr "mac": "a	ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMi ": "192.168.1.100", a:bb:cc:11:22:21", view": "default"	C4wLi4:192.168.1.100/default",
	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://127.0.0.1/wapi/v2.7/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" -d '{"ipv4addr":"172.26.1.200","mac":"00:00:00:00:00"}'		
	"ipv4add	xedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTcyLjl2LjEul r": "172.26.1.200", i0:00:00:00:00:00",	MjAwLjAuLg:172.26.1.200/default",

	"network_view": "default" }}		
	POST	<wapi_url>/fixedaddress?_return_fields=ipv4addr</wapi_url>	{"ipv4addr": "func:nextavailableip:10.1.0.0/16", "mac":"ff:ff:ff:ff:ff:ff"}
Add a fixed address with next	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/fixedaddress?_return_fields%2B=ipv4addr,mac&_return_as_object=1" -d '{"ipv4addr":"func:nextavailableip:10.1.0.0/16","mac":"ff:ff:ff:ff:ff:ff"}'		
vailable IP	"ipv4addı "mac": "ff	xedaddress/ZG5zLmZpeGVkX2FkZHJlc3MkMTAuMS4wLjE ": "10.1.0.1", :ff:ff:ff:ff:ff", _view": "default"	EuMC4u:10.1.0.1/default",

Search for a fixed address by MAC

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

	REST Method	API Call	
Operation	Sample cURL Command		
	Sample Output		
	GET	<wapi_url>/fixedaddress?_return_fields%2B=mac&mac=aa:bb:cc:11:22:21</wapi_url>	
		dmin:Infoblox -X GET '.0.0.1/wapi/v2.7/fixedaddress?_return_fields%2B=mac&mac=aa:bb:cc:11:22:21&_return_as_obj	
Search fixed address by MAC	"ipv4addı "mac": "a	ess/ZG5zLmZpeGVkX2FkZHJlc3MkMTkyLjE2OC4xLjEwMC4wLi4:192.168.1.100/default", ": "192.168.1.100", a:bb:cc:11:22:21", _view": "default"	

Get information about an IP address

	REST Method	API Call	
Operation	Sample cURL Command		
	Sample Output		
	GET	<wapi_url>/ipv4address?ip_address=10.10.10.10</wapi_url>	
Query an IP address	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/ipv4address?ip_address=10.10.10.10&_return_as_object=1"		
	{"result": [{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMTAvMA:10.10.10.10",		

```
"ip_address": "10.10.10.10",

"is_conflict": false,

"mac_address": "",

"names": [],

"network": "10.10.10.0/24",

"network_view": "default",

"objects": [],

"status": "UNUSED",

"types": [],

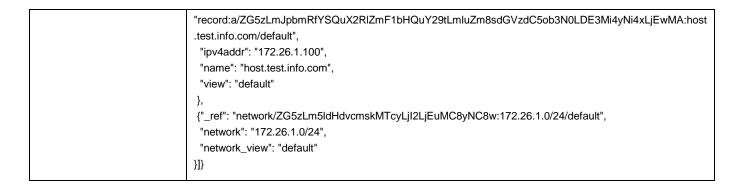
"usage": []
```

Search for any object with an IP address

	REST Method	API Call		
Operation		Sample cURL Command		
	Sample Output			
	GET	<wapi_url>/ipv4address?status=USED&ip_address=10.10.10.20</wapi_url>		
	curl -k -u a	dmin:Infoblox -X GET		
	"https://127	7.0.0.1/wapi/v2.7/ipv4address?status=USED&ip_address=10.10.10.20&_return_as_object=1"		
Search objects with an IP	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/ipv4address?status=USED&ip_address=10.10.10.20&_return_as_obje {"result": [{"_ref": "ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20", "ip_address": "10.10.10.20", "is_conflict": false, "mac_address": "", "names": ["host1.info.com"], "network": "10.10.10.0/24", "network": "10.10.10.0/24", "network_view": "default", "objects": ["record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host1.info.com/defau "status": "USED", "types": ["HOST"], "usage": ["DNS"]			

Search for an IP address

Operation	REST Method	API Call	
	Sample cURL Command		
		Sample Output	
Search an IP address	GET	<wapi_url>/search?address=172.26.1.100</wapi_url>	
	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/search?address=172.26.1.100&_return_as_object=1"		
	{"result": [{" ref":		



Delete an IP address

Operation	REST Method	API Call	
	Sample cURL Command		
		Sample Output	
Delete an IP	DELETE <wapi_url>/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20</wapi_url>		
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X DELETE "https://127.0.0.1/wapi/v2.7/ipv4address/Li5pcHY0X2FkZHJlc3MkMTAuMTAuMTAuMjAvMA:10.10.10.20&_r eturn_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.

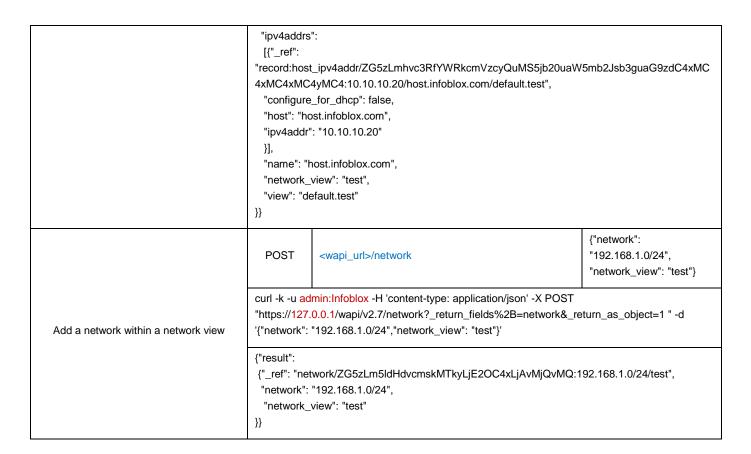
A network view is a single routing domain with its own networks and shared networks. A network view can contain both IPv4 and IPv6 networks. All networks must belong to a network view.

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	API Call	Sample Body		
Operation	Sample cURL Command				
	Sample Output				
	GET	<wapi_url>/view</wapi_url>			
	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/view?_return_as_object=1"				
Get all DNS views	{"result": [{"_ref": "view/ZG5zLnZpZXckLl9kZWZhdWx0:default/true", "is_default": true, "name": "default" }, {"_ref": "view/ZG5zLnZpZXckLjE:default.test/false",				

```
"is_default": false,
                                            "name": "default.test"
                                            {"_ref": "view/ZG5zLnZpZXckLjI:default.cloud/false",
                                            "is_default": false,
                                            "name": "default.cloud"
                                          }]}
                                             GET
                                                       <wapi_url>/zone_auth?view<u>=</u>default.test
                                          curl -k -u admin:Infoblox -X GET
                                          "https://127.0.0.1/wapi/v2.7/zone_auth?view=default.test&_return_as_object=1"
                                           \label{lem:com/default.test} [\{\mbox{$"$\_ref": $"$zone\_auth/ZG5zLnpvbmUkLjEuY29tLmluZm8:info.com/default.test"},
Get authoritative zones for a DNS view
                                            "fqdn": "info.com",
                                            "view": "default.test"
                                            {"_ref": "zone_auth/ZG5zLnpvbmUkLjEub3JnLnRlc3Q:test.org/default.test",
                                            "fqdn": "test.org",
                                            "view": "default.test"
                                          }]}
                                                       <wapi_url>/record:host?zone=info.com&view=default.t
                                             GET
                                          curl -k -u admin:Infoblox -X GET
                                          "https://127.0.0.1/wapi/v2.7/record:host?zone=info.com&view=default.test&_return_as_object=1"
                                          {"result":
                                           [{"_ref":
                                          "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8uc2VydmVy:server.info.com/default.test",
                                            "ipv4addrs":
                                             [{"_ref":
                                           "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5zZXJ2ZXIuMTAuMT
                                          AuMC4xMDAu:10.10.0.100/server.info.com/default.test",
                                             "configure_for_dhcp": false,
                                             "host": "server.info.com",
                                             "ipv4addr": "10.10.0.100"
                                             }],
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":
                                          4xLjEwMC4:10.1.1.100/mailer.info.com/default.test",
                                             "configure_for_dhcp": false,
                                             "host": "mailer.info.com",
                                             "ipv4addr": "10.1.1.100",
                                             "mac": "aa:bb:cc:11:22:33"
                                             "name": "mailer.info.com",
                                             "view": "default.test"
                                           }]}
```

	GET	<wapi_url>/networkview</wapi_url>		
	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/networkview?_return_as_object=1"			
Get all network views	{"result": [{"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQw:default/true", "is_default": true, "name": "default" }, {"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQx:test/false", "is_default": false, "name": "test" }, {"_ref": "networkview/ZG5zLm5ldHdvcmtfdmlldyQy:cloud/false", "is_default": false, "name": "cloud" }]}			
	POST	<wapi_url>/networkview</wapi_url>	{"name": "demo"}	
Create a network view		Imin:Infoblox -H 'content-type: application/json' -X POST .0.0.1/wapi/v2.7/networkview?_return_fields%2B=name& lemo"}'	_return_as_object=1" -d	
Create a network view	{"result":			
	POST	<wapi_url>/zone_auth</wapi_url>	{"fqdn": "infoblox.com", "view": "default.test"}	
Create an authoritative zone within a	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/zone_auth?_return_fields%2B=fqdn,network_view&_return_as_objec t=1" -d '{"fqdn": "infoblox.com","view": "default.test"}'			
network view	"fqdn": "in "network_	one_auth/ZG5zLnpvbmUkLjEuY29tLmluZm9ibG94:infoblo foblox.com", _view": "test" efault.test"	ox.com/default.test",	
	POST	<wapi_url>/record:host</wapi_url>	{"name":"host.infoblox.co m", "ipv4addrs": [{"ipv4addr":"10.10.10.20" }], "view": "default.test"}	
Create a host record within a network view	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/record:host?_return_fields%2B=name,network_view&_return_as_obj ect=1" -d '{"name":"host.infoblox.com","ipv4addrs": [{"ipv4addr":"10.10.10.20"}],"view": "default.test"}'			
	{"result": {"_ref": "record:hos	t/ZG5zLmhvc3QkLjEuY29tLmluZm9ibG94Lmhvc3Q:host.	infoblox.com/default.test",	



DHCP related scenarios

DHCP ranges

	REST Method	API Call	Sample Body		
Operation		Sample cURL Command			
		Sample Output			
	GET	<wapi_url>/range</wapi_url>			
	curl -k -u adr	min:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/range?_return_a	as_object=1"		
Get DHCP ranges	{"result":				
Add a DHCP range	POST	<wapi_url>/range</wapi_url>	{"start_addr": "10.10.10.20", "end_addr": "10.10.10.100", "server_association_type": "MEMBER", "member":{"_struct": "dhcpmember", "ipv4addr": "172.26.1.3"}}		

```
curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
                      "https://127.0.0.1/wapi/v2.7/range?_return_fields%2B=start_addr,end_addr,member&_return_as_object=1" -d
                     \"start_addr": "10.10.10.20","end_addr": "10.10.10.100","server_association_type": "MEMBER","member":{"_struct":
                     "dhcpmember", "ipv4addr": "172.26.1.3"}}'
                     {"result":
                      {"_ref":
                      "range/ZG5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMjAvMTAuMTAuMTAuMTAwLy8vMC8:10.10.10.20/10.10.10.100/
                     default",
                       "end_addr": "10.10.10.100",
                       "member":
                        {"_struct": "dhcpmember",
                        "ipv4addr": "172.26.1.3",
                        "ipv6addr": null,
                        "name": "member1.localdomain"
                        },
                       "network": "10.10.10.0/24",
                       "network_view": "default",
                       "start_addr": "10.10.10.20"
                     }}
                                                                                                 {"start_addr": "172.26.1.20",
                        POST
                                   <wapi_url>/range
                                                                                                 "end_addr": "172.26.1.100"}
                     curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST
                     "https://127.0.0.1/wapi/v2.7/range?_return_fields%2B=start_addr,end_addr,member&_return_as_object=1" -d
                     '{"start_addr": "172.26.1.20", "end_addr": "172.26.1.100"}'
Add a DHCP range
                     {"result":
  reserved range
                      {"_ref":
                     "range/ZG5zLmRoY3BfcmFuZ2UkMTcyLjl2LjEuMjAvMTcyLjl2LjEuMTAwLy8vMC8:172.26.1.20/172.26.1.100/default",
                      "end addr": "172.26.1.100".
                      "network": "172.26.1.0/24",
                      "network_view": "default",
                      "start_addr": "172.26.1.20"
```

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

Search for a DHCP range by Extensible Attributes

	REST Method	API Call			
Operation	Sample cURL Command				
	Sample Output				
	GET	<wapi_url>/range?_return_fields%2B=extattrs&*Country:=France</wapi_url>			
Search ranges by EA		dmin:Infoblox -X GET '.0.0.1/wapi/v2.7/range?_return_fields%2B=extattrs&*Location:=Bangalore&_return_as_object=1"			
(ranges in Bangalore)	/test",	5zLmRoY3BfcmFuZ2UkMTAuMTAuMTAuMTUwLzEwLjEwLjEwLjIwMC8vLzEv:10.10.10.150/10.10.200			
	"end_addr": "10.10.10.200", "extattrs": {"Location": {"value": "Bangalore"}},				

```
"network": "10.10.10.0/24",

"network_view": "test",

"start_addr": "10.10.10.150"

}]}
```

DHCP Leases

	REST Method	API Call				
Operation		Sample cURL Command				
		Sample Output				
	GET	<wapi_url>/lease</wapi_url>				
	curl -k -u ad	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/lease?_return_as_object=1"				
Get DHCP leases	{"result": [{"_ref": "lease/ZG5zLmxlYXNIJDAvMTAuMTAuMC4yMDAvMC8:10.10.10.200/test", "address": "10.10.10.200", "network_view": "test" }, {"_ref": "lease/ZG5zLmxlYXNIJDAvMTAuMTAuMC4xOTUvMC8:192.168.1.100/default", "address": "192.168.1.100", "network_view": "default" }, {"_ref": "lease/ZG5zLmxlYXNIJDAvMTAuMTAuMC4xOTEvMC8:10.10.10.191/default", "address": "10.10.10.191", "network_view": "default" }]}					
	GET	<pre><wapi_url>/lease?address=172.26.1.250&_return_fields=binding_state,hardware,client_hostname,finger print&_max_results=1</wapi_url></pre>				
Get DHCP lease by	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/lease?address=172.26.1.250&_return_fields=binding_state,hardware,client_hostname,fin gerprint&_max_results=1&_return_as_object=1"					
IP Address	"binding_ "fingerpri	ease/ZG5zLmxlYXNIJDQvMTcyLjE2LjIwMC4xMDEvMC8:172.26.1.250/default1", _state": "ACTIVE", nt": "Cisco/Linksys SPA series IP Phone", e": "16:55:a4:1b:98:c9"				
	GET	<pre><wapi_url>/lease?client_hostname~=demo&_max_results=1&_return_fields=binding_state,hardware,clie nt_hostname,fingerprint</wapi_url></pre>				
Get a DHCP lease by hostname	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/lease?client_hostname~=demo&_max_results=1&_return_fields=binding_state,hardware, client_hostname,fingerprint&_return_as_object=1"					
	"binding_	ease/ZG5zLmxlYXNIJC8xOTluMTY4LjQuMy8wLzE3:192.168.4.3/Company%201", state": "STATIC", ostname": "test",				

"hardware": "12:34:56:78:91:23"
\frac{1}{2}

Grid management related scenarios

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

	REST Method	API Call	
Operation	Sample cURL Command		
	Sample Output		
Grid reference	GET	<wapi_url>/grid</wapi_url>	
	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/grid"		
	{"result": [{"_ref": "grid/b25lLmNsdXN0ZXlkMA:Infoblox"}]}		

Grid DNS properties

The *grid:dns* object supports DNS service management and configuration such as time-to-live (TTL) settings, zone transfers, queries, root name servers, dynamic updates, sort lists, Transaction Signatures (TSIG) for DNS and others, all at the grid level.

The service configurations of a grid are inherited by all members, zones, and networks unless you specifically override them for selected members, zones, and networks. For this reason, it is recommended that you configure services at the grid level before configuring member, zone and network services.

The Grid Member DNS (*member:dns*) object can be used to configure DNS properties for a Grid member, including enabling or disabling DNS services and other DNS service related parameters. Remember to set the corresponding *use* flag to true. The value of the field will only take effect when its use flag is true. Otherwise, Grid service configurations are inherited by all members.

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

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
	Sample Output				
	GET	<pre><wapi_url>/grid:dns?_return_fields%2B=max_cached_lif etime</wapi_url></pre>			
Get grid DNS properties	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/grid:dns?_return_fields%2B=max_cached_lifetime&_return_as_object=1"				
	1. –	d:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:In ed_lifetime": 86400	foblox",		

Modify grid DNS properties (max_cached_lifetime) at the Grid level	PUT	<pre><wapi_url>/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3 BlcnRpZXMkMA:Infoblox?_return_fields%2B=max_cach ed_lifetime</wapi_url></pre>	{"max_cached_lifetime":60000}	
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox?_return_ fields%2B=max_cached_lifetime&_return_as_object=1" -d '{"max_cached_lifetime":60000}'			
	{"result": {"_ref": "grid:dns/ZG5zLmNsdXN0ZXJfZG5zX3Byb3BlcnRpZXMkMA:Infoblox", "max_cached_lifetime": 60000 }}			
	GET	<pre><wapi_url>/member:dns?_return_fields%2B=max_cach ed_lifetime</wapi_url></pre>		
		in:Infoblox -X GET 0.1/wapi/v2.7/member:dns?_return_fields%2B=max_cached	d_lifetime&_return_as_object=1"	
Get member DNS properties	"host_name "ipv4addr": " "max_cache }, {"_ref": "mer "host_name "ipv4addr":	mber:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQw:infob ": "infoblox.localdomain", 172.26.1.2", d_lifetime": 86400 nber:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:memb ": "member1.localdomain", "172.26.1.3", ed_lifetime": 86400		
	PUT	<pre><wapi_url>/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvc GVydGllcyQx:member1.localdomain?_return_fields%2B =max_cached_lifetime</wapi_url></pre>	{"use_max_cached_lifetime": true, "max_cached_lifetime":80000}	
Modify grid DNS properties(max_cached_lifetime) at the member level	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/member:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:member1.localdomai n?_return_fields%2B=max_cached_lifetime&_return_as_object=1" -d '{"use_max_cached_lifetime": true,"max_cached_lifetime":80000}'			
	"host_name "ipv4addr":	mber:dns/ZG5zLm1lbWJlcl9kbnNfcHJvcGVydGllcyQx:meml ": "member1.localdomain", "172.26.1.3", ed_lifetime": 80000	ber1.localdomain",	

Members

Operation	REST Method	API Call	Sample Body
	Sample cURL Command		
		Sample Output	
Get members	GET	<wapi_url>/member</wapi_url>	

```
curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/member?_return_as_object=1"
                                       {"result":
                                        [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",
                                         "config_addr_type": "IPV4",
                                         "host_name": "infoblox.localdomain",
                                         "platform": "VNIOS",
                                          "service_type_configuration": "ALL_V4"
                                        {"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQx:member1.localdomain",
                                         "config_addr_type": "IPV4",
                                         "host_name": "member1.localdomain",
                                         "platform": "VNIOS",
                                         "service_type_configuration": "ALL_V4"
                                       }]}
                                         GET
                                                   <wapi_url>/member?_return_fields%2B=node_info
                                       curl -k -u admin:Infoblox -X GET
                                       "https://127.0.0.1/wapi/v2.7/member?_return_fields%2B=node_info&_return_as_object=1"
                                       {"result":
                                        [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",
                                         "config_addr_type": "IPV4",
                                         "host_name": "infoblox.localdomain",
                                          "node_info":
                                          [{"ha_status": "NOT_CONFIGURED",
                                           "hwid": "42017879A14D4EE9E59F6ABEC0E8F729",
                                           "hwmodel": "",
                                           "hwplatform": "VMWARE",
                                           "hwtype": "IB-V815",
                                           "lan2_physical_setting": {"auto_port_setting_enabled": true},
                                           "lan_ha_port_setting":
                                            {"ha_port_setting":
                                            {"auto_port_setting_enabled": true,
                                             "speed": "10"},
Get node information for all members
                                             "lan_port_setting": {"auto_port_setting_enabled": true}
                                            },
                                            "mgmt_physical_setting": {"auto_port_setting_enabled": true},
                                            "paid_nios": false,
                                            "physical_oid": "0",
                                            "service_status":
                                             [{"description": "Running",
                                              "service": "NODE_STATUS",
                                              "status": "WORKING"
                                              {"description": "2% - Primary drive usage is OK.",
                                              "service": "DISK_USAGE",
                                              "status": "WORKING"
                                              {"description": "172.26.1.2",
                                              "service": "ENET_LAN",
                                              "status": "WORKING"
                                              {"description": "7% - Database capacity usage is OK.",
                                               "service": "DB_OBJECT",
                                               "status": "WORKING"
```

```
{"service": "NTP_SYNC",
                                              "status": "INACTIVE"
                                              {"service": "VPN_CERT",
                                              "status": "WORKING"
                                              "v6_mgmt_network_setting":
                                               {"auto_router_config_enabled": false,
                                                "enabled": false
                                            }}],
                                            .....}
                                                   <wapi_url>/member?_return_fields%2B=service_status
                                         GET
                                       curl -k -u admin:Infoblox -X GET
                                       "https://127.0.0.1/wapi/v2.7/member?_return_fields%2B=service_status&_return_as_object=1"
                                       {"result":
                                       [{"_ref": "member/b25lLnZpcnR1YWxfbm9kZSQw:infoblox.localdomain",
                                        "config_addr_type": "IPV4",
                                        "host_name": "infoblox.localdomain",
                                        "platform": "VNIOS",
                                        "service_status":
                                         [{"description": "DHCP Service is working",
                                         "service": "DHCP",
                                          "status": "WORKING"
                                         {"description": "DNS Service is working",
                                          "service": "DNS",
                                          "status": "WORKING"
                                          {"description": "NTP Service is working",
                                          "service": "NTP",
Get Service Status for all members
                                          "status": "WORKING"
                                         },
                                          {"description": "Hard Disk: 0% - TFTP Service is inactive",
                                          "service": "TFTP",
                                          "status": "INACTIVE"
                                         },
                                          {"description": "Hard Disk: 0% - HTTP File Dist Service is inactive",
                                          "service": "HTTP_FILE_DIST",
                                          "status": "INACTIVE"
                                          {"description": "Hard Disk: 0% - FTP Service is inactive",
                                           "service": "FTP",
                                           "status": "INACTIVE"
                                          {"description": "CPU: 100%, Memory: 0%, Hard Disk: 0%",
                                           "service": "BLOXTOOLS",
                                           "status": "INACTIVE"
                                           {"description": "Captive Portal Service is inactive",
                                            "service": "CAPTIVE_PORTAL",
                                            "status": "INACTIVE"
```

	{"service": "HSM", "status": "UNKNOWN" }], "service_type_configuration": "ALL_V4" },]}			
Enable DHCP Service on a member	PUT	<pre><wapi_url>/member:dhcpproperties/ZG5zLm1lbWJlcl9kaGN wX3Byb3BlcnRpZXMkMQ:member1.localdomain</wapi_url></pre>	{"enable_dhcp":true}	
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X PUT "https://127.0.0.1/wapi/v2.7/member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkM Q:member1.localdomain?_return_as_object=1" -d '{"enable_dhcp":true}'			
	{"result": "member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain"}			

Services

Operation	REST Method	API Call	Sample Body
	Sample cURL Command		
Get grid service status	POST	<pre><wapi_url>/grid/b25lLmNsdXN0ZXIkMA:Infoblox?_function=r equestrestartservicestatus</wapi_url></pre>	{"service_option": "ALL"}
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/grid/b25ILmNsdXN0ZXIkMA:Infoblox?_function=requestrestartservicestatu s" -d '{"service_option": "ALL"}'		
Restart the services	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_function=r estartservices</wapi_url>	{"member_order" : "SIMULTANEOUSLY", "service_option": "ALL"}
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_function= restartservices" -d '{"member_order" : "SIMULTANEOUSLY", "service_option": "ALL"}'		
Restart the services when no restart action is required	POST	<wapi_url>/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_function=r estartservices</wapi_url>	{"member_order" : "SIMULTANEOUSLY", "restart_option":"FORCE _RESTART", "service_option": "ALL"}
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/grid/b25lLmNsdXN0ZXlkMA:Infoblox?_function= restartservices" -d '{"member_order" : "SIMULTANEOUSLY", "restart_option": "FORCE_RESTART", "service_option": "ALL"}'		
Get the pending changes	GET	<wapi_url>/grid:servicerestart:request:changedobject</wapi_url>	
	curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/grid:servicerestart:request:changedobject"		

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

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
	Sample Output			
	GET	<wapi_url>/vdiscoverytask</wapi_url>		
	curl -k -u a	dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.	7/vdiscoverytask?_return_as_object=1"	
Get vDiscovery tasks	"name": "\ "state": "\ }, {"_ref": "vdiscovery "name": "\ }, {"_ref": "vdiscovery overy", "name": "\ "state": "V }, {"_ref": "vdiscovery overy", "name": "\ "state": "V], {"_ref": "vdiscovery ovDiscovery "name": "	ytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRBenVyZs "Azure vDiscovery", WARNING" ytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRBV1Mgd AWS vDiscovery", VARNING" ytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRWTXdhc VMware vDiscovery", VARNING" ytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRPcGVuc3 ry", "Openstack vDiscovery", WARNING"	kRpc2NvdmVyeQ:AWS%20vDiscovery", mUgdkRpc2NvdmVyeQ:VMware%20vDisc	
Create a vDiscovery Task to discover the AWS environment	POST	<wapi_url>/vdiscoverytask</wapi_url>	'{"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_mapping_policy": "DIRECT", "public_network_view_mapping_policy": "DIRECT", "update_metadata": true,	

	"scheduled_run": {"_struct":"setting:schedule", "frequency": "HOURLY", "repeat": "RECUR", "minutes_past_hour": 1, "disable": true}}'		
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/vdiscoverytask?_return_fields=name,driver_type&_return_as_object=1" -d '{"name": "ec2.eu-west-1", "driver_type": "AWS", "fqdn_or_ip": "ec2.eu-west-1.amazonaws.com", "username": "test", "password": "test", "member": "infoblox.localdomain", "port": 443, "protocol": "HTTPS", "auto_consolidate_cloud_ea": true, "auto_consolidate_managed_tenant": true, "auto_consolidate_managed_vm": true, "merge_data": true, "private_network_view": "default", "private_network_view_mapping_policy": "DIRECT", "public_network_view": "default", "public_network_view_mapping_policy": "DIRECT", "update_metadata": true, "scheduled_run": {"_struct": "setting:schedule", "frequency": "HOURLY", "repeat": "RECUR", "minutes_past_hour": 1, "disable": true}}'		
	{"result": {"_ref": "vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRIYzluZXUtd2VzdC0x:ec2.eu-west-1", "driver_type": "AWS", "name": "ec2.eu-west-1" }}		
Start a vDiscovery task	POST /vdiscoverytask/ZG5zLmNkaXNjb3">wapi_url>/vdiscoverytask/ZG5zLmNkaXNjb3 {"action":"START"} west-1?_function=vdiscover_control		
	curl -k -u admin:Infoblox -H 'content-type: application/json' -X POST "https://127.0.0.1/wapi/v2.7/vdiscoverytask/ZG5zLmNkaXNjb3ZlcnlfdGFzayRIYzluZXUtd2VzdC0x:e eu-west-1?_function=vdiscovery_control" -d '{"action":"START"}'	c2.	

Permissions

	REST Method	API Call
Operation		Sample cURL Command
		Sample Output
	GET	<wapi_url>/permission</wapi_url>
	curl -k -u a	dmin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/permission?_return_as_object=1"
	{"result": [{"_ref":	
		n/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC4uLi4uY29tLmluZm9ibG9 yb2xlJEROUyBBZG1pbi4:DNS%20Admin/WRITE",
Get permissions		on": "WRITE",
		e_type": "VIEW", NS Admin"
	},	NO AUTIIII
	{"_ref":	
	"permissior	n/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy56b25lJC5zcmdfcm9vdC4uLmNvb
	S5pbmZvYmxveC5vbmUucm9sZSRETIMgQWRtaW4u:DNS%20Admin/WRITE",	
	"permissi	ion": "WRITE",
	"resource_type": "SHARED_RECORD_GROUP",	

```
"role": "DNS Admin"
                                  },
                                  . . . .
                                  {"_ref":
                                 permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXdfcGFyZW50J"
                                 C8uLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkR3JpZCBBZG1pbi5kbnMubXNfYWRfc2l0ZXNfZG9tYWlu:
                                 Grid%20Admin/WRITE",
                                  "permission": "WRITE",
                                  "resource_type": "MS_ADSITES_DOMAIN",
                                  "role": "Grid Admin"
                                }]}
                                   GET
                                            <wapi_url>/permission?role=DHCP%20Admin
                                 curl -k -u admin:Infoblox -X GET
                                 "https://127.0.0.1/wapi/v2.7/permission?role=DHCP%20Admin&_return_as_object=1"
                                 {"result":
                                 [{"_ref":
                                 permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXdfcGFyZW50J"
                                 C8uLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1pbi4:DHCP%20Admin/WRITE",
                                  "permission": "WRITE",
                                  "resource_type": "NETWORK_VIEW",
                                  "role": "DHCP Admin"
                                 },
                                 {"_ref":
Get permissions for a role (DHCP
                                 permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5kaGNwX21hY19maWx0ZXJfcGFy"
           Admin)
                                 ZW50JDAuLi5jb20uaW5mb2Jsb3gub25lLnJvbGUkREhDUCBBZG1pbi4:DHCP%20Admin/WRITE",
                                 "permission": "WRITE",
                                  "resource_type": "DHCP_MAC_FILTER",
                                  "role": "DHCP Admin"
                                  },
                                  . . . . .
                                  {"_ref":
                                 "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3BfcHJvcGVyd
                                 GllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5yb2xIJERIQ1AgQWRtaW4u:DHCP%20Admin/WRITE",
                                  "permission": "WRITE",
                                  "resource_type": "GRID_DHCP_PROPERTIES",
                                  "role": "DHCP Admin"
                                }]}
                                   GET
                                            <wapi_url>/permission?group=cloud-api-only
                                 curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/permission?group=cloud-api-only"
                                 {"result":
                                 [{"_ref":
                                 "permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2RoY3BfcHJvcGVyd
                                 GllcyQwLi4uY29tLmluZm9ibG94Lm9uZS5hZG1pbl9ncm91cCQuY2xvdWQtYXBpLW9ubHku:cloud-
  Get permissions for a group
                                 api-only/WRITE",
                                   "group": "cloud-api-only",
                                   "permission": "WRITE",
                                   "resource_type": "GRID_DHCP_PROPERTIES"
                                  },
                                 permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy50ZW5hbnRfcGFyZW50JGFsbC4u"
                                 LmNvbS5pbmZvYmxveC5vbmUuYWRtaW5fZ3JvdXAkLmNsb3VkLWFwaS1vbmx5Lg:cloud-api-
                                 only/WRITE",
```

```
"group": "cloud-api-only",
  "permission": "WRITE",
  "resource_type": "TENANT"
 {"_ref":
"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5uZXR3b3JrX3ZpZXdfcGFyZW50J
C8uLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-
only/WRITE",
  "group": "cloud-api-only",
  "permission": "WRITE",
  "resource_type": "NETWORK_VIEW"
  {"_ref":
"permission/b25lLmhpZXJfcnVsZSQuY29tLmluZm9ibG94LmRucy5jbHVzdGVyX2Ruc19wcm9wZXJ0
aWVzJDAuLi5jb20uaW5mb2Jsb3gub25lLmFkbWluX2dyb3VwJC5jbG91ZC1hcGktb25seS4:cloud-api-
only/WRITE",
   "group": "cloud-api-only",
  "permission": "WRITE",
  "resource_type": "GRID_DNS_PROPERTIES"
}]}
```

Export a database backup

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	POST	<wapi_url>/fileop?_function=getgriddata</wapi_url>	{"type": "BACKUP"}	
		dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/fileop?_function=getgriddata" -d '{"type": "BACKUf	"}'	
Initiate a backup	{"token": "eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2DO\nwJdyNqZwUcF8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQqxv9CYyCKCJpXAL+BO+yWcZubqKdww\n0WRm4CXshKxkI+W6XWyqZayhniaXcLI6Ir5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZIrg/lA0vP2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzUb/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY4vGKqfJ\nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktlaajF6ucpGgYHMifOmJyqNzku/CtWsM+b9l3Hsn6\nS8JPEyl5m7ENY33xBbQAllA=\n", "url": "https://127.0.0.1/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak" }			
	GET	<url><url_from_the_previous_output></url_from_the_previous_output>Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak</url>		
Download the backup	curl -k -u admin:Infoblox -H 'content-type: application/force-download' "https://127.0.0.1/http_direct_file_io/req_id-DOWNLOAD-1001/database.bak" -o "database.bak"			
	#database.bak file is saved in the present working directory#			
	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://127.0.0.1/wapi/v2.7/fileop?_function=downloadcomplete" -d '{"token" : "eJydUE1PwzAMvfuPjMvaplvWjdtQmYSENmlD4mi1STos2iQkGdr+PQ4SnDhxSOT4fcR+Sjl/w2DO\nwJdyNqZwUck F8ALuFNnB9aO7Fs6afNLNmwhtlzo8mgF8DQqxv9CYyCKCJpXAL+BO+yWcZubqKdww\n0WRm4CXshKxkl+W6Xh WyqZayhniaXcLl6lr5byn5eF+WoqkLpoiiLnMLNfFoCQcaDZlrg/lA0vP2\n8Lp/PmzbuagqUWqeqe+iKfrune2a7EyaqzU b/6VgaJNJWci1qJhXRt68O5syTf7fXwvxY4vGKqfJ\nnnO3Zv+Hp30uF7+EyekcjchptduXLR4fd/ktlaajF6ucpGgYHMiM OmJvqNzku/CtWsM+b9l3Hsn6\nS8JPEvl5m7ENY33xBbQAllA=\n"}'
	OmJyqNzku/CtWsM+b9l3Hsn6\nS8JPEyI5m7ENY33xBbQAlIA=\n"}'

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

Export a CSV file

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

	REST Method	API Call	Sample Body	
Operation		Sample cURL Command		
		Sample Output		
	POST	<wapi_url>/fileop?_function=csv_export</wapi_url>	{"_object": "record:host"}	
		dmin:Infoblox -H 'content-type: application/json' -X POST '.0.0.1/wapi/v2.7/fileop?_function=csv_export" -d '{"_object": "record	d:host"}'	
Initiate a CSV export	{"token": "eJylUMFuwjAMvftH4ELbFNrCbkwd2qQJJJi0o9UmKbPUJlkSEPz9nEnbabcdYjl+z89+ltK6O3p9\nBg7SmhD9RUbQmYSzKD7Ud7y6zR6cW70wHaLnZ41AO4EiRif6ExkkEERTKCW8JcuRWcZvrmyN8x\n0qRn4CrYiaqomqouVpusCtlZxmFz8yWjP/l0YXHvJcNGVW1pnlyjyVUBGvFnGgUSPZ3OtPJLVo\nD+/718O2XYiiEPmz5c3ZgFchk+HKik0S_XZmrX/amJok0iK/XAuCublgc13Z53Hyf1nuhA/yqiN\ntlrMOVVLHvH4sk/p8pcwWZUOJNLN2u3bFo9Pu/SvIMSjE3Vp2gYHEiPKmC0KO3kOv/dtYZ9Mtp3\nDsm4S8Sr9oGsSdiGsT77AjVimUo=\n", "url": "https://127.0.0.1.2/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv" }			
	GET	<url><url_from_the_previous_output></url_from_the_previous_output>Example: https://x.x.x.x/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv</url>		
Download the CSV file	curl -k -u admin:Infoblox -H 'content-type: application/force-download' "https://127.0.0.1/http_direct_file_io/req_id-DOWNLOAD-1001/Hostrecords.csv" -o "Hostrecords.csv"			
	#Hostrecords.csv file is saved in the present working directory#			
	POST	<wapi_url>/fileop?_function=downloadcomplete</wapi_url>	{"token": "eJyIUMo="}	
Remove the stored file using the token	"eJylUMFuwjAMvftH4ELbFNrCbkwd2qQJJJI009UmKbPUJIkSEPz9nEnbabcdYjI+z89+lfK6U3p9\nBg/Sr		vrmyN8x\n0qRn4CrYiaqomqouVpus4V I8O2XYiiEPmz5c3ZgFchk+HKik0SJ8 WZUOJNLN2u3bFo9Pu/SvIMSjE3W6	

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.

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
		Sample Output		
Export results of a	POST	<wapi_url>/fileop?_function=read</wapi_url>	{"_encoding":"JSON", "_filename":"allhosts.info.com.json", "_object":"record:host", "_return_fields":"name,extattrs", "zone":"info.com"}	
WW Todai	"https://127	dmin:Infoblox -H 'content-type: application/json' -X POST 7.0.0.1/wapi/v2.7/fileop?_function=read" -d rg":"JSON","_filename":"allhosts.info.com.json","_object":"record:ho rm"}'	st","_return_fields":"name,extattrs","zo	

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

Import a file (Certificate)

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

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
		Sample Output			
	POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>			
		dmin:Infoblox -H 'content-type:application/json' -X POST 7.0.0.1/wapi/v2.7/fileop?_function=uploadinit"			
Initiate file upload	{"token": "eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY4W22SDkttYpIUbX9PMgQXbhwS2X7PL3IPSssXdP GawDFnAjyQy2H+05t0anEy6sPWy70OFBD8AVSMR+pjGQQQRFMgAv4UbxLRwzfWZyFww0\n60 XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVeFWmEiuLXAg40aiRbOP2BpBZv\nL0/Pm+1ClKUoa0 qPqXHoE2UVT0EWtRRlbho+nupIsw8f9eFeJHE7WRVpE5pWkV\nxe8f96lc/hImq64rKaXt5nWDh4d GdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FM7\nT9Ykrl1Yn38Bt1KUqw==\n", "url": "https://172.26.1.2/http_direct_file_io/req_id-UPLOAD-1001/import_file" }				
Upload contents of a CA certificate	POST	<url continued="" td="" the="" the<="" to="" =""><td>file=@ca.cert.pem</td></url>	file=@ca.cert.pem		
		dmin:Infoblox -H 'content-type:multipart-formdata' "https://127.0.0.0 tt_file" -F file=@ca.cert.pem	1/http_direct_file_io/req_id-UPLOAD-		

	POST	<wapi_url>/fileop?_function=uploadcertificate</wapi_url>	{"certificate_usage":"EAP_CA", "member": "infoblox.localdomain", "token":"eJydk=="}
Upload the CA Certificate	"https://127 "infoblox.lo PL3IPSssX WZyFww0\ Pm+1CIKU	dmin:Infoblox -H 'content-type:application/json' -X POST '.0.0.1/wapi/v2.7/fileop?_function=uploadcertificate" -d '{"certificate caldomain","token":"eJydUMFOwzAMvftHymVt09Fu5TY0JiGhgTY dPoE\n8ZLW+OBmGawDFnAjyQy2H+05t0anEy6sPWy70OFBD8, n6Qy4hp2oy3pVN1XT5GXZtmIF/pjNboxoE/nvIbC/KwqxqvKqyUVe oaGLrvhIR6ypLKlbrqPqXHoE2UVT0EWtRRlbho+nuplsw8f9eFeJH h4dd6mvw4cCiSQnGdI7ZQHpUHoNFaSfu3HVrDftksO8YyfAc8FN	4W22SDkttYpIUbX9PMgQXbhwS2X7 AVSMR+pjGQQQRFMgAv4UbxLRwzf eFWmEiuLXAg40aiRbOP2BpBZv\nL0/ HE7WRVpE5pWkV\nxe8f96lc/hlmq64r

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

Import a CSV file

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

	REST Method	API Call	Sample Body
Operation		Sample cURL Command	
		Sample Output	
	POST	<wapi_url>/fileop?_function=uploadinit</wapi_url>	
		dmin:Infoblox -H 'content-type:application/json' -X POST 7.0.0.1/wapi/v2.7/fileop?_function=uploadinit"	
Initiate file upload	{"token": "eJydUE1PwzAMvfuPbJe1Tbe2G7ehMQkJDbTB2WqTdFhqk5CkaPv3OENw4cYhkeP34TxLad0VvT4D\nX9KaE o/XgBMwlmd52g71k1uh04tXpALs2tnjUPbgSJGl30RDJIIliGcEtYa7cCk4zfXHkrxhp\n1DNwFexFVVRNVddVk4l6t Gwin2eQHhmsWvMfowl2ei6bMyjoTWZmnFiriv0XsadBlNvf6A0kt\n3l6enre7hSiKMqfRWf/NYK8m2ZLias2uf+kM3 DsK1KJiVB07dnnUeR/e/qUL8eKI20ioy59Qt\n2fz+8ZDK5S9htOomSWvabV+3eHzYp3cFIR6dqNMKRcNgT3pQA FaUfX+ptqDYcUsGsdknFTxE/t\nA1mTsA1jXfYFNGOU6g==\n", "url": "https://172.26.1.2/http_direct_file_io/req_id-UPLOAD-1002/import_file" }		
Upload contents of the CSV file	POST	<url_from_the_previous_output> Example: https://x.x.x.x/http_direct_file_io/req_id-UPLOAD- 1002/import_file</url_from_the_previous_output>	file=@HostRecords.csv
the CSV file		dmin:Infoblox -H 'content-type:multipart-formdata' "https://127.0.0. rt_file" -F file=@HostRecords.csv	1/ http_direct_file_io/req_id-UPLOAD-
Upload the CSV file	POST	<wapi_url>/fileop?_function=csv_import</wapi_url>	{"action":"START", "on_error":"CONTINUE", "update_method":"MERGE", "token":"eJydU=="}
	"https://127 '{"action":"\$ hMQkJDb1	dmin:Infoblox -H 'content-type:application/json' -X POST 7.0.0.1/wapi/v2.7/fileop?_function=csv_import" -d BTART","on_error":"CONTINUE","update_method":"MERGE","toko B2WqTdFhqk5CkaPv3OENw4cYhkeP34TxLad0VvT4D\nX9KaEF B130RDJIIliGcEtYa7cCk4zfXHkrxhp\n1DNwFexFVVRNVddVk4l6to	P0ko/XgBMwlmd52g71k1uh04tXpALs2t

 $\label{thm:prop:constraint} WZmnFiriv0XsadBINvf6A0kt\n3l6enre7hSiKMqfRWf/NYK8m2ZLias2uf+kM3CYrDsK1KJiVB07dnnUeR/e/qUL8eKI20ioy59Qt\n2fz+8ZDK5S9htOomSWvabV+3eHzYp3cFIR6dqNMKRcNgT3pQAaNFaUfX+ptqDYcUsGsdknFTxE/t\nA1mTsA1jXfYFNGOU6g==\n"}'$

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

Sample paging request

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

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

	REST Method	API Call			
Operation	Sample cURL Command				
	Sample Output				
	GET	GET <wapi_url>/record:host?_paging=1&_return_as_object=1&max_results=4</wapi_url>			
		curl -k -u admin:Infoblox -X GET "https://127.0.0.1/wapi/v2.7/record:host?_paging=1&_return_as_object=1&_max_results=4"			
Fetch the first 4 host records	1b70eb3ab 313f6c8103 4a09a83f9c beb836a76 8ef43fe767 "result": [{"_ref": "re "ipv4addr "configu "host": "ipv4add }], "name": " "view": "d }, {"_ref": "re cord:hos 1.1.25/sen "configu "host":	4d4ec3301085f77391744354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce260 45b8ed207b7d82257b4a58334d0a48372eb569acba466c7f400d35e305579e6fb083b9b8e4da6ee3237cd334c2 3d123b8131981ea498810e83b1d4bc998a19d2197686657ac17b8fd1f55a1507afe49e8842ba8091526f61a921 4ca990c41eaef52d09c11504d7f5983f55b614277e7b96aa7265321261b084353470fca939634599b0841a304af4 4d73cb5155655c5e0d482ce5034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c5 4d55dad07f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371", 4ecord:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Q:host.info.com/default", 4rs": **st_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaG9zdC4xMC4xMC4xMC4yMC4: 40/host.info.com/default", 4dr": "10.10.10.20" **thost.info.com", 4default" **st_ipv4addr/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLnNlcnZlcjE:server1.demo.com/default", 4dr": "10.10.10.20"			

```
}],
  "name": "server1.demo.com",
 "view": "default"
 {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5kZW1vLm1vbml0b3l:monitor.demo.com/default",
 "ipv4addrs":
  [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmRlbW8ubW9uaXRvci4xLjEuMS41MC4:1.
1.1.50/monitor.demo.com/default",
   "configure_for_dhcp": false,
   "host": "monitor.demo.com",
   "ipv4addr": "1.1.1.50"
 }],
 "name": "monitor.demo.com",
  "view": "default"
 {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnRlc3Q:test.info.com/default",
  [{"_ref":
record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8udGVzdC4yLjluMi4xMTAu:2.2.2.1"
10/test.info.com/default",
   "configure_for_dhcp": false,
   "host": "test.info.com",
   "ipv4addr": "2.2.2.110"
  "name": "test.info.com",
  "view": "default"
}]}
```

GET

<wapi_url>/record:host?_paging=1&_return_as_object=1&_page_id=789c55904d4ec3301085f77391744354
a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce2601b70eb3ab5b8ed207b7d82
257b4a58334d0a48372eb569acba466c7f400d35e305579e6fb083b9b8e4da6ee3237cd334c2313f6c8103d1
23b8131981ea498810e83b1d4bc998a19d2197686657ac17b8fd1f55a1507afe49e8842ba8091526f61a9214a
09a83f9ca990c41eaef52d09c11504d7f5983f55b614277e7b96aa7265321261b084353470fca939634599b08
41a304af4beb836a7673cb5155655c5e0d482ce5034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0
ca9536fd87065e3a1c58ef43fe767355dad07f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371

curl -k -u admin:Infoblox -X GET

Query the next set of records

"https://127.0.0.1/wapi/v2.7/record:host?_paging=1&_return_as_object=1&_page_id=789c55904d4ec3301085f77391744 354a7296db9413615a207b0fc1b8c128f653ba2bd3d330681d858f237efcd7bf6ce2601b70eb3ab5b8ed207b7d82257b4a5 8334d0a48372eb569acba466c7f400d35e305579e6fb083b9b8e4da6ee3237cd334c2313f6c8103d123b8131981ea49881 0e83b1d4bc998a19d2197686657ac17b8fd1f55a1507afe49e8842ba8091526f61a9214a09a83f9ca990c41eaef52d09c115 04d7f5983f55b614277e7b96aa7265321261b084353470fca939634599b0841a304af4beb836a7673cb5155655c5e0d482c e5034416a511fc931bf50343f29db97772cec1d5ad2ff7f652ce0ca9536fd87065e3a1c58ef43fe767355dad07f014b0f819a-e4718db1318cfc3099a781c541542ccd82f4738853cf5c1a2b0b371"

{"next_page_id":

"789c55904b6ec3300c44f7bc88b3322cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0bdc1e4ca9e36e5835b6c562bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e40c26fbf689b910b9721f67a9b07924203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89924182516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b584305971798b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad987547f20075aa083dcfe0072798173-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e",

"result":

"ipv4addrs":

```
[{"_ref":
                 record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uczEuMTAuMTAuMTAuMjAu:10.1"
                 0.10.20/s1.info.com/default",
                    "configure_for_dhcp": false,
                    "host": "s1.info.com",
                    "ipv4addr": "10.10.10.20"
                   }],
                   "name": "s1.info.com",
                   "view": "default"
                  {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmgy:h2.info.com/default",
                   "ipv4addrs":
                   [{"_ref":
                 record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uaDluNS41LjUuOTAu:5.5.5.90/h2.i"
                 nfo.com/default",
                    "configure_for_dhcp": false,
                    "host": "h2.info.com",
                    "ipv4addr": "5.5.5.90"
                   }],
                   "name": "h2.info.com",
                   "view": "default"
                  {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmUy:e2.info.com/default",
                   "ipv4addrs":
                   [{"_ref":
                 "record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RIZmF1bHQuY29tLmluZm8uZTluOS45LjkuMTAwLg:9.9.9.100
                 /e2.info.com/default",
                    "configure_for_dhcp": false,
                    "host": "e2.info.com",
                    "ipv4addr": "9.9.9.100"
                  }],
                   "name": "e2.info.com",
                   "view": "default"
                  {"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmRldnN0YWNr:devstack.info.com/default",
                   "ipv4addrs":
                   [{"_ref":
                 record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8uZGV2c3RhY2suMTcyLjl2LjEuMjA"
                 u:172.26.1.20/devstack.info.com/default",
                    "configure_for_dhcp": false,
                    "host": "devstack.info.com",
                    "ipv4addr": "172.26.1.20"
                  }],
                   "name": "devstack.info.com",
                    "view": "default"
                 }]}
                             <wapi_url>/record:host?_paging=1&_return_as_object=1&_page_id=789c55904b6ec3300c44f7bc88b3322c
                            d9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0bdc1e4ca9e36e5835b6c562
                            bdadc4094a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54aa9e138c0393ff734938c38df1f
                            4559ed1517da188e40c26fbf689b910b9721f67a9b07924203a3006e39346cfa0d8bce5927653309128e060d8
Query the next
                   GET
set of records
                            382df8687173eda4b38377ea1f89924182516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27c
                            b89a7df1373d1899712e7d7414b584305971798b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c739928
                            64e3c769ffe3e226555aad987547f20075aa083dcfe0072798173-
                            a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e
```

```
curl -k -u admin:Infoblox -X GET
"https://127.0.0.1/wapi/v2.7/record:host?_paging=1&_return_as_object=1&_page_id=789c55904b6ec3300c44f7bc88b33"
22cd9f9f506de0445730041d6c755619b8224a3c9ed4b0a69812ef966c82179b051c0bdc1e4ca9e36e5835b6c562bdadc40
94a43490efcd4aba8a7a764c7b183bc154a799eb010e361eab4d3f54aa9e138c0393ff734938c38df1f4559ed1517da188e4
0c26fbf689b910b9721f67a9b07924203a3006e39346cfa0d8bce5927653309128e060d8382df8687173eda4b38377ea1f89
924182516adac352c2a61450b43385780fb7f21145dd5e1c690d8fe95b27cb89a7df1373d1899712e7d7414b58430597179
8b1a08a984309b829f43ebbaa5f61ec59b7ba687e65c73992864e3c769ffe3e226555aad987547f20075aa083dcfe0072798
173-a0384f2ecdda419caa42aba69cb40f4827127cd8d59201fdd873f5e"
[{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLnJvdXRlcg:router.info.com/default",
 "ipv4addrs":
 [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLmluZm8ucm91dGVyLjEwMC4xMC4xMC4x
Lg:100.10.10.1/router.info.com/default",
  "configure_for_dhcp": false,
  "host": "router.info.com",
  "ipv4addr": "100.10.10.1"
 }],
 "name": "router.info.com",
 "view": "default"
```

Multiple Object Body Feature using /request

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

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

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

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

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

Get records of multiple record types

	REST Method	API Call	Sample Body
Operation		Samp	le cURL Command
		S	Sample Output
Get Host/A/PTR records	POST	<wapi_url>/request</wapi_url>	[{"method": "GET", "object": "record:host", "data": {}, "args":{"_return_fields":"name,dns_name,aliases,dns_aliases,ipv

```
4addrs,configure_for_dns"}},
                                                    {"method": "GET",
                                                    "object": "record:a",
                                                    "data": {}, "args": {}},
                                                    {"method": "GET",
                                                    "object": "record:ptr",
                                                    "data": {}, "args": {}}]
curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/request" -d
"[{"method":"GET","object":"record:host","data":{},"args":{"_return_fields":"name,dns_name,aliases,dns_aliases,ipv4addr
s,configure_for_dns"}},{"method": "GET","object": "record:a","data": {},"args": {}},{"method": "GET","object":
"record:ptr","data": {},"args": {}}]
[[{"_ref": "record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default",
  "configure_for_dns": true,
  "dns_name": "host1.test.com",
  "ipv4addrs":
  [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuX2RlZmF1bHQuY29tLnRlc3QuaG9zdDEuMTcyLjl2LjEuMjEu:1
72.26.1.21/host1.test.com/default",
   "configure_for_dhcp": false,
   "host": "host1.test.com",
   "ipv4addr": "172.26.1.21"
   },
  {"_ref": "record:host/ZG5zLmhvc3QkLjEuY29tLmluZm8ubWFpbGVy:mailer.info.com/default.test",
  "configure_for_dns": true,
  "dns_name": "mailer.info.com",
  "ipv4addrs":
   [{"_ref":
"record:host_ipv4addr/ZG5zLmhvc3RfYWRkcmVzcyQuMS5jb20uaW5mby5tYWlsZXIuMTAuMS4xLjEwMC4:10.1.1.100
/mailer.info.com/default.test",
   "configure_for_dhcp": false,
   "host": "mailer.info.com",
   "ipv4addr": "10.1.1.100",
   "mac": "aa:bb:cc:11:22:33"
  "name": "mailer.info.com"
}],
[{"_ref":
record:a/ZG5zLmJpbmRfYSQuX2RIZmF1bHQuY29tLmluZm8sdGVzdC5ob3N0LDE3Mi4yNi4xLjEwMA:host.test.info.c
om/default".
  "ipv4addr": "172.26.1.100",
  "name": "host.test.info.com",
  "view": "default"
 },
 {"_ref":
"record:a/ZG5zLmJpbmRfYSQuX2RlZmF1bHQuY29tLmluZm8sc2VydmVyLDEwLjEwLjEwLjl:server.info.com/default",
  "ipv4addr": "10.10.10.2",
  "name": "server.info.com",
  "view": "default"
 [{"_ref":
record:ptr/ZG5zLmJpbmRfcHRyJC5fZGVmYXVsdC5hcnBhLmluLWFkZHluMTI3LjAuMC4xLmxvY2FsaG9zdA:1.0.0.12
7.in-addr.arpa/default",
  "ptrdname": "localhost",
   "view": "default"
```

```
},
....
{"_ref":

"record:ptr/ZG5zLmJpbmRfcHRyJC4yLmFycGEuaXA2LjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4wLjAuMC4w
```

Delete a host record

	REST Method	API Call	Sample Body
Operation		San	nple 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:##"}, "assign_state": {"host_ref": "_ref"}, "enable_substitution": true,"discard": true}, { "method": "DELETE", "object": "##STATE:host_ref:##", "enable_substitution": true,"discard": true}, {"method": "STATE:DISPLAY"}]
	curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/request" -d [{"method": "STATE:ASSIGN", "data": {"host_name": "host1.test.com"}}, {"method": "GET", "object": "record:host", "data": {"name": "##STATE:host_name: ## "}, "assign_state": {"host_ref": "_ref"}, "enable_substitution": true, "discard": true}, { "method": "DELETE", "object": "##STATE:host_ref:##", "enable_substitution": true, "discard": true}, {"method": "STATE:DISPLAY"}]' [{"host_name": "host1.test.com",		
	"host_ref" }]	: "record:host/ZG5zLmhvc3QkLl9kZW	/ZhdWx0LmNvbS50ZXN0Lmhvc3Qx:host1.test.com/default"

Get next available IP address

	REST Method	API Call	Sample Body		
Operation	Sample cURL Command				
			Sample Output		
Get next available IP address	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}]
'[{"method": "GET","object": "netwo	nt-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/request" -d ork","data": {"network": "192.168.1.0/24"},"assign_state": {"netw_ref": "POST","object": "##STATE:netw_ref:##","args": {"_function": titution": true}]'
[{"ips": ["192.168.1.1"]}]	

Pre-provision a Grid member

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
			Sample Output	
Pre-provision a grid member	POST	<wapi_url>/request</wapi_url>	[{"method": "POST", "object": "member", "data": {"host_name": "autojoin01.localdomain",	
	"[{"method" "172.16.0.1 "VNIOS"}," "##STATE:	: "POST","object": "member","c 60","gateway": "172.16.0.1","s assign_state": {"member_ref": member_ref:##","enable_subs	application/json' -X POST "https://127.0.0.1/wapi/v2.7/request" -d data": {"host_name": "autojoin01.localdomain","vip_setting": {"address": subnet_mask": "255.255.255.0"},"config_addr_type": "IPV4","platform": "_ref"},"enable_substitution": true, "discard": true}, {"method": "PUT","object": stitution": true,"data": {"pre_provisioning":{"hardware_info": [{"hwmodel": "IB-s": ["dhcp","dns","enterprise","vnios","rpz"]}}},{"method": "STATE:DISPLAY"}]'	
["member/b25lLnZpcnR1YWxfbm9kZSQy:autojoin01.infoblox", {"member_ref": "member/b25lLnZpcnR1YWxfbm9kZSQy:autojoin01.infoblox"}]				

Enable DHCP service on a member

	REST Method	API Call	Sample Body
Operation			Sample cURL Command
			Sample Output
Enable the DHCP service on a member	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"}]
	curl -k -u admin:Infoblox -H 'content-type:application/json' -X POST "https://127.0.0.1/wapi/v2.7/request" - d [{"method": "STATE:ASSIGN", "data": {"member_name": "member1.localdomain"}}, {"method": "GET", "object": "member:dhcpproperties", "data": {"host_name": "##STATE:member_name:##"}, "assign_state": {"host_ref": "_ref"}, "enable_substitution": true, "discard": true}, { "method": "PUT", "object": "##STATE:host_ref:##", "enable_substitution": true, "data": {"enable_dhcp":true}}, {"method": "STATE:DISPLAY"}]' ["member:dhcpproperties/ZG5zLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain",		ember_name":"member1.localdomain"}},{"method":"GET","object": ame":"##STATE:member_name:##"},"assign_state": {"host_ref": ": true},{ "method": "PUT", "object": on": true,"data": {"enable_dhcp":true}},{"method": "STATE:DISPLAY"}]' cl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain", szLm1lbWJlcl9kaGNwX3Byb3BlcnRpZXMkMQ:member1.localdomain",

Get permissions for an object

	REST Method	API Call	Sample Body	
Operation	Sample cURL Command			
			Sample Output	
Get permissions for an object	POST	<wapi_url>/request</wapi_url>	[{"method": "STATE:ASSIGN", "data": {"zone_name": "test.org"}}, {"method": "GET", "object": "zone_auth", "data": {"fqdn": "##STATE:zone_name:##"}, "assign_state": {"zone_ref": "_ref"}, "enable_substitution": true,"discard": true}, {"method": "GET", "object": "permission", "enable_substitution": true }, {"method": "STATE:DISPLAY"}]	
	'[{"method" {"fqdn": "##	: "STATE:ASSIGN","data": {"zone_nai !STATE:zone_name:##"},"assign_stat	tion/json' -X POST "https://127.0.0.1/wapi/v2.7/request" -d me": "test.org"}},{"method": "GET","object": "zone_auth","data": e": {"zone_ref": "_ref"},"enable_substitution": true,"discard": nable_substitution": true },{"method": "STATE:DISPLAY"}]'	

Sample Codes

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

Python

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

Network Object	REST Operation	Sample Python Programme
	GET	import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1" response = requests.request("GET", url, auth=('admin', 'Infoblox'), verify=False) print(response.text)
HOST record	GET	#This example demonstrates the use of cookies(ibapauth)# import requests import copy requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1" response = requests.request("GET", url, auth=('admin', 'Infoblox'), verify=False) authcookie = copy.copy(response.cookies['ibapauth'] print(authcookie) print(response.text) #You can re-use the authcookie in subsequent API calls# response_using_cookie = requests.request("GET", url, cookies=authcookie, verify=False) print(response_using_cookie.text)
	GET	#This example demonstrates how you can work with large results using paging# import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1" querystring = {"_max_results":"20","_paging":"1","_return_as_object":"1"} response = requests.request("GET", url, auth=('admin', 'Infoblox'), params=querystring,verify=False) print(response.text) next_page_id = response.json()['next_page_id']

	T
	<pre>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	import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1" payload = "{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"}]}" headers = {'content-type': "application/json"} response = requests.request("POST", url, auth=('admin', 'Infoblox'), data=payload, headers=headers, verify=False) print(response.text)
POST (using the 'session' method tha automaticall handles the session cookies, etc when you perform multiple POST/GET	wapi_session.auth = ('user', 'passwd') payload = '{"name": "host.info.com", "ipv4addrs": [{"ipv4addr": "172.26.1.20"}]}' headers = { 'content-type': "application/json" } # WAPI call POST /record:host # response = wapi_session.post(wapi_url+"/record:host?_return_as_object=1", data=payload, headers=headers, auth=(user, passwd), verify=False) # Error handling #
PUT	import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.inf o.com/default?_return_as_object=1" payload = "{\"name\":\"host1.info.com\"}" headers = {'content-type': "application/json"} response = requests.request("PUT", url, auth=('admin', 'Infoblox'), data=payload, headers=headers, verify=False) print(response.text)
DELETE	import requests requests.packages.urllib3.disable_warnings() # Disable SSL warnings in requests # url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.inf o.com/default?_return_as_object=1" headers = {'content-type': "application/json"}

	response = requests.request("DELETE", url, auth=('admin', 'Infoblox'), headers=headers, verify=False)
	print(response.text)

Powershell

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

Function Description	Function Contents
Function to ignore Self- Signed Certificates	function Ignore-SelfSignedCerts { try { Write-Host "Adding TrustAllCertsPolicy type." -ForegroundColor White Add-Type -TypeDefinition @" using System.Net; using System.Security.Cryptography.X509Certificates; public class TrustAllCertsPolicy : ICertificatePolicy { public bool CheckValidationResult(

Network Object	REST Operation	Sample Powershell Code
	GET	Ignore-SelfSignedCerts \$\text{surl} = \text{"https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1"} \$\text{pwd} = \text{ConvertTo-SecureString "Infoblox" -AsPlainText -Force} \$\text{creds} = \text{New-Object Management.Automation.PSCredential ('admin', \$\text{pwd})} \$\text{Invoke-RestMethod -Uri \$\text{url} -Method GET -Credential \$\text{creds}\$
HOST record	GET	#This example demonstrates the use of cookies(ibapauth)# Ignore-SelfSignedCerts \$url = "https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1" \$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force \$creds = New-Object Management.Automation.PSCredential ('admin', \$pwd) Invoke-RestMethod -Uri \$url -Method GET -Credential \$creds -SessionVariable authcookie #You can re-use the authcookie in subsequent API calls# Invoke-RestMethod -Uri \$url -Method GET -WebSession \$authcookie

	POST	Ignore-SelfSignedCerts \$url = "https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1" \$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force \$creds = New-Object Management.Automation.PSCredential ('admin', \$pwd) \$host_details = @{ name="host.info.com" ipv4addrs=@(@{ipv4addr="172.26.1.20"})} \$body = \$host_details ConvertTo-Json Invoke-RestMethod -Uri \$url -Method POST -Credential \$creds -ContentType 'application/json' -Body \$body
	PUT	Ignore-SelfSignedCerts \$url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info. com/default?_return_as_object=1" \$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force \$creds = New-Object Management.Automation.PSCredential ('admin', \$pwd) \$host_details = @{ name="host1.info.com"} \$body = \$host_details ConvertTo-Json Invoke-RestMethod -Uri \$url -Method PUT -Credential \$creds -ContentType 'application/json' -Body \$body
	DELETE	Ignore-SelfSignedCerts \$url = "https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info. com/default?_return_as_object=1" \$pwd = ConvertTo-SecureString "Infoblox" -AsPlainText -Force \$creds = New-Object Management.Automation.PSCredential ('admin', \$pwd) Invoke-RestMethod -Uri \$url -Method DELETE -Credential \$creds

Java

Using Java Unirest

Network Object	REST Operation	Sample Java Unirest Code
HOST record	GET	HttpResponse <jsonnode> response = Unirest.get("https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .asJson();</jsonnode>
	POST	HttpResponse <jsonnode> response = Unirest.post("https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .header("content-type", "application/json") .body("{\"name\":\"host.info.com\\",\"ipv4addrs\\": [{\"ipv4addr\":\"172.26.1.20\\"}]}") .asJson();</jsonnode>
	PUT	HttpResponse <jsonnode> response = Unirest.put("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3 Qx:host.info.com/default?_return_as_object=1") .header("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .header("accept", "application/json") .header("content-type", "application/json")</jsonnode>

	.body("{\"name\":\"host1.info.com\"}") .asJson();
DELETE	HttpResponse <jsonnode> response = Unirest.delete("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhv c3Qx: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>

Using Java OkHttpClient

Network Object	REST Operation	Sample Java OkHttpClient Code
HOST record	GET	OkHttpClient client = new OkHttpClient(); Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1") .get() .addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .build(); Response response = client.newCall(request).execute();
	POST	OkHttpClient client = new OkHttpClient(); MediaType mediaType = MediaType.parse("application/json"); RequestBody body = RequestBody.create(mediaType, "{\"name\":\"host.info.com\",\"ipv4addrs\":\"172.26.1.20\"}]}"); Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host?_return_as_object=1") .post(body) .addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .addHeader("content-type", "application/json") .build(); Response response = client.newCall(request).execute();
	PUT	OkHttpClient client = new OkHttpClient(); MediaType mediaType = MediaType.parse("application/json"); RequestBody body = RequestBody.create(mediaType, "{\"name\\":\"host1.info.com\\"}"); Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.i nfo.com/default?_return_as_object=1") .put(body) .addHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g=") .addHeader("content-type", "application/json") .build(); Response response = client.newCall(request).execute();
	DELETE	OkHttpClient client = new OkHttpClient(); Request request = new Request.Builder() .url("https://127.0.0.1/wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.i nfo.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("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host?_return_as_object=1",Method.GET); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); IRestResponse response = client.Execute(request); var results = response.Data;
	POST	ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host?_return_as_object=1",Method.POST); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); request.AddHeader("content-type", "application/json"); request.AddParameter("application/json", "{\"name\":\"host.info.com\",\"ipv4addrs\": [{\"ipv4addr\":\"172.26.1.20\"}]}", ParameterType.RequestBody); IRestResponse response = client.Execute(request); var results = response.Data;
	PUT	ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.co m/default?_return_as_object=1",Method.PUT); request.AddHeader("authorization", "Basic YWRtaW46aW5mb2Jsb3g="); request.AddHeader("content-type", "application/json"); request.AddParameter("application/json", "{\"name\":\"host1.info.com\"}", ParameterType.RequestBody); IRestResponse response = client.Execute(request); var results = response.Data;
	DELETE	ServicePointManager.ServerCertificateValidationCallback +=(sender, certificate, chain, sslPolicyErrors) =>true; //Disable SSL Warnings// var client = new RestClient("127.0.0.1"); var request = new RestRequest("wapi/v2.7/record:host/ZG5zLmhvc3QkLl9kZWZhdWx0LmNvbS5pbmZvLmhvc3Qx:host.info.co m/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