

FortiOS - REST API Reference

Version 6.0.6

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FortiOS 6.0.6 REST API Reference

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Change Log

Date	Change Description
2019-07-18	Initial release.

Introduction

All requests to FortiOS REST APIs require valid authentication and authorization before being processed.

The following REST APIs are supported:

- CMDB API
 - Retrieve object meta data (default, schema)
 - Retrieve object/table (with filter, format, start, count, other flags)
 - Create object
 - Modify object
 - Delete object
 - Clone object
 - Move object
- Monitor API
 - Retrieve/Reset endpoint stats (with filter, start, count)
 - Perform endpoint operations
 - Upload/Download file
 - Restore/Backup config
 - Upgrade/Downgrade firmware
 - Restart/Shutdown FGT

What's New in the REST API

Updated APIs

Method	URI	Description	Change Summary
POST	api/v2/monitor/registration/forticare	Create a new FortiCare account.	Removed the <code>fax</code> parameter.

Authentication

Starting in FortiOS 5.6.1, there are two ways that user can authenticate against the API:

- Session-based authentication (legacy)
- Token-based authentication (5.6.1 and newer)

Session-based authentication

As the name suggests, the authentication is valid per login session. The user needs to send a login request to obtain a authentication cookie and CSRF token to be used for subsequent requests. The user then needs to send a logout request to invalidate the authentication cookie and CSRF token.

Authentication Cookie

Authentication cookie (APSCCOOKIE) is provided by the API after a successful login request. All subsequent requests must include this cookie to be authorized by the API. Any request without the cookie or with mismatched cookie will be denied access to the API (HTTP 401 error code).

CSRF Tokens

Cross-Site Request Forgery (CSRF) Tokens are alphanumeric values that are passed back-and-forth between client and server to ensure that a user's form submission does not originate from an offsite document.

The CSRF token is available in the session `ccsrftoken` cookie, which must be included in the request header under `X-CSRFToken`. See test script sample for how to handle CSRF token.



Only write requests (HTTP POST/PUT/DELETE) need CSRF tokens. Read requests (HTTP GET) do not require CSRF tokens.

Setting Up an Authenticated Session

To authenticate with the FortiGate and request a session, send a POST request to the log in request handler with your `username` and `password`.

Login URL	/logincheck
-----------	-------------

The request body must contain the following keys in URL form encoding:

Key	Type	Description
username	String	The admin username.
secretkey	String	The password for that admin.
ajax	Int (1)	Required: Format the response for easier parsing. Enable using 1.

Example:

```
POST /logincheck
username=AdminUser&secretkey=AdminPassword&ajax=1
```

Ensure that you're using the correct protocol. By default, a FortiGate will redirect HTTP requests to HTTPS and your login requests may fail. As well, FortiGate's will use a self-signed server certificate by default. Refer to the documentation for the specific library or framework that you're using to validate the certificate manually.

The response to this request will be in the following format:

```
<status_code><javascript>
```

A successful login response would be:

```
1document.location="/ng/prompt?viewOnly&redir=%2Fng%2F";
```

For most uses, you only need to read the first character of the response body to get the response status code.

Code	Description
0	Log in failure. Most likely an incorrect username/password combo.
1	Successful log in*
2	Admin is now locked out
3	Two-factor Authentication is needed**

* In some cases users may receive a successful login status but not be completely authenticated, such as when there is a post-login-banner configured.

** For Two-Factor log in, make another POST request with the same username and password, but include the `token_code` parameter with the value of the one-time-password.

Once you've received a successful login status, read each `Set-Cookie` header and retain the following Cookies:

Name	Description
APSCookie_<NUMBER>	This cookie authenticates you with the FortiGate. You must present this cookie with every subsequent request you make after logging in.
ccsrftoken	This is the (c)CSRF token. As described in Authorization on page 11 , you must provide the value of this cookie as a <code>X-CSRFToken</code> header. *

*There may be two `ccsrftoken` cookies, one with a number suffix that matches the APSCookie. For simplicity, you don't need to locate that cookie and can rely on the `ccsrftoken` cookie.

Logging out of an Authenticated Session

Authenticated sessions will remain active with the device until any of the following occurs:

- The admin logs out
- The session remains inactive for longer than the timeout specified by the `admintimeout` setting in `config system global`
- The admin is disconnected by another admin

There are a limited number of admins that can have active sessions on the device, therefore it's recommended that you log out when you're finished using the device.

To log out, a POST request to the `/logout` URL will remove the current session.

Logout URL	/logout
Body data	none needed

Token-based authentication

The authentication is done via a single API token. This token is only generated once when creating an API admin. The user must store this token in a safe place because it cannot be retrieved again. The user can however regenerate the token at any time. Each API request must include the token in order to be authenticated as the associated API admin.



Only HTTPS access is allowed with token-based authentication to ensure maximum security.

Create API admin

In order to use the token-based authentication, user must first create a special API admin. The user can assign vdom provision and admin profile to this API admin which defines the admin's privileges.



Only Super admin can create or modify API admin.

```
config system api-user
  edit "api-admin"
    set comments "admin for API access only"
    set api-key ENC SH23sQt? +/9D9/mKb1oQoDvlP32ggn/cpQeGcY/VGUe5S5WIr5nqU20xcNMYDQE=
    set accprofile "API profile"
    set vdom "root"
  config trusthost
    edit 1
      set ipv4-trusthost 192.168.10.0 255.255.255.0
    next
  end
next
end
```



GUI does not allow user to pick super admin or prof_admin profile for API admin to encourage user to use a special profile.

Trusted host

At least one trusted host must be configured for the API admin. The user can define multiple trusted host/subnet. IPv6 hosts are also supported.

PKI Certificate

Token-based also supports certificate matching as an extra layer of security (set PKI group in api-user). Both client certificate and token must match to be granted access to the API. PKI option is enabled by default.

CORS permission

Token-based also supports Cross Origin Resource Sharing (CORS) allowing third-party web apps to make API requests to FGT using the token. CORS is disabled by default.

Generate API token

After creating the api-user, user can generate new token via CLI command, GUI, or REST API. The token is only shown once and cannot be retrieved after. The user needs to generate new token if they forget.

CLI command:

```
execute api-user generate-key [API user name]
```

New API key: fccys3cfbhyhqbqghkyzm1QGnm31r



The bearer of this API key will be granted all access privileges assigned to the api-user api-admin.

REST API

Request	Body data	Description
POST /api/v2/monitor/system/api-user/generate-key?vdom=root	{api-user:"api-admin"}	"Generate a new api-key for the specified api-key-auth admin. The old api-key will be replaced. The response contains the only chance to read the new api-key plaintext in the access_token field."

Use the API token

The API token can be included in any REST API request via either request header or URL parameter

Passing API token via request header

The user needs to explicitly add the following field to the request header: 'Authorization': 'Bearer ' + [api_token]

```
Authorization: Bearer fccys3cfbhyhqbqghkyzm1QGnm31r
```

Passing API token via request URL parameter

The user needs to explicitly include the following field in the request URL parameter: access_token=[api_token]

Method	URL	Body data	Description
GET	/api/v2/cmdb/firewall/address	?vdom=root&access_token=fccys3cfbhyhqbqghkzym1QGNnm31r	Retrieve all IPv4 firewall addresses, vdom root

Authorization

After the request is authenticated, the API will check if the associated admin has the permission to perform the operation. Each admin or API admin has an admin profile and vdom scope which define the privileges of the admin. For example, if the admin has vdom scope set to "vdom1" and a profile that only has read-only permission to Firewall objects access group, the admin can only access vdom1 resource, and cannot make change to Firewall objects (policy, address, etc).

Each endpoint requires specific group permission defined in 'Access Group' of the endpoint summary table. Request to the endpoint will be checked against this access group to ensure the admin has proper permission to access the resource. Make sure the administrative account you login with has the permissions required to perform the intended actions.

Admin with read-only permission to the resource can only send read requests (HTTP GET) to the resource. Admin with write permission to the resource can send read/write requests (HTTP GET/POST/PUT/DELETE) to the resource. Admin with no permission to the resource cannot access the resource.

Request with insufficient profile permission will return 403 error.

Supported HTTP methods

FortiOS REST APIs support the following HTTP methods:

HTTP Method	Description
GET	Retrieve a resource or collection of resources.
POST	Create a resource or execute actions.
PUT	Update a resource.
DELETE	Delete a resource or collection of resources.

For any action other than GET, you must provide the `X-CSRFToken` header in the request. The value of this header is the value of the `ccsrftoken` cookie that is provided by the FortiGate when you log in.

If the request is submitted using HTTP POST, the HTTP method can also be overridden using the "X-HTTP-Method-Override" HTTP header.

Response codes

FortiOS APIs use well-defined HTTP status codes to indicate the results of queries to the API.

The following table shows how some of the HTTP status codes are used in the context of FortiOS REST APIs.

HTTP Response Code	Description
200 - OK	Request returns successful.
400 - Bad Request	Request cannot be processed by the API.
401 - Not Authorized	Request without successful login session.
403 - Forbidden	Request is missing CSRF token or administrator is missing access profile permissions.
404 - Resource Not Found	Unable to find the specified resource.
405 - Method Not Allowed	Specified HTTP method is not allowed for this resource.
413 - Request Entity Too Large	Request cannot be processed due to large entity.
424 - Failed Dependency	Fail dependency can be duplicate resource, missing required parameter, missing required attribute, invalid attribute value.
429 - Too many requests	The request is actively blocked by FGT due to a rate limit. For example, if an admin uses invalid credentials too many times, there will be a timeout before they can try again.
500 - Internal Server Error	Internal error when processing the request.

Debugging

Verbose debug output can be enabled in the FortiGate CLI with the following commands:

```
diagnose debug enable
diagnose debug application httpsd -1
```

This will produce the following output when the REST API for *IPv4 policy statistics* is queried:

```
[httpsd 228 - 1418751787] http_config.c[558] ap_invoke_handler -- new request (handler='api_monitor_v2-handler', uri='/api/v2/monitor/firewall/policy', method='GET')
[httpsd 228 - 1418751787] http_config.c[562] ap_invoke_handler -- User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/39.0.2171.71 Safari/537.36
[httpsd 228 - 1418751787] http_config.c[565] ap_invoke_handler -- Source: 192.168.1.100:56256 Destination: 192.168.1.99:443
[httpsd 228 - 1418751787] api_monitor.c[1427] api_monitor_v2_handler -- received api_monitor_v2_request from '192.168.1.100'
[httpsd 228 - 1418751787] aps_access.c[3652] aps_chk_rolebased_perm -- truncated URI (/api/v2/monitor/firewall/policy) to (/api/v2/monitor) for permission check
[httpsd 228 - 1418751787] api_monitor.c[1265] handle_req_v2_vdom -- attempting to change from vdom "root" to vdom "root"
[httpsd 228 - 1418751787] api_monitor.c[1280] handle_req_v2_vdom -- new API request (action='select',path='firewall',name='policy',vdom='root',user='admin')
```

```
[httpsd 228 - 1418751787] api_monitor.c[1286] handle_req_v2_vdom -- returning to original vdom  
"root"  
[httpsd 228 - 1418751787] http_config.c[581] ap_invoke_handler -- request completed  
(handler='api_monitor_v2-handler' result==0)
```



This debug will also include all requests to/from the FortiOS web interface, in addition to REST API requests.

CMDB API

CMDB API is used to retrieve and modify CLI configurations. For example, create/edit/delete firewall policy.

URL path

All CMDB requests start with '/api/v2/cmdb/'. Below is the format of CMDB URL path.

`/api/v2/cmdb/<path>/<name>/<mkey>(optional)/<child_name>(optional)/<child_mkey>(optional)/`

CMDB URL path follows CLI commands syntax with an exception of vdom configuration.

CLI Command	path	name	mkey	child_name	child_mkey	Full URL
configure vdom	system	vdom				/api/v2/cmdb/system/vdom/
configure vdom, edit vdom1	system	vdom	vdom1			/api/v2/cmdb/system/vdom/vdom1/
configure firewall schedule recurring	firewall.schedule	recurring				/api/v2/cmdb/firewall.schedule/recurring/
configure firewall policy	firewall	policy				/api/v2/cmdb/firewall/policy/
configure firewall policy, edit 1	firewall	policy	1			/api/v2/cmdb/firewall/policy/1/
configure firewall policy, edit 1, set srcintf	firewall	policy	1	srcintf		/api/v2/cmdb/firewall/policy/1/srcintf/
configure firewall policy, edit 1, delete srcintf lan	firewall	policy	1	srcintf	lan	/api/v2/cmdb/firewall/policy/1/srcintf/lan/

For operations on the entire table, mkey is not needed. For instance, add new entry, get all entries, purge table.

For operations on a specific resource, mkey is required. For example, edit/delete/clone/move a firewall policy.

For operations on the child table, child_name is required. For example, retrieve child table, purge child table, add new entry to child table.

For operations on the child table entry, child_mkey is required. For example, delete/move child object.

URL parameters

In addition to the URL path, user can specify URL parameters which are appended to the URL path.

Generic parameters

The following URL parameters are generic to all CMDB requests.

URL parameter	Example	Description
vdom=root	GET /api/v2/cmdb/firewall/address/?vdom=root	Return result/apply changes on the specified vdom. If vdom parameter is not provided, use current vdom instead. If admin does not have access to the vdom, return permission error.
vdom=root,vdom1	GET /api/v2/cmdb/firewall/address/?vdom=root,vdom1	Return result/apply changes on the specified vdoms. If vdom parameter is not provided, use current vdom instead. If admin does not have access to the vdom, return permission error.
vdom=root&vdom=vdom1	GET /api/v2/cmdb/firewall/address/?vdom=root&vdom=vdom1	Return result/apply changes on the specified vdoms. If vdom parameter is not provided, use current vdom instead. If admin does not have access to the vdom, return permission error.
vdom=*	GET /api/v2/cmdb/firewall/address/?vdom=*	Return a list of results/apply changes on all provisioned vdoms. The request is only applicable to vdoms that the admin has access to.

Specific parameters

Each CMDB method may require extra URL parameters which are unique to the method. Those extra parameters are documented in the "Extra Parameters" section of each CMDB method.

Below are some examples.

URL parameter	Example	Description
action=schema	GET /api/v2/cmdb/firewall/policy/?action=schema	Return schema of the resource table
action=default	GET /api/v2/cmdb/firewall/policy/?action=default	Return default attributes of the resource

URL parameter	Example	Description
action=move	PUT /api/v2/cmdb/firewall/policy/1 /?action=move&after=2	Move policy 1 to after policy 2
action=clone	POST /api/v2/cmdb/firewall/address/address1 /?action=clone&nkey=address1_clone	Clone 'address1' to 'address1_clone'
skip=1	GET /api/v2/cmdb/firewall/policy/?skip=1	Return a list of all firewall policy but only show relevant attributes
skip=1	GET /api/v2/cmdb/firewall/policy/1/?skip=1	Return firewall policy 1 but only show relevant attributes
format=policyid action	GET /api/v2/cmdb/firewall/policy /?format=policyid action	Return a list of all firewall policy, however, only show policyid and action for each policy
format=policyid action	GET /api/v2/cmdb/firewall/policy /1?format=policyid action	Return firewall policy 1, however, only show policyid and action
start=0&count=10	GET /api/v2/cmdb/firewall/address /?start=0&count=10	Return the first 10 firewall addresses
key=type&pattern=fqdn	GET /api/v2/cmdb/firewall/address /?key=type&pattern=fqdn	Return all addresses with type fqdn
filter=type==fqdn	GET /api/v2/cmdb/firewall/address /?filter=type==fqdn	Return all addresses with type fqdn
filter=type==fqdn,type==ipmask&filter=visibility==enable	GET /api/v2/cmdb/firewall/address /?filter=type==fqdn,type==ipmask&filter=visibility==enable	Return all addresses with type fqdn or ipmask which has visibility enabled

Body data

Beside URL parameters, some POST/PUT requests also require body data, which must be included in the HTTP body. For example, to create/edit firewall address object, user needs to specify the new/edit object data.

GET/DELETE requests do not accept body data.

Request	Body data	Description
POST /api/v2/cmdb/firewall/address?vdom=root	{'name': "address1", 'type': "ipmask", 'subnet': "1.1.1.0 255.255.255.0"}	create new firewall address with the specified data
PUT /api/v2/cmdb/firewall/address/address1?vdom=root	{'subnet': "2.2.2.0 255.255.255.0"}	edit firewall address with the specified data

Limitation

If the body data has the same name as some reserved URL parameters, such as name, path, or action, the request would fail due to the conflict. For example, firewall policy has 'name' and 'action' attribute which conflict with the reserved URL parameter 'name' and 'action'. POST/PUT with normal method would fail with 405 error. A workaround is to enclosed all object data in a 'json' keyword so the API can correctly identify object data. For example:

Request	Body data	Description
POST /api/v2/cmdb/firewall/policy?vdom=root	{'name': "test_policy", 'srcintf': [{"name": "port1"}], 'dstintf': [{"name": "port2"}], 'srcaddr': [{"name": "all"}], 'dstaddr': [{"name": "all"}], 'action': "accept", 'status': "enable", 'schedule': "always", 'service': [{"name": "ALL"}], 'nat': "disable"}	This would fail with 405 error
POST /api/v2/cmdb/firewall/policy?vdom=root	{'json': {'name': "test_policy", 'srcintf': [{"name": "port1"}], 'dstintf': [{"name": "port2"}], 'srcaddr': [{"name": "all"}], 'dstaddr': [{"name": "all"}], 'action': "accept", 'status': "enable", 'schedule': "always", 'service': [{"name": "ALL"}], 'nat': "disable"}}	This would work

Filter with multiple key/value pairs

Filtering multiple key/value pairs are also supported for all CMDB retrieval requests via 'filter' URL parameter.

Filter Syntax

Filters are defined in the following syntax: *key operator pattern*

Key	Operator	Pattern	Full Request	Description
schedule	==	always	GET /api/v2/cmdb/firewall/policy/?filter=schedule==always	Only return firewall policy with schedule 'always'
schedule	!=	always	GET /api/v2/cmdb/firewall/policy/?filter=schedule!=always	Return all firewall policy with schedule other than 'always'

Filter Operators

Operator	Description
==	Case insensitive match with pattern.
!=	Does not match with pattern (case insensitive).

Operator	Description
=@	Pattern found in object value (case insensitive).
!@	Pattern not found in object value (case insensitive).
<=	Value must be less than or equal to pattern.
<	Value must be less than pattern.
>=	Value must be greater than or equal to pattern.
>	Value must be greater than pattern.

Combining Filters

Filters can be combined to create complex queries.

Combination	Description	Example
Logical OR	Separate filters using commas ",". The following example returns all policies using the always schedule or the once schedule.	GET /api/v2/cmdb/firewall/policy?filter=schedule==always,schedule==once
Logical AND	Filter strings can be combined to create logical AND queries by including multiple filters in the request. This example includes all policies using schedule always AND action accept.	GET /api/v2/cmdb/firewall/policy/?filter=schedule==always&filter=action==accept
Combining AND and OR	You can combine AND and OR filters together to create more complex filters. This example includes all policies using schedule always AND action accept OR action deny.	GET /api/v2/cmdb/firewall/policy/?filter=schedule==always&filter=action==accept,action==deny

Reserved Characters

The following characters need to be escaped if they are part of a filter pattern.

Character	Escaped Value
,	\,
\	\\

List of Methods

Type	HTTP Method	Action	Summary
collection	GET		Select all entries in a CLI table.
resource	GET	default	Return the CLI default values for this object type.
resource	GET	default	Return the CLI default values for entire CLI tree.
resource	GET	schema	Return the CLI schema for this object type.
resource	GET	schema	Return schema for entire CLI tree.
resource	GET	revision	Return the CMDB revision for this object type.
collection	DELETE		Delete all objects in this table.
collection	POST		Create an object in this table.
resource	GET		Select a specific entry from a CLI table.
resource	PUT		Update this specific resource.
resource	PUT	move	Move this specific resource.
resource	POST	clone	Clone this specific resource.
resource	DELETE		Delete this specific resource.
resource	GET		Build API directory.

collection

GET

Summary	Select all entries in a CLI table.
HTTP Method	GET
Etag Caching	Enabled
Response Type	array

Extra parameters

Name	Type	Summary	Required
datasource	boolean	Enable to include datasource information for each linked object.	No
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No

Name	Type	Summary	Required
with_meta	boolean	Enable to include meta information about each object (type id, references, etc).	No
skip	boolean	Enable to call CLI skip operator to hide skipped properties.	No
format	string	List of property names to include in results, separated by (i.e. policyid srcintf).	No
filter	string	Comma separated list of key value pairs to filter on. Filters will be logically OR'd together.	No
key	string	If present, objects will be filtered on property with this name.	No
pattern	string	If present, objects will be filtered on property with this value.	No
scope	string	Scope [global vdom both*]	No

resource

GET: default

Summary	Return the CLI default values for this object type.
HTTP Method	GET
ETag Caching	Enabled
Response Type	object

GET: default

Summary	Return the CLI default values for entire CLI tree.
HTTP Method	GET
Response Type	object

GET: schema

Summary	Return the CLI schema for this object type.
HTTP Method	GET
ETag Caching	Enabled
Response Type	object

GET: schema

Summary	Return schema for entire CLI tree.
HTTP Method	GET
Response Type	object

GET: revision

Summary	Return the CMDB revision for this object type.
HTTP Method	GET
ETag Caching	Enabled
Response Type	object

DELETE

Summary	Delete all objects in this table.
HTTP Method	DELETE

POST

Summary	Create an object in this table.
HTTP Method	POST

GET

Summary	Select a specific entry from a CLI table.
HTTP Method	GET
ETag Caching	Enabled
Response Type	array

Extra parameters

Name	Type	Summary	Required
datasource	boolean	Enable to include datasource information for each linked object.	No
with_meta	boolean	Enable to include meta information about each object (type id, references, etc).	No

Name	Type	Summary	Required
skip	boolean	Enable to call CLI skip operator to hide skipped properties.	No
format	string	List of property names to include in results, separated by (i.e. policyid srcintf).	No

PUT

Summary	Update this specific resource.
HTTP Method	PUT

PUT: move

Summary	Move this specific resource.
HTTP Method	PUT

Extra parameters

Name	Type	Summary	Required
before	string	The ID of the resource that this resource will be moved before.	No
after	string	The ID of the resource that this resource will be moved after.	No

POST: clone

Summary	Clone this specific resource.
HTTP Method	POST

Extra parameters

Name	Type	Summary	Required
nkey	string	The ID for the new resource to be created.	No

DELETE

Summary	Delete this specific resource.
HTTP Method	DELETE

GET

Summary	Build API directory.
HTTP Method	GET

Examples

Retrieve table

Method	URL	URL Parameters	Body Data	Description
GET	/api/v2/cmdb/firewall/address	?vdom=root		Retrieve all IPv4 firewall addresses, vdom root
GET	/api/v2/cmdb/firewall/address	?vdom=root&start=0&count=10&skip=1		Retrieve the first 10 firewall addresses, skip inapplicable attributes, vdom root
GET	/api/v2/cmdb/firewall/address	?vdom=root&format=name type		Retrieve all firewall addresses but only show name and type, vdom root
GET	/api/v2/cmdb/firewall/address	?vdom=root&key=type&pattern=fqdn		Retrieve all fqdn firewall addresses, vdom root
GET	/api/v2/cmdb/firewall/address	?vdom=root&filter=type==fqdn		Retrieve all fqdn firewall addresses, vdom root
GET	/api/v2/cmdb/firewall/address	?vdom=root&filter=type==fqdn,type==iprange		Retrieve all fqdn or iprange firewall addresses, vdom root
GET	/api/v2/cmdb/firewall/address	?vdom=root&filter=type==fqdn&filter=associated-interface==lan		Retrieve all fqdn firewall addresses that belong to lan interface, vdom root

Retrieve table schema

Method	URL	URL Parameters	Body Data	Description
GET	/api/v2/cmdb/firewall/address	?action=schema		Retrieve firewall address object's schema

Retrieve table default

Method	URL	URL Parameters	Body Data	Description
GET	/api/v2/cmdb/firewall/address	?action=default		Retrieve firewall address object's default

Purge table

Method	URL	URL Parameters	Body Data	Description
DELETE	/api/v2/cmdb/firewall/address	?vdom=root		Purge all firewall addresses, vdom root

Retrieve object

Method	URL	URL Parameters	Body Data	Description
GET	/api/v2/cmdb/firewall/address/address1	?action=select&vdom=root		Retrieve only firewall address 'address1', vdom root

Create object

Method	URL	URL Parameters	Body Data	Description
POST	/api/v2/cmdb/firewall/address	?vdom=root	{"name": "address1"}	Create firewall address 'address1', root vdom
POST	/api/v2/cmdb/application/list	?vdom=root	{"name": "profile1"}	Create application list profile1, vdom root

Edit object

Method	URL	URL Parameters	Body Data	Description
PUT	/api/v2/cmdb/firewall/address/address1	?vdom=root	{"name": "address2"}	Rename 'address1' to 'address2', vdom root
PUT	/api/v2/cmdb/firewall/address/address1	?vdom=root	{"comment": "test comment"}	Edit 'address1' to update comment 'test comment', vdom root

Method	URL	URL Parameters	Body Data	Description
PUT	/api/v2/cmdb/application/list/profile1	?vdom=root	{ "entries": [{ "id": 1, "application": [{ "id": 31236, "id": 31237 }] }] }	Edit profile1 to add child object '1' which has child table 'applications', vdom root

Delete object

Method	URL	URL Parameters	Body Data	Description
DELETE	/api/v2/cmdb/firewall/address/address1	?vdom=root		Delete firewall address 'address1', root vdom

Clone object

Method	URL	URL Parameters	Body Data	Description
POST	/api/v2/cmdb/firewall/address/address1	?vdom=root&action=clone&nkey=address1_clone		Clone 'address1' to 'address1_clone', root vdom

Move object

Method	URL	URL Parameters	Body Data	Description
PUT	/api/v2/cmdb/firewall/policy/1	?vdom=root&action=move&after=2		Move policy 1 to after policy 2, root vdom

Append child object

Method	URL	URL Parameters	Body Data	Description
POST	/api/v2/cmdb/application/list/profile1/entries	?vdom=root	{ "id": 3 }	Add 3 to application profile1 child table entries, vdom root

Edit child object

Method	URL	URL Parameters	Body Data	Description
PUT	/api/v2/cmdb/application /list/profile1/entries/3	?vdom=root	{"application": [{"id":31236}, {"id":31237}]}	Edit child entry 3 to update child application list, vdom root

Delete child object

Method	URL	URL Parameters	Body Data	Description
DELETE	/api/v2/cmdb/application /list/profile1/entries/3	?vdom=root		Delete 3 from application profile1 child table entries, vdom root

Purge child table

Method	URL	URL Parameters	Body Data	Description
DELETE	/api/v2/cmdb/application /list/profile1/entries	?vdom=root		Purge application profile1 child table entries, vdom root

Retrieve complex table

Method	URL	URL Parameters	Body Data	Description
GET	/api/v2/cmdb/ vpn.ssl/settings	?action=select		Retrieve vpn ssl settings object

Edit complex table

Method	URL	URL Parameters	Body Data	Description
PUT	/api/v2/cmdb/ vpn.ssl/settings	?vdom=root	{"authentication- rule":[{"id":"1"}, {"id":"2"}]}	Edit complex object vpn.ssl.settings to create/modify child table, vdom root

Send requests to multiple vdoms

Method	URL	URL Parameters	Body Data	Description
GET	/api/v2/cmdb/firewall/address	?vdom=root,vdom1		Retrieve all IPv4 firewall addresses for both root and vdom1
GET	/api/v2/cmdb/firewall/address	?vdom=root&vdom=vdom1		Retrieve all IPv4 firewall addresses for both root and vdom1
GET	/api/v2/cmdb/firewall/address	?vdom=*		Retrieve all IPv4 firewall addresses for all accessible vdoms

Monitor API

Monitor API is used to perform specific actions on endpoint resources. For example, retrieve/close firewall sessions, restart/shutdown FGT, backup/restore config file.

URL path

All Monitor API requests start with '/api/v2/monitor/'. Below is the format of Monitor URL path:

```
/api/v2/monitor/<uri>/
```

Each Monitor endpoint has a specific URI, which are provided by the URI field of each endpoint.

URI	Full URL	Description
/firewall/policy/	GET /api/v2/monitor/firewall/policy/	List traffic statistics for all IPv4 policies
/firewall/policy/reset	POST /api/v2/monitor/firewall/policy/reset	Reset traffic statistics for all IPv4 policies

URL parameters

In addition to the URL path, user can specify URL parameters which are appended to the URL path.

Generic parameters

The following URL parameters are generic to all Monitor requests.

URL parameter	Example	Description
vdom=root	GET /api/v2/monitor/firewall/policy/?vdom=root	Return result/apply changes on the specified vdom. If vdom parameter is not provided, use current vdom instead. If admin does not have access to the vdom, return permission error.
vdom=root,vdom1	GET /api/v2/monitor/firewall/policy/?vdom=root,vdom1	Return a list of results/apply changes on provided vdoms.
vdom=*	GET /api/v2/monitor/firewall/policy/?vdom=*	Return a list of results/apply changes on all provisioned vdoms. The request is only applicable to vdoms that the admin has access to.

Specific parameters

Each Monitor endpoint may require extra URL parameters which are unique to the endpoint. Those extra parameters are documented in the "Extra Parameters" section of each endpoint.

Required parameters are marked with "required: true" flag.

Below are some examples.

URL parameter	Example	Description
count=-1	GET /api/v2/monitor/firewall/session?count=1	Return all ipv4 firewall sessions
ip_ version=ipv6&count=10	GET /api/v2/monitor/firewall/session?ip_ version=ipv6&count=10	Return the first 10 ipv6 firewall sessions

Body data

Beside URL parameters, some POST requests also require body data, which must be included in the HTTP body. The extra body data are documented in "Extra Parameters" section of each endpoint.

GET requests do not accept body data.

Required body data are marked with "required: true" flag.

Below are some examples.

Request	Body Data	Description
POST /api/v2/monitor/firewall/session/close?vdom=root	{'pro': "udp", 'saddr': "192.168.100.110", 'daddr': "96.45.33.73", 'sport': 55933, 'dport': 8888}	Close the specific ipv4 firewall sessions

File upload

File upload is supported for some endpoints. For example, upload VM license, restore config file. The upload file must be stored in the HTTP body. There are two different methods to do so: via JSON data or multi-part file.

File upload via JSON data

The upload file can be encoded directly into the HTTP body as JSON data using the 'file_content' field.

The JSON data must be encoded in base64 format.

For instance, below is how you can upload/restore config file via JSON data using Python Requests module.

```
self.session.post(url='/api/v2/monitor/system/config/restore',
    params={"vdom": "vdom1"},
    json={"source": "upload",
```

```
"scope": "vdom",
"file_content": b64encode(open("vdl.conf.txt", "r").read()))
```

File upload via multi-part file

Another way to store upload file in HTTP body is to include it as a multi-part file.

The multi-part file does not need to be encoded in base64 format.

For instance, below is how you can upload/restore config file via multi-part file using Python Requests module.

```
self.session.post(url='/api/v2/monitor/system/config/restore',
    params={"vdom": "vdom1"},
    data={"source": "upload",
        "scope": "vdom"},
    files=[('random_name',
        ('random_conf.conf', open("vdl.conf.txt", "r"), 'text/plain'))])
```

File download

File download is also supported in some endpoints. For example, download CA certificate, backup config file.

The downloaded file is stored in the response's raw content, not JSON data.

For example, here is the request to download global certificate name `Fortinet_Factory`, type `local`, scope `global`:

```
GET /api/v2/monitor/system/certificate/download?mkey=Fortinet_
    Factory&type=local&scope=global
```

File download via browser

When sending file download request via a browser, the browser automatically checks the response's header for `'Content-Disposition': attachment`. If present, the browser will download the file to local directory using the name.

File download via script

When sending file download request via a script, the script will need to manually perform the above steps to convert the response's content into a file. For example, the script needs to check the response header for `'Content-Disposition': attachment`, and write the content into a local file with the given name.

List of Methods

URI	HTTP Method	Summary
endpoint-control/profile/xml/	GET	List XML representation for each endpoint-control profile.
endpoint-control/registration-password/check/	POST	Check if provided registration password is valid for current VDOM.
endpoint-control/record-list/select/	GET	List endpoint records.
endpoint-control/registration/summary/	GET	Summary of FortiClient registrations.
endpoint-control/registration/quarantine/	POST	Quarantine endpoint by FortiClient UID or MAC.
endpoint-control/registration/unquarantine/	POST	Unquarantine endpoint by FortiClient UID or MAC.
endpoint-control/registration/block/	POST	Block endpoint by FortiClient UID or MAC.
endpoint-control/registration/unblock/	POST	Unblock endpoint by FortiClient UID or MAC.
endpoint-control/registration/deregister/	POST	Deregister endpoint by FortiClient UID or MAC.
endpoint-control/installer/select/	GET	List available FortiClient installers.
endpoint-control/installer/download/	GET	Download a FortiClient installer via FortiGuard.
endpoint-control/avatar/download/	GET	Download an endpoint avatar image.
firewall/health/select/	GET	List configured load balance server health monitors.
firewall/local-in/select/	GET	List implicit and explicit local-in firewall policies.
firewall/acl/select/	GET	List counters for all IPv4 ACL.
firewall/acl/clear_counters/	POST	Reset counters for one or more IPv4 ACLs by policy ID.
firewall/acl6/select/	GET	List counters for all IPv6 ACL.
firewall/acl6/clear_counters/	POST	Reset counters for one or more IPv6 ACLs by policy ID.
firewall/internet-service-match/select/	GET	List internet services that exist at a given IP or Subnet.
firewall/internet-service-details/select/	GET	List all details for a given Internet Service ID.
firewall/policy/select/	GET	List traffic statistics for IPv4 policies.

URI	HTTP Method	Summary
firewall/policy/reset/	POST	Reset traffic statistics for all IPv4 policies.
firewall/policy/clear_counters/	POST	Reset traffic statistics for one or more IPv4 policies by policy ID.
firewall/policy6/select/	GET	List traffic statistics for IPv6 policies.
firewall/policy6/reset/	POST	Reset traffic statistics for all IPv6 policies.
firewall/policy6/clear_counters/	POST	Reset traffic statistics for one or more IPv6 policies by policy ID.
firewall/proxy-policy/select/	GET	List traffic statistics for all explicit proxy policies.
firewall/proxy-policy/clear_counters/	POST	Reset traffic statistics for one or more explicit proxy policies by policy ID.
firewall/policy-lookup/select/	GET	Performs a policy lookup by creating a dummy packet and asking the kernel which policy would be hit.
firewall/session/select/	GET	List all active firewall sessions (optionally filtered).
firewall/session/clear_all/	POST	Immediately clear all active IPv4 and IPv6 sessions and IPS sessions of current VDOM.
firewall/session/close/	POST	Close a specific firewall session that matches all provided criteria.
firewall/shaper/select/	GET	List of statistics for configured firewall shared traffic shapers.
firewall/shaper/reset/	POST	Reset statistics for all configured traffic shapers.
firewall/per-ip-shaper/select/	GET	List of statistics for configured firewall per-IP traffic shapers.
firewall/per-ip-shaper/reset/	POST	Reset statistics for all configured firewall per-IP traffic shapers.
firewall/load-balance/select/	GET	List all firewall load balance servers.
firewall/address-fqdns/select/	GET	List of FQDN address objects and the IPs they resolved to.
firewall/address-fqdns6/select/	GET	List of IPv6 FQDN address objects and the IPs they resolved to.
firewall/ippool/select/	GET	List IPv4 pool statistics.
firewall/address-dynamic/select/	GET	List of Fabric Connector address objects and the IPs they resolve to.
firewall/address6-dynamic/select/	GET	List of IPv6 Fabric Connector address objects and the IPs they resolve to.
fortiview/statistics/select/	GET	Retrieve drill-down and summary data for FortiView (both realtime and historical).
fortiview/session/cancel/	POST	Cancel a FortiView request session.

URI	HTTP Method	Summary
fortiview/sandbox-file-details/select/	GET	Retrieve FortiSandbox analysis details for a specific file checksum.
geoip/geoip-query/select/	GET	Retrieve location details for IPs queried against FortiGuard's geoip service.
ips/rate-based/select/	GET	Returns a list of rate-based signatures in IPS package.
license/status/select/	GET	Get current license & registration status.
license/database/upgrade/	POST	Upgrade a license database on this device using uploaded file.
license/forticare-resellers/select/	GET	Get current FortiCare resellers for the requested country.
license/forticare-org-list/select/	GET	Get FortiCare organization size and industry lists.
log/current-disk-usage/select/	GET	Return current used, free and total disk bytes.
log/device/state/	GET	Retrieve information on state of log devices.
log/forticloud/select/	GET	Return FortiCloud log status.
log/fortianalyzer/select/	GET	Return FortiAnalyzer/FortiManager log status.
log/fortianalyzer-queue/select/	GET	Retrieve information on FortiAnalyzer's queue state. Note:- FortiAnalyzer logs are queued only if upload-option is realtime.
log/hourly-disk-usage/select/	GET	Return historic hourly disk usage in bytes.
log/historic-daily-remote-logs/select/	GET	Returns the amount of logs in bytes sent daily to a remote logging service (FortiCloud or FortiAnalyzer).
log/stats/select/	GET	Return number of logs sent by category per day for a specific log device.
log/stats/reset/	POST	Reset logging statistics for all log devices.
log/forticloud-report/download/	GET	Download PDF report from FortiCloud.
log/ips-archive/download/	GET	Download IPS/application control packet capture files. Uses configured log display device.
log/policy-archive/download/	GET	Download policy-based packet capture archive.
log/av-archive/download/	GET	Download file quarantined by AntiVirus.
log/event/select/	GET	List all event log descriptions.
registration/forticloud/login/	POST	Login to FortiCloud.
registration/forticloud/create/	POST	Create a FortiCloud account.
registration/forticloud/logout/	POST	Logout from FortiCloud.
registration/forticloud/disclaimer/	GET	Retrieve the FortiCloud disclaimer.
registration/forticloud/domains/	GET	Retrieve a list of FortiCloud login domains.

URI	HTTP Method	Summary
registration/forticare/login/	POST	Login to FortiCare.
registration/forticare/create/	POST	Create a new FortiCare account.
registration/forticare/add-license/	POST	Add a FortiCare license.
router/ipv4/select/	GET	List all active IPv4 routing table entries.
router/ipv6/select/	GET	List all active IPv6 routing table entries.
router/statistics/select/	GET	Retrieve routing table statistics, including number of matched routes.
router/lookup/select/	GET	Performs a route lookup by querying the routing table.
router/policy/select/	GET	Retrieve a list of active IPv4 policy routes.
router/policy6/select/	GET	Retrieve a list of active IPv6 policy routes.
system/admin/toggle-vdom-mode/	POST	Toggles VDOM mode on/off. Enables or disables VDOM mode if it is disabled or enabled respectively.
system/api-user/generate-key/	POST	Generate a new api-key for the specified api-key-auth admin. The old api-key will be replaced. The response contains the only chance to read the new api-key plaintext in the api_key field.
system/config-revision/select/	GET	Returns a list of system configuration revisions.
system/config-revision/update-comments/	POST	Updates comments for a system configuration file.
system/config-revision/delete/	POST	Deletes one or more system configuration revisions.
system/config-revision/file/	GET	Download a specific configuration revision.
system/config-revision/info/	GET	Retrieve meta information for a specific configuration revision.
system/config-revision/save/	POST	Create a new config revision checkpoint.
system/current-admins/select/	GET	Return a list of currently logged in administrators.
system/disconnect-admins/select/	POST	Disconnects logged in administrators.
system/time/set/	POST	Sets current system time stamp.
system/time/select/	GET	Gets current system time stamp.
system/os/reboot/	POST	Immediately reboot this device.
system/os/shutdown/	POST	Immediately shutdown this device.
system/global-resources/select/	GET	Retrieve current usage of global resources as well as both the default and user configured maximum values.

URI	HTTP Method	Summary
system/vdom-resource/select/	GET	Retrieve VDOM resource information, including CPU and memory usage.
system/dhcp/select/	GET	Returns a list of all DHCP IPv4 and IPv6 DHCP leases.
system/dhcp/revoke/	POST	Revoke IPv4 DHCP leases.
system/dhcp6/revoke/	POST	Revoke IPv6 DHCP leases.
system/firmware/select/	GET	Retrieve a list of firmware images available to use for upgrade on this device.
system/firmware/upgrade/	POST	Upgrade firmware image on this device using uploaded file.
system/firmware/upgrade-paths/	GET	Retrieve a list of supported firmware upgrade paths.
system/fsck/start/	POST	Set file system check flag so that it will be executed on next device reboot.
system/storage/select/	GET	Retrieve information for the non-boot disk.
system/change-password/select/	POST	Save admin and guest-admin passwords.
system/password-policy-conform/select/	POST	Check whether password conforms to the password policy.
system/csf/select/	GET	Retrieve a full tree of downstream FortiGates registered to the Security Fabric.
system/csf/pending-authorizations/	GET	Retrieve FortiGates with pending authorizations for joining the Security Fabric. Note:- This list is currently available on Security Fabric root only.
system/modem/select/	GET	Retrieve statistics for internal/external configured modem.
system/modem/reset/	POST	Reset statistics for internal/external configured modem.
system/modem/connect/	POST	Trigger a connect for the configured modem.
system/modem/disconnect/	POST	Trigger a disconnect for the configured modem.
system/modem/update/	POST	Update supported modem list from FortiGuard.
system/3g-modem/select/	GET	List all 3G modems available via FortiGuard.
system/resource/usage/	GET	Retrieve current and historical usage data for a provided resource.
system/sniffer/select/	GET	Return a list of all configured packet captures.
system/sniffer/restart/	POST	Restart specified packet capture.
system/sniffer/start/	POST	Start specified packet capture.
system/sniffer/stop/	POST	Stop specified packet capture.
system/sniffer/download/	GET	Download a stored packet capture.
system/automation-stitch/stats/	GET	Stats for automation stitches.

URI	HTTP Method	Summary
system/automation-stitch/test/	POST	Triggers an automation stitch for testing purposes.
switch-controller/managed-switch/select/	GET	Retrieve statistics for configured FortiSwitches
switch-controller/managed-switch/update/	POST	Update administrative state for a given FortiSwitch (enable or disable authorization).
switch-controller/managed-switch/restart/	POST	Restart a given FortiSwitch.
switch-controller/managed-switch/poe-reset/	POST	Reset PoE on a given FortiSwitch's port.
switch-controller/managed-switch/faceplate-xml/	GET	Retrieve XML for rendering FortiSwitch faceplate widget.
switch-controller/managed-switch/factory-reset/	POST	Send 'Factory Reset' command to a given FortiSwitch.
switch-controller/managed-switch/dhcp-snooping/	GET	Retrieve DHCP servers monitored by FortiSwitches.
switch-controller/fsw-firmware/select/	GET	Retrieve a list of recommended firmware for managed FortiSwitches.
switch-controller/fsw-firmware/download/	POST	Download FortiSwitch firmware from FortiGuard to the FortiGate according to FortiSwitch image ID.
switch-controller/fsw-firmware/push/	POST	Push FortiSwitch firmware to the given device.
switch-controller/fsw-firmware/upload/	POST	Upload FortiSwitch firmware to the management FortiGate and then push to target FortiSwitches.
switch-controller/detected-device/select/	GET	Retrieve a list of devices detected on all switches.
switch-controller/validate-switch-prefix/select/	GET	Validate a FortiSwitch serial number prefix.
system/interface/select/	GET	Retrieve statistics for all system interfaces.
system/interface/dhcp-status/	GET	Retrieve the DHCP client status of an interface.
system/interface/dhcp-renew/	POST	Renew DHCP lease of an interface.
system/available-interfaces/select/	GET	Retrieve a list of all interfaces along with some meta information regarding their availability.
system/acquired-dns/select/	GET	Retrieve a list of interfaces and their acquired DNS servers.
system/resolve-fqdn/select/	GET	Resolves the provided FQDNs to FQDN -> IP mappings.
system/nat46-ippools/select/	GET	Retrieve a list of all IPv6 IP pools that are valid for NAT 46 policies.

URI	HTTP Method	Summary
system/usb-log/select/	GET	Retrieve information about connected USB drives, including estimated log sizes.
system/usb-log/start/	POST	Start backup of logs from current VDOM to USB drive.
system/usb-log/stop/	POST	Stop backup of logs to USB drive.
system/usb-device/eject/	POST	Eject USB drives for safe removal.
system/ipconf/select/	GET	Determine if there is an IP conflict for a specific IP using ARP.
system/fortiguard/update/	POST	Immediately update status for FortiGuard services.
system/fortiguard/clear-statistics/	POST	Immediately clear all FortiGuard statistics.
system/fortiguard/test-availability/	POST	Test availability of FortiGuard services.
system/fortiguard/server-info/	GET	Get FortiGuard server list and information.
system/fortimanager/status/	GET	Get FortiManager status.
system/fortimanager/config/	POST	Configure FortiManager IP. Register FortiManager if 'fortimanager_ip' is provided. Unregister FortiManager if only 'unregister' parameter is specified and set to true.
system/fortimanager/backup-summary/	GET	Get FortiManager backup summary.
system/fortimanager/backup-action/	POST	Import or update from FortiManager objects.
system/fortimanager/backup-details/	GET	Get the properties of a FortiManager object.
system/available-certificates/select/	GET	Get available certificates.
system/certificate/download/	GET	Download certificate.
system/debug/download/	GET	Download debug report for technical support.
system/com-log/dump/	POST	Dump system com-log to file.
system/com-log/update/	GET	Fetch system com-log file dump progress.
system/com-log/download/	GET	Download com-log file (after file dump is complete).
system/botnet/stat/	GET	Retrieve statistics for FortiGuard botnet database.
system/botnet/select/	GET	List all known IP-based botnet entries in FortiGuard botnet database.
system/botnet-domains/select/	GET	List all known domain-based botnet entries in FortiGuard botnet database.

URI	HTTP Method	Summary
system/botnet-domains/stat/	GET	List statistics on domain-based botnet entries in FortiGuard botnet database.
system/botnet-domains/hits/	GET	List hit botnet domains with hit count > 0.
system/ha-statistics/select/	GET	List of statistics for members of HA cluster.
system/ha-history/select/	GET	Get HA cluster historical logs.
system/ha-checksums/select/	GET	List of checksums for members of HA cluster.
system/ha-peer/select/	GET	Get configuration of peer(s) in HA cluster. Uptime is expressed in seconds.
system/ha-peer/update/	POST	Update configuration of peer in HA cluster.
system/ha-peer/disconnect/	POST	Update configuration of peer in HA cluster.
system/link-monitor/select/	GET	Retrieve per-interface statistics for active link monitors.
system/compliance/run/	POST	Immediately run compliance checks for the selected VDOM.
system/config/restore/	POST	Restore system configuration from uploaded file or from USB.
system/config/backup/	GET	Backup system config
system/config/usb-filelist/	GET	List configuration files available on connected USB drive.
system/sandbox/stats/	GET	Retrieve sandbox statistics.
system/sandbox/status/	GET	Retrieve sandbox status.
system/sandbox/test-connect/	GET	Test the connectivity of a given FortiSandbox IP.
system/object/usage/	GET	Retrieve all objects that are currently using as well as objects that can use the given object.
system/object-tagging/usage/	GET	Retrieve usage count for tags in all tag categories.
system/status/select/	GET	Retrieve basic system status.
system/timezone/select/	GET	Get world timezone and daylight saving time.
system/vmlicense/upload/	POST	Update VM license using uploaded file. Reboots immediately if successful.
system/sensor-info/select/	GET	Retrieve system sensor status.
system/security-rating/select/	GET	Retrieve a Security Rating result. Without file specified, returns the most recent result.
system/security-rating/history/	GET	Retrieve Security Rating history.
system/security-rating/trigger/	POST	Trigger a Security Rating.
system/security-rating/status/	GET	Check if a Security Rating is currently running.
system/security-rating/lang/	GET	Returns the requested Security Rating language mapping.

URI	HTTP Method	Summary
system/fortiguard-blacklist/select/	GET	Retrieve blacklist information for a specified IP.
system/check-port-availability/select/	GET	Check whether a list of TCP port ranges is available for a certain service.
system/external-resource/entry-list/	GET	Retrieve resource file status with a list of valid/invalid entries (skip empty and comment lines) for the specific external resource.
extender-controller/extender/select/	GET	Retrieve statistics for specific configured FortiExtender units.
extender-controller/extender/reset/	POST	Reset a specific FortiExtender unit.
system/sdn-connector/status/	GET	Retrieve connection status for SDN connectors.
system/sdn-connector/validate-gcp-key/	POST	Validate a string representing a private key from GCP in PEM format.
user/firewall/select/	GET	List authenticated firewall users.
user/firewall/deauth/	POST	Deauthenticate single, multiple, or all firewall users.
user/banned/select/	GET	Return a list of all banned users by IP.
user/banned/clear_users/	POST	Immediately clear a list of specific banned users by IP.
user/banned/add_users/	POST	Immediately add one or more users to the banned list.
user/banned/clear_all/	POST	Immediately clear all banned users.
user/fortitoken/select/	GET	Retrieve a map of FortiTokens and their status.
user/fortitoken/activate/	POST	Activate a set of FortiTokens by serial number.
user/detected-device/select/	GET	Retrieve a list of detected devices.
user/device/select/	GET	Retrieve a list of detected devices.
user/device-type/select/	GET	Retrieve a list of device types.
user/device-category/select/	GET	Retrieve a list of device categories.
user/fortitoken/refresh/	POST	Refresh a set of FortiTokens by serial number.
user/fortitoken/provision/	POST	Provision a set of FortiTokens by serial number.
user/fortitoken/send-activation/	POST	Send a FortiToken activation code to a user via SMS or Email.
user/fortitoken/import-trial/	POST	Import trial mobile FortiTokens.
user/fortitoken/import-mobile/	POST	Import a list of tokens from FortiGuard to the FortiGate unit.
user/fortitoken/import-seed/	POST	Import a FortiToken seed file.
user/fsso/refresh-server/	POST	Refresh remote agent group list for all fsso agents.

URI	HTTP Method	Summary
user/fsso/select/	GET	Get a list of fsso and fsso polling status.
user/radius/test-connect/	POST	Test the connectivity of the given RADIUS server and, optionally, the validity of a username & password.
user/tacacs-plus/test/	POST	Test the connectivity of the given TACACS+ server.
utm/rating-lookup/select/	GET	Lookup FortiGuard rating for a specific URL.
utm/app-lookup/select/	GET	Query remote FortiFlow database to resolve hosts to application control entries.
utm/application-categories/select/	GET	Retrieve a list of application control categories.
utm/antivirus/stats/	GET	Retrieve antivirus scanning statistics.
virtual-wan/health-check/select/	GET	Retrieve health-check statistics for each SD-WAN link.
virtual-wan/members/select/	GET	Retrieve interface statistics for each SD-WAN link.
webfilter/override/select/	GET	List all administrative and user initiated webfilter overrides.
webfilter/override/delete/	POST	Delete a configured webfilter override.
webfilter/malicious-urls/select/	GET	List all URLs in FortiSandbox malicious URL database.
webfilter/malicious-urls/stat/	GET	Retrieve statistics for the FortiSandbox malicious URL database.
webfilter/category-quota/select/	GET	Retrieve quota usage statistics for webfilter categories.
webfilter/category-quota/reset/	POST	Reset webfilter quota for user or IP.
webfilter/fortiguard-categories/select/	GET	Return FortiGuard web filter categories.
webfilter/trusted-urls/select/	GET	List all URLs in FortiGuard trusted URL database.
vpn/ipsec/select/	GET	Return an array of active IPsec VPNs.
vpn/ipsec/tunnel_up/	POST	Bring up a specific IPsec VPN tunnel.
vpn/ipsec/tunnel_down/	POST	Bring down a specific IPsec VPN tunnel.
vpn/ipsec/tunnel_reset_stats/	POST	Reset statistics for a specific IPsec VPN tunnel.
vpn/one-click/members/	GET	Get information on devices registered in the Overlay Controller VPN cloud assisted group.
vpn/one-click/status/	GET	Get the last status message from FortiCloud Overlay Controller VPN cloud service.
vpn/ssl/select/	GET	Retrieve a list of all SSL-VPN sessions and sub-sessions.
vpn/ssl/clear_tunnel/	POST	Remove all active tunnel sessions in current virtual domain.
vpn/ssl/delete/	POST	Terminate the provided SSL-VPN session.

URI	HTTP Method	Summary
vpn/ssl/stats/	GET	Return statistics about the SSL-VPN.
vpn-certificate/ca/import/	POST	Import CA certificate.
vpn-certificate/crl/import/	POST	Import certificate revocation lists (CRL) from file content.
vpn-certificate/local/import/	POST	Import local certificate.
vpn-certificate/remote/import/	POST	Import remote certificate.
vpn-certificate/csr/generate/	POST	Generate a certificate signing request (CSR) and a private key. The CSR can be retrieved / downloaded from CLI, GUI and REST API.
wanopt/history/select/	GET	Retrieve WAN opt. statistics history.
wanopt/history/reset/	POST	Reset WAN opt. statistics.
wanopt/webcache/select/	GET	Retrieve webcache statistics history.
wanopt/webcache/reset/	POST	Reset webcache statistics.
wanopt/peer_stats/select/	GET	Retrieve a list of WAN opt peer statistics.
wanopt/peer_stats/reset/	POST	Reset WAN opt peer statistics.
webproxy/pacfile/download/	GET	Download webproxy PAC file.
webcache/stats/select/	GET	Retrieve webcache statistics.
webcache/stats/reset/	POST	Reset all webcache statistics.
wifi/client/select/	GET	Retrieve a list of connected WiFi clients.
wifi/managed_ap/select/	GET	Retrieve a list of managed FortiAPs.
wifi/managed_ap/set_status/	POST	Update administrative state for a given FortiAP (enable or disable authorization).
wifi/firmware/select/	GET	Retrieve a list of current and recommended firmware for FortiAPs in use.
wifi/firmware/download/	POST	Download FortiAP firmware from FortiGuard to the FortiGate according to FortiAP image ID.
wifi/firmware/push/	POST	Push FortiAP firmware to the given device.
wifi/firmware/upload/	POST	Upload FortiAP firmware to the management FortiGate and then push to target FortiAPs.
wifi/managed_ap/restart/	POST	Restart a given FortiAP.
wifi/ap_status/select/	GET	Retrieve statistics for all managed FortiAPs.
wifi/interfering_ap/select/	GET	Retrieve a list of interfering APs for one FortiAP radio.
wifi/euclid/select/	GET	Retrieve presence analytics statistics.

URI	HTTP Method	Summary
wifi/euclid/reset/	POST	Reset presence analytics statistics.
wifi/rogue_ap/select/	GET	Retrieve a list of detected rogue APs.
wifi/rogue_ap/clear_all/	POST	Clear all detected rogue APs.
wifi/rogue_ap/set_status/	POST	Mark detected APs as rogue APs.
wifi/spectrum/select/	GET	Retrieve spectrum analysis information for a specific FortiAP.

endpoint-control

profile: xml

Summary	List XML representation for each endpoint-control profile.
URI	endpoint-control/profile/xml/
HTTP Method	GET
Action	xml
Access Group	utmgrp.endpoint-control
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of endpoint-control profile.	No

registration-password: check

Summary	Check if provided registration password is valid for current VDOM.
URI	endpoint-control/registration-password/check/
HTTP Method	POST
Action	check
Access Group	utmgrp.endpoint-control
Response Type	boolean

Extra parameters

Name	Type	Summary	Required
password	string	Registration password to test.	Yes

record-list: select

Summary	List endpoint records.
URI	endpoint-control/record-list/select/
HTTP Method	GET
Action	select
Access Group	utmgrp.endpoint-control
Response Type	array

Extra parameters

Name	Type	Summary	Required
intf_name	string	Filter: Name of interface where the endpoint was detected.	No

registration: summary

Summary	Summary of FortiClient registrations.
URI	endpoint-control/registration/summary/
HTTP Method	GET
Action	summary
Access Group	utmgrp.endpoint-control

registration: quarantine

Summary	Quarantine endpoint by FortiClient UID or MAC.
URI	endpoint-control/registration/quarantine/
HTTP Method	POST
Action	quarantine
Access Group	utmgrp.endpoint-control

Extra parameters

Name	Type	Summary	Required
uid	array	Array of FortiClient UIDs to quarantine.	No
uid	string	Single FortiClient UID to quarantine.	No

Name	Type	Summary	Required
mac	array	Array of MACs to quarantine.	No
mac	string	Single MAC to quarantine.	No

registration: unquarantine

Summary	Unquarantine endpoint by FortiClient UID or MAC.
URI	endpoint-control/registration/unquarantine/
HTTP Method	POST
Action	unquarantine
Access Group	utmgrp.endpoint-control

Extra parameters

Name	Type	Summary	Required
uid	array	Array of FortiClient UIDs to unquarantine.	No
uid	string	Single FortiClient UID to unquarantine.	No
mac	array	Array of MACs to unquarantine.	No
mac	string	Single MAC to unquarantine.	No

registration: block

Summary	Block endpoint by FortiClient UID or MAC.
URI	endpoint-control/registration/block/
HTTP Method	POST
Action	block
Access Group	utmgrp.endpoint-control

Extra parameters

Name	Type	Summary	Required
uid	array	Array of FortiClient UIDs to block.	No
uid	string	Single FortiClient UID to block.	No
mac	array	Array of MACs to block.	No
mac	string	Single MAC to block.	No

registration: unblock

Summary	Unblock endpoint by FortiClient UID or MAC.
URI	endpoint-control/registration/unblock/
HTTP Method	POST
Action	unblock
Access Group	utmgrp.endpoint-control

Extra parameters

Name	Type	Summary	Required
uid	array	Array of FortiClient UIDs to unblock.	No
uid	string	Single FortiClient UID to unblock.	No
mac	array	Array of MACs to unblock.	No
mac	string	Single MAC to unblock.	No

registration: deregister

Summary	Deregister endpoint by FortiClient UID or MAC.
URI	endpoint-control/registration/deregister/
HTTP Method	POST
Action	deregister
Access Group	utmgrp.endpoint-control

Extra parameters

Name	Type	Summary	Required
uid	array	Array of FortiClient UIDs to deregister.	No
uid	string	Single FortiClient UID to deregister.	No
mac	array	Array of MACs to deregister.	No
mac	string	Single MAC to deregister.	No

installer: select

Summary	List available FortiClient installers.
---------	--

URI	endpoint-control/installer/select/
HTTP Method	GET
Action	select
Access Group	utmgrp.endpoint-control

Extra parameters

Name	Type	Summary	Required
min_version	string	Filter: Minimum installer version. (String of the format n[.n[.n]]).	No

installer: download

Summary	Download a FortiClient installer via FortiGuard.
URI	endpoint-control/installer/download/
HTTP Method	GET
Action	download
Access Group	utmgrp.endpoint-control
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of installer (image_id).	Yes

avatar: download

Summary	Download an endpoint avatar image.
URI	endpoint-control/avatar/download/
HTTP Method	GET
Action	download
Access Group	utmgrp.endpoint-control
ETag Caching	Enabled
Response Type	object

Extra parameters

Name	Type	Summary	Required
uid	string	Single FortiClient UID.	No
user	string	User name of the endpoint.	No
alias	string	Alias of the device. Used to lookup device avatar when endpoint avatar is not available.	No
default	string	Default avatar name ['authuser' 'unauthuser' 'authuser_72' 'unauthuser_72']. Default avatar when endpoint / device avatar is not available. If default is not set, Not found 404 is returned.	No

firewall**health: select**

Summary	List configured load balance server health monitors.
URI	firewall/health/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	array

local-in: select

Summary	List implicit and explicit local-in firewall policies.
URI	firewall/local-in/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.policy
Response Type	array

acl: select

Summary	List counters for all IPv4 ACL.
URI	firewall/acl/select/

HTTP Method	GET
Action	select
Access Group	fwgrp.policy

acl: clear_counters

Summary	Reset counters for one or more IPv4 ACLs by policy ID.
URI	firewall/acl/clear_counters/
HTTP Method	POST
Action	clear_counters
Access Group	fwgrp.policy

Extra parameters

Name	Type	Summary	Required
policy	array	Array of policy IDs to reset.	No
policy	int	Single policy ID to reset.	No

acl6: select

Summary	List counters for all IPv6 ACL.
URI	firewall/acl6/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.policy

acl6: clear_counters

Summary	Reset counters for one or more IPv6 ACLs by policy ID.
URI	firewall/acl6/clear_counters/
HTTP Method	POST
Action	clear_counters
Access Group	fwgrp.policy

Extra parameters

Name	Type	Summary	Required
policy	array	Array of policy IDs to reset.	No
policy	int	Single policy ID to reset.	No

internet-service-match: select

Summary	List internet services that exist at a given IP or Subnet.		
URI	firewall/internet-service-match/select/		
HTTP Method	GET		
Action	select		
Access Group	fwgrp.address		
Response Type	array		

Extra parameters

Name	Type	Summary	Required
ip	string	IP (in dot-decimal notation).	Yes
mask	string	IP Mask (in dot-decimal notation).	Yes

internet-service-details: select

Summary	List all details for a given Internet Service ID.		
URI	firewall/internet-service-details/select/		
HTTP Method	GET		
Action	select		
Access Group	fwgrp.address		

Extra parameters

Name	Type	Summary	Required
id	int	ID of the Internet Service to get details for.	Yes

policy: select

Summary	List traffic statistics for IPv4 policies.
URI	firewall/policy/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.policy
Response Type	array

Extra parameters

Name	Type	Summary	Required
policyid	int	Filter: Policy ID.	No

policy: reset

Summary	Reset traffic statistics for all IPv4 policies.
URI	firewall/policy/reset/
HTTP Method	POST
Action	reset
Access Group	fwgrp.policy

policy: clear_counters

Summary	Reset traffic statistics for one or more IPv4 policies by policy ID.
URI	firewall/policy/clear_counters/
HTTP Method	POST
Action	clear_counters
Access Group	fwgrp.policy

Extra parameters

Name	Type	Summary	Required
policy	array	Array of policy IDs to reset.	No
policy	int	Single policy ID to reset.	No

policy6: select

Summary	List traffic statistics for IPv6 policies.
URI	firewall/policy6/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.policy
Response Type	array

Extra parameters

Name	Type	Summary	Required
policyid	int	Filter: Policy ID.	No

policy6: reset

Summary	Reset traffic statistics for all IPv6 policies.
URI	firewall/policy6/reset/
HTTP Method	POST
Action	reset
Access Group	fwgrp.policy

policy6: clear_counters

Summary	Reset traffic statistics for one or more IPv6 policies by policy ID.
URI	firewall/policy6/clear_counters/
HTTP Method	POST
Action	clear_counters
Access Group	fwgrp.policy

Extra parameters

Name	Type	Summary	Required
policy	array	Array of policy IDs to reset.	No
policy	int	Single policy ID to reset.	No

proxy-policy: select

Summary	List traffic statistics for all explicit proxy policies.
URI	firewall/proxy-policy/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.policy

proxy-policy: clear_counters

Summary	Reset traffic statistics for one or more explicit proxy policies by policy ID.
URI	firewall/proxy-policy/clear_counters/
HTTP Method	POST
Action	clear_counters
Access Group	fwgrp.policy

Extra parameters

Name	Type	Summary	Required
policy	array	Array of policy IDs to reset.	No
policy	int	Single policy ID to reset.	No

policy-lookup: select

Summary	Performs a policy lookup by creating a dummy packet and asking the kernel which policy would be hit.
URI	firewall/policy-lookup/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.policy
Response Type	object

Extra parameters

Name	Type	Summary	Required
ipv6	boolean	Perform an IPv6 lookup?	No

Name	Type	Summary	Required
srcintf	string	Source interface.	Yes
sourceport	int	Source port.	No
sourceip	string	Source IP.	No
protocol	string	Protocol.	Yes
dest	string	Destination IP/FQDN.	Yes
destport	int	Destination port.	No
icmptype	int	ICMP type.	No
icmpcode	int	ICMP code.	No

session: select

Summary	List all active firewall sessions (optionally filtered).
URI	firewall/session/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
ip_version	string	IP version [*ipv4 ipv6 ipboth].	No
start	int	Starting entry index.	No
count	int	Maximum number of entries to return. Valid range is [20, 1000]; if a value is specified out of that range, it will be rounded up or down.	Yes
summary	boolean	Enable/disable inclusion of session summary (setup rate, total sessions, etc).	No
sourceport	int	Filter: Source port.	No
policyid	int	Filter: Policy ID.	No
policytype	string	Filter: Policy type [policy policy6].	No
application	int	Filter: Application ID.	No
application	string	Filter: Application PROTO/PORT. (e.g. "TCP/443")	No

Name	Type	Summary	Required
protocol	string	Filter: Protocol name [all igmp tcp udp icmp etc].	No
destport	int	Filter: Destination port.	No
srcintf	string	Filter: Source interface name.	No
dstintf	string	Filter: Destination interface name.	No
srcintfrole	array	Filter: Source interface roles.	No
dstintfrole	array	Filter: Destination interface roles.	No
source	string	Filter: Source IP address.	No
destination	string	Filter: Destination IP address.	No
username	string	Filter: Authenticated username.	No
shaper	string	Filter: Forward traffic shaper name.	No
country	string	Filter: Destination country name.	No
natsourceaddress	string	Filter: NAT source address.	No
natsourceport	string	Filter: NAT source port.	No

session: clear_all

Summary	Immediately clear all active IPv4 and IPv6 sessions and IPS sessions of current VDOM.
URI	firewall/session/clear_all/
HTTP Method	POST
Action	clear_all
Access Group	sysgrp.cfg
Response Type	int

session: close

Summary	Close a specific firewall session that matches all provided criteria.
URI	firewall/session/close/
HTTP Method	POST
Action	close
Access Group	sysgrp.cfg

Extra parameters

Name	Type	Summary	Required
pro	string	Protocol name [tcp udp icmp ...].	Yes
saddr	string	Source address.	Yes
daddr	string	Destination address.	Yes
sport	int	Source port.	Yes
dport	int	Destination port.	Yes

shaper: select

Summary	List of statistics for configured firewall shared traffic shapers.
URI	firewall/shaper/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.others
Response Type	array

shaper: reset

Summary	Reset statistics for all configured traffic shapers.
URI	firewall/shaper/reset/
HTTP Method	POST
Action	reset
Access Group	fwgrp.others

per-ip-shaper: select

Summary	List of statistics for configured firewall per-IP traffic shapers.
URI	firewall/per-ip-shaper/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.others
Response Type	array

per-ip-shaper: reset

Summary	Reset statistics for all configured firewall per-IP traffic shapers.
URI	firewall/per-ip-shaper/reset/
HTTP Method	POST
Action	reset
Access Group	fwgrp.others

load-balance: select

Summary	List all firewall load balance servers.
URI	firewall/load-balance/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.others
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	Yes

address-fqdns: select

Summary	List of FQDN address objects and the IPs they resolved to.
URI	firewall/address-fqdns/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.address
Response Type	object

address-fqdns6: select

Summary	List of IPv6 FQDN address objects and the IPs they resolved to.
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URI	firewall/address-fqdns6/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.address
Response Type	object

ippool: select

Summary	List IPv4 pool statistics.
URI	firewall/ippool/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.policy
Response Type	object

address-dynamic: select

Summary	List of Fabric Connector address objects and the IPs they resolve to.
URI	firewall/address-dynamic/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.address
Response Type	object

address6-dynamic: select

Summary	List of IPv6 Fabric Connector address objects and the IPs they resolve to.
URI	firewall/address6-dynamic/select/
HTTP Method	GET
Action	select
Access Group	fwgrp.address
Response Type	object

fortiview

statistics: select

Summary	Retrieve drill-down and summary data for FortiView (both realtime and historical).
URI	fortiview/statistics/select/
HTTP Method	GET
Action	select
Access Group	ftviewgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
realtime	boolean	Set to true to retrieve realtime results (from kernel).	No
filter	object	A map of filter keys to arrays of values.	No

session: cancel

Summary	Cancel a FortiView request session.
URI	fortiview/session/cancel/
HTTP Method	POST
Action	cancel
Access Group	ftviewgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
sessionid	int	Session ID to cancel.	No
device	string	FortiView request session's device. [disk faz]	No
report_by	string	Report by field.	No
view_level	string	FortiView View level.	No

sandbox-file-details: select

Summary	Retrieve FortiSandbox analysis details for a specific file checksum.
URI	fortiview/sandbox-file-details/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
checksum	string	Checksum of a specific file that has been analyzed by the connected FortiSandbox.	Yes

geoip

geoip-query: select

Summary	Retrieve location details for IPs queried against FortiGuard's geoip service.
URI	geoip/geoip-query/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
ip_addresses	string	One or more IP address strings to query for location details.	Yes

ips

rate-based: select

Summary	Returns a list of rate-based signatures in IPS package.
---------	---

URI	ips/rate-based/select/
HTTP Method	GET
Action	select
Access Group	utmgrp.ips
Response Type	array

license

status: select

Summary	Get current license & registration status.
URI	license/status/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

database: upgrade

Summary	Upgrade a license database on this device using uploaded file.
URI	license/database/upgrade/
HTTP Method	POST
Action	upgrade
Access Group	sysgrp.upd
Response Type	object

Extra parameters

Name	Type	Summary	Required
db_name	string	Security service database name [ips_appctrl antivirus ...]	Yes
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

forticare-resellers: select

Summary	Get current FortiCare resellers for the requested country.
URI	license/forticare-resellers/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
country_code	int	FortiGuard country code	No

forticare-org-list: select

Summary	Get FortiCare organization size and industry lists.
URI	license/forticare-org-list/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

log**current-disk-usage: select**

Summary	Return current used, free and total disk bytes.
URI	log/current-disk-usage/select/
HTTP Method	GET
Action	select
Access Group	loggrp.data-access

device: state

Summary	Retrieve information on state of log devices.
URI	log/device/state/
HTTP Method	GET
Action	state
Access Group	loggrp.data-access
Response Type	object

forticloud: select

Summary	Return FortiCloud log status.
URI	log/forticloud/select/
HTTP Method	GET
Action	select
Access Group	loggrp.config

fortianalyzer: select

Summary	Return FortiAnalyzer/FortiManager log status.
URI	log/fortianalyzer/select/
HTTP Method	GET
Action	select
Access Group	loggrp.config

Extra parameters

Name	Type	Summary	Required
server	string	FortiAnalyzer/FortiManager address.	No

fortianalyzer-queue: select

Summary	Retrieve information on FortiAnalyzer's queue state. Note:- FortiAnalyzer logs are queued only if upload-option is realtime.
URI	log/fortianalyzer-queue/select/

HTTP Method	GET
Action	select
Access Group	loggrp.config
Response Type	object

Extra parameters

Name	Type	Summary	Required
scope	string	Scope from which to retrieve FortiAnalyzer's queue state [vdom* global].	No

hourly-disk-usage: select

Summary	Return historic hourly disk usage in bytes.
URI	log/hourly-disk-usage/select/
HTTP Method	GET
Action	select
Access Group	loggrp.data-access

historic-daily-remote-logs: select

Summary	Returns the amount of logs in bytes sent daily to a remote logging service (FortiCloud or FortiAnalyzer).
URI	log/historic-daily-remote-logs/select/
HTTP Method	GET
Action	select
Access Group	loggrp.data-access
Response Type	object

Extra parameters

Name	Type	Summary	Required
server	string	Service name [forticloud fortianalyzer].	Yes

stats: select

Summary	Return number of logs sent by category per day for a specific log device.
---------	---

URI	log/stats/select/
HTTP Method	GET
Action	select
Access Group	loggrp.data-access
Response Type	array

Extra parameters

Name	Type	Summary	Required
dev	string	Log device [*memory disk fortianalyzer forticloud].	No

stats: reset

Summary	Reset logging statistics for all log devices.
URI	log/stats/reset/
HTTP Method	POST
Action	reset
Access Group	loggrp.data-access

forticloud-report: download

Summary	Download PDF report from FortiCloud.
URI	log/forticloud-report/download/
HTTP Method	GET
Action	download
Access Group	loggrp.data-access
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	int	FortiCloud Report ID.	Yes
inline	int	Set to 1 to download the report inline.	No

ips-archive: download

Summary	Download IPS/application control packet capture files. Uses configured log display device.
URI	log/ips-archive/download/
HTTP Method	GET
Action	download
Access Group	loggrp.data-access
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	int	IPS archive ID.	Yes
pcap_no	int	Packet capture roll number (required when log device is 'disk')	No
pcap_category	int	Packet capture category (required when log device is 'disk')	No

policy-archive: download

Summary	Download policy-based packet capture archive.
URI	log/policy-archive/download/
HTTP Method	GET
Action	download
Access Group	loggrp.data-access
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	int	Session ID (from traffic log).	Yes
srcip	string	Source IP.	Yes
dstip	string	Destination IP.	Yes

av-archive: download

Summary	Download file quarantined by AntiVirus.
---------	---

URI	log/av-archive/download/
HTTP Method	GET
Action	download
Access Group	loggrp.data-access
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Checksum for quarantined file.	Yes

event: select

Summary	List all event log descriptions.
URI	log/event/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	array

registration**forticloud: login**

Summary	Login to FortiCloud.
URI	registration/forticloud/login/
HTTP Method	POST
Action	login
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
email	string	Account email.	Yes

Name	Type	Summary	Required
password	string	Account password.	Yes
send_logs	boolean	Send logs to FortiCloud.	No
domain	string	FortiCloud domain.	No

forticloud: create

Summary	Create a FortiCloud account.
URI	registration/forticloud/create/
HTTP Method	POST
Action	create
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
email	string	Account email.	Yes
password	string	Account password.	Yes
send_logs	boolean	Send logs to FortiCloud.	No

forticloud: logout

Summary	Logout from FortiCloud.
URI	registration/forticloud/logout/
HTTP Method	POST
Action	logout
Access Group	sysgrp.cfg
Response Type	object

forticloud: disclaimer

Summary	Retrieve the FortiCloud disclaimer.
URI	registration/forticloud/disclaimer/

HTTP Method	GET
Action	disclaimer
Access Group	sysgrp.cfg
Response Type	object

forticloud: domains

Summary	Retrieve a list of FortiCloud login domains.
URI	registration/forticloud/domains/
HTTP Method	GET
Action	domains
Access Group	sysgrp.cfg
Response Type	object

forticare: login

Summary	Login to FortiCare.
URI	registration/forticare/login/
HTTP Method	POST
Action	login
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
email	string	Account email.	Yes
password	string	Account password.	Yes
reseller_name	string	Reseller name.	Yes
reseller_id	int	Reseller ID.	Yes

forticare: create

Summary	Create a new FortiCare account.
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URI	registration/forticare/create/
HTTP Method	POST
Action	create
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
email	string	Account email.	Yes
password	string	Account password.	Yes
first_name	string	First name.	Yes
last_name	string	Last name.	Yes
title	string	Title.	No
company	string	Company.	Yes
address	string	Address.	Yes
city	string	City.	Yes
country_code	int	Country code.	Yes
state	string	State/Province.	Yes
state_code	string	State/Province code.	No
postal_code	string	Postal code.	Yes
phone	string	Phone number.	Yes
industry	string	Industry.	Yes
industry_id	int	Industry ID.	Yes
orgsize_id	int	Organization size ID.	Yes
reseller_name	string	Reseller name.	Yes
reseller_id	int	Reseller ID.	Yes

forticare: add-license

Summary	Add a FortiCare license.
URI	registration/forticare/add-license/
HTTP Method	POST

Action	add-license
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
registration_code	string	FortiCare contract number.	Yes

router

ipv4: select

Summary	List all active IPv4 routing table entries.
URI	router/ipv4/select/
HTTP Method	GET
Action	select
Access Group	netgrp.route-cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return (Default for all routes).	No
ip_mask	string	Filter: IP/netmask.	No
gateway	string	Filter: gateway.	No
type	string	Filter: route type.	No
interface	string	Filter: interface name.	No

ipv6: select

Summary	List all active IPv6 routing table entries.
URI	router/ipv6/select/

HTTP Method	GET
Action	select
Access Group	netgrp.route-cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return (Default for all routes).	No
ip_mask	string	Filter: IP/netmask.	No
gateway	string	Filter: gateway.	No
type	string	Filter: route type.	No
interface	string	Filter: interface name.	No

statistics: select

Summary	Retrieve routing table statistics, including number of matched routes.
URI	router/statistics/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
ip_version	int	IP version (4 6). If not present, IPv4 and IPv6 will be returned.	No
ip_mask	string	Filter: IP/netmask.	No
gateway	string	Filter: gateway.	No
type	string	Filter: route type.	No
interface	string	Filter: interface name.	No

lookup: select

Summary	Performs a route lookup by querying the routing table.
URI	router/lookup/select/
HTTP Method	GET
Action	select
Access Group	netgrp.route-cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
ipv6	boolean	Perform an IPv6 lookup?	No
destination	string	Destination IP/FQDN	Yes

policy: select

Summary	Retrieve a list of active IPv4 policy routes.
URI	router/policy/select/
HTTP Method	GET
Action	select
Access Group	netgrp.route-cfg

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No
count_only	boolean	Returns the number of IPv4 policy routes only.	No

policy6: select

Summary	Retrieve a list of active IPv6 policy routes.
URI	router/policy6/select/
HTTP Method	GET

Action	select
Access Group	netgrp.route-cfg

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No
count_only	boolean	Returns the number of IPv6 policy routes only.	No

system

admin: toggle-vdom-mode

Summary	Toggles VDOM mode on/off. Enables or disables VDOM mode if it is disabled or enabled respectively.
URI	system/admin/toggle-vdom-mode/
HTTP Method	POST
Action	toggle-vdom-mode
Access Group	sysgrp.cfg
Response Type	object

api-user: generate-key

Summary	Generate a new api-key for the specified api-key-auth admin. The old api-key will be replaced. The response contains the only chance to read the new api-key plaintext in the api_key field.
URI	system/api-user/generate-key/
HTTP Method	POST
Action	generate-key
Access Group	sysgrp.admin
Response Type	object

Extra parameters

Name	Type	Summary	Required
api-user	string	Generate a new token for this api-user.	Yes

config-revision: select

Summary	Returns a list of system configuration revisions.
URI	system/config-revision/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

config-revision: update-comments

Summary	Updates comments for a system configuration file.
URI	system/config-revision/update-comments/
HTTP Method	POST
Action	update-comments
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
config_id	int	Configuration id.	No
comments	string	Configuration comments.	No

config-revision: delete

Summary	Deletes one or more system configuration revisions.
URI	system/config-revision/delete/
HTTP Method	POST
Action	delete
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
config_ids	array	List of configuration ids.	Yes

config-revision: file

Summary	Download a specific configuration revision.
URI	system/config-revision/file/
HTTP Method	GET
Action	file
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
config_id	int	Configuration id.	No

config-revision: info

Summary	Retrieve meta information for a specific configuration revision.
URI	system/config-revision/info/
HTTP Method	GET
Action	info
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
config_id	int	Configuration id.	No

config-revision: save

Summary	Create a new config revision checkpoint.
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URI	system/config-revision/save/
HTTP Method	POST
Action	save
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
comments	string	Optional revision comments	No

current-admins: select

Summary	Return a list of currently logged in administrators.
URI	system/current-admins/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	array

disconnect-admins: select

Summary	Disconnects logged in administrators.
URI	system/disconnect-admins/select/
HTTP Method	POST
Action	select
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
id	int	Admin ID	No
method	string	Login method used to connect admin to FortiGate.	No
admins	array	List of objects with admin id and method.	No

time: set

Summary	Sets current system time stamp.
URI	system/time/set/
HTTP Method	POST
Action	set
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
year	int	Specifies the year for setting/updating time manually.	Yes
month	int	Specifies the month (0 - 11) for setting/updating time manually.	Yes
day	int	Specifies the day for setting/updating time manually.	Yes
hour	int	Specifies the hour (0 - 23) for setting/updating time manually.	Yes
minute	int	Specifies the minute (0 - 59) for setting/updating time manually.	Yes
second	int	Specifies the second (0 - 59) for setting/updating time manually.	Yes

time: select

Summary	Gets current system time stamp.
URI	system/time/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

os: reboot

Summary	Immediately reboot this device.
URI	system/os/reboot/
HTTP Method	POST
Action	reboot

Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
event_log_message	string	Message to be logged in event log.	No

os: shutdown

Summary	Immediately shutdown this device.
URI	system/os/shutdown/
HTTP Method	POST
Action	shutdown
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
event_log_message	string	Message to be logged in event log.	No

global-resources: select

Summary	Retrieve current usage of global resources as well as both the default and user configured maximum values.
URI	system/global-resources/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

vdom-resource: select

Summary	Retrieve VDOM resource information, including CPU and memory usage.
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URI	system/vdom-resource/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

dhcp: select

Summary	Returns a list of all DHCP IPv4 and IPv6 DHCP leases.
URI	system/dhcp/select/
HTTP Method	GET
Action	select
Access Group	netgrp.cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
scope	string	Scope from which to retrieve DHCP leases [vdom* global]. Global scope is only accessible for global administrators.	No
ipv6	boolean	Include IPv6 addresses in the response.	No

dhcp: revoke

Summary	Revoke IPv4 DHCP leases.
URI	system/dhcp/revoke/
HTTP Method	POST
Action	revoke
Access Group	netgrp.cfg

Extra parameters

Name	Type	Summary	Required
ip	array	Optional list of addresses to revoke. Defaults to all addresses if not provided.	No

dhcp6: revoke

Summary	Revoke IPv6 DHCP leases.
URI	system/dhcp6/revoke/
HTTP Method	POST
Action	revoke
Access Group	netgrp.cfg

Extra parameters

Name	Type	Summary	Required
ip	array	Optional list of addresses to revoke. Defaults to all addresses if not provided.	No

firmware: select

Summary	Retrieve a list of firmware images available to use for upgrade on this device.
URI	system/firmware/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.mnt

firmware: upgrade

Summary	Upgrade firmware image on this device using uploaded file.
URI	system/firmware/upgrade/
HTTP Method	POST
Action	upgrade
Access Group	sysgrp.mnt
Response Type	object

Extra parameters

Name	Type	Summary	Required
source	string	Firmware file data source [upload usb fortiguard].	Yes
filename	string	Name of file on fortiguard or USB disk to upgrade to.	No

Name	Type	Summary	Required
format_partition	boolean	Set to true to format boot partition before upgrade.	No
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

firmware: upgrade-paths

Summary	Retrieve a list of supported firmware upgrade paths.
URI	system/firmware/upgrade-paths/
HTTP Method	GET
Action	upgrade-paths
Access Group	sysgrp.mnt

fsck: start

Summary	Set file system check flag so that it will be executed on next device reboot.
URI	system/fsck/start/
HTTP Method	POST
Action	start
Access Group	sysgrp.cfg

storage: select

Summary	Retrieve information for the non-boot disk.
URI	system/storage/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

change-password: select

Summary	Save admin and guest-admin passwords.
URI	system/change-password/select/

HTTP Method	POST
Action	select
Access Group	any

Extra parameters

Name	Type	Summary	Required
mkey	string	User ID for password change.	No
old_password	string	Old password.	No
new_password	string	New password.	No

password-policy-conform: select

Summary	Check whether password conforms to the password policy.
URI	system/password-policy-conform/select/
HTTP Method	POST
Action	select
Access Group	any

Extra parameters

Name	Type	Summary	Required
mkey	string	User ID for password change.	No
apply_to	string	Password Policy ID.	No
password	string	Password.	No
old_password	string	Old password.	No

csf: select

Summary	Retrieve a full tree of downstream FortiGates registered to the Security Fabric.
URI	system/csf/select/
HTTP Method	GET
Action	select
Access Group	secfabgrp
ETag Caching	Enabled
Response Type	object

csf: pending-authorizations

Summary	Retrieve FortiGates with pending authorizations for joining the Security Fabric. Note:- This list is currently available on Security Fabric root only.
URI	system/csf/pending-authorizations/
HTTP Method	GET
Action	pending-authorizations
Access Group	secfabgrp
Response Type	array

modem: select

Summary	Retrieve statistics for internal/external configured modem.
URI	system/modem/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

modem: reset

Summary	Reset statistics for internal/external configured modem.
URI	system/modem/reset/
HTTP Method	POST
Action	reset
Access Group	sysgrp.cfg

modem: connect

Summary	Trigger a connect for the configured modem.
URI	system/modem/connect/
HTTP Method	POST
Action	connect
Access Group	sysgrp.cfg

modem: disconnect

Summary	Trigger a disconnect for the configured modem.
URI	system/modem/disconnect/
HTTP Method	POST
Action	disconnect
Access Group	sysgrp.cfg

modem: update

Summary	Update supported modem list from FortiGuard.
URI	system/modem/update/
HTTP Method	POST
Action	update
Access Group	sysgrp.cfg

3g-modem: select

Summary	List all 3G modems available via FortiGuard.
URI	system/3g-modem/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

resource: usage

Summary	Retrieve current and historical usage data for a provided resource.
URI	system/resource/usage/
HTTP Method	GET
Action	usage
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
resource	string	Resource to get usage data for [cpu memory disk sessions lograte]. Defaults to all resources if not provided.	No
interval	string	Time interval of resource usage [1-min 10-min 30-min 1-hour 12-hour 24-hour]. Defaults to all intervals if not provided.	No

sniffer: select

Summary	Return a list of all configured packet captures.
URI	system/sniffer/select/
HTTP Method	GET
Action	select
Access Group	netgrp.packet-capture
Response Type	array

sniffer: restart

Summary	Restart specified packet capture.
URI	system/sniffer/restart/
HTTP Method	POST
Action	restart
Access Group	netgrp.packet-capture
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	int	ID of packet capture entry.	Yes

sniffer: start

Summary	Start specified packet capture.
URI	system/sniffer/start/
HTTP Method	POST

Action	start
Access Group	netgrp.packet-capture
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	int	ID of packet capture entry.	Yes

sniffer: stop

Summary	Stop specified packet capture.
URI	system/sniffer/stop/
HTTP Method	POST
Action	stop
Access Group	netgrp.packet-capture
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	int	ID of packet capture entry.	Yes

sniffer: download

Summary	Download a stored packet capture.
URI	system/sniffer/download/
HTTP Method	GET
Action	download
Access Group	netgrp.packet-capture
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	int	ID of packet capture entry.	Yes

automation-stitch: stats

Summary	Stats for automation stitches.
URI	system/automation-stitch/stats/
HTTP Method	GET
Action	stats
Access Group	any
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	string	Filter: Automation stitch name.	No

automation-stitch: test

Summary	Triggers an automation stitch for testing purposes.
URI	system/automation-stitch/test/
HTTP Method	POST
Action	test
Access Group	any

Extra parameters

Name	Type	Summary	Required
mkey	string	ID of automation stitch to trigger.	Yes
log	string	Log message to send with the event.	No

switch-controller

managed-switch: select

Summary	Retrieve statistics for configured FortiSwitches
URI	switch-controller/managed-switch/select/
HTTP Method	GET

Action	select
Access Group	wifi
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	string	Filter: FortiSwitch ID.	No
poe	boolean	Filter: Retrieve PoE statistics for ports of configured FortiSwitches. Port power usage is in Watt units.	No
port_stats	boolean	Filter: Retrieve tx/rx statistics for ports of configured FortiSwitches.	No

managed-switch: update

Summary	Update administrative state for a given FortiSwitch (enable or disable authorization).
URI	switch-controller/managed-switch/update/
HTTP Method	POST
Action	update
Access Group	wifi

Extra parameters

Name	Type	Summary	Required
mkey	string	FortiSwitch name.	No
admin	string	New FortiSwitch administrative state [enable disable discovered].	No

managed-switch: restart

Summary	Restart a given FortiSwitch.
URI	switch-controller/managed-switch/restart/
HTTP Method	POST
Action	restart
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of managed FortiSwitch.	Yes

managed-switch: poe-reset

Summary	Reset PoE on a given FortiSwitch's port.
URI	switch-controller/managed-switch/poe-reset/
HTTP Method	POST
Action	poe-reset
Access Group	wifi

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of managed FortiSwitch.	Yes
port	string	Name of port to reset PoE on.	Yes

managed-switch: faceplate-xml

Summary	Retrieve XML for rendering FortiSwitch faceplate widget.
URI	switch-controller/managed-switch/faceplate-xml/
HTTP Method	GET
Action	faceplate-xml
Access Group	wifi
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of managed FortiSwitch.	No

managed-switch: factory-reset

Summary	Send 'Factory Reset' command to a given FortiSwitch.
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URI	switch-controller/managed-switch/factory-reset/
HTTP Method	POST
Action	factory-reset
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of managed FortiSwitch.	Yes

managed-switch: dhcp-snooping

Summary	Retrieve DHCP servers monitored by FortiSwitches.
URI	switch-controller/managed-switch/dhcp-snooping/
HTTP Method	GET
Action	dhcp-snooping
Access Group	wifi
Response Type	array

fsw-firmware: select

Summary	Retrieve a list of recommended firmware for managed FortiSwitches.
URI	switch-controller/fsw-firmware/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Filter: FortiSwitch ID.	No
timeout	string	FortiGuard connection timeout (defaults to 3 seconds).	No

fsw-firmware: download

Summary	Download FortiSwitch firmware from FortiGuard to the FortiGate according to FortiSwitch image ID.
URI	switch-controller/fsw-firmware/download/
HTTP Method	POST
Action	download
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
image_id	string	FortiSwitch image ID.	Yes

fsw-firmware: push

Summary	Push FortiSwitch firmware to the given device.
URI	switch-controller/fsw-firmware/push/
HTTP Method	POST
Action	push
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
serial	string	The target device's serial.	Yes
image_id	string	FortiSwitch image ID.	Yes

fsw-firmware: upload

Summary	Upload FortiSwitch firmware to the management FortiGate and then push to target FortiSwitches.
URI	switch-controller/fsw-firmware/upload/
HTTP Method	POST

Action	upload
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
serials	array	A list of target devices' serials.	No
serials	string	The target device's serial.	No
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

detected-device: select

Summary	Retrieve a list of devices detected on all switches.
URI	switch-controller/detected-device/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	array

validate-switch-prefix: select

Summary	Validate a FortiSwitch serial number prefix.
URI	switch-controller/validate-switch-prefix/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
prefix	string	Prefix of FortiSwitch serial number.	No

interface: select

Summary	Retrieve statistics for all system interfaces.
URI	system/interface/select/
HTTP Method	GET
Action	select
Access Group	netgrp.cfg
ETag Caching	Enabled
Response Type	array

Extra parameters

Name	Type	Summary	Required
interface_ name	string	Filter: interface name.	No
include_vlan	boolean	Enable to include VLANs in result list.	No

interface: dhcp-status

Summary	Retrieve the DHCP client status of an interface.
URI	system/interface/dhcp-status/
HTTP Method	GET
Action	dhcp-status
Access Group	netgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of the interface.	Yes

interface: dhcp-renew

Summary	Renew DHCP lease of an interface.
URI	system/interface/dhcp-renew/
HTTP Method	POST

Action	dhcp-renew
Access Group	netgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of the interface.	Yes

available-interfaces: select

Summary	Retrieve a list of all interfaces along with some meta information regarding their availability.
URI	system/available-interfaces/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	array

Extra parameters

Name	Type	Summary	Required
view_type	string	Optionally include additional information for interfaces. This parameter can be repeated multiple times. 'poe': Includes PoE information for supported ports. 'ha': Includes extra meta information useful when dealing with interfaces related to HA configuration. Interfaces that are used by an HA cluster as management interfaces are also included in this view. 'zone': Includes extra meta information for determining zone membership eligibility. 'vwp': Includes extra meta information for determining virtual wire pair eligibility. 'sdwan': Includes extra meta information for determining SD-WAN eligibility. 'switch': Includes extra meta information for determining switch eligibility. 'hard-switch': Includes extra meta information for determining hard-switch eligibility.	No

acquired-dns: select

Summary	Retrieve a list of interfaces and their acquired DNS servers.
URI	system/acquired-dns/select/

HTTP Method	GET
Action	select
Access Group	any
Response Type	array

resolve-fqdn: select

Summary	Resolves the provided FQDNs to FQDN -> IP mappings.
URI	system/resolve-fqdn/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	object

Extra parameters

Name	Type	Summary	Required
ipv6	boolean	Resolve for the AAAA record?	No
fqdn	string	FQDN	Yes
fqdn	array	List of FQDNs to be resolved	No

nat46-ippools: select

Summary	Retrieve a list of all IPv6 IP pools that are valid for NAT 46 policies.
URI	system/nat46-ippools/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	array

usb-log: select

Summary	Retrieve information about connected USB drives, including estimated log sizes.
URI	system/usb-log/select/

HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

usb-log: start

Summary	Start backup of logs from current VDOM to USB drive.
URI	system/usb-log/start/
HTTP Method	POST
Action	start
Access Group	sysgrp.cfg

usb-log: stop

Summary	Stop backup of logs to USB drive.
URI	system/usb-log/stop/
HTTP Method	POST
Action	stop
Access Group	sysgrp.cfg

usb-device: eject

Summary	Eject USB drives for safe removal.
URI	system/usb-device/eject/
HTTP Method	POST
Action	eject
Access Group	sysgrp.cfg

ipconf: select

Summary	Determine if there is an IP conflict for a specific IP using ARP.
URI	system/ipconf/select/
HTTP Method	GET
Action	select

Access Group	netgrp.cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
devs	array	List of interfaces to check for conflict.	Yes
ipaddr	string	IPv4 address to check for conflict.	Yes

fortiguard: update

Summary	Immediately update status for FortiGuard services.
URI	system/fortiguard/update/
HTTP Method	POST
Action	update
Access Group	sysgrp.cfg

fortiguard: clear-statistics

Summary	Immediately clear all FortiGuard statistics.
URI	system/fortiguard/clear-statistics/
HTTP Method	POST
Action	clear-statistics
Access Group	sysgrp.cfg

fortiguard: test-availability

Summary	Test availability of FortiGuard services.
URI	system/fortiguard/test-availability/
HTTP Method	POST
Action	test-availability
Access Group	sysgrp.cfg

fortiguard: server-info

Summary	Get FortiGuard server list and information.
URI	system/fortiguard/server-info/
HTTP Method	GET
Action	server-info
Access Group	sysgrp.cfg

fortimanager: status

Summary	Get FortiManager status.
URI	system/fortimanager/status/
HTTP Method	GET
Action	status
Access Group	sysgrp.cfg
Response Type	object

fortimanager: config

Summary	Configure FortiManager IP. Register FortiManager if 'fortimanager_ip' is provided. Unregister FortiManager if only 'unregister' parameter is specified and set to true.
URI	system/fortimanager/config/
HTTP Method	POST
Action	config
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
fortimanager_ip	string	FortiManager IP address.	No
unregister	boolean	Unregister the FortiManager (default=false).	No

fortimanager: backup-summary

Summary	Get FortiManager backup summary.
URI	system/fortimanager/backup-summary/
HTTP Method	GET
Action	backup-summary
Access Group	fwgrp
Response Type	object

fortimanager: backup-action

Summary	Import or update from FortiManager objects.
URI	system/fortimanager/backup-action/
HTTP Method	POST
Action	backup-action
Access Group	fwgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
operation	string	Operation to perform on the given CMDB objects [import update].	Yes
objects	array	Array of CMDB tables and mkeys.	Yes

fortimanager: backup-details

Summary	Get the properties of a FortiManager object.
URI	system/fortimanager/backup-details/
HTTP Method	GET
Action	backup-details
Access Group	fwgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Object name.	Yes
datasource	string	Object datasource.	Yes

available-certificates: select

Summary	Get available certificates.
URI	system/available-certificates/select/
HTTP Method	GET
Action	select
Access Group	any

Extra parameters

Name	Type	Summary	Required
scope	string	Scope of certificate [vdom* global].	No

certificate: download

Summary	Download certificate.
URI	system/certificate/download/
HTTP Method	GET
Action	download
Access Group	vpngrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of certificate.	Yes
type	string	Type of certificate [local csr remote ca cr].	Yes
scope	string	Scope of certificate [vdom* global].	No

debug: download

Summary	Download debug report for technical support.
URI	system/debug/download/
HTTP Method	GET
Action	download
Access Group	sysgrp.cfg
Response Type	object

com-log: dump

Summary	Dump system com-log to file.
URI	system/com-log/dump/
HTTP Method	POST
Action	dump
Access Group	sysgrp.cfg

com-log: update

Summary	Fetch system com-log file dump progress.
URI	system/com-log/update/
HTTP Method	GET
Action	update
Access Group	sysgrp.cfg

com-log: download

Summary	Download com-log file (after file dump is complete).
URI	system/com-log/download/
HTTP Method	GET
Action	download
Access Group	sysgrp.cfg
Response Type	object

botnet: stat

Summary	Retrieve statistics for FortiGuard botnet database.
URI	system/botnet/stat/
HTTP Method	GET
Action	stat
Access Group	sysgrp.cfg
ETag Caching	Enabled
Response Type	object

botnet: select

Summary	List all known IP-based botnet entries in FortiGuard botnet database.
URI	system/botnet/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
ETag Caching	Enabled
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No
include_hit_only	boolean	Include entries with hits only.	No

botnet-domains: select

Summary	List all known domain-based botnet entries in FortiGuard botnet database.
URI	system/botnet-domains/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

ETag Caching	Enabled
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No

botnet-domains: stat

Summary	List statistics on domain-based botnet entries in FortiGuard botnet database.
URI	system/botnet-domains/stat/
HTTP Method	GET
Action	stat
Access Group	sysgrp.cfg
ETag Caching	Enabled
Response Type	object

botnet-domains: hits

Summary	List hit botnet domains with hit count > 0.
URI	system/botnet-domains/hits/
HTTP Method	GET
Action	hits
Access Group	sysgrp.cfg
Response Type	array

ha-statistics: select

Summary	List of statistics for members of HA cluster.
URI	system/ha-statistics/select/
HTTP Method	GET
Action	select

Access Group	sysgrp.cfg
Response Type	array

ha-history: select

Summary	Get HA cluster historical logs.
URI	system/ha-history/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
ETag Caching	Enabled
Response Type	object

ha-checksums: select

Summary	List of checksums for members of HA cluster.
URI	system/ha-checksums/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
ETag Caching	Enabled
Response Type	array

ha-peer: select

Summary	Get configuration of peer(s) in HA cluster. Uptime is expressed in seconds.
URI	system/ha-peer/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
serial_no	string	Serial number of the HA member. If not specified, fetch information for all HA members	No
vcluster_id	int	Virtual cluster number. If not specified, fetch information for all active vclusters	No

ha-peer: update

Summary	Update configuration of peer in HA cluster.
URI	system/ha-peer/update/
HTTP Method	POST
Action	update
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
serial_no	string	Serial number of the HA member.	Yes
vcluster_id	int	Virtual cluster number.	No
priority	int	Priority to assign to HA member.	No
hostname	string	Name to assign the HA member.	No

ha-peer: disconnect

Summary	Update configuration of peer in HA cluster.
URI	system/ha-peer/disconnect/
HTTP Method	POST
Action	disconnect
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
serial_no	string	Serial number of the HA member.	Yes
interface	string	Name of the interface which should be assigned for management.	Yes
ip	string	IP to assign to the selected interface.	Yes
mask	string	Full network mask to assign to the selected interface.	Yes

link-monitor: select

Summary	Retrieve per-interface statistics for active link monitors.
URI	system/link-monitor/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of link monitor.	No

compliance: run

Summary	Immediately run compliance checks for the selected VDOM.
URI	system/compliance/run/
HTTP Method	POST
Action	run
Access Group	sysgrp.cfg

config: restore

Summary	Restore system configuration from uploaded file or from USB.
URI	system/config/restore/
HTTP Method	POST
Action	restore

Access Group	sysgrp.mnt
Response Type	object

Extra parameters

Name	Type	Summary	Required
source	string	Configuration file data source [upload usb revision].	Yes
usb_filename	string	When using 'usb' source: the filename to restore from the connected USB device.	No
config_id	int	When using 'revision' source: valid ID of configuration stored on disk to revert to.	No
password	string	Password to decrypt configuration data.	No
scope	string	Specify global or VDOM only restore [global vdom].	Yes
vdom	string	If 'vdom' scope specified, the name of the VDOM to restore configuration.	No
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

config: backup

Summary	Backup system config
URI	system/config/backup/
HTTP Method	GET
Action	backup
Access Group	sysgrp.mnt
Response Type	object

Extra parameters

Name	Type	Summary	Required
destination	string	Configuration file destination [file* usb]	No
usb_filename	string	When using 'usb' destination: the filename to save to on the connected USB device	No
password	string	Password to encrypt configuration data.	No
scope	string	Specify global or VDOM only backup [global vdom].	Yes
vdom	string	If 'vdom' scope specified, the name of the VDOM to backup configuration.	No

config: usb-filelist

Summary	List configuration files available on connected USB drive.
URI	system/config/usb-filelist/
HTTP Method	GET
Action	usb-filelist
Access Group	sysgrp.cfg
Response Type	array

sandbox: stats

Summary	Retrieve sandbox statistics.
URI	system/sandbox/stats/
HTTP Method	GET
Action	stats
Access Group	sysgrp.cfg
Response Type	object

sandbox: status

Summary	Retrieve sandbox status.
URI	system/sandbox/status/
HTTP Method	GET
Action	status
Access Group	sysgrp.cfg
Response Type	object

sandbox: test-connect

Summary	Test the connectivity of a given FortiSandbox IP.
URI	system/sandbox/test-connect/
HTTP Method	GET
Action	test-connect
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
server	string	IP of the FortiSandbox to test.	Yes

object: usage

Summary	Retrieve all objects that are currently using as well as objects that can use the given object.		
URI	system/object/usage/		
HTTP Method	GET		
Action	usage		
Access Group	any		
Response Type	object		

Extra parameters

Name	Type	Summary	Required
q_path	string	The CMDB table's path	No
q_name	string	The CMDB table's name	No
qtypes	array	List of CMDB table qTypes	No
mkey	string	The mkey for the object	Yes

object-tagging: usage

Summary	Retrieve usage count for tags in all tag categories.		
URI	system/object-tagging/usage/		
HTTP Method	GET		
Action	usage		
Access Group	any		
Response Type	array		

status: select

Summary	Retrieve basic system status.		
URI	system/status/select/		

HTTP Method	GET
Action	select
Access Group	any
Response Type	object

timezone: select

Summary	Get world timezone and daylight saving time.
URI	system/timezone/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	array

vmlicense: upload

Summary	Update VM license using uploaded file. Reboots immediately if successful.
URI	system/vmlicense/upload/
HTTP Method	POST
Action	upload
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

sensor-info: select

Summary	Retrieve system sensor status.
URI	system/sensor-info/select/
HTTP Method	GET

Action	select
Access Group	sysgrp.cfg
Response Type	object

security-rating: select

Summary	Retrieve a Security Rating result. Without file specified, returns the most recent result.
URI	system/security-rating/select/
HTTP Method	GET
Action	select
Access Group	secfabgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
id	int	Security Rating result ID.	No

security-rating: history

Summary	Retrieve Security Rating history.
URI	system/security-rating/history/
HTTP Method	GET
Action	history
Access Group	secfabgrp
Response Type	object

security-rating: trigger

Summary	Trigger a Security Rating.
URI	system/security-rating/trigger/
HTTP Method	POST
Action	trigger
Access Group	secfabgrp
Response Type	object

security-rating: status

Summary	Check if a Security Rating is currently running.
URI	system/security-rating/status/
HTTP Method	GET
Action	status
Access Group	secfabgrp
Response Type	object

security-rating: lang

Summary	Returns the requested Security Rating language mapping.
URI	system/security-rating/lang/
HTTP Method	GET
Action	lang
Access Group	secfabgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
key	string	Requested language mapping (en, fr, big5, euc-kr, GB2312, pg, sp, x-sjis).	No

fortiguard-blacklist: select

Summary	Retrieve blacklist information for a specified IP.
URI	system/fortiguard-blacklist/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
ip	string	IPv4 address to check against.	Yes
timeout	int	Timeout period in seconds (defaults to 5).	No

check-port-availability: select

Summary	Check whether a list of TCP port ranges is available for a certain service.
URI	system/check-port-availability/select/
HTTP Method	GET
Action	select
Access Group	sysgrp.cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
port_ranges	array	List of TCP port range objects to check against.	Yes
service	string	The service in which the ports could be available. 'service' options are [reserved sysglobal webproxy ftpproxy sslvpn slaprobe fso ftm_push]. If 'service' is not specified, the port ranges availability is checked against all services.	No

external-resource: entry-list

Summary	Retrieve resource file status with a list of valid/invalid entries (skip empty and comment lines) for the specific external resource.
URI	system/external-resource/entry-list/
HTTP Method	GET
Action	entry-list
Access Group	sysgrp.cfg
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	The external resource name to query.	Yes
status_only	boolean	Retrieve resource file status only and skip entries.	No

extender-controller**extender: select**

Summary	Retrieve statistics for specific configured FortiExtender units.		
URI	extender-controller/extender/select/		
HTTP Method	GET		
Action	select		
Access Group	netgrp.cfg		
Response Type	array		

Extra parameters

Name	Type	Summary	Required
id	array	List of FortiExtender IDs to query.	Yes

extender: reset

Summary	Reset a specific FortiExtender unit.		
URI	extender-controller/extender/reset/		
HTTP Method	POST		
Action	reset		
Access Group	netgrp.cfg		
Response Type	object		

Extra parameters

Name	Type	Summary	Required
id	string	FortiExtender ID to reset.	Yes

sdn-connector: status

Summary	Retrieve connection status for SDN connectors.
URI	system/sdn-connector/status/
HTTP Method	GET
Action	status
Access Group	sysgrp.cfg
Response Type	array

Extra parameters

Name	Type	Summary	Required
mkey	string	Filter: SDN Connector ID.	No
type	string	Filter: SDN Connector type.	No

sdn-connector: validate-gcp-key

Summary	Validate a string representing a private key from GCP in PEM format.
URI	system/sdn-connector/validate-gcp-key/
HTTP Method	POST
Action	validate-gcp-key
Access Group	any
Response Type	object

Extra parameters

Name	Type	Summary	Required
private-key	string	Private key in PEM format.	Yes

user

firewall: select

Summary	List authenticated firewall users.
URI	user/firewall/select/

HTTP Method	GET
Action	select
Access Group	authgrp
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No
ipv4	boolean	Include IPv4 user (default=true).	No
ipv6	boolean	Include IPv6 users.	No

firewall: deauth

Summary	Deauthenticate single, multiple, or all firewall users.
URI	user/firewall/deauth/
HTTP Method	POST
Action	deauth
Access Group	authgrp

Extra parameters

Name	Type	Summary	Required
user_type	string	User type [proxy firewall]. Required for both proxy and firewall users.	No
id	int	User ID. Required for both proxy and firewall users.	No
ip	string	User IP address. Required for both proxy and firewall users.	No
ip_version	string	IP version [ip4 ip6]. Only required if user_type is firewall.	No
method	string	Authentication method [fsso rsso ntlm firewall wssso fsso_citrix sso_guest]. Only required if user_type is firewall.	No
all	boolean	Set to true to deauthenticate all users. Other parameters will be ignored.	No
users	array	Array of user objects to deauthenticate. Use this to deauthenticate multiple users at once. Each object should include the above properties.	No

banned: select

Summary	Return a list of all banned users by IP.
URI	user/banned/select/
HTTP Method	GET
Action	select
Access Group	authgrp

banned: clear_users

Summary	Immediately clear a list of specific banned users by IP.
URI	user/banned/clear_users/
HTTP Method	POST
Action	clear_users
Access Group	authgrp

Extra parameters

Name	Type	Summary	Required
ip_addresses	array	List of banned user IPs to clear. IPv4 and IPv6 addresses are allowed.	Yes

banned: add_users

Summary	Immediately add one or more users to the banned list.
URI	user/banned/add_users/
HTTP Method	POST
Action	add_users
Access Group	authgrp

Extra parameters

Name	Type	Summary	Required
ip_addresses	array	List of IP Addresses to ban. IPv4 and IPv6 addresses are allowed.	Yes
expiry	int	Time until expiry in seconds. 0 for indefinite ban.	No

banned: clear_all

Summary	Immediately clear all banned users.
URI	user/banned/clear_all/
HTTP Method	POST
Action	clear_all
Access Group	authgrp

fortitoken: select

Summary	Retrieve a map of FortiTokens and their status.
URI	user/fortitoken/select/
HTTP Method	GET
Action	select
Access Group	authgrp
Response Type	object

fortitoken: activate

Summary	Activate a set of FortiTokens by serial number.
URI	user/fortitoken/activate/
HTTP Method	POST
Action	activate
Access Group	authgrp
Response Type	array

Extra parameters

Name	Type	Summary	Required
tokens	array	List of FortiToken serial numbers to activate. If omitted, all tokens will be used.	No

detected-device: select

Summary	Retrieve a list of detected devices.
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URI	user/detected-device/select/
HTTP Method	GET
Action	select
Access Group	authgrp
Response Type	array

Extra parameters

Name	Type	Summary	Required
expand_child_macs	boolean	Include child devices as separate entries in the list.	No
with_compliance	boolean	Retrieve compliance status.	No
with_dhcp	boolean	Retrieve DHCP lease information.	No
with_endpoint	boolean	Retrieve FortiClient endpoint information.	No
with_endpoint_advanced	boolean	Retrieve advanced FortiClient endpoint information.	No
with_fortilink	boolean	Retrieve FortiLink information.	No
with_fortiap	boolean	Retrieve FortiAP information.	No

device: select

Summary	Retrieve a list of detected devices.
URI	user/device/select/
HTTP Method	GET
Action	select
Access Group	authgrp
ETag Caching	Enabled
Response Type	array

Extra parameters

Name	Type	Summary	Required
master_only	boolean	List of master device only.	No

Name	Type	Summary	Required
compliance_visibility	boolean	Add compliance status to indicate if a device is 'exempt' or 'non-compliant' by interface's FortiClient host check.	No
intf_name	string	Filter: Name of interface where the device was detected. Only available when compliance_visibility is true.	No
master_mac	string	Filter: Master MAC of a device. Multiple entries could be returned.	No

device-type: select

Summary	Retrieve a list of device types.
URI	user/device-type/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	array

device-category: select

Summary	Retrieve a list of device categories.
URI	user/device-category/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	array

fortitoken: refresh

Summary	Refresh a set of FortiTokens by serial number.
URI	user/fortitoken/refresh/
HTTP Method	POST
Action	refresh
Access Group	authgrp
Response Type	array

Extra parameters

Name	Type	Summary	Required
tokens	array	List of FortiToken serial numbers to refresh. If omitted, all tokens will be used.	No

fortitoken: provision

Summary	Provision a set of FortiTokens by serial number.
URI	user/fortitoken/provision/
HTTP Method	POST
Action	provision
Access Group	authgrp
Response Type	array

Extra parameters

Name	Type	Summary	Required
tokens	array	List of FortiToken serial numbers to provision. If omitted, all tokens will be used.	No

fortitoken: send-activation

Summary	Send a FortiToken activation code to a user via SMS or Email.
URI	user/fortitoken/send-activation/
HTTP Method	POST
Action	send-activation
Access Group	authgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
token	string	FortiToken serial number. The token must be assigned to a user/admin.	Yes
method	string	Method to send activation code [email sms]. If not set, SMS will be attempted first, then email.	No

Name	Type	Summary	Required
email	string	Override email address.	No
sms_phone	string	Override SMS phone number. SMS provider must be set in the assigned user/admin.	No

fortitoken: import-trial

Summary	Import trial mobile FortiTokens.
URI	user/fortitoken/import-trial/
HTTP Method	POST
Action	import-trial
Access Group	authgrp
Response Type	object

fortitoken: import-mobile

Summary	Import a list of tokens from FortiGuard to the FortiGate unit.
URI	user/fortitoken/import-mobile/
HTTP Method	POST
Action	import-mobile
Access Group	authgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
code	string	Activation code on redemption certificate.	Yes

fortitoken: import-seed

Summary	Import a FortiToken seed file.
URI	user/fortitoken/import-seed/
HTTP Method	POST
Action	import-seed
Access Group	authgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

fsso: refresh-server

Summary	Refresh remote agent group list for all fsso agents.
URI	user/fsso/refresh-server/
HTTP Method	POST
Action	refresh-server
Access Group	authgrp

fsso: select

Summary	Get a list of fsso and fsso polling status.
URI	user/fsso/select/
HTTP Method	GET
Action	select
Access Group	authgrp

radius: test-connect

Summary	Test the connectivity of the given RADIUS server and, optionally, the validity of a username & password.
URI	user/radius/test-connect/
HTTP Method	POST
Action	test-connect
Access Group	authgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of FortiGate's RADIUS object whose settings to test.	No
ordinal	string	If 'mkey' is provided, the server-secret pair to use from the object: 'primary', 'secondary' or 'tertiary'. Defaults to 'primary'.	No
server	string	Host name or IP of a RADIUS server. If 'mkey' is provided, this overrides the 'server' value in the object.	No
secret	string	Secret password for the RADIUS server. If 'mkey' is provided, this overrides the 'secret' value in the object.	No
user	string	User name whose access to check.	No
password	string	User's password.	No

tacacs-plus: test

Summary	Test the connectivity of the given TACACS+ server.
URI	user/tacacs-plus/test/
HTTP Method	POST
Action	test
Access Group	authgrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
mkey	string	Name of FortiGate's TACACS+ object whose settings to test.	No
ordinal	string	If 'mkey' is provided, the server-key pair to use from the object: 'primary', 'secondary' or 'tertiary'. Defaults to 'primary'.	No
server	string	Host name or IP of a TACACS+ server. If 'mkey' is provided, this overrides the 'server' value in the object.	No
secret	string	Secret key for the TACACS+ server. If 'mkey' is provided, this overrides the 'key' value in the object.	No
port	int	Port number of the TACACS+ server. If 'mkey' is provided, this overrides the 'port' value in the object. Defaults to 49.	No
source_ip	string	Source IP for communications to TACACS+ server. If 'mkey' is provided, this overrides the 'source-ip' value in the object.	No

utm

rating-lookup: select

Summary	Lookup FortiGuard rating for a specific URL.
URI	utm/rating-lookup/select/
HTTP Method	GET
Action	select
Access Group	utmgrp.webfilter
Response Type	object

Extra parameters

Name	Type	Summary	Required
url	string	URL to query.	Yes
url	array	List of URLs to query.	No

app-lookup: select

Summary	Query remote FortiFlow database to resolve hosts to application control entries.
URI	utm/app-lookup/select/
HTTP Method	GET
Action	select
Access Group	any
Response Type	array

Extra parameters

Name	Type	Summary	Required
hosts	array	List of hosts to resolve.	No

application-categories: select

Summary	Retrieve a list of application control categories.
URI	utm/application-categories/select/
HTTP Method	GET

Action	select
Access Group	any
Response Type	array

antivirus: stats

Summary	Retrieve antivirus scanning statistics.
URI	utm/antivirus/stats/
HTTP Method	GET
Action	stats
Access Group	utmgrp.antivirus
Response Type	object

virtual-wan

health-check: select

Summary	Retrieve health-check statistics for each SD-WAN link.
URI	virtual-wan/health-check/select/
HTTP Method	GET
Action	select
Access Group	netgrp.cfg

members: select

Summary	Retrieve interface statistics for each SD-WAN link.
URI	virtual-wan/members/select/
HTTP Method	GET
Action	select
Access Group	netgrp.cfg

webfilter

override: select

Summary	List all administrative and user initiated webfilter overrides.
URI	webfilter/override/select/
HTTP Method	GET
Action	select
Access Group	utmgrp.webfilter

override: delete

Summary	Delete a configured webfilter override.
URI	webfilter/override/delete/
HTTP Method	POST
Action	delete
Access Group	utmgrp.webfilter

Extra parameters

Name	Type	Summary	Required
mkey	string	ID of webfilter override to delete.	No

malicious-urls: select

Summary	List all URLs in FortiSandbox malicious URL database.
URI	webfilter/malicious-urls/select/
HTTP Method	GET
Action	select
Access Group	utmgrp.webfilter
ETag Caching	Enabled
Response Type	object

malicious-urls: stat

Summary	Retrieve statistics for the FortiSandbox malicious URL database.
URI	webfilter/malicious-urls/stat/
HTTP Method	GET
Action	stat
Access Group	utmgrp.webfilter
ETag Caching	Enabled
Response Type	object

category-quota: select

Summary	Retrieve quota usage statistics for webfilter categories.
URI	webfilter/category-quota/select/
HTTP Method	GET
Action	select
Access Group	utmgrp.webfilter

Extra parameters

Name	Type	Summary	Required
profile	string	Webfilter profile.	No
user	string	User or IP (required if profile specified).	No

category-quota: reset

Summary	Reset webfilter quota for user or IP.
URI	webfilter/category-quota/reset/
HTTP Method	POST
Action	reset
Access Group	utmgrp.webfilter

Extra parameters

Name	Type	Summary	Required
profile	string	Webfilter profile to reset.	No
user	string	User or IP to reset with.	No

fortiguard-categories: select

Summary	Return FortiGuard web filter categories.		
URI	webfilter/fortiguard-categories/select/		
HTTP Method	GET		
Action	select		
Access Group	any		
Response Type	array		

Extra parameters

Name	Type	Summary	Required
include_unrated	boolean	Include Unrated category in result list.	No
convert_unrated_id	boolean	Convert Unrated category id to the one for CLI use.	No

trusted-urls: select

Summary	List all URLs in FortiGuard trusted URL database.		
URI	webfilter/trusted-urls/select/		
HTTP Method	GET		
Action	select		
Access Group	utmgrp.webfilter		
ETag Caching	Enabled		
Response Type	object		

vpn

ipsec: select

Summary	Return an array of active IPsec VPNs.
URI	vpn/ipsec/select/
HTTP Method	GET
Action	select
Access Group	vpngrp
Response Type	array

Extra parameters

Name	Type	Summary	Required
tunnel	string	Filter for a specific IPsec tunnel name.	No
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No

ipsec: tunnel_up

Summary	Bring up a specific IPsec VPN tunnel.
URI	vpn/ipsec/tunnel_up/
HTTP Method	POST
Action	tunnel_up
Access Group	vpngrp

Extra parameters

Name	Type	Summary	Required
p1name	string	IPsec phase1 name.	Yes
p2name	string	IPsec phase2 name.	Yes
p2serial	int	IPsec phase2 serial.	No

ipsec: tunnel_down

Summary	Bring down a specific IPsec VPN tunnel.
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URI	vpn/ipsec/tunnel_down/
HTTP Method	POST
Action	tunnel_down
Access Group	vpngrp

Extra parameters

Name	Type	Summary	Required
p1name	string	IPsec phase1 name.	Yes
p2name	string	IPsec phase2 name.	Yes
p2serial	int	IPsec phase2 serial.	No

ipsec: tunnel_reset_stats

Summary	Reset statistics for a specific IPsec VPN tunnel.
URI	vpn/ipsec/tunnel_reset_stats/
HTTP Method	POST
Action	tunnel_reset_stats
Access Group	vpngrp

Extra parameters

Name	Type	Summary	Required
p1name	string	IPsec phase1 name.	Yes

one-click: members

Summary	Get information on devices registered in the Overlay Controller VPN cloud assisted group.
URI	vpn/one-click/members/
HTTP Method	GET
Action	members
Access Group	vpngrp
Response Type	array

one-click: status

Summary	Get the last status message from FortiCloud Overlay Controller VPN cloud service.
URI	vpn/one-click/status/
HTTP Method	GET
Action	status
Access Group	vpngrp
Response Type	object

ssl: select

Summary	Retrieve a list of all SSL-VPN sessions and sub-sessions.
URI	vpn/ssl/select/
HTTP Method	GET
Action	select
Access Group	vpngrp

ssl: clear_tunnel

Summary	Remove all active tunnel sessions in current virtual domain.
URI	vpn/ssl/clear_tunnel/
HTTP Method	POST
Action	clear_tunnel
Access Group	vpngrp

ssl: delete

Summary	Terminate the provided SSL-VPN session.
URI	vpn/ssl/delete/
HTTP Method	POST
Action	delete
Access Group	vpngrp

Extra parameters

Name	Type	Summary	Required
type	string	The session type [websession subsession].	Yes
index	int	The session index.	Yes

ssl: stats

Summary	Return statistics about the SSL-VPN.
URI	vpn/ssl/stats/
HTTP Method	GET
Action	stats
Access Group	vpngrp

vpn-certificate**ca: import**

Summary	Import CA certificate.
URI	vpn-certificate/ca/import/
HTTP Method	POST
Action	import
Access Group	vpngrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
import_method	string	Method of importing CA certificate. [file scep]	Yes
scep_url	string	SCEP server URL. Required for import via SCEP	No
scep_ca_id	string	SCEP server CA identifier for import via SCEP.	No
scope	string	Scope of CA certificate [vdom* global]. Global scope is only accessible for global administrators	No
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

crl: import

Summary	Import certificate revocation lists (CRL) from file content.
URI	vpn-certificate/crl/import/
HTTP Method	POST
Action	import
Access Group	vpngrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
scope	string	Scope of CRL [vdom* global]. Global scope is only accessible for global administrators	No
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

local: import

Summary	Import local certificate.
URI	vpn-certificate/local/import/
HTTP Method	POST
Action	import
Access Group	vpngrp
Response Type	object

Extra parameters

Name	Type	Summary	Required
type	string	Type of certificate.[local pkcs12 regular]	Yes
certname	string	Certificate name for pkcs12 and regular certificate types.	No
password	string	Optional password for pkcs12 and regular certificate types.	No
key_file_content	string	Key content encoded in BASE64 for regular certificate type.	No
scope	string	Scope of local certificate [vdom* global]. Global scope is only accessible for global administrators	No

Name	Type	Summary	Required
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

remote: import

Summary	Import remote certificate.		
URI	vpn-certificate/remote/import/		
HTTP Method	POST		
Action	import		
Access Group	vpngrp		
Response Type	object		

Extra parameters

Name	Type	Summary	Required
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

csr: generate

Summary	Generate a certificate signing request (CSR) and a private key. The CSR can be retrieved / downloaded from CLI, GUI and REST API.		
URI	vpn-certificate/csr/generate/		
HTTP Method	POST		
Action	generate		
Access Group	vpngrp		
Response Type	object		

Extra parameters

Name	Type	Summary	Required
certname	string	Certificate name. Used to retrieve / download the CSR. Not included in CSR and key content.	Yes

Name	Type	Summary	Required
subject	string	Subject (Host IP/Domain Name/E-Mail). Common Name (CN) of the certificate subject.	Yes
keytype	string	Generate a RSA or an elliptic curve certificate request [rsa ec]. The Elliptic Curve option is unavailable if the FortiGate is a Low Encryption Device (LENC)	Yes
keysize	int	Key size.[1024 1536 2048 4096]. 512 only if the FortiGate is a Low Encryption Device (LENC). Required when keytype is RSA.	No
curvename	string	Elliptic curve name. [secp256r1 secp384r1 secp521r1]. Unavailable if the FortiGate is a Low Encryption Device (LENC). Required when keytype is ec.	No
orgunits	array	List of organization units. Organization Units (OU) of the certificate subject.	No
org	string	Organization (O) of the certificate subject.	No
city	string	Locality (L) of the certificate subject.	No
state	string	State (ST) of the certificate subject.	No
countrycode	string	Country (C) of the certificate subject.	No
email	string	Email of the certificate subject.	No
sub_alt_name	string	Subject alternative name (SAN) of the certificate.	No
password	string	Password / pass phrase for the private key. If not provided, FortiGate generates a random one.	No
scep_url	string	SCEP server URL. If provided, use the url to enroll the csr through SCEP.	No
scep_password	string	SCEP challenge password. Some SCEP servers may require challenge password. Provide it when SCEP server requires.	No
scope	string	Scope of CSR [vdom* global]. Global scope is only accessible for global administrators	No

wanopt

history: select

Summary	Retrieve WAN opt. statistics history.
URI	wanopt/history/select/
HTTP Method	GET
Action	select
Access Group	wanoptgrp

Extra parameters

Name	Type	Summary	Required
period	string	Statistics period [10-min* hour day week 30-day].	No

history: reset

Summary	Reset WAN opt. statistics.
URI	wanopt/history/reset/
HTTP Method	POST
Action	reset
Access Group	wanoptgrp

webcache: select

Summary	Retrieve webcache statistics history.
URI	wanopt/webcache/select/
HTTP Method	GET
Action	select
Access Group	wanoptgrp

Extra parameters

Name	Type	Summary	Required
period	string	Statistics period [10-min* hour day week 30-day].	No

webcache: reset

Summary	Reset webcache statistics.
URI	wanopt/webcache/reset/
HTTP Method	POST
Action	reset
Access Group	wanoptgrp

peer_stats: select

Summary	Retrieve a list of WAN opt peer statistics.
URI	wanopt/peer_stats/select/
HTTP Method	GET
Action	select
Access Group	wanoptgrp

peer_stats: reset

Summary	Reset WAN opt peer statistics.
URI	wanopt/peer_stats/reset/
HTTP Method	POST
Action	reset
Access Group	wanoptgrp

webproxy

pacfile: download

Summary	Download webproxy PAC file.
URI	webproxy/pacfile/download/
HTTP Method	GET
Action	download
Access Group	netgrp.cfg
Response Type	object

webcache

stats: select

Summary	Retrieve webcache statistics.
URI	webcache/stats/select/
HTTP Method	GET

Action	select
Access Group	wanoptgrp
Response Type	array

Extra parameters

Name	Type	Summary	Required
period	string	Statistics period [10min hour day month].	No

stats: reset

Summary	Reset all webcache statistics.
URI	webcache/stats/reset/
HTTP Method	POST
Action	reset
Access Group	wanoptgrp

wifi**client: select**

Summary	Retrieve a list of connected WiFi clients.
URI	wifi/client/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No
type	string	Request type [all* fail-login].	No

managed_ap: select

Summary	Retrieve a list of managed FortiAPs.
URI	wifi/managed_ap/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	array

Extra parameters

Name	Type	Summary	Required
wtp_id	string	Filter: single managed FortiAP by ID.	No
incl_local	boolean	Enable to include the local FortiWiFi device in the results.	No

managed_ap: set_status

Summary	Update administrative state for a given FortiAP (enable or disable authorization).
URI	wifi/managed_ap/set_status/
HTTP Method	POST
Action	set_status
Access Group	wifi

Extra parameters

Name	Type	Summary	Required
wtpname	string	FortiAP name.	No
admin	string	New FortiAP administrative state [enable disable discovered].	No

firmware: select

Summary	Retrieve a list of current and recommended firmware for FortiAPs in use.
URI	wifi/firmware/select/
HTTP Method	GET
Action	select

Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
timeout	string	FortiGuard connection timeout (defaults to 2 seconds).	No

firmware: download

Summary	Download FortiAP firmware from FortiGuard to the FortiGate according to FortiAP image ID.
URI	wifi/firmware/download/
HTTP Method	POST
Action	download
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
image_id	string	FortiAP image ID.	Yes

firmware: push

Summary	Push FortiAP firmware to the given device.
URI	wifi/firmware/push/
HTTP Method	POST
Action	push
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
serial	string	The target device's serial.	Yes
image_id	string	FortiAP image ID.	Yes

firmware: upload

Summary	Upload FortiAP firmware to the management FortiGate and then push to target FortiAPs.
URI	wifi/firmware/upload/
HTTP Method	POST
Action	upload
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
serials	array	A list of target devices' serials.	No
serials	string	The target device's serial.	No
file_content	string	Provided when uploading a file: base64 encoded file data. Must not contain whitespace or other invalid base64 characters. Must be included in HTTP body.	No

managed_ap: restart

Summary	Restart a given FortiAP.
URI	wifi/managed_ap/restart/
HTTP Method	POST
Action	restart
Access Group	wifi

Extra parameters

Name	Type	Summary	Required
wtpname	string	FortiAP name.	No

ap_status: select

Summary	Retrieve statistics for all managed FortiAPs.
URI	wifi/ap_status/select/

HTTP Method	GET
Action	select
Access Group	wifi

interfering_ap: select

Summary	Retrieve a list of interfering APs for one FortiAP radio.
URI	wifi/interfering_ap/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	array

Extra parameters

Name	Type	Summary	Required
wtp	string	FortiAP ID to query.	No
radio	int	Radio ID.	No
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No

euclid: select

Summary	Retrieve presence analytics statistics.
URI	wifi/euclid/select/
HTTP Method	GET
Action	select
Access Group	wifi

euclid: reset

Summary	Reset presence analytics statistics.
URI	wifi/euclid/reset/
HTTP Method	POST

Action	reset
Access Group	wifi

rogue_ap: select

Summary	Retrieve a list of detected rogue APs.
URI	wifi/rogue_ap/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	array

Extra parameters

Name	Type	Summary	Required
start	int	Starting entry index.	No
count	int	Maximum number of entries to return.	No

rogue_ap: clear_all

Summary	Clear all detected rogue APs.
URI	wifi/rogue_ap/clear_all/
HTTP Method	POST
Action	clear_all
Access Group	wifi

rogue_ap: set_status

Summary	Mark detected APs as rogue APs.
URI	wifi/rogue_ap/set_status/
HTTP Method	POST
Action	set_status
Access Group	wifi

Extra parameters

Name	Type	Summary	Required
bssid	array	List of rogue AP MAC addresses.	No
ssid	array	Corresponding list of rogue AP SSIDs.	No
status	string	Status to assign matching APs [unclassified rogue accepted suppressed].	No

spectrum: select

Summary	Retrieve spectrum analysis information for a specific FortiAP.
URI	wifi/spectrum/select/
HTTP Method	GET
Action	select
Access Group	wifi
Response Type	object

Extra parameters

Name	Type	Summary	Required
wtp_id	string	FortiAP ID to query.	Yes

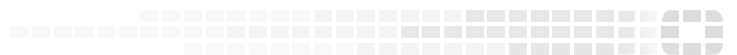
Examples

Method	URL	URL Parameters	Body Data	Access Group	Description
GET	/api/v2/monitor/firewall/policy	?vdom=root		fwgrp.policy	List traffic statistics for all IPv4 policies, vdom root
GET	/api/v2/monitor/firewall/policy	?vdom=*		fwgrp.policy	List traffic statistics for all IPv4 policies, all accessible vdoms
POST	/api/v2/monitor/firewall/policy/reset	?vdom=root		fwgrp.policy	Reset traffic statistics for all IPv4 policies, vdom root
POST	/api/v2/monitor/firewall/policy/reset	?vdom=*		fwgrp.policy	Reset traffic statistics for all IPv4 policies, all accessible vdoms

Method	URL	URL Parameters	Body Data	Access Group	Description
POST	/api/v2/monitor/firewall/policy6/clear_counters	?vdom=root	{'policy': 1,}	fwgrp.policy	Reset traffic statistics for single IPv4 policy, vdom root
POST	/api/v2/monitor/firewall/policy6/clear_counters	?vdom=root	{'policy': [1, 2]}	fwgrp.policy	Reset traffic statistics for multiple IPv4 policies, vdom root
GET	/api/v2/monitor/firewall/session	?vdom=root&ip_version=ipv4&start=0&count=1&summary=True		sysgrp	List the first active ipv4 firewall sessions, vdom root
POST	/api/v2/monitor/firewall/session/clear_all	?vdom=root		sysgrp	Immediately clear all active IPv4 and IPv6 sessions, vdom root
POST	/api/v2/monitor/firewall/session/close	?vdom=root	{'pro': "udp", 'saddr': "192.168.100.110", 'daddr': "96.45.33.73", 'sport': 55933, 'dport': 8888}	sysgrp	Immediately close specific session matched with the filter, vdom root
POST	/api/v2/monitor/system/os/reboot			sysgrp	Immediately reboot this device
POST	/api/v2/monitor/system/os/shutdown			sysgrp	Immediately shutdown this device



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