About the Management Center REST API

The Secure Firewall Management Center REST API provides a lightweight API to manage a management center.

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With the release of management center REST API, you now have light-weight, easy-to-use option for managing Secure Firewall Threat Defense (formerly Firepower Threat Defense) and legacy devices through a management center.

The REST API is an application programming interface (API), based on "RESTful" principles, which you can quickly enable on any management center running version 6.1 or higher, and use with a REST client.

After installing a REST client, you can contact the specific management center's REST agent and use standard HTTP methods to access current configuration information, and issue additional configuration parameters.

Whats New in 7.2

No new features or functionality were added in version 7.2.

New API endpoints and Methods

Table 1: New Methods and Endpoints:

Name	Methods	URL
Chassis		
Evaluate Operation	GET	/api/fmc_config/v1/domain/{domainUUID}/chassis/frmchassis/{containerUUID}/interfaces/{interfaceUUID}/ ...
Breakout Interfaces	POST	/api/fmc_config/v1/domain/{domainUUID}/chassis/frmchassis/{containerUUID}/operational/breakoutinterfaces

Name	Methods	URL
Join Interfaces	POST	/api/fmc_config/v1/domain/{domainUUID}/assignment/managedbasis/{createUUID}/operational/jrinterfaces
Deployment		
Download Reports	GET	/api/fmc_config/v1/domain/{domainUUID}/deployment/jobhistories/{createUUID}/operational/downloadreports
Email Reports	GET	/api/fmc_config/v1/domain/{domainUUID}/deployment/jobhistories/{createUUID}/operational/emailreports
Devices		
EIGRP Routes	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/devices/devicerecords/{createUUID}/routing/eigrproutes
Virtual EIGRP Routes	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/devices/devicerecords/{createUUID}/routing/virtualrouters/{createUUID}/eigrproutes
Device Settings	GET, PUT	/api/fmc_config/v1/domain/{domainUUID}/devices/devicesettings
Change Managers	POST	/api/fmc_config/v1/domain/{domainUUID}/devices/operational/changemanagers
Integration		
EBS Snapshot	GET by ID, POST	/api/fmc_config/v1/domain/{domainUUID}/integration/ebssnapshot
Test Umbrella Connections	POST	/api/fmc_config/v1/domain/{domainUUID}/integration/operational/testumbrellaconnections
Umbrella Connections	GET, GET by ID, PUT, POST	/api/fmc_config/v1/domain/{domainUUID}/integration/umbrellaconnections
Status		
Task Statuses	GET	/api/fmc_config/v1/domain/{domainUUID}/job/taskstatuses
Object		
AnyConnect External Browser Packages	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/anyconnectexternalbrowserpackages
AnyConnect Packages	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/anyconnectpackages
AnyConnect Profiles	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/anyconnectprofiles
Certificate Enrollments	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/certenrollment
Certificate Maps	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/certificatemaps
Group Policies	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/grouppolicies
Host Scan Packages	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/hostscanpackages
IPv4 Address Pools	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ipv4addresspools
IPv6 Address Pools	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ipv6addresspools
Umbrella Protection Policies	GET, POST	/api/fmc_config/v1/domain/{domainUUID}/object/operational/umbrellaprotectionpolicies

Name	Methods	URL
Radius Server Groups	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/radiusservergroups
SSO Servers	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ssoservers
Policy		
Auto NAT Rules	PUT, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ftdnatpolicies/{containerUUID}/autonatrules
Manual NAT Rules	PUT, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ftdnatpolicies/{containerUUID}/manualnatrules
NAT Rules	DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ftdnatpolicies/{containerUUID}/natrules
Health Policies	GET, GET by ID	/api/fmc_config/v1/domain/{domainUUID}/policy/healthpolicies
Policy Locks	GET, POST	/api/fmc_config/v1/domain/{domainUUID}/policy/operational/policylocks
RA VPNs	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns
Address Assignment Settings	PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/addressassignmentsettings/{objectID}
Certificate Map Settings	PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/certificatemapsettings/{objectID}
Connection Profiles	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/connectionprofiles
IPSec Advanced Settings	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/ipsecadvancedsettings
IPSec Crypto Maps	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/ipseccryptomaps
LDAP Attribute Maps	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/ldapattributemaps
S2S VPN Summaries	GET	/api/fmc_config/v1/domain/{domainUUID}/policy/s2svpnsummaries
Umbrella DNS Policies	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/umbrelladnspolicies
Umbrella DNS Rules	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/umbrelladnspolicies/{containerUUID}/umbrelladnsrules
Search		
Device	GET	/api/fmc_config/v1/domain/{domainUUID}/search/device
License		
Device Licenses	GET, GET by ID, PUT, PUT by ID	/api/fmc_platform/v1/license/devicelicenses
Smart Licenses	GET, POST	/api/fmc_platform/v1/license/smartlicenses
Updates		
Upgrade Snapshot	POST	/api/fmc_platform/v1/updates/upgradesnapshot
Troubleshoot		
Task	POST	/api/fmc_troubleshoot/v1/domain/{domainUUID}/task

Enabling the REST API

In management center, the REST API is enabled by default. However, if you are intending to use the REST API, you should confirm that it is enabled.

Note If you are using UCAPL mode, check that the REST API is not enabled.

Step 1 Navigate to System>Configuration>REST API Preferences>Enable REST API

Step 2 Check the "Enable REST API" checkbox.

Step 3 Click "Save". A "Save Successful" dialog will display when the REST API is enabled.

Best Practices

Cisco recommends the following best practices for optimal results with the REST API:

- Keep UI users and script users separate. Especially do not use the admin account as an API user.

- Do not give script users more privilege than needed.

- Always validate the content coming from the server.

- Validate/sanitize JSON content, as it may include embedded executable code.

- If you are using CC or UCAPL mode you should disable REST API access to the management center and managed devices.

Additional Resources

Additional resources for the management center REST API can be found on Cisco DevNet at
https://developer.cisco.com/firepower/.