

Foglight™ 5.7.5.8

REST API Reference Guide



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Legend

- **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.

- ! **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

- i **IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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Getting Started

The Foglight REST API is an application programming interface (API) that uses HTTP requests to GET, PUT, POST, and DELETE data.

The *Foglight REST API Reference Guide* is intended for users who have been assigned the *API Access* and the *Administrator* roles and who need programmatic access to easily create professional services and better integrate with third-party systems.

This section introduces you to the Foglight REST APIs. For more information, see the following topics:

- [Prerequisites](#)
- [Overview](#)

Prerequisites

REST APIs are protected by authentications, which means you need retrieve an access token before using REST APIs. The authentications protecting REST APIs include the following two approaches:

- *User credentials*: User account and user password
- *Auth-Token*: Token-based authentication

Use the [Security — Login](#) API to retrieve an access token through user credentials or an Auth-Token, then include this access token in an HTTP request header to operate with REST APIs.

i | **NOTE:** The minimum version required for operating REST APIs is Foglight Management Server 5.7.0. Retrieving an access token through Auth-Token is only available in the Foglight release 5.7.5.7 or later.

Overview

[Table 1](#) lists the registry variables available after installing the *Forge-RestAPI* cartridge:

Table 1. Available registry variables

Registry variable name	Type	Description
<i>REST_Audit_Enable</i>	Boolean	Specifies whether the audit feature is enabled in the REST API. Enable is set by default. The audit logs can be found in the <i>Audit</i> dashboard.
<i>REST_Audit_Filter</i>	String	If the resource name is specified using this variable, audit logs of specified resources cannot be found in the <i>Audit</i> dashboard and the audit feature is disabled. <ul style="list-style-type: none"> • Separate multiple resource names with a comma. • Regular expression is also supported. The resource name is the part following "api" in the URL address. For example, for the URL address is <a href="http://<server>:<port>/api/v1/topology/query">http://<server>:<port>/api/v1/topology/query, the resource name is "v1/topology/query".

Table 1. Available registry variables

Registry variable name	Type	Description
<i>REST_MaxDepth</i>	Integer	Specifies the expansion depth of a global object. This value starts from 0, and the default value is 1. Take the Host object as an example: <ul style="list-style-type: none"> If the max depth is 0, the Host name and Host unique ID are returned. If the max depth is 1, the first-level properties of the Host are returned.
<i>REST_MaxObjectCount</i>	Integer	Specifies how many objects are invoked through a response. An object is one instance that contains multiple properties.
<i>REST_RetrieveMetricCurrentValue</i>	Boolean	Specifies whether to retrieve the metric current value of a topology object in a response. False is set by default.
<i>REST_RetrieveObservationValue</i>	Boolean	Specifies whether to retrieve the observation current value of a topology object in a response. False is set by default.
<i>REST_ShowLinks</i>	Boolean	Specifies whether to show the link field through a response. False is set by default. The link field includes the following two types: <ul style="list-style-type: none"> Link pointing to the object type Link pointing to the object
<i>REST_TokenExpirationTime</i>	Integer	Specifies the token expiration time (in seconds). This variable takes effect when the token is accessed, when a login attempt using a new API or an API request is received on the server side, for example.
<i>REST_CrossOriginResourceAllowedDomain</i>	String	Specifies whether the request from the third-party integration site can be allowed. This variable has no default value.
<i>REST_AccessControlAllowCredentials</i>	Boolean	Specifies whether the response to a request can be exposed to the page. If the returned value is: <ul style="list-style-type: none"> True: the response to a request can be exposed. False: the response cannot be exposed.
<i>REST_ShowTopologyTypeLocalProperties</i>	Boolean	Specifies whether to show the property of Topology Object type in an instance. False is set by default.

Most of registry variables listed in [Table 1: Available registry variables](#) on page 6 can be overwritten by the following URL parameters per request.

Table 2. URL parameters

URL parameter name	Description
<i>maxObjectCount</i>	Specifies how many objects are invoked through a response. An object is one instance that contains multiple properties.
<i>maxDepth</i>	Specifies the expansion depth of the global object. This value starts from 0, and the default value is 1. Take the Host object as an example: <ul style="list-style-type: none"> If the max depth is 0, the Host name and Host unique ID are returned. If the max depth is 1, the first-level properties of the Host are returned.
<i>durationMS</i>	Specifies the time duration, including <i>startTimeMS</i> and <i>endTime</i> . If <i>startTimeMS</i> is not set, the <i>endTime</i> value is used as the current time, and the <i>startTime</i> value is calculated as <i>endTime</i> minus the specified duration. NOTE: This parameter does not impact the Topology — Observations query and Topology — TopologyObject query API.

Table 2. URL parameters

URL parameter name	Description
<i>startTimeMS</i>	Specifies the <i>startTime</i> . The <i>endTime</i> is the sum of <i>startTime</i> and <i>durationMS</i> . NOTE: This parameter does not impact the Topology — Observations query and Topology — TopologyObject query API.
<i>retrieveMetricValue</i>	Specifies whether to retrieve the metric current value of a Topology object in a response.
<i>retrieveObservationValue</i>	Specifies whether to retrieve the observation current value of a Topology object in a response.
<i>showLinks</i>	Specifies whether to show the link field through a response. False is set by default. The link field includes the following types: <ul style="list-style-type: none"> • Link pointing to the object type • Link pointing to the object
<i>excludePropertyPatterns</i>	Excludes the properties in a Topology object. Take <a href="http://<server>:<port>/api/v1/type/Host/instances?excludePropertyPatterns=.*Alarm.*,*State.*">http://<server>:<port>/api/v1/type/Host/instances?excludePropertyPatterns=.*Alarm.*,*State.* as an example, this URL address excludes the properties which name contains "Alarm" and "State".
<i>includePropertyPatterns</i>	Includes the properties in a Topology object. Take <a href="http://<server>:<port>/api/v1/type/Host/instances?includePropertyPatterns=.*Alarm.*,*State.*">http://<server>:<port>/api/v1/type/Host/instances?includePropertyPatterns=.*Alarm.*,*State.* as an example, this URL address includes the properties which name contains "Alarm" and "State". NOTE: If <i>excludePropertyPatterns</i> and <i>includePropertyPatterns</i> are set to the same value, the value set in <i>excludePropertyPatterns</i> is ignored.
<i>showTopologyTypeLocalProperties</i>	Specifies whether to show the property of the Topology type in an instance.

REST APIs

This section provides you with essential information about available Foglight REST APIs. For more information, see the following topics:

- [App](#)
- [Security](#)
- [Agent](#)
- [Alarm](#)
- [Cartridge](#)
- [Registry](#)
- [Remote client](#)
- [Rule](#)
- [Script](#)
- [Subscribe alarm](#)
- [Topology](#)
- [TopologyType](#)
- [User Information](#)

App

The App related API includes the following:

- [APP — Get App information](#)

APP — Get App information

- **API Name:** Get App information
- **Description:** Get the application information.
- **Request type:** GET
- **API path:** /api/v1/
- **Sample usage:** http://<server>:<port>/api/v1/
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Security

The Security related APIs include the following:

- [Security — Login](#)
- [Security — Logout](#)
- [Security — Set Auth Token for a given user](#)
- [Security — Delete Auth Token for a given user](#)
- [Security — Set Auth Token for current user](#)
- [Security — Delete Auth Token for current user](#)

Security — Login

- **API Name:** Login
- **Description:** Obtain an access token through user credentials (namely *username* and *pwd* in the [Parameter:](#) table) or a digital token (namely *authToken* in the [Parameter:](#) table).
 - **NOTE:** Retrieving an access token through the *authToken* parameter is only available in the Foglight Management Server 5.7.5.7 or later.
 - **NOTE:** The associated user account should be granted with the *API Access* role.
- **Request type:** POST
- **API path:** /api/v1/security/login
- **Sample usage:** http://<server>:<port>/api/v1/security/login

- **Header:**

Field	Type	Description
Accept	String	Specifies the response data format which can be either <i>application/json</i> or <i>application/xml</i> . The default value is <i>application/json</i> .

- **Parameter:**

Field	Type	Description
username	String	User account.
pwd	String	Password associated with the user account.
authToken	String	The token is generated from the <i>User Management</i> dashboard or Foglight command line.

NOTE: This parameter is only available in Foglight release 5.7.5.7 or later.

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Security — Logout

- **API Name:** Logout
- **Description:** Expire an access token.
- **Request type:** GET
- **API path:** /api/v1/security/logout
- **Sample usage:** http://<server>:<port>/api/v1/security/logout
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status
data	String	Either the response data format data (JSON/XML) or exception message
error	String	Error code if some exception occurs; otherwise this field is not shown.

Security — Set Auth Token for a given user

- **API Name:** Set Auth Token for a given user
- **Description:** Set the Auth Token, which is also referred to as digital token, for a specified user account. The current user who is logging in to REST service must have the Administrator permission to use this API.
i | **NOTE:** This API is only available in the Foglight Management Server 5.7.5.7 or later.

After setting a token for the specified user, the old token (if exists) is expired. This causes the login status of this user is also expired, if this user has logged in to REST service. This user should log in to the REST service again using the new Auth Token or credentials.

- **Request type:** GET
- **API path:** /api/v1/security/setAuthToken/username
- **Sample usage:** http://<server>:<port>/api/v1/security/setAuthToken/abcuser
- **Header:**

Field	Type	Description
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Parameter:**

Field	Type	Description
username	String	User account which Auth Token is to be set.

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Security — Delete Auth Token for a given user

- **API Name:** Delete Auth Token for a given user
- **Description:** Delete the Auth Token, which is also referred to as digital token, for a specified user account. The current user who is logging in to REST service must have the Administrator permission to use this API.

i | NOTE: This API is only available in the Foglight Management Server 5.7.5.7 or later.

After deleting a token for the specified user, the old token (if exists) is expired. This causes the login status of this user is also expired, if this user has logged in to REST service.

- **Request type:** GET
- **API path:** /api/v1/security/deleteAuthToken/username
- **Sample usage:** http://<server>:<port>/api/v1/security/deleteAuthToken/abcuser
- **Header:**

Field	Type	Description
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Parameter:**

Field	Type	Description
username	String	User account which Auth Token is to be deleted.

- **Returned value: —**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Security — Set Auth Token for current user

- **API Name:** Set Auth Token for the current user
- **Description:** Set the Auth Token, which is also referred to as digital token, for the current login user.

i | NOTE: This API is only available in the Foglight Management Server 5.7.5.7 or later.

After setting a token for the current user, the old token (if exists) is expired. This causes the login status of current user is also expired. The current user should log in to the REST service again using the new Auth Token or credentials.

- **Request type:** GET
- **API path:** /api/v1/security/setOwnAuthToken
- **Sample usage:** http://<server>:<port>/api/v1/security/setOwnAuthToken
- **Header:**

Field	Type	Description
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Security — Delete Auth Token for current user

- **API Name:** Delete Auth Token for the current user
- **Description:** Delete the Auth Token, which is also referred to as digital token, for the current login user.
 - **NOTE:** This API is only available in the Foglight Management Server 5.7.5.7 or later.

After deleting a token for the current user, the old token (if exists) is expired. This causes the login status of current user is also expired. The current user should log in to the REST service again using user credentials.

- **Request type:** GET
- **API path:** /api/v1/security/deleteOwnAuthToken
- **Sample usage:** http://<server>:<port>/api/v1/security/deleteOwnAuthToken
- **Header:**

Field	Type	Description
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Agent

The Agent related APIs include the following:

- [Agent — Get agent by agent ID](#)
- [Agent — Get all active agents](#)
- [Agent — Get all agents](#)
- [Agent — Get all inactive agents](#)

Agent — Get agent by agent ID

- **API Name:** Get agent by agent ID
- **Description:** Filter out agents by the agent ID.
- **Request type:** GET
- **API path:** /api/v1/agent/agentId/agentId
- **Sample usage:** http://<server>:<port>/api/v1/agentId/1
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Agent — Get all active agents

- **API Name:** Get all active agents
- **Description:** Filter out all active agents.
- **Request type:** GET
- **API path:** /api/v1/agent/active
- **Sample usage:** http://<server>:<port>/api/v1/agent/active
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Agent — Get all agents

- **API Name:** Get all agents
- **Description:** Get all agents.
- **Request type:** GET
- **API path:** /api/v1/agent/allAgents
- **Sample usage:** http://<server>:<port>/api/v1/agent/allAgents
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Agent — Get all inactive agents

- **API Name:** Get all inactive agents
- **Description:** Filter out all inactive agents.
- **Request type:** GET
- **API path:** /api/v1/agent/inactive
- **Sample usage:** http://<server>:<port>/api/v1/agent/inactive
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm

The Alarm related APIs include the following:

- [Alarm — Acknowledge alarm by alarm ID](#)

- [Alarm](#) — Clear alarm by alarm ID
- [Alarm](#) — Get alarm by alarm ID
- [Alarm](#) — Get alarm by rule ID
- [Alarm](#) — Get current alarms
- [Alarm](#) — Get history alarms
- [Alarm](#) — Get topology object current alarms
- [Alarm](#) — Get topology object history alarms

Alarm — Acknowledge alarm by alarm ID

- **API Name:** Acknowledge alarm by alarm ID
- **Description:** Acknowledge an alarm by its ID.
- **Request type:** GET
- **API path:** /api/v1/alarm/ack/alarmlId
- **Sample usage:** http://<server>:<port>/api/v1/alarm/ack/1f478dec-f920-4da9-a8d2-b9ba0dcd4394
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm — Clear alarm by alarm ID

- **API Name:** Clear alarm by alarm ID
- **Description:** Clear an alarm by its ID.
- **Request type:** GET
- **API path:** /api/v1/alarm/clear/alarmlId
- **Sample usage:** http://<server>:<port>/api/v1/alarm/clear/1f478dec-f920-4da9-a8d2-b9ba0dcd4394
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm — Get alarm by alarm ID

- **API Name:** Get alarm by alarm ID
- **Description:** Filter out alarms by alarm ID.
- **Request type:** GET
- **API path:** /api/v1/alarm/alarmId
- **Sample usage:** http://<server>:<port>/api/v1/alarm/1f478dec-f920-4da9-a8d2-b9ba0dcd4394
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm — Get alarm by rule ID

- **API Name:** Get alarm by rule ID.
- **Description:** Filter out alarms by a rule ID. Time range is the default value set in the Management Server, and you can customize the time range using the `startTimeMS` and `durationMS` parameter.
- **Request type:** GET
- **API path:** /api/v1/alarm/ruleId/ruleId
- **Sample usage:** http://<server>:<port>/api/v1/alarm/ruleId/se478dec-f920-4de9-a8d2-b9ba0dcasd94
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.

Field	Type	Description
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm — Get current alarms

- **API Name:** Get current alarms
- **Description:** Filter out current alarms.
- **Request type:** GET
- **API path:** /api/v1/alarm/current
- **Sample usage:** http://<server>:<port>/api/v1/alarm/current
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm — Get history alarms

- **API Name:** Get history alarms
- **Description:** Filter out all history alarms.
- **Request type:** GET
- **API path:** /api/v1/alarm/history
- **Sample usage:** http://<server>:<port>/api/v1/alarm/history
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm — Get topology object current alarms

- **API Name:** Get topology object current alarms
- **Description:** Filter out current alarms by the ID of a topology object.
- **Request type:** GET
- **API path:** /api/v1/alarm/current/topologyId
- **Sample usage:** http://<server>:<port>/api/v1/alarm/current/se478dec-f920-4de9-a8d2-b9ba0dcasd94
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Alarm — Get topology object history alarms

- **API Name:** Get topology object history alarms
- **Description:** Filter out history alarms by the ID of a topology object.
- **Request type:** GET
- **API path:** /api/v1/alarm/history/topologyId
- **Sample usage:** http://<server>:<port>/api/v1/alarm/history/se478dec-f920-4de9-a8d2-b9ba0dcasd94
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Cartridge

The Cartridge related APIs include the following:

- [Cartridge — Get all cartridges' data](#)

- [Cartridge](#) — Get all core cartridges' data
- [Cartridge](#) — Get all non-core cartridges' data

Cartridge — Get all cartridges' data

- **API Name:** Get all cartridge's data
- **Description:** Get data of all cartridges.
- **Request type:** GET
- **API path:** /api/v1/cartridge/allCartridges
- **Sample usage:** http://<server>:<port>/api/v1/cartridge/allCartridges
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Cartridge — Get all core cartridges' data

- **API Name:** Get all core cartridge's data
- **Description:** Get data of all the core cartridges.
- **Request type:** GET
- **API path:** /api/v1/cartridge/allCartridges/core
- **Sample usage:** http://<server>:<port>/api/v1/cartridge/allCartridges/core
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Cartridge — Get all non-core cartridges' data

- **API Name:** Get all non-core cartridge's data
- **Description:** Get data of all the non-core cartridges.
- **Request type:** GET
- **API path:** /api/v1/cartridge/allCartridges/nonCore
- **Sample usage:** http://<server>:<port>/api/v1/cartridge/allCartridges/nonCore
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Registry

The Registry related API includes the following:

- [Registry — Get all registries' data](#)

Registry — Get all registries' data

- **API Name:** Get all registries' data
- **Description:** Get data of all registries.
- **Request type:** GET
- **API path:** /api/v1/registry/allRegistries
- **Sample usage:** http://<server>:<port>/api/v1/registry/allRegistries
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Remote client

The Remote related API includes the following:

- [Remote client — Get all remote clients' data](#)

Remote client — Get all remote clients' data

- **API Name:** Get all remote clients' data
- **Description:** Get data of all the remote clients.
- **Request type:** GET
- **API path:** /api/v1/remoteClient/allRemoteClients
- **Sample usage:** http://<server>:<port>/api/v1/remoteClient/allRemoteClients
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Rule

The Rule related APIs include the following:

- [Rule — Get all rules' data](#)
- [Rule — Get rule by id](#)

Rule — Get all rules' data

- **API Name:** Get all rules' data
- **Description:** Get data of all rules.
- **Request type:** GET
- **API path:** /api/v1/rule/allRules
- **Sample usage:** http://<server>:<port>/api/v1/rule/allRules

- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Rule — Get rule by id

- **API Name:** Get rule by ID
- **Description:** Filter out rules by a rule ID.
- **Request type:** GET
- **API path:** `/api/v1/rule/ruleId`
- **Sample usage:** `http://<server>:<port>/api/v1/rule/ruleId`

- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown

Script

The Script related API includes the following:

- [Script — Run Script](#)

Script — Run Script

- **API Name:** Run Script

- **Description:** You need be granted both the *Administrator* and *API Access* roles to use this API. This API is similar to the script console, but it does not support *functionHelper*, *log*, and *out* variables that are supported in the script console.

Name	Description
script	The script content.
cartridgeName	Specifies the name of associated cartridge, and the name is case-sensitive.
scopeObjectId	Specifies the scope object. This item must be set if the <i>scope</i> variable is being used in scripts.

- **Request type:** POST
- **API path:** /api/v1/script/runScript
- **Sample usage:**

Generate a post request using the following URL:
 http://<server>:<port>/api/v1/script/runScript

The basic format of request body can be set as below:

JSON:
 {"script":"System.err.println('Hello World!')"}

XML:
 <ScriptBean>
 <script>
 System.err.println("Hello World!");
 </script>
 </ScriptBean>

The complete format is as below:

JSON:
 {"script":"#utilization#", "scopeObjectId":"3ebb2158-e5e9-4403-be3c-46fd8020efeb", "cartridgeName":"Infrastructure"}

XML:
 <ScriptBean>
 <script>
 #utilization#
 </script>
 <cartridgeName>
 Infrastructure
 </cartridgeName>
 <scopeObjectId>
 3ebb2158-e5e9-4403-be3c-46fd8020efeb
 </scopeObjectId>
 </ScriptBean>

- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <i>application/json</i> or <i>application/xml</i> . The default value is <i>application/json</i>

- **Parameter:**

Field	Type	Description
Content-Type	String	<ul style="list-style-type: none"> • Data format = JSON, this value is "application/json". • Data format = XML, this value is "application/xml".

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Subscribe alarm

The Subscribe related APIs include the following:

- [Subscribe alarm — Disconnect SSE](#)
- [Subscribe alarm — List SSE](#)
- [Subscribe alarm — Subscribe alarms by object ID](#)
- [Subscribe alarm — Subscribe all alarms](#)

Subscribe alarm — Disconnect SSE

- **API Name:** Disconnect SSE
- **Description:** Disconnect all the active Server-Sent Events (SSE) subscriptions.
- **Request type:** GET
- **API path:** /api/v1/subscription/disconnect/all/
- **Sample usage:** http://<server>:<port>/api/v1/subscription/disconnect/all/
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Subscribe alarm — List SSE

- **API Name:** List SSE
- **Description:** Filter out all the active SSE subscriptions.

- **Request type:** GET
- **API path:** /api/v1/subscription/list/
- **Sample usage:** http://<server>:<port>/api/v1/subscription/list
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Subscribe alarm — Subscribe alarms by object ID

- **API Name:** Subscribe alarms by object ID
- **Description:** Watch the topology object by its topologyId, and subscribe to alarm-generated events through SSE. When the client is disconnected, there is no retry mechanism to send an event to the client. For more information, visit [Server-Sent Events \(SSE\) Support](#) and [Server-Sent Events](#).

i **NOTE:** If the version of your Foglight Management Server is lower than 5.7.5.7, open the `server.xml` file under `<fms_home>/server/tomcat/`, then add `asyncSupported="true"` to all value items (for example, `<Valve className="com.quest.nitro.web.tomcat.HttpsRedirectValve" asyncSupported="true"/>`).

- **Request type:** GET
- **API path:** /api/v1/subscription/alarm/subscribe/topologyId
- **Sample usage:**

```
<script>
  if(typeof(EventSource) !== "undefined") {
    var source = new
EventSource("http://<server>:<port>/api/v1/subscription/alarm/subscribe/67beea68-
fa6f-4cd3-b122-dcb20db50360?Accept=application/json&Auth-
Token=sanpqvi54h9a59n03u6illuahj", {withCredentials: true});
    source.onmessage = function(event) {
      document.getElementById("result").innerHTML += event.data + "<br>";
    };
  } else {
    document.getElementById("result").innerHTML = "Sorry, your browser does not
support server-sent events...";
  }
</script>
```

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Subscribe alarm — Subscribe all alarms

- **API Name:** Subscribe to all alarms
- **Description:** Subscribe to alarm-generated events through SSE. When the client is disconnected, there is no retry mechanism to send an event to the client. For more information, visit [Server-Sent Events \(SSE\) Support](#) and [Server-Sent Events](#).

i **NOTE:** If the version of your Foglight Management Server is lower than 5.7.5.7, open the *server.xml* file under `<fms_home>/server/tomcat/`, then add `asyncSupported="true"` to all value items (for example, `<Valve className="com.quest.nitro.web.tomcat.HttpsRedirectValve" asyncSupported="true"/>`).

- **Request type:** GET
- **API path:** `/api/v1/subscription/alarm/subscribe`
- **Sample usage:**

```
<script>
  if(typeof(EventSource) !== "undefined") {
    var source = new
EventSource("http://<server>:<port>/api/v1/subscription/alarm/subscribe?Accept=appl
ication/json&Auth-Token=5vr9jmptoskrpheaj2e31vvna6", {withCredentials: true});
    source.onmessage = function(event) {
      document.getElementById("result").innerHTML += event.data + "<br>";
    };
  } else {
    document.getElementById("result").innerHTML = "Sorry, your browser does not
support server-sent events...";
  }
</script>
```

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Topology

The Topology related APIs include the following:

- [Topology — Get properties' value](#)
- [Topology — Get property value](#)
- [Topology — Get topology object by id](#)
- [Topology — Get topology object by ids](#)

- [Topology — Observations query](#)
- [Topology — TopologyObject query](#)

Topology — Get properties' value

- **API Name:** Get properties' value
- **Description:** Get data of all rules.
- **Request type:** GET
- **API path:** /api/v1/topology/topologyId/paths
- **Sample usage:** http://<server>:<port>/api/v1/topology/3546fa55-11b6-4943-b7cb-84ddcf350bc5/paths?path=name&path=uniqueId&path=utilization
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Parameter:**

Field	Type	Description
path	String	The property path. This may include multiple paths.

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Topology — Get property value

- **API Name:** Get property value
- **Description:** Get property values by the path defined based on the given topology ID. The result may be *DataObject*, *Primitive Object*, *Observation*, or else.
- **Request type:** GET
- **API path:** /api/v1/topology/topologyId/path
- **Sample usage:** http://<server>:<port>/api/v1/topology/abc94b3d-f599-4766-a979-f32d372ff47d/cpus/utilization
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Topology — Get topology object by id

- **API Name:** Get topology object by IDs
- **Description:** Filter out topology objects by an object ID.
- **Request type:** GET
- **API path:** /api/v1/topology/topologyObjectId
- **Sample usage:** http://<server>:<port>/api/v1/topology/1f478dec-f920-4da9-a8d2-b9ba0dcd4394
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Topology — Get topology object by ids

- **API Name:** Get topology object by ids
- **Description:** Filter out topology objects by multiple IDs.
- **Request type:** GET
- **API path:** /api/v1/topology/topologyIds
- **Sample usage:** http://<server>:<port>/api/v1/topology/topologyIds?id=3546fa55-11b6-4943-b7cb-84ddcf350bc5&id=67beea68-fa6f-4cd3-b122-dcb20db50360
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Parameter:**

Field	Type	Description
Id	String	The topology object ID. This may include multiple IDs.

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Topology — Observations query

- **API Name:** Observations query
- **Description:** Filter out observations value by a batch query. The following lists the *retrievalType*:

Name	Description
RAW	Retrieve the raw data of an observation based on the time range.
AGGREGATE	Retrieve the aggregate data of an observation based on the time range.
AGGREGATE_AND_LAST	Retrieve the aggregate and last data of an observation based on the time range.
LAST_N	Retrieve the last N data of the observation based on the time range. If <i>retrievalType</i> is set to <i>LAST_N</i> , you need configure the value of <i>numberOfValue</i> that defines the letter N of <i>LAST_N</i> .

- **Request type:** POST
- **API path:** /api/v1/topology/batchQuery
- **Sample usage:**

Generate a post request using the following url:
 "http://<server>:<port>/api/v1/topology/batchQuery"

The basic format of request body can be set as below:
 {"includes":[{"ids":["ca83d1a2-f04b-483d-b224-055967777e72"],"observationName":"utilization"}],"endTime":1477987660722}

The following is the complete format of request body:
 JSON:

```
{
  "includes":[{"ids":["ca83d1a2-f04b-483d-b224-055967777e72"],"observationName":"utilization"}, {"ids":["f58f36ef-88ef-4264-9b8a-91df79fd37e9"],"observationName":"utilization"}, {"ids":["f3df86e1-0718-4ccf-ae05-c25414b53db9","7910afd1-0247-4309-bae4-05f9419ab719","4ed2b409-cf18-4c14-a6ab-fdc19cff006e"],
  "observationName":"percentMemory"}],
  "startTime":1477984060722,
  "endTime":1477987660722,
  "granularity":3600000,
  "numberOfValue":1,
  "retrievalType":"AGGREGATE_AND_LAST"
}
```

XML:
 <observationQueryParamBean>
 <endTime>1477988816209</endTime>
 <granularity>3600000</granularity>
 <includes>
 <ids>ca83d1a2-f04b-483d-b224-055967777e72</ids>
 <observationName>utilization</observationName>

```

</includes>
<includes>
  <ids>f58f36ef-88ef-4264-9b8a-91df79fd37e9</ids>
  <observationName>utilization</observationName>
</includes>
<includes>
  <ids>f3df86e1-0718-4ccf-ae05-c25414b53db9</ids>
  <ids>7910afd1-0247-4309-bae4-05f9419ab719</ids>
  <ids>4ed2b409-cf18-4c14-a6ab-fdc19cff006e</ids>
  <observationName>percentMemory</observationName>
</includes>
<numberOfValue>1</numberOfValue>
<retrievalType>AGGREGATE_AND_LAST</retrievalType>
<startTime>1477985216208</startTime>
</observationQueryParamBean>

```

- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Parameter:**

Field	Type	Description
Content-Type	String	<ul style="list-style-type: none"> • Data format = JSON, this value is "application/json". • Data format = XML, this value is "application/xml".

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

Topology — TopologyObject query

- **API Name:** TopologyObject query
- **Description:** Filter out topology objects by a batch query.
- **Request type:** POST
- **API path:** `/api/v1/topology/query`
- **Sample usage:**

Generate a post request using the following url:
`http://<server>:<port>/api/v1/topology/query`

The basic format of request body can be set as below:
`{"queryText":"!Host"}`

The following is the complete format of request body:
 JSON:

```

{
  "queryText":"!Host",
  "caseSensitive":true,
  "freshnessFactor":3600000.0,

```

```

"params": [{"name": "name", "value": "dsglt19j92.prod.quest.corp"}, {"name": "domainName",
, "value": "prod.quest.corp"}],
  "queryTopologyObjects": true,
  "requiresCoherentResults": true,
  "scopingTopologyObjectId": "4f888425-a734-4bee-a5a7-4e24cd3c83cd",
  "transactionTimestampMillis": 3600000,
  "validateTypes": false,
  "timeRangeStartTime": 1477984060722,
  "timeRangeEndTime": 1477987094482,
  "timeRangeGranularity": 3600000,
  "timeRangeMaxPoints": 500
}

```

XML:

```

<queryParamBean>
  <caseSensitive>true</caseSensitive>
  <freshnessFactor>3600000.0</freshnessFactor>
  <params>
    <name>name</name>
    <value>dsglt19j92.prod.quest.corp</value>
  </params>
  <params>
    <name>domainName</name>
    <value>prod.quest.corp</value>
  </params>
  <queryText>!Host</queryText>
  <queryTopologyObjects>true</queryTopologyObjects>
  <requiresCoherentResults>true</requiresCoherentResults>
  <scopingTopologyObjectId>4f888425-a734-4bee-a5a7-
4e24cd3c83cd</scopingTopologyObjectId>
  <transactionTimestampMillis>3600000</transactionTimestampMillis>
  <validateTypes>false</validateTypes>
  <timeRangeStartTime>1477984060722</timeRangeStartTime>
  <timeRangeEndTime>1477987094482</timeRangeEndTime>
  <timeRangeGranularity>3600000</timeRangeGranularity>
  <timeRangeMaxPoints>500</timeRangeMaxPoints>
</queryParamBean>

```

- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Parameter:**

Field	Type	Description
Content-Type	String	<ul style="list-style-type: none"> • Data format = JSON, this value is <code>"application/json"</code>. • Data format = XML, this value is <code>"application/xml"</code>.

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

TopologyType

The TopologyType related APIs include the following:

- [TopologyType — Get type information](#)
- [TopologyType — Get type super type's information](#)
- [TopologyType — Get all instances of a type](#)

TopologyType — Get type information

- **API Name:** Get type information
- **Description:** Get the information of an type.
- **Request type:** GET
- **API path:** /api/v1/type/typeName
- **Sample usage:** http://<server>:<port>/api/v1/type/Host
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

TopologyType — Get type super type's information

- **API Name:** Get type super type's information
- **Description:** Get the information of a type's parent type.
- **Request type:** GET
- **API path:** /api/v1/type/typeName/super
- **Sample usage:** http://<server>:<port>/api/v1/type/Host/super
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

TopologyType — Get all instances of a type

- **API Name:** Get all instances of a type
- **Description:** Get all instances of a type.
- **Request type:** GET
- **API path:** /api/v1/type/typeName/instances
- **Sample usage:** http://<server>:<port>/api/v1/type/Host/instances
- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

User Information

The User Information related API includes the following:

- [User Information — Get current user information](#)

User Information — Get current user information

- **API Name:** Get current user information
- **Description:** Get the information of the current user.
- **Request type:** GET
- **API path:** /api/v1/user/current
- **Sample usage:** http://<server>:<port>/api/v1/user/current

- **Header:**

Field	Type	Description
Auth-Token	String	The token is retrieved after successfully logging in to the Management Server.
Accept	String	Specifies the response data format which can be either <code>application/json</code> or <code>application/xml</code> . The default value is <code>application/json</code> .

- **Returned value:**

Field	Type	Description
status	String	The response status.
data	String	Either the response data format (JSON/XML) or exception message.
error	String	Error code if some exception occurs; otherwise this field is not shown.

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Contacting Quest

For sales or other inquiries, visit <https://www.quest.com/company/contact-us.aspx> or call +1-949-754-8000.

Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request.
- View Knowledge Base articles.
- Sign up for product notifications.
- Download software and technical documentation.
- View how-to-videos.
- Engage in community discussions.
- Chat with support engineers online.
- View services to assist you with your product.