



# Continuous Monitoring API

User Guide

Version 3.2

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# Get Started

## Continuous Monitoring API

Download information from the Continuous Monitoring module when this is module enabled in your Qualys account. Get information about alerts, profiles, rules and rulesets.

Modules supported

CM

Authentication

Authentication to your Qualys account with valid Qualys credentials is required for making Qualys API requests to the Qualys API servers. [Learn more about authentication to your Qualys account](#)

Get API Notifications

We recommend you join our Community and subscribe to our API Notifications RSS Feeds for announcements and discussions.

<https://community.qualys.com/community/developer/notifications-api>

About Qualys

Qualys, Inc. (NASDAQ: QLYS) is a pioneer and leading provider of cloud-based security and compliance solutions. The Qualys Cloud Platform and its integrated Cloud Apps deliver businesses critical security intelligence continuously, enabling them to automate the full spectrum of auditing, compliance and protection for IT systems and web applications on premises, on endpoints and elastic clouds. For more information, please visit [www.qualys.com](http://www.qualys.com)

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## Qualys user account

The application must authenticate using Qualys account credentials (user name and password) as part of the HTTP request. The credentials are transmitted using the “Basic Authentication Scheme” over HTTPS.

For more information, see the “Basic Authentication Scheme” section of RFC #2617:

<http://www.faqs.org/rfcs/rfc2617.html>

The exact method of implementing authentication will vary according to which programming language is used.

Basic authentication - recommended option:

```
curl -u "USERNAME:PASSWORD"  
https://qualysapi.qualys.com/qps/rest/1.0/download/cm/alert
```

where qualysapi.qualys.com is the base URL to the Qualys API server where your account is located.

## URL to Qualys API server

The Qualys API URL you should use for API requests depends on the Qualys platform where your account is located.

[Click here to identify your Qualys platform and get the API URL](#)

This documentation uses the API server URL for Qualys US Platform 1 (<https://qualysapi.qualys.com>) in sample API requests. If you're on another platform, please replace this URL with the appropriate server URL for your account.

## Making API calls

### Curl samples in our API doc

We use curl in our API documentation to show an example how to form REST API calls, and it is not meant to be an actual production example of implementation.

### GET and POST Methods

Qualys API functions allow API users to submit parameters (name=value pairs) using the GET and/or POST method. There are known limits for the amount of data that can be sent using the GET method, and these limits are dependent on the toolkit used. Please refer to the individual descriptions of the API function calls to learn about the supported methods for each function.

### Parameters in URLs

API parameters, as documented in this online help, should be specified one time for each URL. In the case where the same parameter is specified multiple times in a single URL, the last parameter takes effect and the previous instances are silently ignored. URL elements are case-sensitive.

### Date format in API Results

The Qualys API has adopted a date/time format to provide consistency and interoperability of the Qualys API with third-party applications. The date format follows standards published in RFC 3339 and ISO 8601, and applies throughout the Qualys API. The date format is: yyyy-mm-dd[Thh-mm-ssZ]. This represents a UTC value (GMT time zone).

### URL encoding in API Code

You must URL encode variables when using the Qualys API. This is standard practice for HTTP communications. If your application passes special characters, like the single quote ('), parentheses, and symbols, they must be URL encoded. For example, the pound (#) character cannot be used as an input parameter in URLs. If “#” is specified, the Qualys API returns an error. To

specify the “#” character in a URL you must enter the encoded value “%23”. The “#” character is considered by browsers and other Internet tools as a separator between the URL and the results page, so whatever follows an un-encoded “#” character is not passed to the Qualys API server and returns an error.

## **Making requests with URL payload**

While it is still possible to create simple API requests using the GET method, you can create API requests using the POST method with an XML payload to make an advanced request.

The XML payloads can be compared to a scripting language that allows user to make multiple actions within one single API request, like adding a parameter to an object and updating another parameter.

The XML structure of the payload is described in the XSD files.



## Know your portal version

/qps/rest/portal/version/

[GET] [POST]

Using the Version API you can find out the installed version of Portal and its sub-modules that are available in your subscription.

Sample XML

### API request

```
curl -u "USERNAME:PASSWORD" -X "GET" -H "Accept: application/xml"
https://qualysapi.qualys.com/qps/rest/portal/version
```

### Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/ve
rsion.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Portal-Version>
      <PortalApplication-VERSION>3.1.2.0-2 OFFICIAL #597 (2020-
09-15T15:54:59Z)</PortalApplication-VERSION>
      <ITAM-VERSION>1.2.0.0-1</ITAM-VERSION>
      <CS-VERSION>1.6.8.0-36</CS-VERSION>
      <CA-VERSION>2.23.0.0</CA-VERSION>
      <QGS-VERSION>1.2.0.0-6</QGS-VERSION>
      <QUESTIONNAIRE-VERSION>2.23.1.0</QUESTIONNAIRE-VERSION>
      <WAF-VERSION>2.12.4.0</WAF-VERSION>
      <QUESTIONNAIRE__V2-VERSION>1.10.1.0</QUESTIONNAIRE__V2-
VERSION>
      <WAS-VERSION>6.13.1.0</WAS-VERSION>
      <FIM-VERSION>2.3.1.1</FIM-VERSION>
      <VM-VERSION>1.0.3</VM-VERSION>
      <CERTVIEW-VERSION>2.6.0.2-7</CERTVIEW-VERSION>
```

```

    <CLOUDVIEW-VERSION>1.10.0.0-3</CLOUDVIEW-VERSION>
    <CM-VERSION>1.30.0.0</CM-VERSION>
    <MDS-VERSION>2.15.7.0</MDS-VERSION>
    <PM-VERSION>1.4.2.3-3</PM-VERSION>
    <PS-VERSION>1.2.0.0-RELEASE</PS-VERSION>
    <THREAT__PROTECT-VERSION>1.2.0.0</THREAT__PROTECT-VERSION>
    <UD-VERSION>0.0.6</UD-VERSION>
  </Portal-Version>
  <QWeb-Version>
    <WEB-VERSION>10.3.0.2-2</WEB-VERSION>
    <SCANNER-VERSION>12.1.67-1</SCANNER-VERSION>
    <VULNSIGS-VERSION>2.4.990-2</VULNSIGS-VERSION>
  </QWeb-Version>
</data>
</ServiceResponse>

```

Sample JSON

### API request

```

curl -u "USERNAME:PASSWORD" -X "GET" -H "Accept: application/json"
https://qualysapi.qualys.com/qps/rest/portal/version

```

### Response

```

{
  "ServiceResponse": {
    "responseCode": "SUCCESS",
    "data": [
      {
        "Portal-Version": {
          "PortalApplication-VERSION": "3.1.2.0-2 OFFICIAL
#597 (2020-09-15T15:54:59Z)",
          "ITAM-VERSION": "1.2.0.0-1",
          "CS-VERSION": "1.6.8.0-36",
          "CA-VERSION": "2.23.0.0",
          "QGS-VERSION": "1.2.0.0-6",
          "QUESTIONNAIRE-VERSION": "2.23.1.0",
          "WAF-VERSION": "2.12.4.0",
          "QUESTIONNAIRE_V2-VERSION": "1.10.1.0",
          "WAS-VERSION": "6.13.1.0",
          "FIM-VERSION": "2.3.1.1",
          "VM-VERSION": "1.0.3",
          "CERTVIEW-VERSION": "2.6.0.2-7",

```

```
    "CLOUDVIEW-VERSION": "1.10.0.0-3",
    "CM-VERSION": "1.30.0.0",
    "MDS-VERSION": "2.15.7.0",
    "PM-VERSION": "1.4.2.3-3",
    "PS-VERSION": "1.2.0.0-RELEASE",
    "THREAT_PROTECT-VERSION": "1.2.0.0",
    "UD-VERSION": "0.0.6"
  },
  "QWeb-Version": {
    "WEB-VERSION": "10.3.0.2-2",
    "SCANNER-VERSION": "12.1.67-1",
    "VULNSIGS-VERSION": "2.4.990-2"
  }
},
"count": 1
}
```

## Output pagination and truncation

The XML output of a search API request is paginated and the default page size is 100 object records. The page size can be customized to a value between 1 and 1,000. If the number of records is greater than the page size then the `<ServiceResponse>` element shows the response code SUCCESS with the element `<hasMoreRecords>>true</hasMoreRecords>` as shown below.

Follow the simple process below to obtain the first two the XML pages for an API request. Please apply the same logic to get all the next (n+1) pages until all records are returned. This is indicated when `<hasMoreRecords>>false</hasMoreRecords>`.

### Step 1 - Search alerts and get first batch of results

Search for alerts for the IP address 10.10.30.70. The service request in the POST data file "file.xml" defines this search criteria.

#### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/1.0/search/cm/alert" < file.xml
Note: "file.xml" contains the request POST data.
```

#### Request POST data

```
<ServiceRequest>
  <preferences>
    <limitResults>5</limitResults>
  </preferences>
  <filters>
    <Criteria field="ipAddress"
operator="EQUALS">10.10.30.70</Criteria>
  </filters>
</ServiceRequest>
```

#### Response

```
<ServiceResponse ...>
```

```
<responseCode>SUCCESS</responseCode>
<COUNT>5</COUNT>
<hasMoreRecords>true</hasMoreRecords>
<lastId>123</lastId>
<data>
  <!--here you will find 5 alert records-->
</data>
</ServiceResponse>
```

## Step 2 - Search alerts and get next batch of results

To get the next page of results, you need to edit your service request in “file.xml” that will be passed to API request as a POST payload. According to the <lastId> element returned in the first page, you want the next page of results to start with the object ID 124 or greater.

### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/1.0/search/cm/alert" < file.xml
Note: “file.xml” contains the request POST data.
```

In request POST data you’ll notice the operator field value is set to 123, which is the value returned in <lastId> of the previous page output. The GREATER operator is a logical “greater than” (it does not mean greater than or equal to).

### Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="ipAddress"
operator="EQUALS">10.10.30.70</Criteria>
    <Criteria field="id" operator="GREATER">123</Criteria>
  </filters>
</ServiceRequest>
```

## Set custom page size

The service request needs to contain the <preferences> section with the <limitResults> parameter. For the <limitResults> parameter you can enter a value from 1 to 1,000.

## Response

```
<ServiceRequest>
  <filters>
    <Criteria> ... </Criteria>
  </filters>
  <preferences>
    <limitResults>200</limitResults>
  </preferences>
</ServiceRequest>
```

## Available operators

Operators supported by input parameters:

Integer - EQUALS, NOT EQUALS, GREATER, LESSER, IN

Text - CONTAINS, EQUALS, NOT EQUALS

Date - EQUALS, NOT EQUALS, GREATER, LESSER

Keyword - EQUALS, NOT EQUALS, IN

Boolean (true/false) - EQUALS, NOT EQUALS

## JSON support

Qualys Continuous Monitoring API supports JSON requests and responses.

Headers used in samples:

Send JSON request - "Content-Type: application/json"

Get response in JSON - "Accept: application/json"

### Sample 1 - Get profile

#### API request

```
curl -s -k -H "Accept: application/json" -n -u "acme_ss2:passwd"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/cm/profile/95001"
```

#### XML output

```
{  
  "ServiceResponse" : {  
    "data" : [ {  
      "Profile" : {  
        "title" : "NEW-Profile-12144557",  
        "dateCreated" : "2018-09-12T22:46:10Z",  
        "ruleset" : {  
          "dateUpdated" : "2018-09-12T22:45:35Z",  
          "isTemplate" : "false",  
          "title" : "NEW-CM-RULE-003-12144533",  
          "description" : "Smoke test",  
          "id" : 188202,  
          "dateCreated" : "2018-09-12T22:45:35Z"  
        },  
        "targetList" : "10.10.26.252",  
        "dateUpdated" : "2018-09-12T22:46:10Z",  
        "id" : 95001,  
        "uuid" : "08ed679e-9a6f-4ead-8290-185d51a188a2",  
        "frequency" : "FREQ_NEVER",  
        "isActive" : "true",  
        "includedIps" : "10.10.26.252"  
      }  
    ]  
  }  
}
```



```

    } ],
    "count" : 1,
    "responseCode" : "SUCCESS"
  }
}

```

## Sample 2 - Search for rule

### API request

```

cat searchRule.json | curl -s -k -X POST -H "Accept: application/json"
-H "Content-Type: application/json" -H "user: acme_ss2" -H "password:
passwd" -d @-
"https://qualysapi.qualys.com/qps/rest/1.0/search/cm/rule"

```

### Request POST data

```

{
  "ServiceRequest": {
    "filters": {
      "Criteria": [{
        "field": "id",
        "operator": "EQUALS",
        "value": "179201"
      },{
        "field": "ruleType",
        "operator": "EQUALS",
        "value": "HOST"
      }]
    }
  }
}

```

### XML output

```

{
  "ServiceResponse" : {
    "data" : [ {
      "Rule" : {
        "id" : 179201,
        "ruleType" : "HOST",
        "dateCreated" : "2018-09-20T20:15:29Z",
        "jsonData" :
"{\"ruleType\": \"HOST\", \"eventTypes\": [\"HOST_FOUND\"], \"criteria\": [

```

```
] , \ " uiState \ " : { \ " eventType . HOST_FOUND \ " : \ " on \ " , \ " operatingSystemType \ " : \ " \ " , \ " operatingSystemValue \ " : \ " \ " , \ " hostnameType \ " : \ " \ " , \ " hostnameValue \ " : \ " \ " , \ " netbiosNameType \ " : \ " \ " , \ " netbiosNameValue \ " : \ " \ " } } ,  
    \ " eventTypes " : \ " HOST_FOUND " ,  
    \ " criteria " : {  
      \ " list " : [ ]  
    }  
  }  
} ] ,  
  \ " count " : 1 ,  
  \ " hasMoreRecords " : \ " false " ,  
  \ " responseCode " : \ " SUCCESS " ,  
} ]  
}
```

# Alerts

## Search alerts

/qps/rest/1.0/search/cm/alert/

[POST]

Returns a list of alerts in the user's account.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each alert. [Learn more about limiting your results](#)

## Input Parameters

Allowed input elements are listed below. The associated data type for each element appears in parentheses. These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

[Click here for available operators](#)

Parameter	Description
id (integer)	The alert ID. This element is assigned by the service.
eventType (keyword)	The type of event that triggered the alert:  HOST_FOUND, HOST_UPDATED, HOST_PURGED, PORT_OPEN, PORT_CHANGED, PORT_CLOSED, SOFTWARE_ADDED, SOFTWARE_REMOVED, SSL_NEW, SSL_EXPIRED, SSL_EXPIRY, TICKET_OPEN, TICKET_RESOLVED, TICKET_CLOSED, VULN_OPEN, VULN_CLOSED, VULN_REOPENED, VULN_ACTIVE, VULN_PREDICTION_ADDED, VULN_PREDICTION_CHANGED, VULN_PREDICTION_CLOSED

ipAddress (text)	The impacted host's IP address.
hostname (text)	The impacted host's hostname.
isHidden (boolean)	Indicates whether the alert has been hidden from view. Possible values: true or false
eventDate (date)	The date of the event that triggered the alert in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).
alertDate (date)	The date of the alert in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).
profileTitle (text)	The name of the monitoring profile that resulted in the alert.

## Sample - Search alerts

### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/1.0/search/cm/alert/" <file.xml
```

### Request POST data

```
<ServiceRequest>  
  <filters>  
    <Criteria field="ipAddress"  
operator="EQUALS">10.10.30.70</Criteria>  
  </filters>  
</ServiceRequest>
```

### Response

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/  
xsd/1.0/cm/alert.xsd">  
  <responseCode>SUCCESS</responseCode>
```

```
<count>1</count>
<hasMoreRecords>>false</hasMoreRecords>
<data>
  <Alert>
    <id>244402</id>
    <source>REMIEDIATION</source>
    <eventType>SSL_NEW</eventType>
    <triggerUuid>3d41baf9-7caa-4269-9889-d7377aeaace5</triggerUuid>
    <ipAddress>10.10.30.70</ipAddress>
    <hostname>2k3-sp2-25-69.qualys.com</hostname>
    <eventDate>2018-06-04T10:57:43Z</eventDate>
    <alertDate>2018-06-04T10:57:48Z</alertDate>
    <isHidden>>true</isHidden>
    <profile>
      <id>7401</id>
      <title>All Critical</title>
      <dateCreated>2018-09-16T19:54:48Z</dateCreated>
      <dateUpdated>2018-09-16T19:54:48Z</dateUpdated>
      <frequency>FREQ_NEVER</frequency>
      <isActive>>true</isActive>
      <includedIps>10.10.10.1-10.10.31.255</includedIps>
      <targetList>10.10.10.1-10.10.31.255</targetList>
    </profile>
    <alertInfo>
      <port>0</port>
      <sslName>2k3-sp2-25-69.qualys.com</sslName>
      <sslIssuer>2k3-sp2-25-69.qualys.com</sslIssuer>
    </alertInfo>
  </Alert>
</data>
</ServiceResponse>
```

## XSD

[platform API server](http://platform.API.server/qps/xsd/1.0/cm/alert.xsd)/qps/xsd/1.0/cm/alert.xsd

## View alert details

/qps/rest/1.0/get/cm/alert/<id>

[GET] [POST]

Returns details for an alert. Want to find the alert ID to use as input? See [Search alerts](#).

### Input Parameters

The element “id” (integer) is required, where “id” identifies the alert.

### Sample - Get alert details

#### API request

```
curl -u "USERNAME:PASSWORD"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/cm/alert/246213"
```

#### Response

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/  
xsd/1.0/cm/alert.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <Alert>  
      <id>246213</id>  
      <source>REMIEDIATION</source>  
      <eventType>HOST_UPDATED</eventType>  
      <triggerUuid>3d41baf9-7caa-4269-9889-d7377aeaace5</triggerUuid>  
      <ipAddress>10.10.30.240</ipAddress>  
      <hostname>win12-30-240</hostname>  
      <eventDate>2018-06-04T18:11:54Z</eventDate>  
      <alertDate>2018-06-04T18:11:59Z</alertDate>  
      <isHidden>>false</isHidden>  
      <profile>
```

```
<id>7401</id>
<title>All Critical</title>
<dateCreated>2018-09-16T19:54:48Z</dateCreated>
<dateUpdated>2018-09-16T19:54:48Z</dateUpdated>
<frequency>FREQ_NEVER</frequency>
<isActive>true</isActive>
<includedIps>10.10.10.1-10.10.31.255</includedIps>
<targetList>10.10.10.1-10.10.31.255</targetList>
</profile>
<alertInfo>
  <operatingSystem>Windows Server 2012 Standard 64 bit
Edition</operatingSystem>
  <port>0</port>
</alertInfo>
</Alert>
</data>
</ServiceResponse>
```

## XSD

[platform API server](https://platform-api-server/qps/xsd/1.0/cm/alert.xsd)/qps/xsd/1.0/cm/alert.xsd

## Download alerts

`/qps/rest/1.0/download/cm/alert/?format=<format>`

[POST]

Download a list of alerts in CSV or CEF format.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for each alert. [Learn more about limiting your results](#)

### Input Parameters

The element “format” (text) is required, where “format” is the file format (CSV or CEF).

Allowed input elements are listed below. The associated data type for each element appears in parentheses. These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

[Click here for available operators](#)

Parameter	Description
id (integer)	The alert ID. This element is assigned by the service.
eventType (keyword)	The type of event that triggered the alert:  HOST_FOUND, HOST_UPDATED, HOST_PURGED, PORT_OPEN, PORT_CHANGED, PORT_CLOSED, SOFTWARE_ADDED, SOFTWARE_REMOVED, SSL_NEW, SSL_EXPIRED, SSL_EXPIRY, TICKET_OPEN, TICKET_RESOLVED, TICKET_CLOSED, VULN_OPEN, VULN_CLOSED, VULN_REOPENED, VULN_ACTIVE, VULN_PREDICTION_ADDED, VULN_PREDICTION_CHANGED, VULN_PREDICTION_CLOSED



ipAddress (text)	The impacted host's IP address.
hostname (text)	The impacted host's hostname.
isHidden (boolean)	Indicates whether the alert has been hidden from view. Possible values: true or false
eventDate (date)	The date of the event that triggered the alert in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).
alertDate (date)	The date of the alert in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).
profileTitle (text)	The name of the monitoring profile that resulted in the alert.

## Sample - Download alerts

### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @"https://qualysapi.qualys.com/qps/rest/1.0/download/cm/alert/?format=cef" < file.xml
```

### Request POST data

```
<ServiceRequest>  
<filters>  
  <Criteria field="eventType" operator="EQUALS">PORT_OPEN</Criteria>  
</filters>  
</ServiceRequest>
```

### Sample CEF Output

```
Jun 06 2017 15:43:9 83306MM.local 10.40.2.210  
CEF:0|QUALYS|QualysGuard|CM-1.4|PORT|PORT_OPEN|0|cat=PORT  
dhost=2k8core-30-21.2k864sp0.qualys.com dst=10.10.30.21 dmac=NA  
dntdom=2K8CORE-30-21 rt=Nov 05 2017 15:57:21  
cs1operatingSystem=Windows 2008 Enterprise Server Service Pack 2  
dpt=61466 cs2protocol=udp cs3defaultService=NA
```

```

CEF:0|QUALYS|QualysGuard|CM-1.4|PORT|PORT_OPEN|0|cat=PORT
dhost=2k8core-30-21.2k864sp0.qualys.com dst=10.10.30.21 dmac=NA
dntdom=2K8CORE-30-21 rt=Nov 05 2017 15:57:21
cs1operatingSystem=Windows 2008 Enterprise Server Service Pack 2
dpt=61466 cs2protocol=udp cs3defaultService=NA
CEF:0|QUALYS|QualysGuard|CM-1.4|PORT|PORT_OPEN|0|cat=PORT dhost=xp-30-
32.qualys.com dst=10.10.30.32 dmac=NA dntdom=XP-30-32 rt=Nov 21 2017
19:42:56 cs1operatingSystem=Windows XP dpt=445 cs2protocol=tcp
cs3defaultService=microsoft-ds

```

### Sample CSV Output

```

"AlertId","Event Type","ProfileId","Profile Name","IP
Address","Hostname","Operating System","Event Date","Alert Date"
"237124","PORT_OPEN","7401","All Critical","10.10.30.21","2k8core-30-
21.2k864sp0.qualys.com","-", "2017-12-31 15:57:21", "2017-12-31
15:57:22"
"237172","PORT_OPEN","5601","My Profile","10.10.30.21","2k8core-30-
21.2k864sp0.qualys.com","-", "2017-12-31 15:57:21", "2017-12-31
15:57:23"
"238503","PORT_OPEN","7401","All Critical","10.10.30.32","xp-30-
32.qualys.com","-", "2017-01-16 19:42:56", "2017-01-16 19:42:58"

```

# Profiles

## Search profiles

/qps/rest/1.0/search/cm/profile/

[POST]

Returns a list of monitoring profiles in the user's account.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each profile. [Learn more about limiting your results](#)

### Input Parameters

Allowed input elements are listed below. The associated data type for each element appears in parentheses. These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

[Click here for available operators](#)

Parameter	Description
id (integer)	The monitoring profile ID. This element is assigned by the service.
title (text)	The name of the monitoring profile.
uuid (integer)	The monitoring profile UUID. This element is assigned by the service.
frequency (keyword)	The notification frequency setting defined in the profile:  FREQ_NEVER, FREQ_5_MINUTES, FREQ_20_MINUTES, FREQ_1_HR, FREQ_2_HRS,

FREQ\_6\_HRS, FREQ\_12\_HRS, FREQ\_WEEKLY,  
FREQ\_DAILY

isActive (boolean)	Is the monitoring profile active? (true or false).
ruleSetTitle (text)	The name of the ruleset assigned to the monitoring profile.

## Sample - Search profiles

### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/1.0/search/cm/profile/" <file.xml
```

### Request POST data

```
<ServiceRequest>  
  <filters>  
    <Criteria field="ruleSetTitle"  
operator="CONTAINS">critical</Criteria>  
  </filters>  
</ServiceRequest>
```

### Response

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/1.  
0/cm/profile.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <hasMoreRecords>>false</hasMoreRecords>  
  <data>  
    <Profile>  
      <id>7401</id>  
      <title>All Critical</title>  
      <uuid>d7af450c-828c-4101-a653-737f10d596c6</uuid>  
      <dateCreated>2018-09-16T19:54:48Z</dateCreated>
```

```
<dateUpdated>2018-09-16T19:54:48Z</dateUpdated>
<frequency>FREQ_NEVER</frequency>
<isActive>true</isActive>
<includedIps>10.10.10.1-10.10.31.255</includedIps>
<targetList>10.10.10.1-10.10.31.255</targetList>
<ruleset>
  <id>4001</id>
  <title>All Critical</title>
  <description>Critical security risks to be addressed
immediately.</description>
  <dateCreated>2018-09-16T19:36:10Z</dateCreated>
  <dateUpdated>2018-09-16T19:36:10Z</dateUpdated>
  <isTemplate>false</isTemplate>
</ruleset>
</Profile>
</data>
</ServiceResponse>
```

## XSD

[platform API server](https://platform-api-server/qps/xsd/1.0/cm/profile.xsd)/qps/xsd/1.0/cm/profile.xsd

## View profile details

/qps/rest/1.0/get/cm/profile/<id>

[GET] [POST]

Returns details for a profile. Want to find the profile ID to use as input? See [Search profiles](#).

### Input Parameters

The element “id” (integer) is required, where “id” identifies the profile.

### Sample - Get profile details

#### API request

```
curl -u "USERNAME:PASSWORD"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/cm/profile/7401"
```

#### Response

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/1.  
0/cm/profile.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <Profile>  
      <id>7401</id>  
      <title>All Critical</title>  
      <uuid>d7af450c-828c-4101-a653-737f10d596c6</uuid>  
      <dateCreated>2018-09-16T19:54:48Z</dateCreated>  
      <dateUpdated>2018-09-16T19:54:48Z</dateUpdated>  
      <frequency>FREQ_NEVER</frequency>  
      <isActive>true</isActive>  
      <includedIps>10.10.10.1-10.10.31.255</includedIps>  
      <targetList>10.10.10.1-10.10.31.255</targetList>  
      <ruleset>
```

```
<id>4001</id>  
<title>All Critical</title>  
<description>Critical security risks to be addressed  
immediately.</description>  
<dateCreated>2018-09-16T19:36:10Z</dateCreated>  
<dateUpdated>2018-09-16T19:36:10Z</dateUpdated>  
<isTemplate>false</isTemplate>  
</ruleset>  
</Profile>  
</data>  
</ServiceResponse>
```

## XSD

[platform API server](platform API server/qps/xsd/1.0/cm/profile.xsd)/qps/xsd/1.0/cm/profile.xsd

# Rules

## Search rules

`/qps/rest/1.0/search/cm/rule/`

[POST]

Returns a list of rules (which are part of rulesets) in the user's account.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each rule. [Learn more about limiting your results](#)

### Input Parameters

Allowed input elements are listed below. The associated data type for each element appears in parentheses. These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

[Click here for available operators](#)

Parameter	Description
id (integer)	The rule ID. This element is assigned by the service.
ruleType (keyword)	The type of rule: HOST, VULN, PORT, SSL, SW

### Sample - Search rules

#### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --data-binary @-"https://qualysapi.qualys.com/qps/rest/1.0/search/cm/rule/" < file.xml
```



**Request POST data**

```
<ServiceRequest>
  <filters>
    <Criteria field="ruleType" operator="EQUALS">HOST</Criteria>
  </filters>
</ServiceRequest>
```

**Response**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/1.0/cm/rule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>19</count>
  <hasMoreRecords>>false</hasMoreRecords>
  <data>
    <Rule>
      <id>1413</id>
      <ruleType>HOST</ruleType>
      <eventTypes>HOST_FOUND, HOST_UPDATED</eventTypes>
<jsonData>{"ruleType": "HOST", "eventTypes": ["HOST_FOUND",
"HOST_UPDATED"], "criteria": [{"propertyName": "name", "propertyValue": "blah", "expressionType": "EQUALS"},
{"propertyName": "operatingSystem", "propertyValue": "blah", "expressionType": "EQUALS"}, {"propertyName": "hostname", "propertyValue": "blah", "expressionType": "EQUALS"}]}</jsonData>
      <dateCreated>2018-09-05T16:21:00Z</dateCreated>
      <criteria>
        <list>
          <RuleCriteria>
            <id>1437</id>
            <propertyName>name</propertyName>
            <propertyValue>blah</propertyValue>
            <expressionType>EQUALS</expressionType>
          </RuleCriteria>
          <RuleCriteria>
            <id>1439</id>
```

```
        <propertyName>operatingSystem</propertyName>
        <propertyValue>blah</propertyValue>
        <expressionType>EQUALS</expressionType>
    </RuleCriteria>
</list>
</criteria>
</Rule>
</data>
</ServiceResponse>
```

## XSD

[platform API server](#)/qps/xsd/1.0/cm/rule.xsd

## View rule details

/qps/rest/1.0/get/cm/rule/<id>

[GET] [POST]

Returns details for a rule. Want to find the rule ID to use as input? See [Search rules](#).

### Input Parameters

The element “id” (integer) is required, where “id” identifies the rule.

### Sample - Get rule details

#### API request

```
curl -u "USERNAME:PASSWORD"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/cm/rule/6002"
```

#### Response

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/  
xsd/1.0/cm/rule.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <Rule>  
      <id>6002</id>  
      <ruleType>VULN</ruleType>  
      <eventTypes>VULN_OPEN, VULN_CLOSED, VULN_ACTIVE,  
VULN_REOPENED</eventTypes>  
      <jsonData>{"ruleType": "VULN", "eventTypes": ["VULN_OPEN",  
, "VULN_CLOSED", "VULN_ACTIVE", "VULN_REOPENED"], "criteria":  
: [], "uiState": {"eventType.VULN_OPEN": "on"},  
, "criteria":
```

```
eventType.VULN_CLOSED":"on","eventType.VULN_ACTIVE
":"on"
,"eventType.VULN_REOPENED":"on","titleType"
ot:"","
;titleValue":"","qidType":"","
qidValue":""
,"cveType":"","cveValue":""}}<
/jsonData>
  <dateCreated>2018-09-17T15:32:11Z</dateCreated>
  <criteria>
    <list/>
  </criteria>
</Rule>
</data>
</ServiceResponse>
```

## XSD

[<platform API server>/qps/xsd/1.0/cm/rule.xsd](#)

# Rulesets

## Search rulesets

/qps/rest/1.0/search/cm/ruleset/

[POST]

Returns a list of rulesets in the user's account.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each ruleset. [Learn more about limiting your results](#)

### Input Parameters

Allowed input elements are listed below. The associated data type for each element appears in parentheses. These elements are optional and act as filters. When multiple elements are specified, parameters are combined using a logical AND.

[Click here for available operators](#)

Parameter	Description
id (integer)	The ruleset ID. This element is assigned by the service.
title (text)	The name of the ruleset.
description (text)	The user-provided description for the ruleset.
dateCreated (date)	The date the ruleset was created in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).
dateUpdated (date)	The date the ruleset was last updated in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).

## Sample - Search rulesets

### API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"--  
data-binary @-  
"https://qualysapi.qualys.com/qps/rest/1.0/search/cm/ruleset/" <  
file.xml
```

### Request POST data

```
<ServiceRequest>  
  <filters>  
    <Criteria field="title" operator="CONTAINS">critical</Criteria>  
  </filters>  
</ServiceRequest>
```

### Response

```
<<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/  
xsd/1.0/cm/ruleset.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <hasMoreRecords>>false</hasMoreRecords>  
  <data>  
    <RuleSet>  
      <id>4001</id>  
      <title>All Critical</title>  
      <description>Critical security risks to be addressed  
immediately.</description>  
      <dateCreated>2018-09-16T19:36:10Z</dateCreated>  
      <dateUpdated>2018-09-16T19:36:10Z</dateUpdated>  
      <isTemplate>>false</isTemplate>  
      <rule>  
        <list>  
          <Rule>  
            <id>6001</id>  
            <ruleType>HOST</ruleType>  
            <eventTypes>HOST_FOUND, HOST_UPDATED,  
HOST_PURGED</eventTypes>  
          <jsonData>{"ruleType": "HOST", "eventTypes":  
; ["HOST_FOUND";
```

```

,&quot;HOST_UPDATED&quot;,&quot;HOST_PURGED&quot;],&quot;criteria&quot;
;:[],&quot;uiState&quot;
:{&quot;eventType.HOST_FOUND&quot;:&quot;on&quot;,&quot;eventType.HOST
_UPDATED&quot;:&quot;on&quot;
,&quot;eventType.HOST_PURGED&quot;:&quot;on&quot;,&quot;operatingSystemType&quot;:&quot;&quot;
,&quot;operatingSystemValue&quot;:&quot;&quot;,&quot;hostnameType&quot;
:&quot;&quot;,&quot;
hostnameValue&quot;:&quot;&quot;,&quot;netbiosNameType&quot;:&quot;&quot;
ot;,&quot;netbiosNameValue&quot;
:&quot;&quot;}}</jsonData>
  <dateCreated>2018-09-17T15:32:10Z</dateCreated>
</Rule>
<Rule>
  <id>6002</id>
  <ruleType>VULN</ruleType>
  <eventTypes>VULN_OPEN, VULN_CLOSED, VULN_ACTIVE,
VULN_REOPENED</eventTypes>
<jsonData>{&quot;ruleType&quot;:&quot;VULN&quot;,&quot;eventTypes&quot;
;:[&quot;VULN_OPEN&quot;
,&quot;VULN_CLOSED&quot;,&quot;VULN_ACTIVE&quot;,&quot;VULN_REOPENED&quot;
],&quot;criteria&quot;
:,[],&quot;uiState&quot;:{&quot;eventType.VULN_OPEN&quot;:&quot;on&quot;
,&quot;eventType.VULN_CLOSED&quot;
:&quot;on&quot;,&quot;eventType.VULN_ACTIVE&quot;:&quot;on&quot;,&quot;
eventType.VULN_REOPENED&quot;
:&quot;on&quot;,&quot;titleType&quot;:&quot;&quot;,&quot;titleValue&quot;
ot;:&quot;&quot;,&quot;qidType&quot;
:&quot;&quot;,&quot;qidValue&quot;:&quot;&quot;,&quot;cveType&quot;:&quot;
uot;&quot;,&quot;cveValue&quot;
:&quot;&quot;}}</jsonData>
  <dateCreated>2018-09-17T15:32:11Z</dateCreated>
</Rule>
</list>
</rule>
</RuleSet>
</data>
</ServiceResponse>

```

## XSD

[platform API server/qps/xsd/1.0/cm/ruleset.xsd](http://platform API server/qps/xsd/1.0/cm/ruleset.xsd)





## View ruleset details

/qps/rest/1.0/get/cm/ruleset/<id>

[GET] [POST]

Returns details for a ruleset. Want to find the ruleset ID to use as input? See [Search rulesets](#).

### Input Parameters

The element “id” (integer) is required, where “id” identifies the ruleset .

### Sample - Get ruleset details

#### API request

```
curl -u "USERNAME:PASSWORD"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/cm/ruleset/4001"
```

#### Response

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/1.  
0/cm/ruleset.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <RuleSet>  
      <id>4001</id>  
      <title>All Critical</title>  
      <description>Critical security risks to be addressed  
immediately.</description>  
      <dateCreated>2018-09-16T19:36:10Z</dateCreated>  
      <dateUpdated>2018-09-16T19:36:10Z</dateUpdated>  
      <isTemplate>>false</isTemplate>  
      <rule>  
        <list>  
          <Rule>
```

```

        <id>6001</id>
        <ruleType>HOST</ruleType>
        <eventTypes>HOST_FOUND, HOST_UPDATED,
HOST_PURGED</eventTypes>
<jsonData>{"ruleType":"HOST","eventTypes":
:["HOST_FOUND",
,"HOST_UPDATED","HOST_PURGED"],"criteria":
:[],"uiState":{"eventType.HOST_FOUND":
{"on":true,"eventType.HOST_UPDATED":
{"on":true,"eventType.HOST_PURGED":
{"on":true,"operatingSystemType":
,"operatingSystemValue":
,"hostnameType":
,"hostnameValue":
,"netbiosNameType":
,"netbiosNameValue":
}}}</jsonData>
        <dateCreated>2018-09-17T15:32:10Z</dateCreated>
    </Rule>
    <Rule>
        <id>6002</id>
        <ruleType>VULN</ruleType>
        <eventTypes>VULN_OPEN, VULN_CLOSED, VULN_ACTIVE,
VULN_REOPENED</eventTypes>
<jsonData>{"ruleType":"VULN","eventTypes":
:["VULN_OPEN",
,"VULN_CLOSED","VULN_ACTIVE",
,"VULN_REOPENED"],"criteria":
:[],"uiState":{"eventType.VULN_OPEN":
{"on":true,"eventType.VULN_CLOSED":
{"on":true,"eventType.VULN_ACTIVE":
{"on":true,"eventType.VULN_REOPENED":
{"on":true,"titleType":
,"titleValue":
,"qidType":
,"qidValue":
,"cveType":
,"cveValue":
}}}</jsonData>
        <dateCreated>2018-09-17T15:32:11Z</dateCreated>
    </Rule>
</list>
</rule>
</RuleSet>
</data>
</ServiceResponse>

```

## XSD

[platform API server](https://platform-api-server/qps/xsd/1.0/cm/ruleset.xsd)/qps/xsd/1.0/cm/ruleset.xsd

# Troubleshooting

## Error Messages

Error messages returned from CM API requests are described below by category.

Error categories: [Element](#) | [Criteria](#) | [Authorization](#)

### Element

Error Message	Resolution
<element>: Element must not be set.	This element does not apply to this request.
set: Element must contain at least one child.	The set element requires at least one sub element.
headers: Length of all headers cannot exceed 2048 characters.	The values of all headers cannot exceed 2048 characters.

### Criteria

Error Message	Resolution
Criteria: Field is required.	Specify the name of the criteria to search against.

Criteria: Invalid criteria (<field name>). Please search against one of the following criteria: %s.

Criteria: Invalid operator for criteria '<field>' (<operator>). Allowed operations for this criteria are: %s.

Criteria: Value is required for criteria '<field>'. Specify a value for a field name for search criteria.

Criteria: Invalid value format for criteria '<field>': <value>.

- Boolean (true, false).
- Date and Time in UTC format
- Enumeration (allowed options separated by comma).
- Other: Specify criteria value(s) as <type>.

## Authorization

Error Message	Resolution
You are not authorized to access the application through the API.	You must be granted the API Access permission in your roles and scopes.
You do not have access to the module Continuous Monitoring required by this API.	Please contact your account manager to have CM enabled in your subscription.

No data shall be passed for this operation.

The POST request does not specify a data element.

User is not authorized to perform this operation on specified object(s).

You must be granted access to these objects in your user scope.

Operation %s does not support search filters.

Do not provide search filters for this operation.