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

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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:

```bash
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

Qualys maintains multiple Qualys Cloud Platforms. The API server URL that you should use for API requests depends on the platform where your Qualys account is located.

<table>
<thead>
<tr>
<th>Account location</th>
<th>API server URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualys US Platform 1</td>
<td><a href="https://qualysapi.qualys.com">https://qualysapi.qualys.com</a></td>
</tr>
<tr>
<td>Qualys US Platform 2</td>
<td><a href="https://qualysapi.qg2.apps.qualys.com">https://qualysapi.qg2.apps.qualys.com</a></td>
</tr>
<tr>
<td>Qualys US Platform 3</td>
<td><a href="https://qualysapi.qg3.apps.qualys.com">https://qualysapi.qg3.apps.qualys.com</a></td>
</tr>
<tr>
<td>Qualys EU Platform 1</td>
<td><a href="https://qualysapi.qualys.eu">https://qualysapi.qualys.eu</a></td>
</tr>
<tr>
<td>Qualys EU Platform 2</td>
<td><a href="https://qualysapi.qg2.apps.qualys.eu">https://qualysapi.qg2.apps.qualys.eu</a></td>
</tr>
<tr>
<td>Qualys India Platform 1</td>
<td><a href="https://qualysapi.qg1.apps.qualys.in">https://qualysapi.qg1.apps.qualys.in</a></td>
</tr>
<tr>
<td>Qualys Private Cloud Platform</td>
<td><a href="https://qualysapi">https://qualysapi</a>.&lt;customer_base_url&gt;</td>
</tr>
</tbody>
</table>

Looking for your API server URL for your account? You can easily find this. Just log in to your Qualys account and go to Help > About. You’ll see this information under Security Operations Center (SOC).
### General Information

**Qualys Web Service**
- Application Version: 8.9.0.2-2
- Online Help Version: 8.9.29-1
- SCAP Module Version: 1.2

**Qualys External Scanners**
- Security Operations Center (SOC): 64.39.96.0/20 (64.39.96.1-64.39.111.254)
- Scanner Version: 9.0.29-1
- Vulnerability Signature Version: 2.3.492-2
- Scanner Services: 3.0.12-1

**Qualys Scanner Appliances**
- Security Operations Center (SOC):
  - qualysguard.qualys.com:443
  - qualysapi.qualys.com:443
  - dist01.sjdc01.qualys.com:443
  - nohost.sjdc01.qualys.com:443
  - scanservice1.qualys.com:443
  - all in 64.39.96.0/20
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

```
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Portal-Version>
      <WAS-VERSION>6.0.0.0</WAS-VERSION>
      <FIM-VERSION>1.5.1</FIM-VERSION>
      <VM-VERSION>1.0.3</VM-VERSION>
      <CERTVIEW-VERSION>1.1.0.0</CERTVIEW-VERSION>
      <CM-VERSION>1.20.1</CM-VERSION>
      <MDS-VERSION>2.11.7.0</MDS-VERSION>
      <CA-VERSION>2.9.1.0</CA-VERSION>
      <IOC-VERSION>1.1.0</IOC-VERSION>
      <AV2-VERSION>0.1.0</AV2-VERSION>
      <QUESTIONNAIRE-VERSION>2.14.0.4</QUESTIONNAIRE-VERSION>
      <WAF-VERSION>2.7.0.0</WAF-VERSION>
    </Portal-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

```json
{
   "ServiceResponse": {
      "data": [
         {
            "Portal-Version": {
               "WAS-VERSION": "6.0.0.0",
               "VM-VERSION": "1.0.3",
               "CM-VERSION": "1.20.1",
               "MDS-VERSION": "2.11.7.0",
               "CA-VERSION": "2.9.1.0",
               "QUESTIONNAIRE-VERSION": "2.14.0.4",
               "WAF-VERSION": "2.7.0.0"
            },
            ...
         }
      ],
      "responseCode": "SUCCESS",
      "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 ...>
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**

```xml
<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"
         }
      }
   }
}
```
Sample 2 - Search for rule

API request

```
```

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\",\"eventType\":\"HOST_FOUND\",\"criteria\":[
```
Qualys Continuous Monitoring API
Get Started

}, "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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id (integer)</td>
<td>The alert ID. This element is assigned by the service.</td>
</tr>
<tr>
<td>eventType (keyword)</td>
<td>The type of event that triggered the alert:</td>
</tr>
<tr>
<td></td>
<td>HOST_FOUND, HOSTUPDATED, HOST_PURGED, PORT_OPEN, PORT_CHANGED, PORT_CLOSED,</td>
</tr>
<tr>
<td></td>
<td>SOFTWARE_ADDED, SOFTWARE_REMOVED, SSL_NEW, SSL_EXPIRED, SSL_EXPIRY,</td>
</tr>
<tr>
<td></td>
<td>TICKET_OPEN, TICKET_RESOLVED, TICKET_CLOSED, VULN_OPEN, VULN_CLOSED, VULN_REOPENED,</td>
</tr>
<tr>
<td></td>
<td>VULN_ACTIVE, VULN_PREDICTION_ADDED, VULN_PREDICTION_CHANGED,</td>
</tr>
<tr>
<td></td>
<td>VULN_PREDICTION_CLOSED</td>
</tr>
</tbody>
</table>
Qualys Continuous Monitoring API

Alerts

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

Sample - Search alerts

**API request**

```bash
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**

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

**Response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```
<count>1</count>
<hasMoreRecords>false</hasMoreRecords>
<data>
<Alert>
  <id>244402</id>
  <source>REMEDIATION</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>
  </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>/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"?>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Alert>
      <id>246213</id>
      <source>REMEDIATION</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>
    </Alert>
  </data>
</ServiceResponse>
Qualys Continuous Monitoring API
Alerts

XSD

<platform_API_server>/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.

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</tr>
<tr>
<td></td>
<td>VULN_REOPENED, VULN_ACTIVE, VULN_PREDICTION_ADDED, VULN_PREDICTION_CHANGED,</td>
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Qualys Continuous Monitoring API

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</tr>
<tr>
<td>eventDate (date)</td>
<td>The date of the event that triggered the alert in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>alertDate (date)</td>
<td>The date of the alert in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>profileTitle (text)</td>
<td>The name of the monitoring profile that resulted in the alert.</td>
</tr>
</tbody>
</table>

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
dntdcom=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
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"
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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id (integer)</td>
<td>The monitoring profile ID. This element is assigned by the service.</td>
</tr>
<tr>
<td>title (text)</td>
<td>The name of the monitoring profile.</td>
</tr>
<tr>
<td>uuid (integer)</td>
<td>The monitoring profile UUID. This element is assigned by the service.</td>
</tr>
<tr>
<td>frequency</td>
<td>The notification frequency setting defined in the profile:</td>
</tr>
<tr>
<td>(keyword)</td>
<td>FREQ_NEVER, FREQ_5_MINUTES, FREQ_20_MINUTES, FREQ_1_HR, FREQ_2_HRS,</td>
</tr>
</tbody>
</table>
Qualys Continuous Monitoring API
Profiles

FREQ_6_HRS, FREQ_12_HRS, FREQ_WEEKLY, FREQ_DAILY

<table>
<thead>
<tr>
<th>isActive (boolean)</th>
<th>Is the monitoring profile active? (true or false).</th>
</tr>
</thead>
<tbody>
<tr>
<td>ruleSetTitle (text)</td>
<td>The name of the ruleset assigned to the monitoring profile.</td>
</tr>
</tbody>
</table>

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"?>
  <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>
    </Profile>
  </data>
</ServiceResponse>
Qualys Continuous Monitoring API
Profiles

XSD

<platform_API_server>/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" 
    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>
Qualys Continuous Monitoring API
Profiles

XSD

<platform_API_server>/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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id (integer)</td>
<td>The rule ID. This element is assigned by the service.</td>
</tr>
<tr>
<td>ruleType</td>
<td>The type of rule:</td>
</tr>
<tr>
<td>(keyword)</td>
<td>HOST, VULN, PORT, SSL, SW</td>
</tr>
</tbody>
</table>

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**

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

## Response
```xml
<?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><![CDATA[{"ruleType":"HOST","eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[] ,"eventTypes":[]}]]></jsonData>
      <dateCreated>2018-09-05T16:21:00Z</dateCreated>
      <criteria>
        <list>
          <RuleCriteria>
            <id>1437</id>
            <propertyName>name</propertyName>
            <propertyValue>blah</propertyValue>
            <expressionType>EQUALS</expressionType>
          </RuleCriteria>
        </list>
      </criteria>
    </Rule>
  </data>
</ServiceResponse>
```
<property Name="operatingSystem"
    Value="blah"
    Expression Type="EQUALS"
/>
</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
<?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>on</uiState>
    </Rule>
  </data>
</ServiceResponse>
```
eventType.VULN_CLOSED" on","eventType.VULN_ACTIVE on","eventType.VULN_REOPENED on","titleType" ,"titleValue" ,"qidType" ,"qidValue" ,"cveType" ,"cveValue"}} </jsonData>
    <dateCreated>2018-09-17T15:32:11Z</dateCreated>
    <criteria>
      <list/>
    </criteria>
  </Rule>
</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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id (integer)</td>
<td>The ruleset ID. This element is assigned by the service.</td>
</tr>
<tr>
<td>title (text)</td>
<td>The name of the ruleset.</td>
</tr>
<tr>
<td>description (text)</td>
<td>The user-provided description for the ruleset.</td>
</tr>
<tr>
<td>dateCreated (date)</td>
<td>The date the ruleset was created in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
<tr>
<td>dateUpdated (date)</td>
<td>The date the ruleset was last updated in UTC date/time format (YYYY-MM-DDTHH:MM:SSZ).</td>
</tr>
</tbody>
</table>
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"?>
  <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":[]}<jsonData>
          </Rule>
        </list>
      </rule>
    </RuleSet>
  </data>
</ServiceResponse>
```
Qualys Continuous Monitoring API

Rulesets

XSD

<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
<?xml version="1.0" encoding="UTF-8"?>
  <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>
        </list>
      </rule>
    </RuleSet>
  </data>
</ServiceResponse>
```
<id>6001</id>
<ruleType>HOST</ruleType>
<eventTypes>HOST_FOUND, HOST_UPDATED, HOST_PURGED</eventTypes>
<jdata>{"ruleType":"HOST","eventTypes":["HOST_FOUND","HOST_UPDATED","HOST_PURGED"],"criteria":[]}
<uiState>{"eventType.HOST_FOUND":"on","eventType.HOST_UPDATED":"on","eventType.HOST_PURGED":"on","operatingSystemType":null,"operatingSystemValue":null,"hostnameType":null,"hostnameValue":null,"netbiosNameType":null,"netbiosNameValue":null}</uiState>
<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>
<jdata>{"ruleType":"VULN","eventTypes":["VULN_OPEN","VULN_CLOSED","VULN_ACTIVE","VULN_REOPENED"],"criteria":[]}
<uiState>{"eventType.VULN_OPEN":"on","eventType.VULN_CLOSED":"on","eventType.VULN_ACTIVE":"on","eventType.VULN_REOPENED":"on","titleType":null,"titleValue":null,"qidType":null,"qidValue":null,"cveType":null,"cveValue":null}</uiState>
<dateCreated>2018-09-17T15:32:11Z</dateCreated>
</Rule>
</list>
</RuleSet>
</data>
</ServiceResponse>
Qualys Continuous Monitoring API

Rulesets

XSD

<platform_API_server>/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

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;element&gt;: Element must not be set.</td>
<td>This element does not apply to this request.</td>
</tr>
<tr>
<td>set: Element must contain at least one child.</td>
<td>The set element requires at least one sub element.</td>
</tr>
<tr>
<td>headers: Length of all headers cannot exceed 2048 characters.</td>
<td>The values of all headers cannot exceed 2048 characters.</td>
</tr>
</tbody>
</table>

Criteria

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criteria: Field is required.</td>
<td>Specify the name of the criteria to search against.</td>
</tr>
</tbody>
</table>
Qualys Continuous Monitoring API
Troubleshooting

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

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>You are not authorized to access the application through the API.</td>
<td>You must be granted the API Access permission in your roles and scopes.</td>
</tr>
<tr>
<td>You do not have access to the module Continuous Monitoring required by this API.</td>
<td>Please contact your account manager to have CM enabled in your subscription.</td>
</tr>
<tr>
<td>Error Message</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>No data shall be passed for this operation.</td>
<td>The POST request does not specify a data element.</td>
</tr>
<tr>
<td>User is not authorized to perform this operation on specified object(s).</td>
<td>You must be granted access to these objects in your user scope.</td>
</tr>
<tr>
<td>Operation %s does not support search filters.</td>
<td>Do not provide search filters for this operation.</td>
</tr>
</tbody>
</table>