Asset Management & Tagging API

User Guide
Version 3.16.1

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Get Started

Asset Management & Tagging API

Manage assets in your account that you want to scan for security and compliance, define asset tags and AWS connectors.

Modules supported

VM, PC, SCA, CERTVIEW, CLOUDVIEW

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

Qualys user account

Authentication to your Qualys account with valid Qualys credentials is required for making Qualys API requests to the Qualys API servers.

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 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.

The allowed methods, POST and/or GET, for each API request are documented with each API call in this user guide.

Sample request - basic authentication

```
curl -u "USERNAME:PASSWORD"
https://qualysapi.qualys.com/qps/rest/3.0/get/am/awsassetdataconnector
/179407
```

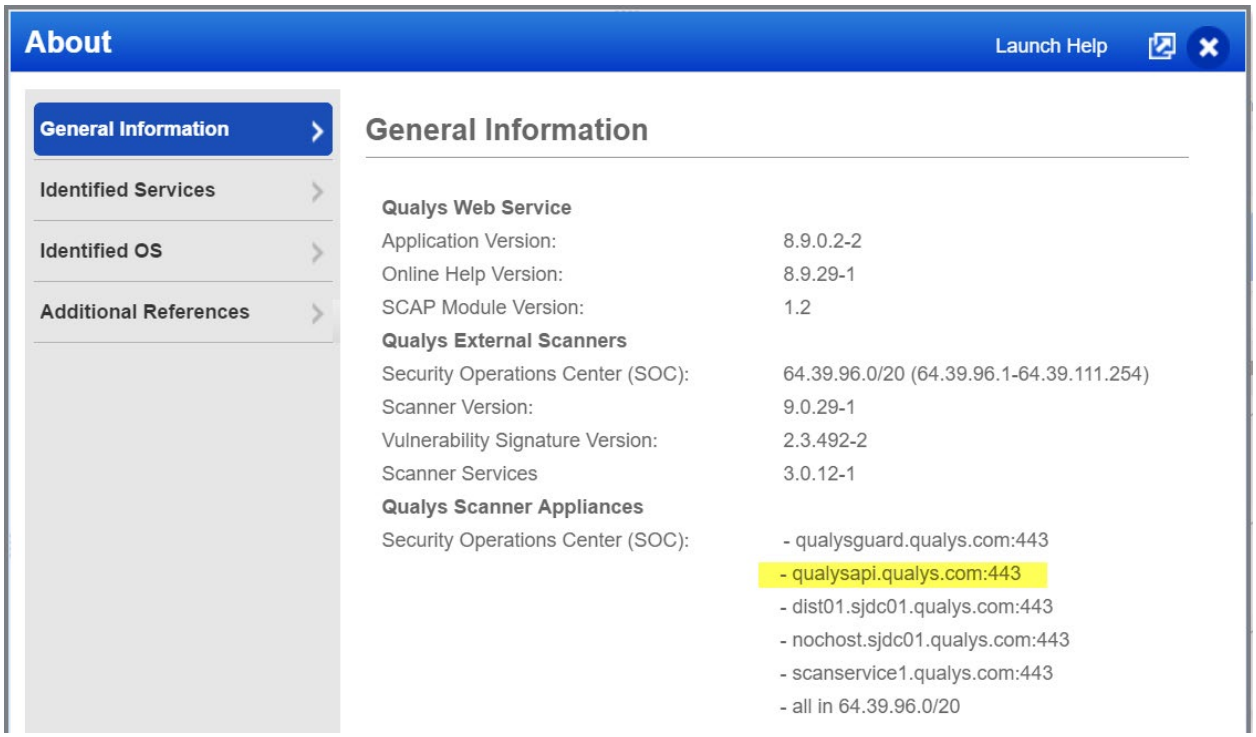
URL to Qualys API server

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

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



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.

Object types

You have core objects, which represent domain objects for specific business goals and related objects which contain related information or collections of information. Related objects are often simplified representations of core objects but are not implicitly core objects. For example, the tags collection on Asset is a simpler form of the Tag core object, but the ports collection is not.

Collections

Collections of related objects are found within a container object called a QList. These lists will have a specific name for the type of objects they contain. For example, the tags collection Asset is a TagSimpleQList and will read and write TagSimple API objects. These lists can contain a number of sub elements.

count - (Read only) The total number of items returned in the list element

list - (Read only) The items contained in the collection on the server

set - A new collection of items to place in the server side object. Any existing items not in the list provided will be discarded.

add - A new item to be added to the server side object. The item may be keyed of one ore more fields depending on the collection. In the even that that an item in the add collection collides with an existing entry, the existing entry will be updated with the fields provided. Many collections will allow you to either associate an existing item with the targeted collection, or create a new one and add it to the collection. If you provide a key field, most often id or uuid, the object will be looked up and associated. In the absence of these fields, a new object will be created (if the list allows it).

remove - Removes an element from the list by the collections key, usually id. If the item does not exist, the entry will be ignored. Additional fields beyond the item key will also be ignored.

update - Updates item(s) in the collection. This allows you to update the fields of non-core items via the objects and reference them. Items will be resolved by the collection's key, and then additional fields applied to the found object. In the event that the supplied item does not match an existing related object, it will be ignored.

Whitespace in HTML tags

Whitespace (which includes line breaks) is not allowed in XML tags that are numbers.

Invalid tag - This syntax will not work

```
<id>
34234
</id>
```

Valid tag - This syntax will work just fine

```
<id>345254</id>
```

Pagination

Some API actions will return a list of core objects but will limit the number returned (default is 100). You can change which objects are returned and the number of objects by specifying a preferences tag in the POST body of your request.

Preferences tag fields:

startFromOffset - The first item to return by index. The default is 1.

startFromId - The first item to return by primary key. No default value.

limitResults - The total number of items to return. The default is 100.

The allowed methods, POST and/or GET, for each API request are documented with each API call in this user guide.

Sample pagination settings

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <preferences>
        <startFromOffset>100</startFromOffset>
        <limitResults>50</limitResults>
    </preferences>
</ServiceRequest>
```

Limit your results

Use the optional “fields” parameter for any Search or Get API request to limit the amount of information returned in the results. Simply specify the fields you want to include in the output, and all other information will be filtered out. Multiple fields are comma separated and wildcards are supported.

This get request will fetch tag ID 12345 and return the tag ID, name and creation date:

Sample limit results

```
https://qualysapi.qualys.com/qps/rest/2.0/get/am/tag/12345?fields=id,name,created
```

This search request will return the ID of the connector and the ID of any default tags attached to the connector:

Sample search connectors

```
https://qualysapi.qualys.com/qps/rest/2.0/search/am/awsassetdataconnector?fields=id,defaultTags.list.SimpleTag.id
```

Using wildcards, the example above could be represented as:

Sample search connectors using wildcards

```
https://qualysapi.qualys.com/qps/rest/2.0/search/am/awsassetdataconnec
tor?fields=id,defaultTags.*.*.iddSimpleTag.id
```

Tracking API usage by user

You can track API usage by a user without the need to provide user credentials such as the username and password.

Optional X-Powered-By header

API usage can be tracked using the X-Powered-By HTTP header which includes a unique ID generated for each subscription and a unique ID generated for each user. Once enabled, the X-Powered-By HTTP header is returned for each API request made by a user. The X-Powered-By HTTP header will be returned for both valid and invalid requests. However, it will not be returned if an invalid URL is hit or when user authentication fails.

Contact Qualys Support to get the X-Powered-By HTTP header enabled.

The X-Powered-By header is returned in the following format:

```
X-Powered-By: Qualys:<POD_ID>:<SUB_UUID>:<USER_UUID>
```

where,

- POD_ID is the shared POD or a PCP. Shared POD is USPOD1, USPOD2, etc.

- SUB_UUID is the unique ID generated for the subscription

- USER_UUID is the unique ID generated for the user. You can use the USER_UUID to track API usage per user.

Sample X-Powered-By header

```
X-Powered-By: Qualys:testpodSJC:f972e2cc-69d6-7ebd-
80e67b9a931475d8:06198167-43f3-7591-802a-1c400a0e81b1
```

Sample outputs

Here are sample outputs showing the X-Powered-By HTTP header.

Sample output for VM, PC

```
 ...
< HTTP/1.1 200 OK
< Date: Thu, 14 Sep 2017 09:11:21 GMT
< Server: Qualys < X-XSS-Protection: 1
< X-Content-Type-Options: nosniff
< X-Frame-Options: SAMEORIGIN
< X-Powered-By: Qualys:USPOD1:d9a7e94c-0a9d-c745-
82e9980877cc5043:f178af1e-4049-7fce-81ca-75584feb8e93
< X-RateLimit-Limit: 300
< X-RateLimit-Window-Sec: 3600
< X-Concurrency-Limit-Limit: 500
< X-Concurrency-Limit-Running: 0
< X-RateLimit-ToWait-Sec: 0
< X-RateLimit-Remaining: 298
< X-Qualys-Application-Version: QWEB-8.11.0.0-
SNAPSHOT20170914072818#4205
< X-Server-Virtual-Host: qualysapi.qualys.com
< X-Server-Http-Host: qualysapi.qualys.com
< Transfer-Encoding: chunked < Content-Type: text/xml;charset=UTF-8
...
```

Sample output for other Qualys apps

```
...
229HTTP/1.1 200 OK
X-Powered-By: Qualys:testpodSJC:f972e2cc-69d6-7ebd-
80e67b9a931475d8:06198167-43f3-7591-802a-1c400a0e81b1
Content-Type: application/xml
Transfer-Encoding: chunked
Date: Mon, 04 Dec 2017 05:36:29 GMT
Server: Apache
LBDEBUG: NS=10.44.1.12,SERVER=10.44.77.81:50205,CSW=cs-
qualysapi443,VSERVER=vs-papi-80,ACTIVE-SERVICES=2,HEALTH=100
...
```

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

* NOT EQUALS operator is not supported for update and delete actions. Using the NOT EQUALS operator for updating or deleting objects (such as tags, assets, host assets, AWS connectors, AWS authentication records, etc.) could result in accidental update or deletion of the objects without any warning. To prevent accidental updates/deletions, we do not support NOT EQUALS operator for updating/deleting objects.

JSON Support

Qualys Asset Management and Tagging API supports JSON requests and responses starting with version 2.11. Samples are shown below.

Headers used in samples	
Send JSON request	"Content-Type: application/json"
Get response in JSON	"Accept: application/json"

Sample 1 - Create a tag

API request

```
cat createTag.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/2.0/create/am/tag"

POST data:
{
  "ServiceRequest": {
    "data": {
      "Tag": {
        "name": "Parent Tag",
        "ruleType": "NAME_CONTAINS",
        "ruleText": "windows",
        "color": "#FFFFFF",
        "children": {
          "set": {
            "TagSimple": [
              { "name": "Child 1" },
              { "name": "Child 2" }
            ]
          }
        }
```

```
      }
    }
  }
}
```

JSON output


```
{
  "ServiceResponse" : {
    "data" : [ {
      "Tag" : {
        "ruleText" : "windows",
        "color" : "#FFFFFF",
        "modified" : "2016-01-04T19:51:56Z",
        "name" : "Parent Tag",
        "children" : {
          "list" : [ {
            "TagSimple" : {
              "name" : "Child 2",
              "id" : 2066216
            }
          }, {
            "TagSimple" : {
              "name" : "Child 1",
              "id" : 2066217
            }
          } ]
        },
        "created" : "2016-01-04T19:51:56Z",
        "ruleType" : "NAME_CONTAINS",
        "id" : 2066215
      }
    } ],
    "count" : 1,
    "responseCode" : "SUCCESS"
  }
}
```


Sample 2 - Search tags

API request

```
cat searchTag.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/2.0/search/am/tag"

POST data:
{
  "ServiceRequest": {
    "filters": {
      "Criteria": [{
        "field": "parent",
          "operator": "EQUALS",
          "value": "2035617"
      },
      {
        "field": "name",
          "operator": "CONTAINS",
          "value": "child"
      },
      {
        "field": "id",
          "operator": "IN",
          "value": "2035619,2035618,2029815"
      },
      {
        "field": "ruleType",
          "operator": "EQUALS",
          "value": "GROOVY"

      },
      {
        "field": "color",
          "operator": "EQUALS",
          "value": "#EC7000"
      }
      ]
    }
  }
}
```

JSON output

```
{
```

```
  "ServiceResponse" : {
    "data" : [ {
      "Tag" : {
        "ruleText" : "windows",
        "color" : "#FFFFFF",
        "modified" : "2016-01-04T19:51:56Z",
        "name" : "Parent Tag",
        "children" : {
          "list" : [ {
            "TagSimple" : {
              "name" : "Child 2",
              "id" : 2066216
            }
          }, {
            "TagSimple" : {
              "name" : "Child 1",
              "id" : 2066217
            }
          } ]
        },
        "created" : "2016-01-04T19:51:56Z",
        "ruleType" : "NAME_CONTAINS",
        "id" : 2066215
      }
    } ],
    "count" : 1,
    "responseCode" : "SUCCESS"
  }
}
```

Know your portal version

/qps/rest/portal/version/

[GET]

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>2.33.0.0-SNAPSHOT-1 DEVELOP
#352 (2018-05-07T22:53:43Z)</PortalApplication-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


```
{
  "ServiceResponse": {
    "data": [
      {
        "Portal-Version": {
          "PortalApplication-VERSION": "2.33.0.0-SNAPSHOT-1 DEVELOP
#352 (2018-05-07T22:53:43Z)",
          "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
  }
}
```

Tags

Create Tag

/qps/rest/2.0/create/am/tag

[POST]

Create a new tag and possibly child tags.

Permissions required - Managers with full scope, other users must have these permissions: Access Permission “API Access”, Tag Permission “Create User Tag”, Tag Permission “Modify Dynamic Tag Rules” (to create a dynamic tag)

Note: Provider name is mandatory in case of Cloud Asset tag.

Sample 1 - Create new tag with 3 child tags

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/tag" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <Tag>
      <name>Parent Tag</name>
      <ruleType>Groovy</ruleType>
      <ruleText>if(asset.getAssetType()!=Asset.AssetType.HOST) return
false;
return asset.hasVulnsWithSeverity(4,5)</ruleText>
      <created>2014-02-06T19:14:50Z</created>
      <modified>2014-02-06T19:14:50Z</modified>
```

```
      <color>#FFFFFF</color>
      <children>
        <set>
          <TagSimple>
            <name>Child 1</name>
          </TagSimple>
          <TagSimple>
            <name>Child 2</name>
          </TagSimple>
          <TagSimple>
            <name>Child 3</name>
          </TagSimple>
        </set>
      </children>
    </Tag>
  </data>
</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/2.
0/am/tag.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Tag>
      <id>1589217</id>
      <name>Parent Tag</name>
      <created>2014-02-06T19:14:50Z</created>
      <modified>2014-02-06T19:14:50Z</modified>
      <color>#FFFFFF</color>
      <ruleText>if(asset.getAssetType()!=Asset.AssetType.HOST) return
false;
return asset.hasVulnsWithSeverity(4,5)</ruleText>
      <ruleType>GROOVY</ruleType>
      <children>
        <list>
          <TagSimple>
            <id>1</id>
            <name>Child 1</name>
          </TagSimple>
          <TagSimple>
```

```
            <id>2</id>
            <name>Child 2</name>
          </TagSimple>
          <TagSimple>
            <id>3</id>
            <name>Child 3</name>
          </TagSimple>
        </list>
      </children>
    </Tag>
  </data>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

Sample 2 - Create an asset tag and assign criticality score

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --
"https://qualysapi.qualys.com/rest/2.0/create/am/tag" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <Tag>
         <name>critical_3</name>
         <criticalityScore>3</criticalityScore>
         <color>#FFFFFF</color>
        </Tag>
   </data>
</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/rest/2
.0/create/am/tag">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
```

```
        <Tag>
            <id>7824612</id>
            <name>critical_3</name>
            <created>2021-06-08T13:09:00Z</created>
            <modified>2021-06-08T13:09:00Z</modified>
            <color>#FFFFFF</color>
            <criticalityScore>3</criticalityScore>
        </Tag>
    </data>
      </ServiceResponse>
```

Sample 3 - Create a dynamic tag using rule engine GLOBAL_ASSET_VIEW

The <ruletype> implies with the Asset Inventory Rule in the Cloud Platform user interface.

API request

```
curl --location --request "POST"
--header 'Authorization: Basic cXVheXNfY2YyOlFhdGVtcEAxMjM='
--header 'Content-Type: application/xml'
--data-raw
"https://qualysapi.qualys.com/rest/2.0/create/am/tag" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <Tag>
         <name>Create_Tag_OperatingSystemLifecycleStageEOL1</name>
         <ruleText>operatingSystem.lifecycle.stage:`EOL`</ruleText>
         <ruleType>GLOBAL_ASSET_VIEW</ruleType>
        </Tag>
   </data>
</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/2.
0/am/tag.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Tag>
            <id>22450446</id>
            <name>Create_Tag_OperatingSystemLifecycleStageEOL1</name>
            <created>2022-12-15T05:13:57Z</created>
            <modified>2022-12-15T05:13:57Z</modified>
            <color>#FFFFFF</color>
            <ruleText>operatingSystem.lifecycle.stage:`EOL`</ruleText>
              <ruleType>GLOBAL_ASSET_VIEW</ruleType>
        </Tag>
    </data>
      </ServiceResponse>
```

Sample 4 - Create TagSet with ruleText

Prerequisite- Full or Trial CSAM subscription.

Permissions- Managers with full scope and other users will have the following permissions:-

- API Access

- Create User Tag

- Modify Dynamic Tag Rules

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @- "qualys_base_url/qps/rest/2.0/create/am/tag/" <
file.xml

Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<ServiceRequest>
    <data>
        <Tag>
         <name>public-tagset-05 </name>
         <ruleType>TAG_SET</ruleType>
         <ruleText> <![CDATA[<?xml version="1.0" encoding="UTF-8"
standalone="yes"?></ruleText>
         <TAG_SET_TAG>
             <INCLUDE_TAG>
                <TAG_LIST>
                   <Tag>
                     <PARENT>18890412</PARENT>
                     <CHILD></CHILD>
                   </Tag>
                   <Tag>
                     <PARENT>18890012</PARENT>
                     <CHILD></CHILD>
                   </Tag>
             </TAG_LIST>
                <SCOPE>ANY</SCOPE>
                </INCLUDE_TAG>
                <EXCLUDE_TAG>
             <TAG_LIST/>
                <SCOPE>ANY</SCOPE>
                </EXCLUDE_TAG>
       </TAG_SET_TAG>]]>
       </ruleText>
       </Tag>
 </data>
</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/2.
0/am/tag.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Tag>
            <id>22450446</id>
            <name>>public-tagset-05</name>
            <parentTagId>25640613</parentTagId>
```

```
            <created>2022-12-15T05:13:57Z</created>
            <modified>2022-12-15T05:13:57Z</modified>
            <ruleText><?xml version="1.0" encoding="UTF-8"
standalone="yes"?></ruleText>
        <TAG_SET_TAG>
            <INCLUDE_TAG>
               <TAG_LIST>
                 <Tag>
                     <PARENT>24571221</PARENT>
                     <CHILD>24571222</CHILD>
                 </Tag>
                 <Tag>
                     <PARENT>23828415</PARENT>
                     <CHILD>23769612</CHILD>
                 </Tag>
               </TAG_LIST>
             <SCOPE>ANY</SCOPE>
             <INCLUDE_TAG>
             <EXCLUDE_TAG>
               <TAG_LIST>
                   <Tag>
                      <PARENT>21536012</PARENT>
                      <CHILD></CHILD>
                   </Tag>
                   <Tag>
                     <PARENT>23191819</PARENT>
                     <CHILD></CHILD>
                  </Tag>
               </TAG_LIST>
               <SCOPE>ANY</SCOPE>
             </EXCLUDE_TAG>
          </TAG_SET_TAG>]]>
         </ruleText>
         </Tag>
         </data>
         </ServiceResponse>
```

XSD

[<platform API server>](#)/qps/xsd/2.0/am/tag.xsd

Get to know Groovy

Check out the following article on our Community to learn how to create asset tags using the Groovy programming language. You'll also get several Groovy rule examples that you can start using today.

Create Asset Tags using Groovy

Update Tag

/qps/rest/2.0/update/am/tag/<id>

/qps/rest/2.0/update/am/tag

[POST]

Update fields for a tag and collections of tags.

Permissions required - Managers with full scope, other users must have these permissions: Access Permission “API Access”, Tag Permission “Create User Tag”, Tag Permission “Modify Dynamic Tag Rules” (to create a dynamic tag)

Note: You can change the criticality score from tags, but it doesn't get applied immediately to assets. The changed criticality score gets applied only after the next scan.

Input Parameters

Using the NOT EQUALS operator for updating tags could result in accidental update of unknown tags without any warning. To prevent accidental updates of unknown tags, we do not support NOT EQUALS operator for update actions.

Note: Provider name cannot be updated.

Click here for available operators

Parameter	Description
name	(Text) Name of the tag
criticalityScore	(Keyword) Update the asset criticality score for a tag between 1 to 5 with 1 being the lowest and 5 being the highest.
ruleType	(Text) STATIC, GROOVY, OS_REGEX,

	NETWORK_RANGE, NAME_CONTAINS, INSTALLED_SOFTWARE, OPEN_PORTS, VULN_EXIST, ASSET_SEARCH, CLOUD_ASSET, BUSINESS_INFORMATION, GLOBAL_ASSET_VIEW, NETWORK_RANGE, TAG_SET
ruleText	(Text) Define the criteria for the rule
color	Text formatted as #FFFFFF where F can be any value between 0-9 and A-F

Sample 1 - Rename parent tag, remove some child tags

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/tag/12345"
< file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <Tag>
      <name>Parent Tag (Updated)</name>
      <children>
        <remove>
          <TagSimple><id>123</id></TagSimple>
          <TagSimple><id>456</id></TagSimple>
        </remove>
      </children>
    </Tag>
  </data>
</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/2.
0/am/tag.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Tag>
      <id>12345</id>
      <name>Tag</name>
      <created>2014-02-06T19:14:50Z</created>
      <modified>2014-02-06T19:14:50Z</modified>
      <color>#FFFFFF</color>
      <ruleText>asset.installedSoftwares.contains { it.name ==
"Windows" }</ruleText>
      <ruleType>GROOVY</ruleType>
      <children>
        <list>
          <TagSimple>
            <id>1</id>
            <name>Child 1</name>
          </TagSimple>
          <TagSimple>
            <id>2</id>
            <name>Child 2</name>
          </TagSimple>
          <TagSimple>
            <id>3</id>
            <name>Child 3</name>
          </TagSimple>
          <TagSimple>
            <id>123</id>
            <name>Linked Child 1</name>
          </TagSimple>
          <TagSimple>
            <id>456</id>
            <name>Linked Child 2</name>
          </TagSimple>
        </list>
      </children>
    </Tag>
  </data>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

Sample 2 - Update an asset tag with criticality score and tag ID in URL

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --
"https://qualysapi.qualys.com/rest/2.0/update/am/tag/11175413" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
   <data>
     <Tag>
       <name>name change3</name>
       <criticalityScore>5</criticalityScore>
        <children>
         <remove>
          <TagSimple><id>123</id></TagSimple>
          <TagSimple><id>456</id></TagSimple>
        </remove>
       </children>
     </Tag>
    </data>
</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/rest/2
.0/update/am/tag">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <Tag>
            <id>11175413</id>
        </Tag>
    </data>
      </ServiceResponse>
```

Sample 3 - Update the tag color, rule text, rule type, child tag

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --
"https://qualysapi.qualys.com/rest/2.0/update/am/tag/19237412" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
   <data>
     <Tag>
         <color>#FFFFFF</color>
         <ruleType>ASSET_SEARCH</ruleType>
         <ruleText>&lt;?xml version="1.0" encoding="UTF-
8"?&gt;&lt;TAG_CRITERIA&gt;&lt;NETBIOS&gt;
&lt;SEARCH_TYPE&gt;BEGINNING&lt;/SEARCH_TYPE&gt;&lt;SEARCH_TERM&gt;tes
t&lt;/SEARCH_TERM&gt; &lt;/NETBIOS&gt;&lt;/TAG_CRITERIA&gt;</ruleText>
            <children>
                <set>
                    <TagSimple>
                        <name>Child</name>
                    </TagSimple>
                </set>
            </children>
      </Tag>
    </data>
</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/rest/2
.0/update/am/tag">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <Tag>
            <id>19237412</id>
```

```
        </Tag>
    </data>
</ServiceResponse>
```

Sample 4 - Update dynamic tag using rule engine GLOBAL_ASSET_VIEW

API request

```
curl --location --request "POST"
--header 'Authorization: Basic cXVheXNfY2YyOlFhdGVtcEAxMjM='
--header 'Content-Type: application/xml'
--data-raw
"https://qualysapi.qualys.com/rest/2.0/create/am/tag/22446888" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
   <data>
     <Tag>
         <name>Create_Tag_OperatingSystemLifecycleStageEOL1</name>
         <ruleType>GLOBAL_ASSET_VIEW</ruleType>
         <ruleText>operatingSysteem.name:"Linux"</ruleText>
      </Tag>
    </data>
</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/rest/2
.0/update/am/tag.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Tag>
            <id>22446888</id>
        </Tag>
    </data>
```

```
</ServiceResponse>
```

Sample 5 - Update TagSet with ruleText

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"qualys_base_url/qps/rest/2.0/update/am/tag/25681813"
< file.xml>
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
   <data>
     <Tag>
         <ruleType>TAG_SET</ruleType>
         <ruleText> <![CDATA[<?xml version="1.0" encoding="UTF-8"
standalone="yes"?></ruleText>
         <TAG_SET_TAG>
            <INCLUDE_TAG>
               <TAG_LIST>
                 <Tag>
                     <PARENT>18890412</PARENT>
                     <CHILD></CHILD>
                 </Tag>
                 <Tag>
                     <PARENT>18890012</PARENT>
                     <CHILD></CHILD>
                 </Tag>
             </TAG_LIST>
             <SCOPE>ANY</SCOPE>
       </INCLUDE_TAG>
       <EXCLUDE_TAG>
          <TAG_LIST/>
          <SCOPE>ANY</SCOPE>
       </EXCLUDE_TAG>
     </TAG_SET_TAG>]]>
     </ruleText>
       </Tag>
       </data>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="qualys_base_url/qps/xsd/2.0/am/tag.xsd"
>
        <responseCode>SUCCESS</responseCode>
        <count>1</count>
        <data>
            <Tag>
                <id>25681813</id>
            </Tag>
        </data>
</ServiceResponse>
```

Updated XSD

```
<schema xmlns="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://am.oxm.api.portal.qualys.com/v2"
targetNamespace="http://am.oxm.api.portal.qualys.com/v2"
elementFormDefault="qualified">
<complexType name="TagSimple">
<sequence>
<element name="id" type="long"/>
<element name="name" type="string"/>
</sequence>
</complexType>
<simpleType name="TagRuleType">
<restriction base="string">
 <enumeration value="STATIC"/>
 <enumeration value="GROOVY"/>
 <enumeration value="OS_REGEX"/>
 <enumeration value="NETWORK_RANGE"/>
 <enumeration value="NETWORK_RANGE_ENHANCED"/>
 <enumeration value="NAME_CONTAINS"/>
 <enumeration value="INSTALLED_SOFTWARE"/>
 <enumeration value="OPEN_PORTS"/>
 <enumeration value="VULN_EXIST"/>
 <enumeration value="ASSET_SEARCH"/>
 <enumeration value="CLOUD_ASSET"/>
 <enumeration value="BUSINESS_INFORMATION"/>
 <enumeration value="GLOBAL_ASSET_VIEW"/>
 <enumeration value="TAG_SET"/>
 </restriction>
</simpleType>
```

```
...
</complexContent>
</complexType>
</schema>
```

XSD

<platform API server>/qps/xsd/2.0/am/tag.xsd

Search Tags

/qps/rest/2.0/search/am/tag

[POST]

Returns a list of tags that match the provided criteria.

Pagination - A maximum of 100 tags are returned by default. To customize this specify a “preferences” tag in the POST body of your request.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for the tag. Learn more

Permissions required - Managers with full scope, other users must have Access Permission “API Access”

Searchable Fields

Click here for available operators

Parameter	Description
id (Integer)	
name (Text)	
parent (Integer)	
ruleType	GROOVY, OS_REGEX, NETWORK_RANGE, NAME_CONTAINS, INSTALLED_SOFTWARE, OPEN_PORTS, VULN_EXIST, ASSET_SEARCH, CLOUD_ASSET, BUSINESS_INFORMATION
provider	EC2, AZURE, GCP, IBM, OCI, Alibaba
color	Text formatted as #FFFFFF where F can be any value

between 0-9 and A-F

Sample 1 - Find tags with groovy script rules

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/tag" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
       <Criteria field="ruleType" operator="EQUALS">GROOVY</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/2.
0/am/tag.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <hasMoreRecords>true</hasMoreRecords>
  <lastId>10449935</lastId>
  <data>
    <Tag>
      <id>12345</id>
      <name>Tag</name>
      <created>2014-02-06T19:14:50Z</created>
      <modified>2014-02-06T19:14:50Z</modified>
      <color>#FF0000</color>
      <ruleText>asset.installedSoftwares.contains { it.name ==
"Windows" }</ruleText>
      <ruleType>GROOVY</ruleType>
      <children>
        <list>
```

```
            <SimpleTag>
                <id>123</id>
                <name>Red</name>
            </SimpleTag>
        <list>
      </children>
    </Tag>
    <Tag>
      <id>12346</id>
      <name>Another Red Tag</name>
      <created>2014-02-06T19:14:50Z</created>
      <modified>2014-02-06T19:14:50Z</modified>
      <color>#FF0000</color>
      <ruleText>asset.installedSoftwares.contains { it.name ==
"Windows" }</ruleText>
      <ruleType>GROOVY</ruleType>
      <children>
        <list>
            <SimpleTag>
                <id>123</id>
                <name>Red</name>
            </SimpleTag>
        <list>
      </children>
    </Tag>
  </data>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

Sample 2 - Search an asset tag with criticality score

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --
"https://qualysapi.qualys.com/rest/2.0/search/am/tag" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="criticalityScore"
         operator="EQUALS">
        3</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/rest/2
.0/search/am/tag">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <Tag>
            <id>7824612</id>
            <name>critical_3</name>
            <created>2021-06-08T13:09:00Z</created>
            <modified>2021-06-08T13:09:00Z</modified>
            <color>#FFFFFF</color>
            <criticalityScore>3</criticalityScore>
        </Tag>
    </data>
      </ServiceResponse>
```

XSD

[<platform API server>](#)/qps/xsd/2.0/am/tag.xsd

Count Tags

/qps/rest/2.0/count/am/tag

[POST]

Count all the children of a tag.

Permissions required - Managers with full scope, other users must have Access Permission “API Access”

Available Fields

Click here for available operators

Parameter	Description
id (Integer)	
name (Text)	
parent (Integer)	
ruleType	STATIC, GROOVY, OS_REGEX, NETWORK_RANGE, NAME_CONTAINS, INSTALLED_SOFTWARE, OPEN_PORTS, VULN_EXIST, ASSET_SEARCH, CLOUD_ASSET
provider	EC2, AZURE, GCP, IBM, OCI
color	Text formatted as #FFFFFF where F can be any value between 0-9 and A-F

Sample - Get count of all children of tag ID

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/count/am/tag" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
   <filters>
      <Criteria field="parent" operator="EQUALS">12345</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/2.
0/am/tag.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

XSD

<platform API server>/qps/xsd/2.0/am/tag.xsd

Delete Tag

/qps/rest/2.0/delete/am/tag/<id>

/qps/rest/2.0/delete/am/tag

[POST]

Delete one or more tags.

Click here for available operators

Using the NOT EQUALS operator for deleting tags could result in accidental deletion of unknown tags without any warning. To prevent accidental deletion of unknown tags, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with full scope, other users must have these permissions: Access Permission “API Access” and Tag Permission “Delete User Tag”

Sample - Delete tag

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/tag/12345"
```

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/2.
0/am/tag.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <SimpleTag>
      <id>12345</id>
    </SimpleTag>
```

```
  </data>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

XSD

<platform API server>/qps/xsd/2.0/am/tag.xsd

Evaluate Tag (Deprecated)

/qps/rest/2.0/evaluate/am/tag/<id>

/qps/rest/2.0/evaluate/am/tag

[POST]

The Evaluate Tag API is now deprecated. The API was available for subscriptions that support Dynamic tagging and forced re-evaluation of one or more tags. However, now tags are automatically queued for evaluation when their dynamic rule is updated or a new dynamic tag is created from the Qualys Cloud Platform user-interface..

Note: Auto-revaluation is not supported while creating tags via API.

Sample - Deprecation Message for Evaluation API

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/evaluate/am/tag"
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="ruleType" operator="EQUALS">Sample</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/2.
0/am/tag.xsd">
```

```
  <responseCode>INVALID_REQUEST</responseCode>
  <responseErrorDetails>
    <errorMessage>Invalid Request</errorMessage>
    <errorResolution>Evaluate tag using API is no more supported,now
tags are automatically queued for evaluation when their dynamic rule
is updated or a new dynamic tag is created,  please contact support
for more info.</errorResolution>
  </responseErrorDetails>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/tag.xsd

List Users with their tags

/qps/rest/1.0/{action}/admin/user

Get information on users along with their tags to the authorized user. Currently, we support three actions for the users: search, count, and get details of a user.

Permissions required - Managers with full scope, other users must have Access Permission “API Access”

Search users

Search for users by using different filters for user ID, username, email, tags, and module names. If no filter is specified, all users in the user’s scope are listed.

Method: POST

XSD: user.xsd

API request

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

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="username" operator="CONTAINS">10</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/admin/user.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <User>
            <id>3989626</id>
            <username>user_js10</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Smith]]></lastName>
            <emailAddress>john.smith@afco.com</emailAddress>
            <tags>
                <count>1</count>
                <list>
                    <Tag>
                        <id>8721654</id>
                        <name>
                            <![CDATA[Unassigned Business Unit]]>
                        </name>
                    </Tag>
                </list>
            </tags>
            <modules>
                <count>5</count>
                <list>
                    <Module>QWEB_PCI</Module>
                    <Module>WAS</Module>
                    <Module>ADMIN</Module>
                    <Module>ASSET_MANAGEMENT</Module>
                    <Module>QWEB_VM</Module>
                </list>
            </modules>
        </User>
    </data>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

Count users

Returns the total number of users in the user's scope.

Method: POST

XSD: user.xsd

API request

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

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="username" operator="CONTAINS">10</Criteria>
    </filters>
</ServiceRequest>
```

XML output

```
<?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/admin/user.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

Get user details

View details for a user in the user’s scope. You can use search action to find a user ID to use as input.

Method: GET, POST

XSD: user.xsd

API request

```
curl -u "USERNAME:PASSWORD" " -X GET -H "Content-type: text/xml"
```

```
"https://qualysapi.qualys.com/qps/rest/1.0/get/admin/user/3989626" <
file.xml
```

XML output

```
<?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/admin/user.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <User>
            <id>3989626</id>
             <username>user_js10</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Smith]]></lastName>
            <emailAddress>john.smith@afco.com</emailAddress>
            <tags>
                <count>1</count>
                <list>
                    <Tag>
                        <id>8721654</id>
                        <name>
                            <![CDATA[Unassigned Business Unit]]>
                        </name>
                    </Tag>
                </list>
            </tags>
            <modules>
                <count>5</count>
                <list>
                    <Module>WAS</Module>
                    <Module>ADMIN</Module>
                    <Module>QWEB_PCI</Module>
                    <Module>ASSET_MANAGEMENT</Module>
                    <Module>QWEB_VM</Module>
                </list>
            </modules>
        </User>
    </data>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

Tag Fields

Name	Description
parentTagId	(integer)
color	(text)
ruleText	(text)
ruleType	(text) GROOVY, OS_REGEX, NETWORK_RANGE, NAME_CONTAINS, INSTALLED_SOFTWARE, OPEN_PORTS, VULN_EXIST, ASSET_SEARCH, CLOUD_ASSET
provider	(text)
srcAssetGroupId	(integer)
srcBusinessUnitId	(integer)
srcOperatingSystemName	(text)
children	(TagSimpleQList)
description	(text)
Read only fields	
created	(date)
modified	(date)

Associations

TagSimpleQList - Asset tags on the associated asset. This collection to be added to and removed from is provided as a tag ID wrapped in a TagSimple element

TagSimple	
id (long)	tag primary key
name (string)	tag name

Get Tag Info

/qps/rest/2.0/get/am/tag/<id>

[GET]

Returns a single tag by ID.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for the tag. Learn more

Permissions required - Managers with full scope, other users must have Access Permission “API Access”

Sample - Fetch tag

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/tag/12345"
```

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/2.
0/am/tag.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Tag>
      <id>12345</id>
      <name>Test Tag</name>
      <created>2014-02-06T19:14:50Z</created>
      <modified>2014-02-06T19:14:50Z</modified>
      <color>#FFFFFF</color>
      <ruleText>asset.installedSoftwares.contains { it.name ==
"Windows" }</ruleText>
      <ruleType>GROOVY</ruleType>
      <children>
        <list/>
```

```
      </children>
    </Tag>
  </data>
</ServiceResponse>
  <responseCode>SUCCESS</responseCode>
```

XSD

[<platform API server>](#)/qps/xsd/2.0/am/tag.xsd

Host Assets

Get Host Asset Info

/qps/rest/2.0/get/am/hostasset/<id>

[GET]

Returns a single host asset by ID. This API returns additional EC2 metadata of Amazon EC2 hosts when inventoried using the Qualys EC2 Connector.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for the host asset. Learn more about limiting your results

Permissions required - Managers with full scope. Other users must have requested asset in their scope and these permissions: Access Permission “API Access” and Asset Management Permission “Read Asset”

Sample - Fetch host asset ID and list details

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/84021"
```

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/2.
0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <HostAsset>
            <id>84021</id>
            <name>10.10.23.245</name>
```

```
            <created>2018-09-12T06:21:54Z</created>
            <modified>2018-09-13T01:14:34Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>7539414</id>
                        <name>Cloud Agent</name>
                    </TagSimple>
                </list>
            </tags>
            <sourceInfo>
                <list>
                    <AssetSource/>
                </list>
            </sourceInfo>
            <qwebHostId>18903</qwebHostId>
            <os>Microsoft Windows XP Professional 5.1.2600 Service
Pack 3 Build 2600</os>
            <dnsHostName>XPSP2-32-27-145</dnsHostName>
            <netbiosName>XPSP2-32-27-145</netbiosName>
            <address>10.10.23.245</address>
            <trackingMethod>QAGENT</trackingMethod>
            <manufacturer>VMware, Inc.</manufacturer>
            <model>VMware Virtual Platform</model>
            <totalMemory>2047</totalMemory>
            <timezone>-07:00</timezone>
            <biosDescription>INTEL  - 6040000</biosDescription>
            <openPort>
                <list>
                    <HostAssetOpenPort>
                        <port>1900</port>
                        <protocol>UDP</protocol>
                    </HostAssetOpenPort>
                    <HostAssetOpenPort>
                        <port>7055</port>
                        <protocol>TCP</protocol>
                    </HostAssetOpenPort>
                </list>
            </openPort>
            <software>
                <list>
                    <HostAssetSoftware>
```

```
                        <name>Security Update for Windows XP
(KB2347290)</name>
                        <version>1</version>
                    </HostAssetSoftware>
                    <HostAssetSoftware>
                        <name>Security Update for Windows XP
(KB950974)</name>
                        <version>1</version>
                    </HostAssetSoftware>
                </list>
            </software>
            <vuln>
                <list>
                    <HostAssetVuln>
                        <qid>118956</qid>
                      <hostInstanceVulnId>296963</hostInstanceVulnId>
                        <firstFound>2016-02-12T08:42:43Z</firstFound>
                        <lastFound>2016-02-13T01:13:04Z</lastFound>

                    </HostAssetVuln>
                    <HostAssetVuln>
                        <qid>119053</qid>
                        <hostInstanceVulnId>296965</hostInstanceVulnId
>
                        <firstFound>2016-02-12T08:42:43Z</firstFound>
                        <lastFound>2016-02-13T01:13:04Z</lastFound>

                    </HostAssetVuln>
                </list>
            </vuln>
            <processor>
                <list>
                    <HostAssetProcessor>
                        <name>Intel Celeron processor</name>
                        <speed>2799</speed>
                    </HostAssetProcessor>
                </list>
            </processor>
            <volume>
                <list>
                    <HostAssetVolume>
                        <name>A:</name>
                        <size>0</size>
                        <free>0</free>
```

```
                    </HostAssetVolume>
                    <HostAssetVolume>
                        <name>C:</name>
                        <size>16106090496</size>
                        <free>2418925568</free>
                    </HostAssetVolume>
                </list>
            </volume>
            <account>
                <list>
                    <HostAssetAccount>
                        <username>Administrator</username>
                    </HostAssetAccount>
                    <HostAssetAccount>
                        <username>Guest</username>
                    </HostAssetAccount>
                </list>
            </account>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <hostname>XPSP2-32-27-145</hostname>
                        <interfaceName>VMware Accelerated AMD PCNet
Adapter - Packet Scheduler Miniport</interfaceName>
                        <macAddress>00:50:56:A9:46:72</macAddress>
                        <type>LOCAL</type>
                        <address>10.10.23.245</address>
                        <gatewayAddress>10.10.23.1</gatewayAddress>

                    </HostAssetInterface>
                </list>
            </networkInterface>
        </HostAsset>
    </data>
</ServiceResponse>
```


Sample - Fetch host asset ID of AWS EC2 asset and list asset details

Tags for the EC2 asset appear in the <Ec2AssetSourceSimple> element.

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/709838"
```

XML output


```
<?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/2.
0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <HostAsset>
            <id>709838</id>
            <name>my-ec2-target</name>
            <created>2017-07-27T18:14:28Z</created>
            <modified>2017-07-27T18:21:31Z</modified>
            <type>HOST</type>
            <tags>
                <list/>
            </tags>
            <sourceInfo>
                <list>
                    <Ec2AssetSourceSimple>
                        <firstDiscovered>2017-07-
27T18:14:28Z</firstDiscovered>
                        <lastUpdated>2017-07-
27T19:51:03Z</lastUpdated>
                        <assetId>709838</assetId>
                        <ec2InstanceTags>
                            <tags>
                                <list>
                                    <EC2Tags>
                                        <key>Department</key>
                                        <value>Security</value>
                                    </EC2Tags>
                                    <EC2Tags>
                                        <key>Owner</key>
                                        <value>Jason Kim</value>
                                    </EC2Tags>
                                    <EC2Tags>
                                        <key>Email</key>
                                    <value>jkim@acme.com</value>
                                    </EC2Tags>
                                    <EC2Tags>
                                        <key>JIRA</key>
                                        <value>POR-6719</value>
                                    </EC2Tags>
```

```
                                    <EC2Tags>
                                        <key>Name</key>
                                        <value>my-ec2-target</value>
                                    </EC2Tags>
                                    <EC2Tags>
                                        <key>Lifecycle</key>
                                        <value>20171231</value>
                                    </EC2Tags>
                                </list>
                            </tags>
                        </ec2InstanceTags>
                        <availabilityZone>us-east-
1e</availabilityZone>
                        <instanceId>i-023b166432b1c7afc</instanceId>
                        <instanceType>t2.medium</instanceType>
                        <createdDate>2017-07-
27T19:58:34Z</createdDate>
                        <instanceState>STOPPED</instanceState>
                        <groupId>sg-6b619117</groupId>
                        <groupName>default</groupName>
                        <spotInstance>true</spotInstance>
                        <accountId>205767712438</accountId>
                        <subnetId>subnet-7bbbcd56</subnetId>
                        <vpcId>vpc-2da7154b</vpcId>
                        <region>us-east-1</region>
                        <zone>VPC</zone>
                        <imageId>ami-22ce4934</imageId>
                        <publicIpAddress>127.0.0.1</publicIpAddress>
                        <privateIpAddress>10.97.15.117</privateIpAddre
ss>
                        <monitoringEnabled>false</monitoringEnabled>
                    </Ec2AssetSourceSimple>
                </list>
            </sourceInfo>
            <qwebHostId>12864</qwebHostId>
            <os>Linux</os>
            <address>10.97.15.117</address>
            <trackingMethod>INSTANCE_ID</trackingMethod>
            <openPort>
                <list/>
            </openPort>
            <software>
                <list/>
            </software>
```

```
            <vuln>
                <list/>
            </vuln>
            <processor>
                <list/>
            </processor>
            <volume>
                <list/>
            </volume>
            <account>
                <list/>
            </account>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <interfaceId>eni-09f901fe</interfaceId>
                        <interfaceName>Primary network
interface</interfaceName>
                        <type>PRIVATE</type>
                        <address>10.97.15.117</address>
                    </HostAssetInterface>
                </list>
            </networkInterface>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Fetch host asset ID with docker information

Tags for the docker information appear in the <dockerInfo> element.

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/7727721"
```

XML output

```
<?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/2.0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
```

```
    <data>
        <HostAsset>
            <id>7727721</id>
            <name>10.113.198.121</name>
            <created>2018-06-15T11:51:26Z</created>
            <modified>2018-06-15T11:51:26Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>8910214</id>
                        <name>SSD27701</name>
                    </TagSimple>
                    <TagSimple>
                        <id>9252992</id>
                        <name>All_data1</name>
                    </TagSimple>
                </list>
            </tags>
            <qwebHostId>707520</qwebHostId>
            <lastVulnScan>2018-06-15T11:48:58Z</lastVulnScan>
            <os>CentOS Linux 7.2.1511</os>
            <address>10.113.198.121</address>
            <trackingMethod>IP</trackingMethod>
            <openPort>
                <list>
                    <HostAssetOpenPort>
                        <port>8080</port>
                        <protocol>TCP</protocol>
                        <serviceId>1180</serviceId>
                        <serviceName>HyperText Transport
                           Protocol</serviceName>
                    </HostAssetOpenPort>
                </list>
            </openPort>
            <vuln>
                <list>
                    <HostAssetVuln>
                        <qid>45038</qid>
                        <hostInstanceVulnId>151189845</hostInstanceVul
nId>
                        <firstFound>2018-06-15T11:48:58Z</firstFound>
                        <lastFound>2018-06-15T11:48:58Z</lastFound>
                    </HostAssetVuln>
```

```
                </list>
            </vuln>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <type>LOCAL</type>
                        <address>10.113.198.121</address>
                    </HostAssetInterface>
                </list>
            </networkInterface>
            <isDockerHost>true</isDockerHost>
              <dockerInfo>
                <dockerVersion>18.06.0-ce-rc1</dockerVersion>
                <noOfContainers>1</noOfContainers>
                <noOfImages>2</noOfImages>
              </dockerInfo>
         </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Get information for assets in your AWS Cloud

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/13236173"
```

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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Asset>
            <id>13236173</id>
            <name>MHCSTRHEL6-2</name>
            <created>2019-11-12T10:46:30Z</created>
            <modified>2020-01-07T06:26:41Z</modified>
            <type>HOST</type>
            <sourceInfo>
                <list>
```

```
                    <Ec2AssetSourceSimple>
                        <assetId>13236173</assetId>
                        <type>EC_2</type>
                        <firstDiscovered>2019-11-
12T10:46:30Z</firstDiscovered>
                        <lastUpdated>2020-01-
07T06:20:12Z</lastUpdated>
                        <reservationId>r-
03ca004864372ef32</reservationId>
                        <availabilityZone>us-west-
2a</availabilityZone>
                        <instanceId>i-0edf6a42bb540f885</instanceId>
                        <instanceType>t1.micro</instanceType>
                        <createdDate>2020-01-
07T09:09:21Z</createdDate>
                        <instanceState>STOPPED</instanceState>
                        <groupId>sg-7493f147</groupId>
                        <groupName>Red Hat Enterprise Linux -RHEL- 6-
6-5_GA-AutogenByAWSMP-1</groupName>
                        <spotInstance>false</spotInstance>
                        <accountId>XXXXXXXXXXXX</accountId>
                        <region>us-west-2</region>
                        <zone>Classic</zone>
                        <imageId>ami-7df0bd4d</imageId>
                        <monitoringEnabled>false</monitoringEnabled>
                    </Ec2AssetSourceSimple>
                </list>
            </sourceInfo>
        </Asset>
    </data>
</ServiceResponse>
```


Sample - Get information for assets in your Azure Cloud

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/13511567"
```

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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Asset>
            <id>13511567</id>
            <name>VJ-WIndows</name>
            <created>2019-11-27T06:07:16Z</created>
            <modified>2020-01-07T06:21:29Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>107258219</id>
                        <name>Azure</name>
                    </TagSimple>
                </list>
            </tags>
            <sourceInfo>
                <list>
                    <AzureAssetSourceSimple>
                        <assetId>13511567</assetId>
                        <type>AZURE</type>
                        <firstDiscovered>2019-11-
27T06:07:20Z</firstDiscovered>
                        <lastUpdated>2020-01-
07T06:21:29Z</lastUpdated>
                        <azureVmTags>
                            <tags>
                                <list>
                                    <AzureTags>
                                        <key>Owner</key>
                                        <value>John Doe</value>
                                    </AzureTags>
                                    <AzureTags>
                                        <key>Department</key>
                                        <value>Engineering</value>
                                    </AzureTags>
                                </list>
                            </tags>
                        </azureVmTags>
                        <name>VJ-WIndows</name>
```

```
                        <location>centralindia</location>
                        <vmSize>Standard_A3</vmSize>
                        <vmId>b3fdb9ed-2564-4eaa-9e1b-
7aeb6c196c92</vmId>
                        <offer>Windows-10</offer>
                        <state>RUNNING</state>
                        <state>SUCCEEDED</state>
                        <publisher>MicrosoftWindowsDesktop</publisher>
                        <version>latest</version>
                        <osType>Windows</osType>
                        <subnet>default</subnet>
                        <subscriptionId>XXXXXXXX-XXXX-XXXX-XXXX-
XXXXXXXXXXXX</subscriptionId>
                        <resourceGroupName>DefaultResourceGroup-
CIN</resourceGroupName>
                        <macAddress>00-0D-3A-F0-98-3F</macAddress>
                        <publicIpAddress>52.172.151.254</publicIpAddre
ss>
                        <privateIpAddress>10.0.0.5</privateIpAddress>
                        <virtualNetwork>CV-VirtualMachines-RG-
vnet</virtualNetwork>
                    </AzureAssetSourceSimple>
                </list>
            </sourceInfo>
        </Asset>
    </data>
</ServiceResponse>
```

Sample - Get information for assets in your GCP Cloud

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/13511567"
```

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/2.
0/am/hostasset.xsd">
<responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
```

```
        <Asset>
            <id>13569298</id>
            <name>gcp-1-quays-aw8 0</name>
            <created>2019-12-02T09:32:45Z</created>
            <modified>2020-01-02T07:03:03Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>106777848</id>
                        <name>Cloud Agent</name>
                    </TagSimple>
                    <TagSimple>
                        <id>107007013</id>
                        <name>gcp</name>
                    </TagSimple>
                </list>
            </tags>
            <sourceInfo>
                <list>
                    <GcpAssetSourceSimple>
                        <assetId>13569298</assetId>
                        <type>GCP</type>
                        <firstDiscovered>2019-12-
02T09:32:46Z</firstDiscovered>
                        <lastUpdated>2019-12-
02T09:32:46Z</lastUpdated>
                        <instanceId>2152878541443265280</instanceId>
                        <hostname>gcp-1-quays-aw8.c.qvsa-
dev.internal</hostname>
                        <machineType>n1-standard-1</machineType>
                        <imageId>projects/centoscloud/global/images/ce
ntos-6-v20191014</imageId>
                        <zone>us-central1-a</zone>
                        <projectIdNo>1035365309337</projectIdNo>
                        <state>RUNNING</state>
                        <projectId>test_account</projectId>
                        <network>default</network>
                        <macAddress>42:01:0a:f0:00:a4</macAddress>
                        <publicIpAddress>34.67.172.38</publicIpAddress
>
                        <privateIpAddress>10.240.0.164</privateIpAddre
ss>
                    </GcpAssetSourceSimple>
```

```
                    <AssetSource/>
                </list>
            </sourceInfo>
        </Asset>
    </data>
```

Sample - Get host asset API returns criticality score for a host asset

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "GET" --
"https://qualysapi.qualys.com/rest/2.0/get/am/hostasset/3052446"
```

XML output

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/rest/2
.0/search/am/hostasset">
     <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <HostAsset>
            <id>3052446</id>
            <name>hkencrtest</name>
            <created>2020-02-06T09:29:23Z</created>
            <modified>2020-10-27T11:56:50Z</modified>
            <type>HOST</type>
            <tags>
                ...            </sourceInfo>
            <criticalityScore>2</criticalityScore>
            <os>Linux</os>
            <dnsHostName>hkencrtest</dnsHostName>
            <address>13.71.5.220</address>
            <trackingMethod>VIRTUAL_MACHINE_ID</trackingMethod>
            <networkInterface>
                ...
            </networkInterface>
            <isDockerHost>false</isDockerHost>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Fetch HostAsset using BMC Helix Tracking Method

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "GET" --
"https://qualysapi.qualys.com/rest/2.0/get/am/hostasset/3052446"
```

XML output


```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="<qualys_base_url>/qps/xsd/2.0/am/hostas
set
.xsd">
      <responseCode>SUCCESS</responseCode>
      <count>1</count>
      <hasMoreRecords>false</hasMoreRecords>
      <data>
          <HostAsset>
              <id>XXXXXXXX</id>
              <name>teams-test</name>
              <created>2022-12-14T13:40:18Z</created>
              <modified>2022-12-14T16:34:34Z</modified>
              <type>HOST</type>
              <tags>
                  <list>
                     <TagSimple>
                         <id>XXXXXXXX</id>
                         <name>reeval-
asset.isContainerHost:false</name>
                     </TagSimple>
                     <TagSimple>
                         <id>XXXXXXXX</id>
                         <name>Ani-All-AG-BU</name>
                    </TagSimple>
                 </list>
  </tags>
  <criticalityScore>5</criticalityScore>
  <qwebHostId>3120230</qwebHostId>
  <lastVulnScan>2022-04-02T00:39:36Z</lastVulnScan>
  <lastSystemBoot>2022-03-24T17:23:37Z</lastSystemBoot>
  <lastLoggedOnUser>US\t0031289</lastLoggedOnUser>
  <fqdn>teams-test</fqdn>
  <os>Windows 10 Pro 64 bit Edition Version 21H2 UBR 1586</os>
```

```
<dnsHostName>teams-test</dnsHostName>
<netbiosName>C237288</netbiosName>
<address>10.x.x.x</address>
<trackingMethod>BMC Helix</trackingMethod>
<model>Latitude 5410</model>
<totalMemory>15980</totalMemory>
<biosDescription>Dell Inc. 1.2.16</biosDescription>
<openPort>
   <list>
      <HostAssetOpenPort>
          <port>57153</port>
          <protocol>UDP</protocol>
          <serviceName>TEAMS.EXE</serviceName>
     </HostAssetOpenPort>
     <HostAssetOpenPort>
          <port>53634</port>
          <protocol>UDP</protocol>
          <serviceName>SSDP DISCOVERY</serviceName>
          </HostAssetOpenPort>
  </list>
</openPort>
<software>
 <list>
     <HostAssetSoftware>
        <name>PuTTY release 0.76 (64-bit)</name>
        <version>0.76.0.0</version>
     </HostAssetSoftware>
     <HostAssetSoftware>
        <name>Mitel Connect</name>
        <version>214.100.1223.0</version>
     </HostAssetSoftware>
 </list>
</software>
<vuln>
<list>
    <HostAssetVuln>
       <qid>105241</qid>
       <hostInstanceVulnId>175973706</hostInstanceVulnId>
       <firstFound>2020-09-09T21:11:32Z</firstFound>
       <lastFound>2022-04-02T00:39:36Z</lastFound>
   </HostAssetVuln>
   <HostAssetVuln>
      <qid>45063</qid>
      <hostInstanceVulnId>175973709</hostInstanceVulnId>
```

```
        <firstFound>2020-09-09T21:11:32Z</firstFound>
        <lastFound>2022-04-02T00:39:36Z</lastFound>
    </HostAssetVuln>
  </list>
  </vuln>
  <processor>
  <list>
   <HostAssetProcessor>
       <name>Intel64 Family 6 Model 142 Stepping 12</name>
    </HostAssetProcessor>
   <HostAssetProcessor>
       <name>Intel64 Family 6 Model 142 Stepping 12</name>
    </HostAssetProcessor>
  </list>
  </processor>
  <networkInterface>
   <list>
   <HostAssetInterface>
      <hostname>teams-test</hostname>
      <interfaceName>Intel(R) Wi-Fi 6 AX201 160MHz</interfaceName>
      <macAddress>xx:D9:AC:xx:CC:xx</macAddress>
      <address>1.2.3.4</address>
      <gatewayAddress>1.0.0.1</gatewayAddress>
   </HostAssetInterface>
   <HostAssetInterface>
      <hostname>teams-test</hostname>
      <interfaceName>Cisco AnyConnect Secure Mobility Client Virtual
Miniport Adapter for Windows x64</interfaceName>
      <macAddress>xx:05:xx:3O:xx:xx</macAddress>
      <address>1.2.3.4</address>
   </HostAssetInterface>
  </list>
  </networkInterface>
      <isDockerHost>false</isDockerHost>
 </HostAsset>
 </data>
 </ServiceResponse>
 </ServiceResponse>
```


XSD

[<platform API server>](#)/qps/xsd/2.0/am/hostasset.xsd

Create Host Asset

/qps/rest/2.0/create/am/hostasset

[POST]

Create one or more host assets using writable fields and collections. It is a good idea to attach tags that will make new assets visible to the current user if that user does not have permission to see all assets. Otherwise users will not be able to see or modify the new assets until an administrator or process attaches the appropriate tags to them.

What's next? After you've created host assets you need to activate them to make them available for scanning and reporting. Learn more on Activating Host Assets

Permissions required - Managers with full scope. Other users must have these permissions: Access Permission “API Access” and Asset Management Permission “Create Asset”.

We have restricted our asset create requests to static tags and have excluded dynamic tags. With this release, we will decline a request if the request contains TagSimple list having a dynamic tag for add/remove/set operation. The request is processed if it contains only static tags.

In case of the set operation, if the request includes static tags, then the existing static tags are removed and new static tags (specified in the request) are applied on that particular asset. All the existing system or dynamic tags are retained as is. You cannot add or remove dynamic tags manually.

Sample - Create new host asset with tags

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/hostasset" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <HostAsset>
      <name>My Windows Asset</name>
      <os>Windows 7</os>
      <dnsHostName>localhost</dnsHostName>
      <netbiosName>TEST</netbiosName>
      <netbiosNetworkId>10</netbiosNetworkId>
      <networkGuid>66bf43c8-7392-4257-b856-a320fde231eb</networkGuid>
      <address>127.0.0.1</address>
      <trackingMethod>IP</trackingMethod>
      <tags>
        <set>
          <TagSimple><id>12345</id></TagSimple>
          <TagSimple><id>54321</id></TagSimple>
        </set>
      </tags>
      <software>
        <set>
          <HostAssetSoftware>
            <name>Photoshop</name>
            <version>9</version>
          </HostAssetSoftware>
        </set>
      </software>
    </HostAsset>
  </data>
</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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>2020094</id>
      <name>My Windows Asset</name>
      <created>2018-09-06T19:16:35Z</created>
```

```
      <modified>2018-09-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>12345</id>
            <name>Tag 1</name>
          </TagSimple>
          <TagSimple>
            <id>54321</id>
            <name>Tag 2</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list/>
      </sourceInfo>
      <os>Windows 7</os>
      <dnsHostName>localhost</dnsHostName>
      <netbiosName>TEST</netbiosName>
      <netbiosNetworkId>10</netbiosNetworkId>
      <networkGuid>66bf43c8-7392-4257-b856-a320fde231eb</networkGuid>
      <address>127.0.0.1</address>
      <trackingMethod>IP</trackingMethod>
      <openPort>
        <list/>
      </openPort>
      <software>
        <list/>
      </software>
      <vuln>
        <list/>
      </vuln>
    </HostAsset>
  </data>
</ServiceResponse>
```

Sample - Bulk creation of assets

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
```

```
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/hostasset" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <HostAsset>
            <name>My Windows Asset</name>
            <os>Windows 8</os>
            <dnsHostName>localhost13</dnsHostName>
          <netbiosName>TEST</netbiosName>
          <netbiosNetworkId>10</netbiosNetworkId>
          <networkGuid>66bf43c8-7392-4257-b856-
a320fde231eb</networkGuid>
          <address>13.0.0.1</address>
          <trackingMethod>IP</trackingMethod>
            <software>
                <set>
                    <HostAssetSoftware>
                        <name>Photoshop</name>
                        <version>9</version>
                    </HostAssetSoftware>
                </set>
            </software>
        </HostAsset>
        <HostAsset>
            <name>My Windows Asset</name>
            <os>Windows 8</os>
            <dnsHostName>localhost14</dnsHostName>
          <netbiosName>TEST</netbiosName>
          <netbiosNetworkId>10</netbiosNetworkId>
          <networkGuid>66bf43c8-7392-4257-b856-
a320fde231eb</networkGuid>
          <address>14.0.0.1</address>
          <trackingMethod>IP</trackingMethod>
            <software>
                <set>
                    <HostAssetSoftware>
                        <name>Photoshop</name>
                        <version>9</version>
                    </HostAssetSoftware>
```

```
                </set>
            </software>
        </HostAsset>
    </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>2</count>
    <data>
        <HostAsset>
            <id>2899060</id>
            <name>My Windows Asset</name>
            <created>2016-04-01T16:57:50Z</created>
            <modified>2016-04-01T16:57:50Z</modified>
            <type>HOST</type>
            <tags>
                <list/>
            </tags>
            <sourceInfo>
                <list/>
            </sourceInfo>
            <os>Windows 8</os>
            <dnsHostName>localhost13</dnsHostName>
            <netbiosName>TEST</netbiosName>
            <netbiosNetworkId>10</netbiosNetworkId>
            <networkGuid>66bf43c8-7392-4257-b856-
a320fde231eb</networkGuid>
            <address>13.0.0.1</address>
            <trackingMethod>IP</trackingMethod>
            <openPort>
                <list/>
            </openPort>
            <software>
                <list>
                    <HostAssetSoftware>
                        <name>Photoshop</name>
                        <version>9</version>
```

```
                    </HostAssetSoftware>
                </list>
            </software>
            <vuln>
                <list/>
            </vuln>
            <processor>
                <list/>
            </processor>
            <volume>
                <list/>
            </volume>
            <account>
                <list/>
            </account>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <hostname>localhost13</hostname>
                        <type>LOCAL</type>
                        <address>13.0.0.1</address>
                    </HostAssetInterface>
                </list>
            </networkInterface>
        </HostAsset>
        <HostAsset>
            <id>2899061</id>
            <name>My Windows Asset</name>
            <created>2016-04-01T16:57:51Z</created>
            <modified>2016-04-01T16:57:51Z</modified>
            <type>HOST</type>
            <tags>
                <list/>
            </tags>
            <sourceInfo>
                <list/>
            </sourceInfo>
            <os>Windows 8</os>
            <dnsHostName>localhost14</dnsHostName>
            <netbiosName>TEST</netbiosName>
            <netbiosNetworkId>10</netbiosNetworkId>
            <networkGuid>66bf43c8-7392-4257-b856-
a320fde231eb</networkGuid>
            <address>14.0.0.1</address>
```

```
            <trackingMethod>IP</trackingMethod>
            <openPort>
                <list/>
            </openPort>
            <software>
                <list>
                    <HostAssetSoftware>
                        <name>Photoshop</name>
                        <version>9</version>
                    </HostAssetSoftware>
                </list>
            </software>
            <vuln>
                <list/>
            </vuln>
            <processor>
                <list/>
            </processor>
            <volume>
                <list/>
            </volume>
            <account>
                <list/>
            </account>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <hostname>localhost14</hostname>
                        <type>LOCAL</type>
                        <address>14.0.0.1</address>
                    </HostAssetInterface>
                </list>
            </networkInterface>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Create host asset with tags

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/hostasset"<
file.xml
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <HostAsset>
            <name>Windows 95</name>
            <tags>
             <add>
              <TagSimple><id>11175413</id></TagSimple>
             </add>
            </tags>
          <os>Windows 7</os>
           <dnsHostName>localhost</dnsHostName>
           <netbiosName>TEST</netbiosName>
           <netbiosNetworkId>10</netbiosNetworkId>
           <networkGuid>66bf43c8-7392-4257-b856-
a320fde231eb</networkGuid>
           <address>255.255.255.0</address>
          <trackingMethod>IP</trackingMethod>
            <software>
                <set>
                    <HostAssetSoftware>
                        <name>Photoshop</name>
                        <version>9</version>
                    </HostAssetSoftware>
                </set>
            </software>
        </HostAsset>
    </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/a
m/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <HostAsset>
            <id>7992387</id>
```

```
            <name>Windows 95</name>
            <created>2021-03-08T13:00:29Z</created>
            <modified>2021-03-08T13:00:29Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                 <TagSimple>
                  <id>11175413</id>
                  <name>Static</name>
                 </TagSimple>
               </list>
            </tags>
            <os>Windows 7</os>
            <dnsHostName>localhost13</dnsHostName>
            <netbiosName>TEST</netbiosName>
            <netbiosNetworkId>10</netbiosNetworkId>
            <networkGuid>66bf43c8-7392-4257-b856-
a320fde231eb</networkGuid>
            <address>255.255.255.0</address>
            <trackingMethod>IP</trackingMethod>
            <software>
                <list>
                    <HostAssetSoftware>
                        <name>Photoshop</name>
                        <version>9</version>
                    </HostAssetSoftware>
                </list>
            </software>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <hostname>localhost13</hostname>
                        <type>LOCAL</type>
                        <address>255.255.255.0</address>
                    </HostAssetInterface>
                </list>
            </networkInterface>
        </HostAsset>
    </data>
</ServiceResponse>
```


XSD

[<platform API server>](#)/qps/xsd/2.0/am/hostasset.xsd

Update Host Asset

/qps/rest/2.0/update/am/hostasset/<id>

/qps/rest/2.0/update/am/hostasset

[POST]

Update fields for a host asset and collections of host assets.

Using the NOT EQUALS operator for updating host assets could result in accidental update of unknown hosts assets without any warning. To prevent accidental updates of unknown host assets, we do not support NOT EQUALS operator for update actions.

Permissions required - Managers with full scope, other users must have the requested assets in their scope and these permissions: Access Permission “API Access” and Asset Management Permission “Update Asset”.

We have restricted our asset update requests to static tags and have excluded dynamic tags. With this release, we will decline a request if the request contains TagSimple list having a dynamic tag for add/remove/set operation. The request is processed if it contains only static tags.

In case of the set operation, if the request includes static tags, then the existing static tags are removed and new static tags (specified in the request) are applied on that particular asset. All the existing system or dynamic tags are retained as is. You cannot add or remove dynamic tags manually.

Sample - Update some fields for host asset ID

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/hostasset/12345"
< file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <Asset><data>
    <HostAsset>
      <name>Updated Name</name>
      <os>WINDOWS 95</os>
      <dnsHostName>win95.old.corp.net</dnsHostName>
    </HostAsset>
  </data>
</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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>2020094</id>
      <name>Updated Name</name>
      <os>WINDOWS 95</os>
      <dnsHostName>win95.old.corp.net</dnsHostName>
      <created>2018-09-06T19:16:35Z</created>
      <modified>2018-09-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list />
      </tags>
      <sourceInfo>
        <list/>
      </sourceInfo>
      <netbiosName>TEST</netbiosName>
      <netbiosNetworkId>10</netbiosNetworkId>
      <networkGuid>66bf43c8-7392-4257-b856-a320fde231eb</networkGuid>
      <address>127.0.0.1</address>
      <trackingMethod>IP</trackingMethod>
      <openPort>
        <list/>
      </openPort>
      <software>
```

```
        <list/>
      </software>
      <vuln>
        <list/>
      </vuln>
    </HostAsset>
  </data>
</ServiceResponse>
```

Sample - Update some fields for host assets that have names containing the word OLD

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/hostasset" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">OLD</Criteria>
  </filters>
  <data>
    <HostAsset>
      <tags>
        <add>
          <TagSimple><id>12345</id></TagSimple>
        </add>
        <remove>
          <TagSimple><id>54321</id><TagSimple>
        </remove>
      </tags>
      <software>
        <set>
          <HostAssetSoftware>
            <name>Windows</name>
            <version>95</name>
          </HostAssetSoftware>
```

```
        </set>
      </software>
      <openPort>
        <add>
          <HostAssetOpenPort>
            <port>8080</port>
          <protocol>TCP</protocol>
            </HostAssetOpenPort>
        </add>
      </openPort>
    </HostAsset>
  </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>2020094</id>
      <name>Updated Name</name>
      <os>WINDOWS 95</os>
      <dnsHostName>win95.old.corp.net</dnsHostName>
      <created>2014-02-06T19:16:35Z</created>
      <modified>2014-02-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>12345</id>
            <name>Simple Tag 1</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list/>
      </sourceInfo>
      <netbiosName>TEST</netbiosName>
      <netbiosNetworkId>10</netbiosNetworkId>
```

```
      <networkGuid>66bf43c8-7392-4257-b856-a320fde231eb</networkGuid>
      <address>127.0.0.1</address>
      <trackingMethod>IP</trackingMethod>
      <openPort>
        <list>
          <HostAssetOpenPort>
            <port>8080</port>
            <protocol>TCP</protocol>
          </HostAssetOpenPort>
        </list>
      </openPort>
      <software>
        <list>
          <HostAssetSoftware>
            <name>Windows</name>
            <version>95</version>
          </HostAssetSoftware>
        </list>
      </software>
      <vuln>
        <list/>
      </vuln>
    </HostAsset>
  </data>
</ServiceResponse>
```

Sample - Request to add tags to a host asset

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/hostasset/3458268
"<
file.xml

Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
<data>
<HostAsset>
<tags><add>
<TagSimple><id>11307825</id></TagSimple>
```

```
</add>
</tags>
</HostAsset>
</data>
</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/2.
0/a
m/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>3458268</id>
    </HostAsset>
  </data>
</ServiceResponse>
```

Sample - Update HostAsset for BMC Helix

API request

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
     <filters>
          <Criteria field="id" operator="IN">19059383
          </Criteria>
          </filters>
     <data>
     <HostAsset>
          <tags>
          <add>
               <TagSimple>
                    <id>87832867</id>
               </TagSimple>
          </add>
          </tags>
     </HostAsset>
     </data>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="<qualys_base_url>/qps/xsd/2.0/am/hostas
set
.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
     <HostAsset>
        <id>19059383</id>
     </HostAsset>
   </data>
</ServiceResponse>
```

XSD Response

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
 targetNamespace="http://api.portal.qualys.com/v2"
 xmlns:tns="http://api.portal.qualys.com/v2"
 xmlns:common="http://api.portal.qualys.com/common"
 elementFormDefault="qualified">
    <include schemaLocation="asset.xsd" />
    <include schemaLocation="asset_common.xsd" />
    <include schemaLocation="agent_source.xsd" />
    <import namespace="http://api.portal.qualys.com/common"
     schemaLocation="http://api.portal.qualys.com/common/qualys_common
.xsd" />
    <simpleType name="AssetTrackingMethod">
    <restriction base="string">
...
     <enumeration value="PASSIVE_SCANNER" />
     <enumeration value="GCP_INSTANCE_ID" />
     <enumeration value="SHODAN" />
     <enumeration value="PASSIVE_SENSOR" />
     <enumeration value="EASM" />
     <enumeration value="ICS_OCA" />
     <enumeration value="SERVICE_NOW" />
     <enumeration value="ACTIVE_DIRECTORY" />
     <enumeration value="BMC Helix" />
   </restriction>
   </simpleType>
   <complexType name="HostAssetOpenPort">
```

```
  <sequence>
    <element name="port" type="integer" />
    <element name="protocol" minOccurs="0" type="tns:Protocol"/>
  </sequence>
 </complexType>
    <complexType name="HostAssetOpenPortQList">
  <sequence>
    <element name="count" type="int" maxOccurs="1" minOccurs="0"/>
  </sequence>
</complexType>
...
   <complexType name="HostAssetSoftware">
  <sequence>
    <element name="name" type="string" />
    <element name="version" type="string" default="unkown" />
  </sequence>
</complexType>
</schema>
```

XSD

<platform API server>/qps/xsd/2.0/am/hostasset.xsd

Search Host Assets

/qps/rest/2.0/search/am/hostasset

[POST]

Returns a list of host assets matching the provided criteria. Assets are returned when they are visible to the user (i.e. in the user's scope).

Pagination - A maximum of 100 host assets are returned by default. To customize this specify a "preferences" tag in the POST body of your request.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each host asset. Learn more about limiting your results

Permissions required - Managers with full scope, other users must have these permissions: Access Permission "API Access" and Asset Management Permission "Read Asset"

Searchable fields

Click here for available operators

Parameter	Description
qwebHostId	(integer)
lastVulnScan	(date)
lastComplianceScan	(date)
informationGatheredUpdated	(date)
os	(text)

dnsHostName	(text)
address	(text)
vulnsUpdated	(date)
id	(integer)
name	(text)
created	(date)
type	(text)
netbiosName	(string)
netbiosNetworkID	(text)
networkGuid	(text)
trackingMethod	(AssetTrackingMethod: NONE, ICS_OCA, IP, DNSNAME, NETBIOS, INSTANCE_ID, QAGENT, GCP_INSTANCE_ID (only for GCP instances), SHODAN, PASSIVE_SENSOR, EASM, WEBHOOK,ACTIVE_DIRECTORY,SERVICE_NOW, BMC Helix
port	(integer)
installedSoftware	(text)
tagName	(text)
tagId	(integer)
updated	(date) Modified date in output.

Assets with cloud agents

activationKey	(string) Allowed operator: EQUALS
agentConfigurationName	(string) Allowed operators: EQUALS, CONTAINS
agentConfigurationId	(long) Allowed operator: EQUALS
agentVersion	(string) Allowed operators: EQUALS, LESSER, GREATER
lastCheckedIn	(date) Allowed operators: EQUALS, LESSER, GREATER
cloudProviderType	(text) AWS, AZURE, IBM, OCI, GCP, Alibaba
EC2 assets	
region	(text) Specify the region code for the AWS region. For example, ap-northeast-1, us-east-2, eu-west-3, etc.
vpcId	(text) The ID of your Amazon VPC.
imageId	(text) ID of the Amazon Machine Image (AMI).
instanceId	(text) EC2 Instance ID.
accountId	(text) Amazon account ID.
instanceState	(text) EC2 Instance state. For example, PENDING, RUNNING, TERMINATED, STOPPED, etc.
subnetId	(text) ID of the subnet where your instance is located (when Amazon VPC is used).
privateDnsName	(text) The private DNS name of the instance.

awsTagKey	(text) EC2 instance tags. For example, Owner, Department, Email, Lifecycle, Name, etc.
awsTagValue	(text) Values for the AWS Tag keys.

For EC2 assets, apart from instanceState, awsTagKey, and awsTagValue, all other parameters are case sensitive. All EC2 parameters support text input with EQUALS operator. Additionally, the instanceState parameter supports EQUALS, NOT EQUALS. The awsTagKey and awsTagValue parameters support EQUALS, CONTAINS.

Alibaba Assets	
aliHostName	(string) The hostname of the instance. For example: iZa2djeoxsg0wxcophdfaxZ
aliImageId	(string) The Id of the image used during the instance creation process. For example: ubuntu_14_0405_64_20G_alibase_20170824.vhd
aliInstanceId	(string) The ID of the instance. For example: i-a2djeoxsg0wxcophdfax
aliMacAddress	(string) The MAC address of the instance. If the instance has multiple network interface controllers (NICs), only the MAC address of eth0 is displayed. For example: 00:16:3e:0f:XX:XX
aliNetworkType	The network type of the instance. Only instances that reside in virtual private clouds (VPCs) are supported. For example: vpc
aliInstanceType	(string) The type of the instance. For example: ecs.g6e.large
aliAccountId	(text) The Id of the Alibaba cloud account to which the instance belongs. For example: 1609****

aliPrivateIp	(string) The private IPv4 address assigned to the NIC. For example: 192.168.XX.XX
aliPublicIp	(string) The public IPv4 address of the instance. For example: 149.xx.xx.xx
aliRegion	(text) The region to which the instance belongs. For example: ap-south-1
aliZone	(string) The zone to which the instance belongs.
aliVpcCIDR	(integer) The CIDR block of the VPC that an instance is in. For example: 172.xx.0.xx/16
aliVpcId	(string) The Id of the virtual private cloud (VPC) to which the instance belongs. For example: vpc-a2d6pc0293vvdadd5yikj
aliSerialNumber	(string) The serial number of the instance. For example: 12tre43e6r-3er4-er43-rtg4-89r76t45
alivSwitchId	(string) The Id of the switch to which the instance is connected. For example: vsw-a2d5goa9k20sqx1m05hdd
alivSwitchCIDR	(integer) The CIDR block of the switch to which the instance is connected. For example: 192.168.XX.XX/24
aliNetworkInterfaceId	(string) The identifier of the NIC. For example: eni-a2d39qixai21eetux572
alidnsServer	(integer) The Domain Name System (DNS) configurations of the instance. For example: 100.xx.x.136
aliState	(text) The state of the instance in Alibaba. Valid values: RUNNING, TERMINATED, STOPPED.

Azure Assets	
vmId	(text) The ID of your VM instance.
subscriptionId	(text) Your unique Microsoft Azure subscription ID.
location	(text) Specify the location code for the Azure region. For example, centralindia, westus2.
state VM	(keyword) The Instance state. You can specify one of the following states:STARTING, RUNNING, STOPPING, STOPPED, DEALLOCATED, DEALLOCATING, DELETED.
subnet	(text) ID of the subnet where your VM instance is located (when Azure VPC is used).
resourceGroup	(text) Type of the resource group to which the VM instance belongs.
resourceGroupName	(text) Name of the resource group type to which the VM instance belongs.
privateIpAddress	(text) The private IP address of the VM instance.
publicIpAddress	(text) The public IP address of the VM instance.
azureTagKey	(text) VM instance tags. For example, Owner, Department, Email, Lifecycle, Name, etc.
azureTagValue	(text) Values for the VM instance tag keys.
imageOffer	(text) Image offer of the VM instance.
imageVersion	(text) Image version of the VM instance.

IBM	
ibmId	(value) The ID of your IBM resource.
ibmTagKey	(value) Tag key of the IBM resource.
ibmTagValue	(value) Value of the IBM resource tag.
datacenterId	(value) ID of the datacenter in which the IBM resource if located.
ibmLocation	(value) Name of datacenter in which the IBM resource if located.
Oracle Cloud Compute instances (OCI)	
ociId	(string) The ID of your OCI.
compartmentId	(string) The compartment ID of your OCI.
hostName	(string) OCI asset host name.
ociTagKey	(string) OCI tags in lowercase. For example, owner, department, email, lifecycle, name, etc.
ociTagValue	(string) Values for the OCI tag keys.
id	(string) OCI asset ID.
ociRegion	(text) Specify the region code for the OCI region.
Note: For Oracle Cloud Compute instances, ociTagKey, and ociTagValue, all other parameters are case sensitive. All parameters support text input with EQUALS operator. The ociTagKey and ociTagValue parameters support EQUALS, CONTAINS.	

Sample - Search host assets

Find host assets with a Windows operating system that are tracked by Instance ID

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="os" operator="EQUALS">Windows</Criteria>
        <Criteria field="trackingMethod"
operator="EQUALS">INSTANCE_ID</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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
 <hasMoreRecords>true</hasMoreRecords>
 <lastId>5693290</lastId>
  <data>
    <HostAsset>
      <id>2020094</id>
      <name>Updated Name</name>
      <os>Windows</os>
      <dnsHostName>win95.old.corp.net</dnsHostName>
      <created>2018-09-06T19:16:35Z</created>
      <modified>2018-09-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list />
      </tags>
      <sourceInfo>
```

```
        <list/>
      </sourceInfo>
      <netbiosName>TEST</netbiosName>
      <netbiosNetworkId>10</netbiosNetworkId>
      <networkGuid>66bf43c8-7392-4257-b856-
       a320fde231eb</networkGuid>
      <address>127.0.0.1</address>
      <trackingMethod>INSTANCE_ID</trackingMethod>
      <openPort>
        <list/>
      </openPort>
      <software>
        <list/>
      </software>
      <vuln>
        <list/>
      </vuln>
    </HostAsset>
  </data>
</ServiceResponse>
```

Sample - Find cloud agents with a specific agent version

API request

```
curl -u fo_username:password -X POST -H "X-Requested-With: curl" -H
"Content-Type: text/xml" -H "Cache-Control: no-cache" --data-binary
@host_asset_search.xml
"http://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset/"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="agentVersion"
         operator="EQUALS">1.4.5.168</Criteria>
        <Criteria field="tagName" operator="EQUALS">Cloud
         Agent</Criteria>
    </filters>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0
/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>6</count>
    <hasMoreRecords>false</hasMoreRecords>
    <lastId>5693290</lastId>
    <data>
        <HostAsset>
            <id>3043442</id>
            <name>102115-M83</name>
            <created>2016-11-04T11:43:40Z</created>
            <modified>2016-11-08T22:35:53Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>8832525</id>
                        <name>Cloud Agent</name>
                    </TagSimple>
                </list>
            </tags>
            <sourceInfo>
                <list>
                    <AssetSource/>
                </list>
            </sourceInfo>
            <qwebHostId>12688456922</qwebHostId>
            <dnsHostName>102115-M83</dnsHostName>
            <agentInfo>
                <agentVersion>1.4.5.168</agentVersion>
                <agentId>2e689bb2-53ab-4a58-be0a-
                 a7576964f310</agentId>
                <status>STATUS_INACTIVE</status>
                <lastCheckedIn>2016-10-21T19:03:30Z</lastCheckedIn>
                <connectedFrom>10.100.11.163</connectedFrom>
                <chirpStatus>Manifest Downloaded</chirpStatus>
                <platform>Windows</platform>
                <agentConfiguration>
                    <id>8099</id>
                    <name>Initial Profile - SSN3</name>
                </agentConfiguration>
                <activationKey>
```

```
                    <activationId>3ae32b8d-a8cf-4c0e-a477-
                     86fad2dda4f4</activationId>
                    <title>harshal</title>
                </activationKey>
            </agentInfo>
            <netbiosName>102115-M83</netbiosName>
            <address>10.100.11.163</address>
            <trackingMethod>QAGENT</trackingMethod>
            <openPort>
                <list/>
            </openPort>
            <software>
                <list/>
            </software>
            <vuln>
                <list/>
            </vuln>
            <processor>
                <list/>
            </processor>
            <volume>
                <list/>
            </volume>
            <account>
                <list/>
            </account>
            <networkInterface>
                <list/>
            </networkInterface>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Find host assets with specific ID containing docker information

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
 <filters>
 <Criteria field="id" operator="EQUALS">7727721</Criteria>
 </filters>
</ServiceRequest>
```

XML output

```
<?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/2.0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <lastId>5693290</lastId>
    <data>
        <HostAsset>
            <id>7727721</id>
            <name>10.113.198.121</name>
            <created>2018-06-15T11:51:26Z</created>
            <modified>2018-06-15T11:51:26Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>8910214</id>
                        <name>SSD27701</name>
                    </TagSimple>
                    <TagSimple>
                        <id>9252992</id>
                        <name>All_data1</name>
                    </TagSimple>
                </list>
            </tags>
            <qwebHostId>707520</qwebHostId>
            <lastVulnScan>2018-06-15T11:48:58Z</lastVulnScan>
            <os>CentOS Linux 7.2.1511</os>
            <address>10.113.198.121</address>
            <trackingMethod>IP</trackingMethod>
            <openPort>
                <list>
```

```
                    <HostAssetOpenPort>
                        <port>8080</port>
                        <protocol>TCP</protocol>
                        <serviceId>1180</serviceId>
                        <serviceName>HyperText Transport
                          Protocol</serviceName>
                    </HostAssetOpenPort>
                </list>
            </openPort>
            <vuln>
                <list>
                    <HostAssetVuln>
                        <qid>6</qid>
                        <hostInstanceVulnId>151189838</hostInstanceVul
nId>
                        <firstFound>2018-06-15T11:48:58Z</firstFound>
                        <lastFound>2018-06-15T11:48:58Z</lastFound>
                    </HostAssetVuln>
                    <HostAssetVuln>
                        <qid>45038</qid>
                        <hostInstanceVulnId>151189845</hostInstanceVul
nId>
                        <firstFound>2018-06-15T11:48:58Z</firstFound>
                        <lastFound>2018-06-15T11:48:58Z</lastFound>
                    </HostAssetVuln>
                </list>
            </vuln>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <type>LOCAL</type>
                        <address>10.113.198.121</address>
                    </HostAssetInterface>
                </list>
            </networkInterface>
            <isDockerHost>true</isDockerHost>
              <dockerInfo>
                <dockerVersion>18.06.0-ce-rc1</dockerVersion>
                <noOfContainers>1</noOfContainers>
                <noOfImages>2</noOfImages>
              </dockerInfo>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Find host assets with specific ID containing split manifest version information for VM, PC, or SCA

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
 <filters>
 <Criteria field="id" operator="EQUALS">7866685</Criteria>
 </filters>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <lastId>5693290</lastId>
    <data>
        <HostAsset>
            <id>7866685</id>
            <name>ip-172-31-3-82.ap-south-1.compute.internal</name>
            <created>2018-08-01T09:34:44Z</created>
            <modified>2018-08-10T08:39:49Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>10125654</id>
                        <name>Cloud Agent</name>
                    </TagSimple>
                </list>
```

```
            </tags>
            <sourceInfo>
                <list>
                    <AssetSource/>
                    <Ec2AssetSourceSimple>
                        <assetId>7866685</assetId>
                        <type>EC_2</type>
                        <firstDiscovered>2018-08-
01T09:34:45Z</firstDiscovered>
                        <lastUpdated>2018-08-
01T09:34:45Z</lastUpdated>
                        <reservationId>r-
0cd44450f874d4a08</reservationId>
                        <availabilityZone>ap-south-
1b</availabilityZone>
                        <privateDnsName>ip-172-31-3-82.ap-south-
1.compute.internal</privateDnsName>
                        <publicDnsName>ec2-13-232-170-59.ap-south-
1.compute.amazonaws.com</publicDnsName>
                        <localHostname>ip-172-31-3-82.ap-south-
1.compute.internal</localHostname>
                        <instanceId>i-0ce729520a8a7d696</instanceId>
                        <instanceType>t2.micro</instanceType>
                        <instanceState>RUNNING</instanceState>
                        <groupId>sg-608b270a</groupId>
                        <groupName>launch-wizard-4</groupName>
                        <spotInstance>false</spotInstance>
                        <accountId>383031258652</accountId>
                        <subnetId>subnet-5a0d6a17</subnetId>
                        <vpcId>vpc-39ccea50</vpcId>
                        <region>ap-south-1</region>
                        <zone>VPC</zone>
                        <imageId>ami-5b673c34</imageId>
                        <publicIpAddress>13.232.170.59</publicIpAddres
s>
                        <privateIpAddress>172.31.3.82</privateIpAddres
s>
                        <macAddress>0a:da:e8:58:09:fe</macAddress>
                        <monitoringEnabled>false</monitoringEnabled>
                    </Ec2AssetSourceSimple>
                </list>
            </sourceInfo>
            <qwebHostId>753424</qwebHostId>
```

```
            <lastComplianceScan>2018-08-
10T00:25:12Z</lastComplianceScan>
            <lastVulnScan>2018-08-10T04:55:06Z</lastVulnScan>
            <lastSystemBoot>2018-08-01T09:23:42Z</lastSystemBoot>
            <lastLoggedOnUser>ec2-user</lastLoggedOnUser>
            <os>Red Hat Enterprise Linux Server 7.5</os>
            <dnsHostName>ip-172-31-3-82.ap-south-
1.compute.internal</dnsHostName>
            <agentInfo>
                <agentVersion>1.7.1.38</agentVersion>
                <agentId>66fb864e-9609-4324-8eec-
48ab6cb7f260</agentId>
                <status>STATUS_ACTIVE</status>
                <lastCheckedIn>2018-08-10T08:39:42Z</lastCheckedIn>
                <connectedFrom>13.232.170.59</connectedFrom>
                <location>Mumbai,Maharashtra India</location>
                <locationGeoLatitude>18.975</locationGeoLatitude>
                <locationGeoLongtitude>72.8258</locationGeoLongtitude>
                <chirpStatus>Inventory Scan Complete</chirpStatus>
                <platform>Linux</platform>
                <activatedModule>AGENT_VM</activatedModule>
                <manifestVersion>
                    <vm>VULNSIGS-VM-0.12.1.0-17</vm>
                    <pc>VULNSIGS-PC-0.17.0.0-27</pc>
                </manifestVersion>
                <agentConfiguration>
                    <id>514001</id>
                    <name>My Default</name>
                </agentConfiguration>
                <activationKey>
                    <activationId>f9391862-de71-4106-9478-
ca14042980dd</activationId>
                    <title>AWS</title>
                </activationKey>
            </agentInfo>
            <networkGuid>6b48277c-0742-61c1-82bb-
cac0f9c4094a</networkGuid>
            <address>13.232.170.59</address>
            <trackingMethod>QAGENT</trackingMethod>
            <totalMemory>990</totalMemory>
            <timezone>UTC</timezone>
            <openPort>
                <list>
                    <HostAssetOpenPort>
```

```
                        <port>323</port>
                        <protocol>UDP</protocol>
                    </HostAssetOpenPort>
...
                </list>
            </openPort>
            <software>
                <list>
                    <HostAssetSoftware>
                        <name>GeoIP</name>
                        <version>1.5.0-11.el7</version>
                    </HostAssetSoftware>
                    <HostAssetSoftware>
                        <name>NetworkManager</name>
                        <version>1.10.2-13.el7</version>
                    </HostAssetSoftware>
                    ...
                </list>
            </software>
            <vuln>
                <list>
                    <HostAssetVuln>
                        <qid>370198</qid>
                        <hostInstanceVulnId>157377851</hostInstanceVul
nId>
                        <firstFound>2018-08-06T10:08:37Z</firstFound>
                        <lastFound>2018-08-10T04:55:06Z</lastFound>
                    </HostAssetVuln>
                    <HostAssetVuln>
                        <qid>370472</qid>
                        <hostInstanceVulnId>157377852</hostInstanceVul
nId>
                        <firstFound>2018-08-06T10:08:37Z</firstFound>
                        <lastFound>2018-08-10T04:55:06Z</lastFound>
                    </HostAssetVuln>
                    ...
                </list>
            </vuln>
            <processor>
                <list>
                    <HostAssetProcessor>
                        <name>Intel(R) Xeon(R)</name>
                        <speed>2400</speed>
                    </HostAssetProcessor>
```

```
                </list>
            </processor>
            <volume>
                <list>
                    <HostAssetVolume>
                        <name>/</name>
                        <size>10724814848</size>
                        <free>9259859968</free>
                    </HostAssetVolume>
                    ...
                </list>
            </volume>
            <account>
                <list>
                    <HostAssetAccount>
                        <username>root</username>
                    </HostAssetAccount>
                    <HostAssetAccount>
                        <username>ec2-user</username>
                    </HostAssetAccount>
                </list>
            </account>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <interfaceName>eth0</interfaceName>
                        <macAddress>0a:da:e8:58:09:fe</macAddress>
                        <type>LOCAL</type>
                        <address>fe80:0:0:0:8da:e8ff:fe58:9fe</address
>
                        <gatewayAddress>172.31.0.1</gatewayAddress>
                    </HostAssetInterface>
                    ...
                </list>
            </networkInterface>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Search host assets using EC2 attributes

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
```

```
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset" <
file.xml
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <filters>
    <Criteria field="region" operator="EQUALS">ap-northeast-
1</Criteria>
    <Criteria field="vpcId" operator="EQUALS">vpc-98a11ffd</Criteria>
    <Criteria field="accountId"
operator="EQUALS">205767712438</Criteria>
    <Criteria field="privateDnsName" operator="EQUALS">ip-172-30-1-
133.ap-
      northeast-1.compute.internal</Criteria>
  </filters>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <lastId>5693290</lastId>
    <data>
        <HostAsset>
            <id>1553126</id>
            <name>ip-172-30-1-133</name>
            <created>2018-12-03T09:10:18Z</created>
            <modified>2018-12-08T10:14:40Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>7977614</id>
                        <name>Cloud Agent</name>
                    </TagSimple>
```

```
                </list>
            </tags>
            <sourceInfo>
                <list>
                    <AssetSource/>
                    <Ec2AssetSourceSimple>
                        <assetId>1553126</assetId>
                        <type>EC_2</type>
                        <firstDiscovered>2018-12-
                           03T09:10:18Z</firstDiscovered>
                        <lastUpdated>2018-12-
03T09:10:18Z</lastUpdated>
                        <reservationId>r-
08a2a6ee33b3acd9f</reservationId>
                        <availabilityZone>ap-northeast-
                            1b</availabilityZone>
                        <privateDnsName>ip-172-30-1-133.ap-northeast-
                            1.compute.internal</privateDnsName>
                        <localHostname>ip-172-30-1-133.ap-northeast-
                            1.compute.internal</localHostname>
                        <instanceId>i-07081d0a8ab051d80</instanceId>
                        <instanceType>t2.micro</instanceType>
                        <instanceState>RUNNING</instanceState>
                        <groupId>sg-9a08a0e3</groupId>
                        <groupName>launch-wizard-12</groupName>
                        <accountId>205767712438</accountId>
                        <subnetId>subnet-5c198e2b</subnetId>
                        <vpcId>vpc-98a11ffd</vpcId>
                        <region>ap-northeast-1</region>
                        <zone>VPC</zone>
                        <imageId>ami-92df37ed</imageId>
                        <publicIpAddress>13.113.179.242</publicIpAddre
ss>
                        <privateIpAddress>172.30.1.133</privateIpAddre
ss>
                        <macAddress>06:c2:ed:39:19:98</macAddress>
                    </Ec2AssetSourceSimple>
                </list>
            </sourceInfo>
            <qwebHostId>294355</qwebHostId>
            <lastComplianceScan>2018-12-
08T01:45:34Z</lastComplianceScan>
            <lastVulnScan>2018-12-08T07:14:58Z</lastVulnScan>
            <lastSystemBoot>2018-05-25T06:06:35Z</lastSystemBoot>
```

```
            <lastLoggedOnUser>ec2-user</lastLoggedOnUser>
            <os>Amazon Linux 2018.03</os>
            <dnsHostName>ip-172-30-1-133</dnsHostName>
            <agentInfo>
                <agentVersion>2.3.0.20</agentVersion>
                <agentId>f6e1a6be-a99a-4d79-a5b1-
f339aeaf8095</agentId>
                <status>STATUS_INACTIVE</status>
                <lastCheckedIn>2018-12-08T07:15:20Z</lastCheckedIn>
                <connectedFrom>13.113.179.242</connectedFrom>
                <location>Tokyo,Tokyo Japan</location>
                <locationGeoLatitude>35.685</locationGeoLatitude>
                <locationGeoLongtitude>139.7514</locationGeoLongtitude
>
                <chirpStatus>Inventory Scan Complete</chirpStatus>
                <platform>Linux</platform>
                <activatedModule>AGENT_VM,AGENT_PC,FIM</activatedModul
e>
                <manifestVersion>
                    <vm>VULNSIGS-VM-0.19.0.0-34</vm>
                    <pc>VULNSIGS-PC-0.19.0.0-34</pc>
                </manifestVersion>
                <agentConfiguration>
                    <id>166800</id>
                    <name>27-March</name>
                </agentConfiguration>
                <activationKey>
                    <activationId>8d988825-5685-4dcf-8d14-
                      0fde25eab037</activationId>
                    <title>september-2018</title>
                </activationKey>
            </agentInfo>
            <networkGuid>6b48277c-0742-61c1-82bb-
               cac0f9c4094a</networkGuid>
            <address>13.113.179.242</address>
            <trackingMethod>QAGENT</trackingMethod>
            <totalMemory>987</totalMemory>
            <timezone>UTC</timezone>
            <openPort>
                <list>
                    <HostAssetOpenPort>
                        <port>57091</port>
                        <protocol>UDP</protocol>
                    </HostAssetOpenPort>
```

```
                ...
            </list>
        </openPort>
        <software>
            <list>
                <HostAssetSoftware>
                    <name>acl</name>
                    <version>2.2.49-6.11.amzn1</version>
                </HostAssetSoftware>
                ...
            </list>
        </software>
        <vuln>
            <list>
                <HostAssetVuln>
                    <qid>38582</qid>
                    <hostInstanceVulnId>88353071</hostInstanceVuln
Id>
                    <firstFound>2018-12-03T22:07:32Z</firstFound>
                    <lastFound>2018-12-08T07:14:58Z</lastFound>
                </HostAssetVuln>
                ...
            </list>
        </vuln>
        <processor>
            <list>
                <HostAssetProcessor>
                    <name>Intel(R) Xeon(R)</name>
                    <speed>2400</speed>
                </HostAssetProcessor>
            </list>
        </processor>
        <volume>
            <list>
                <HostAssetVolume>
                    <name>/dev</name>
                    <size>506937344</size>
                    <free>506880000</free>
                </HostAssetVolume>
                ...
            </list>
        </volume>
        <account>
            <list>
```

```
                    <HostAssetAccount>
                        <username>root</username>
                    </HostAssetAccount>
                    <HostAssetAccount>
                        <username>ec2-user</username>
                    </HostAssetAccount>
                </list>
            </account>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <hostname>ip-172-30-1-133</hostname>
                        <interfaceName>eth0      Link
encap</interfaceName>
                        <macAddress>06:C2:ED:39:19:98</macAddress>
                        <type>LOCAL</type>
                        <address>172.30.1.133</address>
                        <gatewayAddress>172.30.1.1</gatewayAddress>
                    </HostAssetInterface>
                  ...
                </list>
            </networkInterface>
            <isDockerHost>false</isDockerHost>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Search host assets using Alibaba attributes

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
databinary
@- "https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset"
< file.xml
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
            <Criteria field="aliInstanceId" operator="EQUALS">i-
2vc9f0kid1ljxld3harf</Criteria>
```

```
            <Criteria field="aliRegion"
operator="EQUALS">cnchengdu</Criteria>
            <Criteria
field="aliAccountId"operator="EQUALS">5XXXXXXXXXXXXXX4</Criteria>
    </filters>
</ServiceRequest>
```

XML output


```
<?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/2.
0/a
m/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
<data>
  <HostAsset>
  <id>22156587</id>
  <name>alibaba_cloud_2.1903</name>
  <created>2023-02-28T07:18:21Z</created>
  <modified>2023-02-28T15:10:48Z</modified>
  <type>HOST</type>
  <tags>
    <list>
       <TagSimple>
           <id>22852814</id>
           <name>DynTag-06-01</name>
       </TagSimple>
       <TagSimple>
           <id>21233812</id>
           <name>My Tag</name>
       </TagSimple>
       <TagSimple>
           <id>16541442</id>
           <name>Cloud Agent</name>
       </TagSimple>
    </list>
 </tags>
<sourceInfo>
   <list>
   <AssetSource/>
       <AlibabaAssetSourceInfoSimple>
```

```
          <assetId>21897147</assetId>
          <type>ALIBABA</type>
          <firstDiscovered>2023-02-21T11:54:39Z</firstDiscovered>
          <lastUpdated>2023-03-06T11:41:20Z</lastUpdated>
          <hostName>iZ2vc9f0kid1ljxld3harfZ</hostName>
          <imageId>aliyun_2_1903_x64_20G_alibase_20220727.vhd</imageI
d>
          <instanceId>i-2vc9f0kid1ljxld3harf</instanceId>
          <macAddress>00:16:xx:xx:b2:xx</macAddress>
          <networkType>vpc</networkType>
          <instanceType>ecs.t5-lc1m2.small</instanceType>
          <accountId>XXXXXXXXXXXXXXXX</accountId>
          <privateIp>172.xx.xx.xx</privateIp>
          <publicIp>47.xx.xx.241</publicIp>
          <region>cn-chengdu</region>
          <zone>cn-chengdu-a</zone>
          <vpcCidr>172.xx.0.0/12</vpcCidr>
          <vpcId>vpc-2vcoalvud4d8dgzvtw617</vpcId>
          <serialNumber>c6452655-5895-44a6-
863c8e8512d1ddc1</serialNumber>
          <vSwitchId>vsw-2vcne3n3wxdptf8gwvaqw</vSwitchId>
          <vSwitchCIDR>172.xx.xx.0/xx</vSwitchCIDR>
          <networkInterfaceId>eni-
2vc2sges56b6pv6vf40c</networkInterfaceId>
          <dnsServer>100.xx.xx.xx,100.xx.xx.xx</dnsServer>
          <state>RUNNING</state>
      </AlibabaAssetSourceInfoSimple>
    <AssetSource/>
  </list>
  </sourceInfo>
  <qwebHostId>3223441</qwebHostId>
  <fqdn>alibaba_cloud_X.XXXX</fqdn>
  <os>Microsoft Windows 10 Microsoft Windows 10 Pro 10.0.17134 Build
17134 Microsoft Windows 10 Pro 10.0.18362 Build 18362</os>
  <dnsHostName>alibaba_cloud_2.1903</dnsHostName>
  <agentInfo>
     <agentVersion>4.7.14.0</agentVersion>
     <agentId>bbbc2bf1-0907-4cee-9a89-9836ddcfde36</agentId>
     <status>STATUS_ACTIVE</status>
     <lastCheckedIn>2023-02-28T07:22:53Z</lastCheckedIn>
     <connectedFrom>10.xx.xx.xx</connectedFrom>
     <chirpStatus>Provisioned</chirpStatus>
     <platform>Windows</platform>
```

```
     <activatedModule>AGENT_VM,AGENT_PM,ICS,AGENT_PC,IOC,FIM,AGENT_LC<
/activatedModule>
     <agentConfiguration/>
     <activationKey>
        <activationId>4ffcecd6-a1f1-4a0b-ad50-
c19168fea23d</activationId>
        <title>UPDATE1</title>
      </activationKey>
  </agentInfo>
  <netbiosName>alibaba_cloud_2.1903</netbiosName>
  <networkGuid>6b48277c-0742-61c1-82bbcac0f9c4094a</networkGuid>
  <address>10.xx.215.xx</address>
  <trackingMethod>QAGENT</trackingMethod>
  <isDockerHost>false</isDockerHost>
  </HostAsset>
 </data>
 </ServiceResponse>
```

Sample - Search host assets using Azure attributes

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset" <
file.xml
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <filters>
        <Criteria field="vmId" operator="EQUALS">399af5dc-c32a-4c40-
95a5-c6ed0e786430</Criteria>
        <Criteria field="subscriptionId" operator="EQUALS">XXXXXXXX-
XXXX-XXXX-XXXX-XXXXXXXXXXXX</Criteria>
        <Criteria field="state" operator="EQUALS">DELETED</Criteria>
    </filters>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
  <count>9</count>
  <hasMoreRecords>false</hasMoreRecords>
  <lastId>5693290</lastId>
  <data>
    <HostAsset>
      <id>2584223</id>
      <name>user_john</name>
      <created>2019-03-04T13:12:30Z</created>
      <modified>2019-03-07T13:37:02Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>7517812</id>
            <name>Sample Tag</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list>
          <AzureAssetSourceSimple>
            <assetId>2545223</assetId>
            <type>AZURE</type>
            <firstDiscovered>2019-03-04T13:13:59Z</firstDiscovered>
            <lastUpdated>2019-05-09T08:51:37Z</lastUpdated>
            <azureVmTags>
              <tags>
                <list>
                  <AzureTags>
                    <key>Owner</key>
                    <value>John</value>
                  </AzureTags>
                </list>
              </tags>
            </azureVmTags>
            <name>sample_resource</name>
            <location>centralindia</location>
            <vmSize>Standard_B1s</vmSize>
            <vmId>399af5dc-c32a-4c40-95a5-c6ed0e786430</vmId>
            <offer>CentOS</offer>
```

```
            <state>SUCCEEDED</state>
            <state>DELETED</state>
            <publisher>OpenLogic</publisher>
            <version>latest</version>
            <osType>Linux</osType>
            <subnet>default</subnet>
            <subscriptionId>XXXXXXXX-XXXX-XXXX-XXXX-
XXXXXXXXXXXX</subscriptionId>
         <resourceGroupName>sample_resource_group_name</resourceGroupN
ame>
            <privateIpAddress>172.17.1.5</privateIpAddress>
          </AzureAssetSourceSimple>
        </list>
      </sourceInfo>
      <qwebHostId>41049</qwebHostId>
      <fqdn>sample_resource_fqdn</fqdn>
      <os>Linux</os>
      <dnsHostName>sample_resource_dns</dnsHostName>
      <trackingMethod>VIRTUAL_MACHINE_ID</trackingMethod>
      <networkInterface>
        <list>
          <HostAssetInterface>
            <type>PRIVATE</type>
            <address>172.16.1.4</address>
          </HostAssetInterface>
        </list>
      </networkInterface>
      <isDockerHost>false</isDockerHost>
    </HostAsset>
...
  </data>
</ServiceResponse>
```

Sample - Search host asset API returns criticality score for a host asset

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --
"https://qualysapi.qualys.com/rest/2.0/search/am/hostasset" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="name">
         operator="EQUALS">hkencrtest</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/rest/2
.0/search/am/hostasset">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
<data>
    <HostAsset>
    <id>3052446</id>
    <name>hkencrtest</name>
    <created>2020-02-06T09:29:23Z</created>
    <modified>2020-10-27T11:56:50Z</modified>
    <type>HOST</type>
    <tags>
        <list>
            <TagSimple>
                <id>13309029</id>
                <name>test-name-tagk8s</name>
        </TagSimple>
...
        <name>hkencrtest</name>
        <location>centralindia</location>
        <vmSize>Standard_B1ls</vmSize>
        <vmId>bdb01734-17de-4a8b-a846-1fdc0c4ebd90</vmId>
        <offer>UbuntuServer</offer>
        <state>DELETED</state>
        <publisher>Canonical</publisher>
        <version>latest</version>
        <osType>Linux</osType>
        <subnet>default</subnet>
        <subscriptionId>9de9e0a7-4f67-4812-917d-
2246853844e1</subscriptionId>
        <resourceGroupName>hktest10</resourceGroupName>
```

```
        <macAddress>00-0D-3A-3E-2A-EE</macAddress>
        <publicIpAddress>13.71.5.220</publicIpAddress>
        <privateIpAddress>172.16.0.4</privateIpAddress>
        </AzureAssetSourceSimple>
    </list>
</sourceInfo>
<criticalityScore>2</criticalityScore>
<fqdn>hkencrtest</fqdn>
...
```

Sample - Searching IBM assets in your account

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset" <
file.xml
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <filters>
    <Criteria field="ibmId" operator="EQUALS">64486457</Criteria>
  </filters>
</ServiceRequest>
```

XML output

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0
/am/hostasset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <HostAsset>
            <id>1940247</id>
            <name>COMW8X86-34-160</name>
            <created>2018-08-22T09:36:57Z</created>
            <modified>2021-11-08T03:48:10Z</modified>
```

```
            <type>HOST</type>
            <sourceInfo>
                <list>
                    <IBMAssetSourceSimple>
                        <assetId>1940247</assetId>
                        <type>IBM</type>
                        <ibmId>64486457</ibmId>
                        <location>wdc07</location>
                        <datacenterId>2017603</datacenterId>
                        <deviceName>&quot;sme-centos01.Qualys-
                           Inc.cloud&quot;</deviceName>
                        <publicVlan>1330,1234</publicVlan>
                        <domain>Qualys-Inc.cloud</domain>
                        <privateVlan>1473,1474,1500</privateVlan>
                        <publicIpAddress>10.10.10.111</publicIpAddress
>
                        <privateIpAddress>10.10.10.111</privateIpAddre
ss>
                    </IBMAssetSourceSimple>
                    <AssetSource/>
                </list>
            </sourceInfo>
            <qwebHostId>27103</qwebHostId>
            <lastSystemBoot>2018-11-01T18:44:32Z</lastSystemBoot>
            <lastLoggedOnUser>root</lastLoggedOnUser>
            <domain>WORKGROUP</domain>
            <fqdn>sme-win01.Qualys-Inc.cloud.WORKGROUP</fqdn>
            <os>CentOS Linux 7.5.1804</os>
            <dnsHostName>sme-win01.Qualys-Inc.cloud</dnsHostName>
            <agentInfo>
                <agentVersion>2.1.0.494</agentVersion>
                <agentId>6710851f-1d18-4b2a-ac05-
ea972e10ebb5</agentId>
                <status>STATUS_ACTIVE</status>
                <lastCheckedIn>2021-11-08T03:48:10Z</lastCheckedIn>
                <connectedFrom>10.10.10.111</connectedFrom>
                <chirpStatus>Inventory Scan Complete</chirpStatus>
                <platform>Windows</platform>
                <activatedModule>AGENT_PC</activatedModule>
                <agentConfiguration>
                    <id>10001</id>
                    <name>Suspend SelfPatch</name>
                </agentConfiguration>
                <activationKey>
```

```
                <activationId>28cf22f0-89a4-459c-b9ae-
                    bc661901c4ff</activationId>
                <title>Accuracy T34 PC Windows</title>
            </activationKey>
        </agentInfo>
        <address>10.10.10.111</address>
        <trackingMethod>QAGENT</trackingMethod>
        <manufacturer>Xen</manufacturer>
        <model>HVM domU</model>
        <totalMemory>986</totalMemory>
        <timezone>-05:00</timezone>
        <biosDescription>Xen 4.7.5-1.21
08/13/2018</biosDescription>
        <openPort>
            <list>
                <HostAssetOpenPort>
                    <port>5353</port>
                    <protocol>UDP</protocol>
                </HostAssetOpenPort>
                ...
            </list>
        </openPort>
        <software>
            <list>
                <HostAssetSoftware>
                    <name>cronie-anacron</name>
                    <version>1.4.11-19.el7</version>
                </HostAssetSoftware>
                <HostAssetSoftware>
                    <name>groff-base</name>
                    <version>1.22.2-8.el7</version>
                </HostAssetSoftware>
                ...
            </list>
        </software>
        <processor>
            <list>
                <HostAssetProcessor>
                    <name>Intel(R) Xeon(R) Gold 6130</name>
                    <speed>2100</speed>
                </HostAssetProcessor>
            </list>
        </processor>
        <volume>
```

```
                <list>
                    <HostAssetVolume>
                        <name>/</name>
                        <size>24694149120</size>
                        <free>22382100480</free>
                    </HostAssetVolume>
                    ...
                </list>
            </volume>
            <account>
                <list>
                    <HostAssetAccount>
                        <username>root</username>
                    </HostAssetAccount>
                    ...
                </list>
            </account>
            <networkInterface>
                <list>
                    <HostAssetInterface>
                        <interfaceName>eth1</interfaceName>
                        <macAddress>06:d2:2b:49:8d:9e</macAddress>
                        <type>LOCAL</type>
                        <address>fe80:0:0:0:4d2:2bff:fe49:8d9e</addres
s>
                        <gatewayAddress>169.61.80.145</gatewayAddress>
                    </HostAssetInterface>
                  ...
                </list>
            </networkInterface>
            <isDockerHost>false</isDockerHost>
        </HostAsset>
    </data>
</ServiceResponse>
```

Sample - Search HostAsset using BMC Helix tracking Method

API request

```
curl --location --request POST '/qps/rest/2.0/search/am/hostasset/' \
--header 'Authorization: Basic cXVheXNfY2YyOlFhdGVtcEAxMjM=' \ --
header 'Content-Type: application/xml' \ --data-raw ' BMC Helix '
```

XML output


```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="<qualys_base_url>/qps/xsd/2.0/am/hostas
set
.xsd">
      <responseCode>SUCCESS</responseCode>
      <count>1</count>
      <hasMoreRecords>false</hasMoreRecords>
      <data>
           <HostAsset>
              <id>XXXXXXXX</id>
              <name>teams-test</name>
              <created>2022-12-14T13:40:18Z</created>
              <modified>2022-12-14T16:34:34Z</modified>
              <type>HOST</type>
              <tags>
                   <list>
                        <TagSimple>
                            <id>XXXXXXXX</id>
                            <name>reeval-
asset.isContainerHost:false</name>
                        </TagSimple>
                        <TagSimple>
                            <id>XXXXXXXX</id>
                            <name>Ani-All-AG-BU</name>
                        </TagSimple>
                   </list>
             </tags>
             <criticalityScore>5</criticalityScore>
             <qwebHostId>3120230</qwebHostId>
             <lastVulnScan>2022-04-02T00:39:36Z</lastVulnScan>
             <lastSystemBoot>2022-03-24T17:23:37Z</lastSystemBoot>
             <lastLoggedOnUser>US\t0031289</lastLoggedOnUser>
             <fqdn>teams-test</fqdn>
             <os>Windows 10 Pro 64 bit Edition Version 21H2 UBR
1586</os>
             <dnsHostName>teams-test</dnsHostName>
             <netbiosName>C237288</netbiosName>
             <address>10.x.x.x</address>
             <trackingMethod>BMC Helix</trackingMethod>
             <model>Latitude 5410</model>
             <totalMemory>15980</totalMemory>
             <biosDescription>Dell Inc. 1.2.16</biosDescription>
```

```
            <openPort>
                     <list>
                        <HostAssetOpenPort>
                              <port>57153</port>
                              <protocol>UDP</protocol>
                              <serviceName>TEAMS.EXE</serviceName>
                         </HostAssetOpenPort>
                           <HostAssetOpenPort>
                                <port>53634</port>
                                <protocol>UDP</protocol>
                                <serviceName>SSDP
                                DISCOVERY</serviceName>
                           </HostAssetOpenPort>
                      </list>
            </openPort>
            <software>
                  <list>
                     <HostAssetSoftware>
                         <name>PuTTY release 0.76 (64-bit)</name>
                         <version>0.76.0.0</version>
                    </HostAssetSoftware>
                    <HostAssetSoftware>
                        <name>Mitel Connect</name>
                        <version>214.100.1223.0</version>
                   </HostAssetSoftware>
                 </list>
          </software>
          <vuln>
          <list>
           <HostAssetVuln>
              <qid>105241</qid>
              <hostInstanceVulnId>175973706</hostInstanceVulnId>
              <firstFound>2020-09-09T21:11:32Z</firstFound>
              <lastFound>2022-04-02T00:39:36Z</lastFound>
           </HostAssetVuln>
           <HostAssetVuln>
             <qid>45063</qid>
             <hostInstanceVulnId>175973709</hostInstanceVulnId>
             <firstFound>2020-09-09T21:11:32Z</firstFound>
             <lastFound>2022-04-02T00:39:36Z</lastFound>
          </HostAssetVuln>
        </list>
      </vuln>
      <processor>
```

```
       <list>
          <HostAssetProcessor>
           <name>Intel64 Family 6 Model 142 Stepping 12</name>
          </HostAssetProcessor>
          <HostAssetProcessor>
           <name>Intel64 Family 6 Model 142 Stepping 12</name>
          </HostAssetProcessor>
      </list>
      </processor>
      <networkInterface>
      <list>
         <HostAssetInterface>
           <hostname>teams-test</hostname>
           <interfaceName>Intel(R) Wi-Fi 6 AX201
160MHz</interfaceName>
           <macAddress>xx:D9:AC:xx:CC:xx</macAddress>
           <address>1.2.3.4</address>
           <gatewayAddress>1.0.0.1</gatewayAddress>
       </HostAssetInterface>
       <HostAssetInterface>
          <hostname>teams-test</hostname>
          <interfaceName>Cisco AnyConnect Secure Mobility Client
Virtual Miniport Adapter for Windows x64</interfaceName>
          <macAddress>xx:05:xx:3O:xx:xx</macAddress>
          <address>1.2.3.4</address>
      </HostAssetInterface>
     </list>
     </networkInterface>
     <isDockerHost>false</isDockerHost>
 </HostAsset>
 </data>
 </ServiceResponse>
```


XSD

[<platform API server>](#)/qps/xsd/2.0/am/hostasset.xsd

Count Host Assets

/qps/rest/2.0/count/am/hostasset

[POST]

Returns the number of host assets that match the provided criteria. A host asset is counted when the asset is visible to the user (i.e. it is in the user's scope).

Permissions required - Managers with full scope. Other users must have these permissions: Access Permission "API Access" and Asset Management Permission "Read Asset"

Searchable fields

Click here for available operators

Parameter	Description
qwebHostId	(integer)
lastVulnScan	(date)
lastComplianceScan	(date)
informationGatheredUpdated	(date)
os	(text)
dnsHostName	(text)
address	(text)
vulnsUpdated	(date)

id	(integer)
name	(text)
created	(date)
type	(text)
netbiosName	(string)
netbiosNetworkID	(text)
networkGuid	(text)
trackingMethod	(keyword) NONE, IP, DNSNAME, NETBIOS, INSTANCE_ID, QAGENT
port	(integer)
installedSoftware	(text)
tagName	(text)
tagId	(integer)
update	(date)

Sample - Count host assets

API request

```
curl -u "USERNAME:PASSWORD" -X POST --data-binary @-
https://qualysapi.qualys.com/qps/rest/2.0/count/am/hostasset -H
vContent-Type: application/xml" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="os" operator="EQUALS">Windows</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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>235</count>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/hostasset.xsd

Delete Host Asset

/qps/rest/2.0/delete/am/hostasset/<id>

/qps/rest/2.0/delete/am/hostasset

[POST]

Delete one or more host assets.

Using the NOT EQUALS operator for deleting host assets could result in accidental deletion of unknown host assets without any warning. To prevent accidental deletion of unknown host assets, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with full scope. Other users must have these permissions: Access Permission “API Access” and Asset Management Permission “Delete Asset”.

Sample - Delete host assets with the tag “To Delete”

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/hostasset" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">To
Delete</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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>2020094</id>
    </HostAsset>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/hostasset.xsd

Activate Host Asset

/qps/rest/2.0/activate/am/hostasset/<id>?module=QWEB_VM

/qps/rest/2.0/activate/am/hostasset?module=QWEB_VM

/qps/rest/2.0/activate/am/hostasset/<id>?module=QWEB_PC

/qps/rest/2.0/activate/am/hostasset?module=QWEB_PC

/qps/rest/2.0/activate/am/hostasset/<id>?module=QWEB_SCA

/qps/rest/2.0/activate/am/hostasset?module=QWEB_SCA

/qps/rest/2.0/activate/am/hostasset/<id>?module=CERTVIEW

/qps/rest/2.0/activate/am/hostasset?module=CERTVIEW

[POST]

Activate one or more assets to make them available in your account for scanning and reporting. You'll want to activate newly created hosts to make them available in the Vulnerability Management (VM) module and/or the Policy Compliance (PC) module.

Permissions required - Users with full scope. Other users must have requested assets in their scope and Access Permission "API Access".

Searchable fields

Click here for available operators

Parameter	Description
qwebHostId	(integer)
lastVulnScan	(date)

lastComplianceScan	(date)
informationGatheredUpdated	(date)
os	(text)
dnsHostName	(text)
address	(text)
vulnsUpdated	(date)
id	(integer)
name	(text)
created	(date)
type	(text)
netbiosName	(string)
netbiosNetworkID	(text)
networkGuid	(text)
trackingMethod	(keyword) NONE, IP, DNSNAME, NETBIOS, INSTANCE_ID, QAGENT
port	(integer)
installedSoftware	(text)
tagName	(text)
tagId	(integer)
update	(date)

Sample - Activate host assets for PC

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/activate/am/hostasset?modul
e=QWEB_PC" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">Azure-static-
tag</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/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>15127499</id>
      <name>Sample Host asset</name>
      <created>2020-07-09T06:38:09Z</created>
      <modified>2020-08-05T19:00:23Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>110494212</id>
            <name>Azure-static-tag</name>
          </TagSimple>
          <TagSimple>
```

```
            <id>111047644</id>
          </TagSimple>
          <TagSimple>
            <id>111051812</id>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list>
          <AzureAssetSourceSimple>
            <assetId>15127499</assetId>
            <type>AZURE</type>
            <firstDiscovered>2020-07-09T06:38:09Z</firstDiscovered>
            <lastUpdated>2020-08-05T18:54:41Z</lastUpdated>
            <name>Sample Host asset</name>
            <location>westus2</location>
            <vmSize>Standard_B1ms</vmSize>
            <vmId>0cfb7bd7-0baa-46c5-b0ca-a7440b10bee6</vmId>
            <offer>CentOS</offer>
            <state>DEALLOCATED</state>
            <publisher>OpenLogic</publisher>
            <version>latest</version>
            <osType>Linux</osType>
            <subnet>default</subnet>
            <subscriptionId>XXXXXXXX-XXXX-XXXX-XXXX-
XXXXXXXXXXXX</subscriptionId>
            <resourceGroupName>sample_resourcegroup</resourceGroupName
>
            <macAddress>00-0D-3A-C4-8F-3F</macAddress>
            <privateIpAddress>172.16.7.5</privateIpAddress>
          </AzureAssetSourceSimple>
        </list>
      </sourceInfo>
      <qwebHostId>3906594</qwebHostId>
      <os>Linux</os>
      <dnsHostName>TestNullPointer-MN</dnsHostName>
      <address>172.16.7.5</address>
      <trackingMethod>VIRTUAL_MACHINE_ID</trackingMethod>
      <networkInterface>
        <list>
          <HostAssetInterface>
            <hostname>TestNullPointer-MN</hostname>
            <type>PRIVATE</type>
            <address>172.16.7.5</address>
```

```
          </HostAssetInterface>
        </list>
      </networkInterface>
    </HostAsset>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/hostasset.xsd

Host Asset Fields

Name	Description
os	(string)
dnsHostName	(string)
netbiosName	(string)
netbiosNetworkId	(integer)
networkGuid	(uuid)
address	(string)
trackingMethod	(AssetTrackingMethod: NONE, ICS_OCA, IP, DNSNAME, NETBIOS, INSTANCE_ID, QAGENT, GCP_INSTANCE_ID (only for GCP instances), SHODAN, PASSIVE_SENSOR, EASM
openPort	(HostAssetOpenPortQList)
software	(HostAssetSoftwareQList)
Read only fields	
qwebHostId	(long)
lastVulnScan	(date)
lastComplianceScan	(date)
vulnsUpdated	(date)

informationGatheredUpdated	(date)
account	(HostAssetAccount)
biosDescription	(string)
manufacturer	(string)
model	(string)
networkInterface	(HostAssetInterface)
processor	(HostAssetProcessor)
timezone	(string)
totalMemory	(long)
volume	(HostAssetVolume)
EC2 fields	
region	(text) Specify the region code for the AWS region. For example, ap-northeast-1, us-east-2, eu-west-3, etc.
vpcId	(text) The ID of your Amazon VPC.
imageId	(text) ID of the Amazon Machine Image (AMI).
instanceId	(text) EC2 Instance ID.
accountId	(text) Amazon account ID.
instanceState	(text) EC2 Instance state. For example, PENDING, RUNNING, TERMINATED,

	STOPPED, etc.
subnetId	(text) ID of the subnet where your instance is located (when Amazon VPC is used).
privateDnsName	(text) The private DNS name of the instance.
awsTagKey	(text) EC2 instance tags. For example, Owner, Department, Email, Lifecycle, Name, etc.
created	(date) When the asset is created.
firstdiscovered	(date) When Qualys runs to connector and the asset gets discovered
createdDate	(date) It is the launch date of an instance from the cloud.
Azure Assets	
vmId	(text) The ID of your VM instance.
subscriptionId	(text) Your unique Microsoft Azure subscription ID.
location	(text) Specify the location code for the Azure region. For example, centralindia, westus2.
state VM	(keyword) The Instance state. You can specify one of the following states:STARTING, RUNNING, STOPPING, STOPPED, DEALLOCATED, DEALLOCATING, DELETED.
subnet	(text) ID of the subnet where your VM instance is located (when Azure VPC is used).
resourceGroup	(text) Type of the resource group to which

	the VM instance belongs.
resourceGroupName	(text) Name of the resource group type to which the VM instance belongs.
privateIpAddress	(text) The private IP address of the VM instance.
publicIpAddress	(text) The public IP address of the VM instance.
azureTagKey	(text) VM instance tags. For example, Owner, Department, Email, Lifecycle, Name, etc.
azureTagValue	(text) Values for the VM instance tag keys.
imageOffer	(text) Image offer of the VM instance.
imageVersion	(text) Image version of the VM instance.

Associations

HostAssetOpenPortQList - Open ports (HostAssetOpenPortList) detected or explicitly added to the asset. This collection is keyed off of the port and protocol.

Element	
port	integer
protocol	protocol (TCP, UDP, ICMP)

Element	
serviceId	integer

serverName	string (name of the service detected on the port - read only)

HostAssetSoftwareQList - A list of software (HostAssetSoftware) installed on the machine, keyed on the name.

Element	
name	string
version	string

HostAssetVulnQList - A list of vulnerabilities detected on the host. Only vulnerabilities flagged as found will be returned. More detailed information about each detected vulnerability can be obtained from the HostInstanceVuln resource, cross referenced by the hostInstanceVulnId field. The HostInstanceVuln can also be used to find previously detected vulnerabilities that are currently marked as not found.

Element	
qid	long
hostInstanceVulnID	long
firstFound	date
lastFound	date

Assets

Get Asset Info

/qps/rest/2.0/get/am/asset/<id>

[GET]

Returns a single asset by ID.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for the host asset. Learn more about limiting your results

Permissions required - Managers with full scope. Other users must have requested asset in their scope and these permissions: Access Permission “API Access” and Asset Management Permission “Read Asset”

Sample - Fetch asset ID and list details

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/asset/12345"
```

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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Asset>
      <id>12345</id>
      <name>My Windows Asset</name>
      <created>2014-02-06T19:16:35Z</created>
      <modified>2014-02-06T19:16:35Z</modified>
```

```
      <type>HOST</type>
      <tags>
        <list>
            <TagSimple>
                <id>12345</id>
                <name>Tag 1</name>
            </TagSimple>
            <TagSimple>
                <id>54321</id>
                <name>Tag 2</name>
            </TagSimple>
        </list>
      </tags>
    </Asset>
  </data>
```

Sample - Get information for assets in your AWS Cloud

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/asset/13236173"
```

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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Asset>
            <id>13236173</id>
            <name>MHCSTRHEL6-2</name>
            <created>2019-11-12T10:46:30Z</created>
            <modified>2020-01-07T06:26:41Z</modified>
            <type>HOST</type>
            <sourceInfo>
                <list>
                    <Ec2AssetSourceSimple>
                        <assetId>13236173</assetId>
                        <type>EC_2</type>
```

```
                        <firstDiscovered>2019-11-
12T10:46:30Z</firstDiscovered>
                        <lastUpdated>2020-01-
07T06:20:12Z</lastUpdated>
                        <reservationId>r-
03ca004864372ef32</reservationId>
                        <availabilityZone>us-west-
2a</availabilityZone>
                        <instanceId>i-0edf6a42bb540f885</instanceId>
                        <instanceType>t1.micro</instanceType>
                        <createdDate>2020-01-
07T09:09:21Z</createdDate>
                        <instanceState>STOPPED</instanceState>
                        <groupId>sg-7493f147</groupId>
                        <groupName>Red Hat Enterprise Linux -RHEL- 6-
6-5_GA-AutogenByAWSMP-1</groupName>
                        <spotInstance>false</spotInstance>
                        <accountId>XXXXXXXXXXXX</accountId>
                        <region>us-west-2</region>
                        <zone>Classic</zone>
                        <imageId>ami-7df0bd4d</imageId>
                        <monitoringEnabled>false</monitoringEnabled>
                    </Ec2AssetSourceSimple>
                </list>
            </sourceInfo>
        </Asset>
    </data>
</ServiceResponse>
```

Sample - Get information for assets in your Azure Cloud

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/asset/13511567"
```

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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
    <count>1</count>
```

```
    <data>
        <Asset>
            <id>13511567</id>
            <name>VJ-WIndows</name>
            <created>2019-11-27T06:07:16Z</created>
            <modified>2020-01-07T06:21:29Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>107258219</id>
                        <name>Azure</name>
                    </TagSimple>
                </list>
            </tags>
            <sourceInfo>
                <list>
                    <AzureAssetSourceSimple>
                        <assetId>13511567</assetId>
                        <type>AZURE</type>
                        <firstDiscovered>2019-11-
27T06:07:20Z</firstDiscovered>
                        <lastUpdated>2020-01-
07T06:21:29Z</lastUpdated>
                        <name>VJ-WIndows</name>
                        <location>centralindia</location>
                        <vmSize>Standard_A3</vmSize>
                        <vmId>b3fdb9ed-2564-4eaa-9e1b-
7aeb6c196c92</vmId>
                        <offer>Windows-10</offer>
                        <state>RUNNING</state>
                        <publisher>MicrosoftWindowsDesktop</publisher>
                        <version>latest</version>
                        <osType>Windows</osType>
                        <subnet>default</subnet>
                        <subscriptionId>XXXXXXXX-XXXX-XXXX-XXXX-
XXXXXXXXXXXX</subscriptionId>
                        <resourceGroupName>DefaultResourceGroup-
CIN</resourceGroupName>
                        <macAddress>00-0D-3A-F0-98-3F</macAddress>
                        <publicIpAddress>52.172.151.254</publicIpAddre
ss>
                        <privateIpAddress>10.0.0.5</privateIpAddress>
                    </AzureAssetSourceSimple>
```

```
                </list>
            </sourceInfo>
        </Asset>
    </data>
</ServiceResponse>
```

Sample - Get information for assets in your GCP Cloud

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/asset/13511567"
```

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/2.
0/am/asset.xsd">
<responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Asset>
            <id>13569298</id>
            <name>gcp-1-quays-aw8 0</name>
            <created>2019-12-02T09:32:45Z</created>
            <modified>2020-01-02T07:03:03Z</modified>
            <type>HOST</type>
            <tags>
                <list>
                    <TagSimple>
                        <id>106777848</id>
                        <name>Cloud Agent</name>
                    </TagSimple>
                    <TagSimple>
                        <id>107007013</id>
                        <name>gcp</name>
                    </TagSimple>
                </list>
            </tags>
            <sourceInfo>
                <list>
                    <GcpAssetSourceSimple>
                        <assetId>13569298</assetId>
```

```
                        <type>GCP</type>
                        <firstDiscovered>2019-12-
02T09:32:46Z</firstDiscovered>
                        <lastUpdated>2019-12-
02T09:32:46Z</lastUpdated>
                        <instanceId>2152878541443265280</instanceId>
                        <hostname>gcp-1-quays-aw8.c.qvsa-
dev.internal</hostname>
                        <machineType>n1-standard-1</machineType>
                        <zone>us-central1-a</zone>
                        <projectIdNo>1035365309337</projectIdNo>
                        <state>RUNNING</state>
                        <projectId>test_account</projectId>
                        <network>default</network>
                        <macAddress>42:01:0a:f0:00:a4</macAddress>
                        <publicIpAddress>34.67.172.38</publicIpAddress
>
                        <privateIpAddress>10.240.0.164</privateIpAddre
ss>
                    </GcpAssetSourceSimple>
                    <AssetSource/>
                </list>
            </sourceInfo>
        </Asset>
    </data>
</ServiceResponse>
```

Sample - Get asset API returns criticality score for an asset

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "GET" --
"https://qualysapi.qualys.com/rest/2.0/get/am/asset/3052446"
```

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/rest/2
.0/search/am/asset">
     <responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
    <Asset>
```

```
        <id>3052446</id>
        <name>hkencrtest</name>
        <created>2020-02-06T09:29:23Z</created>
        <modified>2020-10-27T11:56:50Z</modified>
       <type>HOST</type>
       <tags>
          <list>
...
          </sourceInfo>
          <criticalityScore>2</criticalityScore>
      </Asset>
   </data>
</ServiceResponse>
```

Sample - Get Asset using Custom Attributes

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "GET" --
"https://qualysapi.qualys.com/rest/2.0/get/am/asset/xxxxxx"
```

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/rest/2
.0/am/asset">
     <responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
    <Asset>
        <id>xxxxxx</id>
        <name>test1</name>
        <created>2022-10-20T08:24:41Z</created>
        <modified>2023-01-16T22:18:58Z</modified>
       <type>HOST</type>
       <tags>
          <list>
<TagSimple>
<id>xxxxxx</id>
<name>update-ats-847-specific-ag-bu</name>
</TagSimple>
</list>
</tags>
```

```
<customAttributes>
          <list>
          <CustomAttribute>
          <key>department</key>
          <value>Engineering</key>
          </CustomAttribute>
...
          </sourceInfo>
          <criticalityScore>5</criticalityScore>
      </Asset>
   </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset.xsd

Update Asset

/qps/rest/2.0/update/am/asset/<id>

/qps/rest/2.0/update/am/asset

[POST]

Update fields for an asset and collections of assets. Only the name and tags can be modified.

Using the NOT EQUALS operator for updating assets could result in accidental update of unknown assets without any warning. To prevent accidental updates of unknown assets, we do not support NOT EQUALS operator for update actions.

Permissions required - Managers with full scope, other users must have the requested assets in their scope and these permissions: Access Permission “API Access” and Asset Management Permission “Update Asset”.

We have restricted our asset update requests to static tags and have excluded dynamic tags. With this release, we will decline a request if the request contains TagSimple list having a dynamic tag for add/remove/set operation. The request is processed if it contains only static tags.

In case of the set operation, if the request includes static tags, then the existing static tags are removed and new static tags (specified in the request) are applied on that particular asset. All the existing system or dynamic tags are retained as is. You cannot add or remove dynamic tags manually.

Sample - Update asset and give it another name

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/asset/12345" <
file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <Asset>
      <name>Updated Name</name>
    </Asset>
  </data>
</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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Asset>
      <id>12345</id>
      <name>Updated Name</name>
      <created>2014-02-06T19:16:35Z</created>
      <modified>2014-02-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>12345</id>
            <name>Tag 1</name>
          </TagSimple>
          <TagSimple>
            <id>54321</id>
            <name>Tag 2</name>
          </TagSimple>
        </list>
      </tags>
    </Asset>
  </data>
</ServiceResponse>
```

Sample - Update tags that have tag names containing the word DELETED

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/asset" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <Criteria field="name" operator="CONTAINS">DELETED</Criteria>
  <filters>
  <data>
    <Asset>
      <tags>
        <add>
          <TagSimple><id>12345</id></TagSimple>
        <add>
      </tags>
    </Asset>
  </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Asset>
      <id>543</id>
      <name>Old Asset (DELETED)</name>
      <created>2014-02-06T19:16:35Z</created>
      <modified>2014-02-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list>
            <TagSimple>
                <id>12345</id>
                <name>Tag 1</name>
```

```
            </TagSimple>
        </list>
      </tags>
    </Asset>
  </data>
</ServiceResponse>
```

Sample - Update the asset with tags

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/asset"< file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="IN">8006386</Criteria>
  <filters>
  <data>
    <Asset>
      <tags>
        <add>
          <TagSimple><id>13745031</id></TagSimple>
        <add>
      </tags>
    </Asset>
  </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Asset>
      <id>8006386<</id>
```

```
    </Asset>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset.xsd

Search Assets

/qps/rest/2.0/search/am/asset

[POST]

Returns a list of assets matching the provided criteria. Assets are returned when they are visible to the user (i.e. in the user's scope).

Pagination - A maximum of 100 host assets are returned by default. To customize this specify a "preferences" tag in the POST body of your request.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each host asset. Learn more about limiting your results

Permissions required - Managers with full scope, other users must have these permissions: Access Permission "API Access" and Asset Management Permission "Read Asset"

Searchable fields

Click here for available operators

Parameter	Description
id	(integer)
name	(text)
created	(date)
updated	(date)
type	(keyword) UNKOWN, HOST, SCANNER, WEBAPP, MALWARE_DOMAIN

tagName	(text) Parent tags of the tag will also match
tagId	(text) Parent tags of the tag will also match
customAttributes.key (available only for CSAM License Subscriber)	(string)
customAttributes.value (available only for CSAM License Subscriber)	(string)

Sample - Find an asset with a particular tag

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/asset" < file.xml
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">To
Delete</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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>true</hasMoreRecords>
```

```
  <lastId>5693290</lastId>
  <data>
    <Asset>
      <id>543</id>
      <name>Old Asset (To Delete)</name>
      <created>2014-02-06T19:16:35Z</created>
      <modified>2014-02-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list>
            <TagSimple>
                <id>12345</id>
                <name>Tag 1</name>
            </TagSimple>
        </list>
      </tags>
    </Asset>
  </data>
</ServiceResponse>
```

Sample - Search asset API returns criticality score for an asset

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --
"https://qualysapi.qualys.com/rest/2.0/search/am/asset" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="name"
         operator="EQUALS">hkencrtest</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/rest
/2.0/search/am/asset.xsd">
    <responseCode>SUCCESS</responseCode>
```

```
<count>1</count>
<hasMoreRecords>false</hasMoreRecords>
<data>
    <Asset>
    <id>3052446</id>
    <name>hkencrtest</name>
    <created>2020-02-06T09:29:23Z</created>
    <modified>2020-10-27T11:56:50Z</modified>
    <type>HOST</type>
    ...
    <criticalityScore>2</criticalityScore>
    </Asset>
</data>
</ServiceResponse>
```

Sample - Search Asset using Custom Attribute

API request

```
curl -X "POST"
'https://qualysapi.qualys.com/qps/rest/2.0/search/am/asset' < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
    <filters>
        <Criteria field="id"
         operator="EQUALS">test1</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/rest/2
.0/am/asset.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
<data>
```

```
    <Asset>
    <id>3052446</id>
    <name>test1</name>
    <created>2020-02-06T09:29:23Z</created>
    <modified>2020-10-27T11:56:50Z</modified>
    <type>HOST</type>
  <tags>
  <list>
  <TagSimple>
  <id>xxxxxx</id>
     <name>update-ats-847-specific-ag-bu</name>
     </TagSimple>
     </list>
     </tags>
<customAttributes>
          <list>
          <CustomAttribute>
          <key>department</key>
          <value>Engineering</key>
          </CustomAttribute>
...
          </sourceInfo>
          <criticalityScore>5</criticalityScore>
      </Asset>
   </data>
</ServiceResponse>
    </Asset>
</data>
</ServiceResponse>
```

XSD

[<platform API server>](#)/qps/xsd/2.0/am/asset.xsd

Count Assets

/qps/rest/2.0/count/am/asset

[POST]

Returns the number of assets that match the provided criteria. A host asset is counted when the asset is visible to the user (i.e. in the user's scope).

Permissions required - Managers with full scope. Other users must have these permissions: Access Permission "API Access" and Asset Management Permission "Read Asset"

Searchable fields

Click here for available operators

Parameter	Description
id	(integer)
name	(text)
created	(date)
updated	(date)
type	(keyword) UNKOWN, HOST, SCANNER, WEBAPP, MALWARE_DOMAIN
tagName	(text) Parent tags of the tag will also match
tagId	(text) Parent tags of the tag will also match

Sample - Count assets with tag name "To Delete"

API request

```
curl -u “USERNAME:PASSWORD”
"https://qualysapi.qualys.com/qps/rest/2.0/count/am/asset" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">To
Delete</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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset.xsd

Delete Asset

/qps/rest/2.0/delete/am/asset/<id>

/qps/rest/2.0/delete/am/asset

[POST]

Delete one or more assets.

Using the NOT EQUALS operator for deleting assets could result in accidental deletion of unknown assets without any warning. To prevent accidental deletion of unknown assets, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with full scope. Other users must have these permissions: Access Permission “API Access” and Asset Management Permission “Delete Asset”.

Searchable fields

Click here for available operators

Parameter	Description
id	(integer)
name	(text)
created	(date)
updated	(date)
type	(keyword) UNKOWN, HOST, SCANNER, WEBAPP, MALWARE_DOMAIN
tagName	(text) Parent tags of the tag will also match

tagId	(text) Parent tags of the tag will also match

Sample - Delete assets with a particular tag name

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/asset" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">To
Delete</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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Asset>
      <id>1972521</id>
    </Asset>
  </data>
</ServiceResponse>
```

XSD

[<platform API server>](#)/qps/xsd/2.0/am/asset.xsd

Activate Asset

/qps/rest/2.0/activate/am/asset/<id>?module=QWEB_VM

/qps/rest/2.0/activate/am/asset?module=QWEB_VM

/qps/rest/2.0/activate/am/asset/<id>?module=QWEB_PC

/qps/rest/2.0/activate/am/asset?module=QWEB_PC

/qps/rest/2.0/activate/am/asset/<id>?module=QWEB_SCA

/qps/rest/2.0/activate/am/asset?module=QWEB_SCA

/qps/rest/2.0/activate/am/asset/<id>?module=CERTVIEW

/qps/rest/2.0/activate/am/asset?module=CERTVIEW

[POST]

Activate one or more assets to make them available in your account for scanning and reporting. You'll want to activate newly created hosts to make them available in the Vulnerability Management (VM) module, Policy Compliance (PC) module, Security Configuration Assessment (SCA) module, or CertView module.

Permissions required - Users with full scope. Other users must have requested assets in their scope and Access Permission "API Access".

Searchable fields

Click here for available operators

Parameter	Description
id	(integer)
name	(text)

created	(date)
updated	(date)
type	(keyword) UNKOWN, HOST, SCANNER, WEBAPP, MALWARE_DOMAIN
tagName	(text) Parent tags of the tag will also match
tagId	(text) Parent tags of the tag will also match

Samples

Sample - Activate assets with the tag "Export to VM"

Sample - Activate assets for PC module

Sample - Activate assets for SCA module

Sample - Activate assets for CertView module

Sample - Activate assets with the tag “Export to VM”

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset?module=QW
EB_VM" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">Export to
VM</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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Asset>
      <id>1972521</id>
      <name>Test Asset</name>
      <created>2013-12-11T05:12:45Z</created>
      <modified>2014-02-04T23:55:54Z</modified>
      <type>HOST</type>
      <tags>
        <list>
            <SimpleTag>
                <id>12345</id>
                <name>Export to VM</name>
            </SimpleTag>
        <list>
      </tags>
      <sourceInfo>
        <list>
          <Ec2AssetSourceSimple>
            <firstDiscovered>2014-02-06T19:14:50Z</firstDiscovered>
            <lastUpdated>2014-02-06T19:14:50Z</lastUpdated>
            <assetId>1972521</assetId>
            <availabilityZone>us-east</availabilityZone>
            <privateDnsName>ip-10-90-0-73.qualys.com</privateDnsName>
            <instanceId>i-8b545eef</instanceId>
            <instanceType>t1.micro</instanceType>
            <imageId>ami-03ad6e6a</imageId>
            <privateIpAddress>127.0.0.1</privateIpAddress>
            <monitoringEnabled>false</monitoringEnabled>
          </Ec2AssetSourceSimple>
        </list>
      </sourceInfo>
      <openPort>
        <list/>
      </openPort>
      <software>
        <list/>
      </software>
```

```
      <vuln>
        <list/>
      </vuln>
    </Asset>
  </data>
</ServiceResponse>
```

Sample - Activate assets for PC module

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset?module=QW
EB_VM" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="state"
operator="EQUALS">DEALLOCATED</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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
<count>1</count>
  <data>
    <Asset>
      <id>15057806</id>
      <name>asset_for_pc</name>
      <created>2020-07-01T00:04:04Z</created>
      <modified>2020-07-26T00:07:26Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
```

```
            <id>110494212</id>
            <name>Azure-static-tag</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list>
          <AzureAssetSourceSimple>
            <assetId>15057806</assetId>
            <type>AZURE</type>
            <firstDiscovered>2020-07-01T00:04:07Z</firstDiscovered>
            <lastUpdated>2020-07-25T22:59:59Z</lastUpdated>
            <name>asset_for_pc</name>
            <location>eastus</location>
            <vmSize>Standard_A1</vmSize>
            <vmId>ffc23409-2433-4ca7-b832-033ef231f235</vmId>
            <offer>CentOS</offer>
            <state>DEALLOCATED</state>
            <publisher>OpenLogic</publisher>
            <version>latest</version>
            <osType>Linux</osType>
            <subnet>subnet-2849</subnet>
            <subscriptionId>XXXXXXXX-XXXX-XXXX-XXXX-
XXXXXXXXXXXX</subscriptionId>
            <resourceGroupName>DefaultResourceGroup-
EUS</resourceGroupName>
            <macAddress>00-0D-3A-54-1B-AA</macAddress>
            <privateIpAddress>10.95.0.158</privateIpAddress>
          </AzureAssetSourceSimple>
        </list>
      </sourceInfo>
    </Asset>
  </data>
</ServiceResponse>
```


Sample - Activate assets for SCA module

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset?module=QW
EB_SCA" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="vmId" operator="EQUALS">ffc23409-2433-4ca7-
b832-033ef231f235</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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
<count>1</count>
  <data>
    <Asset>
      <id>15057806</id>
      <name>sample_azure_asset</name>
      <created>2020-07-01T00:04:04Z</created>
      <modified>2020-07-26T00:09:27Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>110494212</id>
            <name>Azure-static-tag</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list>
          <AzureAssetSourceSimple>
            <assetId>15057806</assetId>
            <type>AZURE</type>
            <firstDiscovered>2020-07-01T00:04:07Z</firstDiscovered>
            <lastUpdated>2020-07-25T22:59:59Z</lastUpdated>
            <name>sample_azure_asset</name>
            <location>eastus</location>
            <vmSize>Standard_A1</vmSize>
            <vmId>ffc23409-2433-4ca7-b832-033ef231f235</vmId>
            <offer>CentOS</offer>
            <state>DEALLOCATED</state>
```

```
            <publisher>OpenLogic</publisher>
            <version>latest</version>
            <osType>Linux</osType>
            <subnet>subnet-2849</subnet>
            <subscriptionId>XXXXXXXX-XXXX-XXXX-XXXX-
XXXXXXXXXXXX</subscriptionId>
            <resourceGroupName>DefaultResourceGroup-
EUS</resourceGroupName>
            <macAddress>00-0D-3A-54-1B-AA</macAddress>
            <privateIpAddress>10.95.0.158</privateIpAddress>
          </AzureAssetSourceSimple>
        </list>
      </sourceInfo>
    </Asset>
  </data>
</ServiceResponse>
```

Sample - Activate assets for CertView module

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset/15057806?
module=CERTVIEW" < file.xml
Note: “file.xml” contains the request POST data.
```

Request POST data

```
<ServiceRequest>
    <filters>
          <Criteria field="tagName"
operator="EQUALS">activation_test_tag
    </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/2.
0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
<count>1</count>
```

```
  <data>
    <Asset>
      <id>15057806</id>
      <name>Sample_asset</name>
      <created>2020-07-01T00:04:04Z</created>
      <modified>2020-07-26T00:11:16Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>110878225</id>
            <name>activation_test_tag</name>
          </TagSimple>
          <TagSimple>
            <id>110494212</id>
            <name>Azure-static-tag</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list>
          <AzureAssetSourceSimple>
            <assetId>15057806</assetId>
            <type>AZURE</type>
            <firstDiscovered>2020-07-01T00:04:07Z</firstDiscovered>
            <lastUpdated>2020-07-25T22:59:59Z</lastUpdated>
            <name>Sample_asset</name>
            <location>eastus</location>
            <vmSize>Standard_A1</vmSize>
            <vmId>ffc23409-2433-4ca7-b832-033ef231f235</vmId>
            <offer>CentOS</offer>
            <state>DEALLOCATED</state>
            <publisher>OpenLogic</publisher>
            <version>latest</version>
            <osType>Linux</osType>
            <subnet>subnet-2849</subnet>
            <subscriptionId>XXXXXXXX-XXXX-XXXX-XXXX-
XXXXXXXXXXXX</subscriptionId>
            <resourceGroupName>DefaultResourceGroup-
EUS</resourceGroupName>
            <macAddress>00-0D-3A-54-1B-AA</macAddress>
            <privateIpAddress>10.95.0.158</privateIpAddress>
          </AzureAssetSourceSimple>
        </list>
```

```
      </sourceInfo>
    </Asset>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset.xsd

Asset Fields

Name	Description
name	(text)
tags	(string)
id	(long)
created	(date)
modified	(date)
type	(keyword) UNKOWN, HOST, SCANNER, WEBAPP, MALWARE_DOMAIN
sourceInfo	(AssetSourceQList)

Associations

TagSimpleQList - Asset tags on the associated asset. This collection to be added to and removed from by providing a tag ID wrapped in a TagSimple element.

TagSimple	
id	long (tag primary key)
name	string (tag name)

AssetSourceQList - Source information for the associated asset. At the moment this is used exclusively for assets that are in Amazon EC2 but may

contain additional types in the future. As such, elements will always be of type Ec2AssetSourceSimple.

Element	Description
availabilityZone	(string)
privateDnsName	(string)
publicDnsName	(string)
instanceID	(string)
instanceType	(string)
imageID	(string)
publicIpAddress	(string)
privateIpAddress	(string)
monitoringEnabled	(boolean)
instanceState	(AssetSourceStateCode: PENDING, RUNNING, SHUTTING_DOWN, TERMINATED, STOPPING, STOPPED, UNSUPPORTED)

Host Instance Vulnerability data

Get Vulnerability Info

/qps/rest/2.0/get/am/hostinstancevuln/<id>

[GET]

Returns a single host instance vulnerability data by ID.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for the host instance vulnerability. Learn more about limiting your results

Permissions required - Managers with Full Scope. Users without Full Scope must have these account settings: 1) scope includes the requested asset, and 2) permissions include: Access Permission “API Access” and Asset Management Permission “Read Asset”.

Sample - Fetch a host instance vulnerability

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostinstancevuln/123
45"
```

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/2.
0/am/hostinstancevuln.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostInstanceVuln>
      <id>9534081</id>
```

```
      <hostAssetId>1543621</hostAssetId>
      <qid>38167</qid>
      <port>25</port>
      <ssl>true</ssl>
      <found>true</found>
      <ignored>false</ignored>
      <disabled>false</disabled>
      <updated>2012-10-19T21:56:23Z</updated>
      <protocol>TCP</protocol>
      <source>HOST</source>
    </HostInstanceVuln>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/hostinstancevuln.xsd

Search Vulnerabilities

/qps/rest/2.0/search/am/hostinstancevuln

[POST]

Returns a list of host instance vulnerabilities that match the provided criteria. These vulnerabilities are returned when the hosts are visible to the user (i.e. in the user's scope).

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each vulnerability. Learn more about limiting your results

Pagination - A maximum of 100 instances are returned by default. To customize this specify a "preferences" tag in the POST body of your request.

Permissions required - Managers with Full Scope. Users without Full Scope must have these account settings: 1) scope includes the requested asset, and 2) permissions include: Access Permission "API Access" and Asset Management Permission "Read Asset".

Searchable fields

Click here for available operators

Parameter	Description
id	(long) The primary host instance vulnerability key.
hostAssetId	(long) The ID of the host asset where the vulnerability was found.
created	(date) The date the vulnerability was added to the KnowledgeBase.
found	(boolean) Set to true if the QID was detected on the host by the latest scan of that host.

firstFound	(date) The date/time the vulnerability was first detected on the host.
lastfound	(date) The most recent date/time the vulnerability was detected on the host.
lastScanned	(date) The most recent date/time the vulnerability was tested for the host.
qid	(long) The Qualys vulnerability ID of the vulnerability.
disabled	(boolean) Set to true if the QID is marked as disabled in your subscription. Set to false if the QID is not marked disabled.
fqdn	(string) The fully qualified domain name of the host.
ssl	(boolean) Set to true if the vulnerability was detected over SSL. Set to false if the vulnerability was not detected over SSL. This element is not returned for information gathered.
updated	(date) The last date/time the vulnerability data was updated for the host.
ignored	(boolean) Set to true if the QID/host/port is marked as ignored in your subscription. Set to false if the QID/host/port is not marked ignored.
protocol	(string) The protocol the vulnerability was detected on. TCP, UDP, ICMP.
port	(integer) The port number the vulnerability was detected on.
source	(string) The vulnerability source. HOST, ORACLE, HSSQL, OTHER.

Sample - Search vulnerability instances

Find all vulnerabilities that were previously detected on a host, and that have since been resolved

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostinstancevuln"
<file.xml
Note: file.xml contains the request POST data
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="hostAssetId"
operator="EQUALS">12345</Criteria>
        <Criteria field="found" operator="EQUALS">false</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/2.
0/am/hostinstancevuln.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostInstanceVuln>
      <id>9534081</id>
      <hostAssetId>12345</hostAssetId>
      <qid>38167</qid>
      <port>25</port>
      <ssl>true</ssl>
      <found>true</found>
      <ignored>false</ignored>
      <disabled>false</disabled>
      <updated>2012-10-19T21:56:23Z</updated>
      <protocol>TCP</protocol>
      <source>HOST</source>
```

```
    </HostInstanceVuln>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/hostinstancevuln.xsd

Count Vulnerabilities

/qps/rest/2.0/count/am/hostinstancevuln

[GET]

Returns the number of host instance vulnerabilities that match the provided criteria. A host instance vulnerability is counted when the asset visible to the user (i.e. it is in the user's scope).

Permissions required - Managers with Full Scope. Users without Full Scope must have these account settings: 1) scope includes the requested asset, and 2) permissions include: Access Permission "API Access" and Asset Management Permission "Read Asset".

Sample - Count vulnerabilities on assets

Count the number of host instance vulnerabilities across all visible assets

API request

```
curl -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/count/am/hostinstancevuln"<
file.xml
Note: file.xml contains the request POST data
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="found" operator="EQUALS">true</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/2.
0/am/hostinstancevuln.xsd">
  <responseCode>SUCCESS</responseCode>
```

```
  <count>1</count>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/hostinstancevuln.xsd

Host Instance Vulnerability Fields

Field name	Description
id	(long) The primary host instance vulnerability key.
hostAssetId	(long) The ID of the host asset where the vulnerability was found.
created	(date) The date the vulnerability was added to the KnowledgeBase.
found	(boolean) Set to true if the QID was detected on the host by the latest scan of that host.
firstFound	(date) The date/time the vulnerability was first detected on the host.
lastfound	(date) The most recent date/time the vulnerability was detected on the host.
lastScanned	(date) The most recent date/time the vulnerability was tested for the host.
qid	(long) The Qualys vulnerability ID of the vulnerability.
disabled	(long) Set to true if the QID is marked as disabled in your subscription. Set to false if the QID is not marked disabled.
fqdn	(string) The fully qualified domain name of the host.
ssl	(boolean) Set to true if the vulnerability was detected over SSL. Set to false if the vulnerability was not detected over SSL. This element is not returned for information gathered.

updated	(date) The last date/time the vulnerability data was updated for the host.
ignored	(boolean) Set to true if the QID/host/port is marked as ignored in your subscription. Set to false if the QID/host/port is not marked ignored.
protocol	The protocol the vulnerability was detected on (TCP, UDP, ICMP).
port	(integer) The port number the vulnerability was detected on.
source	The vulnerability source (HOST, ORACLE, HSSQL, OTHER).

Asset Data Connector

Get Connector Info

/qps/rest/2.0/get/am/assetdataconnector/<id>

[GET]

Returns a single asset data connector by ID.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for the asset data connector. Learn more about limiting your results

Permissions required - Managers with Full Scope.

Sample - Fetch asset data connector info

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/assetdataconnector/1
2345"
```

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/2.
0/am/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AssetDataConnector>
      <id>12345</id>
      <name>new connector</name>
      <awsAccountId>205767712438</awsAccountId>
```

```
      <lastSync>2014-11-26T08:44:05Z</lastSync>
      <lastError>Invalid EC2 AuthRecord</lastError>
      <connectorState>ERROR</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>1</id>
            <name>EC2</name>
          </TagSimple>
        </list>
      </defaultTags>
      <activation>
        <ActivationModule>VM</ActivationModule>
      </activation>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset_data_connector.xsd

Update Connector

/qps/rest/2.0/update/am/assetdataconnector

/qps/rest/2.0/update/am/assetdataconnector/<id>

[GET]

Updates writable fields and collections. Only the name and tags can be modified.

Using the NOT EQUALS operator for updating connectors could result in accidental update of unknown connectors without any warning. To prevent accidental updates of unknown connectors, we do not support NOT EQUALS operator for update actions.

Permissions required - Managers with Full Scope.

Sample 1 - Change asset data connector name

Change the name of the asset data connector with ID 12345 and add a tag with the ID of 1 to the defaultTags collection

API request

```
curl -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/update/assetdataconnector/1
2345" < file.xml

Request POST data (file.xml):
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <AssetDataConnector>
            <name>Updated Name</name>
            <defaultTags>
              <add>
                <TagSimple>
                  <id>11751040</id>
                </TagSimple>
              </add>
```

```
            </defaultTags>
        </AssetDataConnector>
    </data>
</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/xs
d/2.0/am/asset_data_connector.xsd">
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AssetDataConnector>
      <id>12345</id>
      <name>External VPC</name>
      <lastSync>2014-11-26T08:44:05Z</lastSync>
      <lastError />
      <connectorState>SUCCESS</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>11751040</id>
            <name>EC2</name>
          </TagSimple>
        </list>
      </defaultTags>
      <activation>
        <ActivationModule>VM</ActivationModule>
      </activation>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

Sample 2 - Add a tag to connectors

Add a tag to all asset data connectors who's names contain External

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/assetdataconnector/1
2345< file.xml

Request POST data (file.xml):
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="name" operator="CONTAINS">External</Criteria>
    <filters>
    <data>
        <Asset>
            <tags>
                <add>
                    <TagSimple><id>2</id></TagSimple>
                <add>
            </tags>
        </Asset>
    </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>13</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AssetDataConnector>
      <id>12345</id>
      <name>External VPC</name>
      <lastSync>2014-11-26T08:44:05Z</lastSync>
      <lastError />
      <connectorState>SUCCESS</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>2</id>
            <name>External</name>
```

```
          </TagSimple>
        </list>
      </defaultTags>
      <activation>
        <ActivationModule>VM</ActivationModule>
      </activation>
    </AssetDataConnector>
...
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset_data_connector.xsd

Search Connectors

/qps/rest/2.0/search/am/assetdataconnector

[POST]

Returns a list of asset data connectors that match the provided criteria.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each asset data connector. Learn more about limiting your results

Pagination - A maximum of 100 instances are returned by default. To customize this specify a "preferences" tag in the POST body of your request.

Permissions required - Managers with Full Scope.

Searchable fields

Click here for available operators

Parameter	Description
id	(long) Primary key
name	(string)
description	(string)
lastSynch	(date)
lastError	(string)
connectorState	(Keyword) (AssetDataConnectorState) PENDING, SUCCESS, ERROR, QUEUED, RUNNING, PROCESSING, FINISHED_SUCCESS, FINISHED_ERRORS, DISABLED, INCOMPLETE, not

	writeable.
activation	(Keyword) VM, PC, SCA, CERTVIEW
defaultTags.name	(Text) The name of a tag in the defaultTags collection
defaultTag	(Integer) The ID of a tag in the defaultTags collection
disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled the connector will not synchronize assets.

Sample - Find all asset data connectors with tag name USA

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/assetdataconnecto
r" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="defaultTags.name"
operator="EQUALS">USA</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/2.
0/am/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>13</count>
  <hasMoreRecords>false</hasMoreRecords>
```

```
  <data>
    <AssetDataConnector>
      <id>12345</id>
      <name>DB1</name>
      <awsAccountId>205767712438</awsAccountId>
      <lastSync>2014-11-26T08:44:05Z</lastSync>
      <lastError />
      <connectorState>SUCCESS</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>3</id>
            <name>USA</name>
          </TagSimple>
        </list>
      </defaultTags>
      <activation>
        <ActivationModule>VM</ActivationModule>
        <ActivationModule>PC</ActivationModule>
      </activation>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset_data_connector.xsd

Count Connectors

/qps/rest/2.0/count/am/assetdataconnector

[POST]

Returns the number of asset data connectors that match the provided criteria.

Permissions required - Managers with Full Scope.

Sample - Count connectors

Count the number of asset data connectors with the tag name USA

API request

```
curl -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/count/am/assetdataconnector
"< file.xml

Request POST data (file.xml):
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="defaultTags.name"
operator="EQUALS">USA</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/2.
0/am/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset_data_connector.xsd

Delete Connector

/qps/rest/2.0/delete/am/assetdataconnector

/qps/rest/2.0/delete/am/assetdataconnector/<id>

[POST]

Delete one or more asset data connectors.

Using the NOT EQUALS operator for deleting connectors could result in accidental deletion of unknown connectors without any warning. To prevent accidental deletion of unknown connectors, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with Full Scope.

Sample 1 - Delete a single asset data connector

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/assetdataconnecto
r/12345"
```

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/2.
0/am/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AssetDataConnector>
      <id>12345</id>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

Sample 2 - Delete several asset data connectors tagged with the To Delete tag

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/assetdataconnecto
r" < file.xml

Request POST data (file.xml):
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">To
Delete</Criteria>
    </filters>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AssetDataConnector>
      <id>1972521</id>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/asset_data_connector.xsd

Run Connector

/qps/rest/2.0/run/am/assetdataconnector

/qps/rest/2.0/run/am/assetdataconnector/<id>

[POST]

Request that one or more asset data connectors are run. The connectors may be run immediately, or queued to run when there is capacity. The response will almost always indicate that the connector is pending. Use GET calls to monitor the status of connectors.

Permissions required - Managers with Full Scope.

Sample 1 - Run a single connector

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/run/am/assetdataconnector/1
2345"
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/xsd/2.0/am
/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AssetDataConnector>
      <id>12345</id>
      <name>DB1</name>
      <lastSync>2014-11-26T08:44:05Z</lastSync>
      <lastError />
      <connectorState>SUCCESS</connectorState>
      <type>AWS</type>
      <defaultTags>
```

```
        <list>
          <TagSimple>
            <id>3</id>
            <name>USA</name>
          </TagSimple>
        </list>
      </defaultTags>
      <activation>
        <ActivationModule>VM</ActivationModule>
        <ActivationModule>PC</ActivationModule>
      </activation>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

Sample 2 - Re-run all errored connectors

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/run/am/assetdataconnector"
< file.xml

Request POST data (file.xml):
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="connectorState"
operator="EQUALS">ERROR</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/xsd/2.0/am
/asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>13</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AssetDataConnector>
```

```
      <id>12345</id>
      <name>DB1</name>
      <lastSync>2014-11-26T08:44:05Z</lastSync>
...
    <AssetDataConnector>
      <id>12346</id>
      <name>DB2</name>
      <lastSync>2015-01-07T01:50:05Z</lastSync>
...
```

XSD

<platform API server>/qps/xsd/2.0/am/asset_data_connector.xsd

Connector Fields

Field name	Description	Writable
id	(long) Primary key, not writeable	No
name	(string)	Yes
description	(string)	Yes
lastSynch	(date) Last synch date, not writeable	No
lastError	(string) Last error, not writeable	No
connectorState	(AssetDataConnectorState) PENDING, SUCCESS, ERROR, QUEUED, RUNNING, PROCESSING, FINISHED_SUCCESS, FINISHED_ERRORS, DISABLED, INCOMPLETE, not writeable	No
type	(AssetDataConnectorType) AWS, not writeable	No
defaultTags	(TagSimpleQList) Tags applied to any asset discovered by the connector	Yes
activation	(List<ActivationModule>) Assets discovered by the connector will be activated	Yes

	for the modules specified	
disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled the connector will not synchronize assets.	Yes
awsAccountId	The AWS account ID an asset data connector is connecting to.	No

Associations

TagSimpleQList - Asset tags to be applied to assets found by the connector. This collection to be added to and removed from by providing a tag ID wrapped in a TagSimple element.

TagSimple	
id	(long) Primary key
name	(string) Tag name

AWS Asset Data Connector 2.0

Get AWS Connector Info

/qps/rest/2.0/get/am/awsassetdataconnector/<id>

[GET]

Returns a single AWS connector by ID.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for the AWS connector. [Learn more about limiting your results]

Permissions required - Managers with full scope.

Sample 1 - Fetch the asset data connector with the ID 12345

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/awsassetdataconnecto
r/12345"
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="httpd://qualysapi.qualys.com/qps/xsd/2.
0/am/aws_asset_data-connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AwsAssetDataConnector>
      <id>12345</id>
      <name>new connector</name>
      <awsAccountId>205767712438</awsAccountId>
```

```
      <lastSync>2014-11-26T09:27:48Z</lastSync>
      <lastError>Invalid EC2 AuthRecord</lastError>
      <connectorState>ERROR</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>1</id>
            <name>EC2</name>
          </TagSimple>
        </list>
      </defaultTags>
      <activation>
        <list>
           <ActivationModule>VM</ActivationModule>
           <ActivationModule>CLOUDVIEW</ActivationModule>
        </list>
      </activation>
            <arn>arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
           <externalId>pod13-xxxxxx-xxxxx</externalId>
      <endpoints>
        <list/>
      </endpoints>
      <allRegions>true</allRegions>
    </AwsAssetDataConnector>
  </data>
</ServiceResponse>
```

Sample 2 - Fetch the EC2 connector information with the ID 78801, that has CertView module activated.

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/awsassetdataconnecto
r/78801"
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://v-
```

```
qps1.dev.qualys.com:8080/portal-
api/xsd/2.0/am/asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AssetDataConnector>
            <id>78801</id>
            <name>cv</name>
            <awsAccountId>383031258652</awsAccountId>
            <lastSync>2019-02-12T23:58:05Z</lastSync>
            <connectorState>FINISHED_SUCCESS</connectorState>
            <type>AWS</type>
            <activation>
                <list>
                    <ActivationModule>CERTVIEW</ActivationModule>
                    <ActivationModule>VM</ActivationModule>
                </list>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
        </AssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 3 - Get connector details

Here's how to get details on a connector using GET request. This connector is using ARN. For more information on ARN authentication, refer to [Support for Cross-Account Role Authentication](#).

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/awsassetdataconn
ector/19201"
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0
/am
/aws_asset_data_connector.xsd"> responseCode>SUCCESS</responseCode>
```

```
   <count>1</count>
   <data>
      <AwsAssetDataConnector>
      <id>19201</id>
      <name>user_john</name>
      <awsAccountId>205767712438</awsAccountId>
      <lastSync>2018-02-15T12:51:00Z</lastSync>
      <connectorState>FINISHED_SUCCESS</connectorState>
      <type>AWS</type>
      <defaultTags>
         <list/>
      </defaultTags>
      <activation>
        <list>
           <ActivationModule>CLOUDVIEW</ActivationModule>
        </list>
      </activation>
      <disabled>false</disabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
      <arn>arn:aws:iam::205767712438:role/qualys_dev_test</arn>
      <externalId>pod13-xxxxxx-xxxxx</externalId>
      <qualysAwsAccountId>383031258652</qualysAwsAccountId>
      <endpoints>
      <list>
      <AwsEndpointSimple>
         <regionCode>ap-south-1</regionCode>
         </AwsEndpointSimple>
      </list>
      </endpoints>
     <allRegions>false</allRegions>
     </AwsAssetDataConnector>
   </data>
</ServiceResponse>
```


XSD

[<platform API server>](#)/qps/xsd/2.0/am/aws_asset_data_connector.xsd

Create AWS Connector

/qps/rest/2.0/create/am/awsassetdataconnector

[POST]

Creates an AWS asset data connector.

disabled (boolean) is used to disable an EC2 connector. This parameter can be set for a “create” or “update” request. When set to “true” the connector is disabled and will not run.

- If a single connector is run and it is disabled an error is returned.

- If multiple connectors are run and all are disabled an error is returned.

- If multiple connectors are run and some are disabled, only connectors that are enabled will run.

Permissions required - Managers with full scope.

Sample 1 - Create new AWS asset data connector

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <AwsAssetDataConnector>
            <name>V2 Connector</name>
            <arn>arn:aws:iam::xxxxxxxxxxxx:role/CloudView</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <defaultTags>
```

```
                <set>
                    <TagSimple>
                        <id>xxxxxxxx</id>
                    </TagSimple>
                </set>
            </defaultTags>
            <activation>
            <set>
                <ActivationModule>VM</ActivationModule>
            </set>
            </activation>
            <allRegions>true</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.p13.eng.sjc01.qualys.
com/qps/xsd/2.0/am/aws_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>xxxxxx</id>
            <name>V2 Connector</name>
            <awsAccountId>xxxxxxxxxxxx</awsAccountId>
            <lastSync>2022-11-28T10:30:44Z</lastSync>
            <connectorState>QUEUED</connectorState>
            <type>AWS</type>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
            <arn>arn:aws:iam::xxxxxxxxxxxx:role/CloudView</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <qualysAwsAccountId>xxxxxxxxxxxx</qualysAwsAccountId>
            <allRegions>true</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 2 - Create new AWS asset data connector in disabled state

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
       <AwsAssetDataConnector>
            <name>conn-disabled</name>
            <activation>
                <set>
                    <ActivationModule>VM</ActivationModule>
                    <ActivationModule>PC</ActivationModule>
                </set>
            </activation>
                 <arn>arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <allRegions>true</allRegions>
            <disabled>true</disabled>
        </AwsAssetDataConnector>
    </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/aws_asset_data-connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>254401</id>
            <name>disabled-connector</name>
            <connectorState>DISABLED</connectorState>
```

```
            <type>AWS</type>
            <defaultTags>
                <list/>
            </defaultTags>
            <activation>
                <list>
                    <ActivationModule>VM</ActivationModule>
                    <ActivationModule>PC</ActivationModule>
                </list>
            </activation>
            <disabled>true</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <endpoints>
                <list>
                    <AwsEndpointSimple>
                        <regionCode>us-west-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-northeast-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>eu-west-1</regionCode>
                    </AwsEndpointSimple>
...
                    <AwsEndpointSimple>
                        <regionCode>us-east-2</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>me-south-1</regionCode>
                    </AwsEndpointSimple>
                </list>
            </endpoints>
            <allRegions>true</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 3 - Create new AWS asset data connector to be available in the CloudView App

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <AwsAssetDataConnector>
      <name>ARN Connector</name>
         <arn>arn:aws:iam::205767712433:role/qualys-demo-account</arn>
          <externalId>pod13-xxxxxx-xxxxx</externalId>
         <allRegions>true</allRegions>
         <useForCloudView>true</useForCloudView>
    </AwsAssetDataConnector>
  </data>
</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/2.
0/am/aws_asset_data_connector.xsd">''
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>266408</id>
            <name>conn1</name>
            <awsAccountId> 205767712433</awsAccountId>
            <connectorState>QUEUED</connectorState>
            <type>AWS</type>
            <activation>
                <list>
                    <ActivationModule>CLOUDVIEW</ActivationModule>
                </list>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
```

```
            <arn>arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
           <externalId>pod13-xxxxxx-xxxxx</externalId>
            <qualysAwsAccountId>205767712438</qualysAwsAccountId>
            <endpoints>
                <list>
                    <AwsEndpointSimple>
                        <regionCode>us-west-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-northeast-1</regionCode>
                    </AwsEndpointSimple>
                   ...
                </list>
            </endpoints>
            <allRegions>true</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 4 - Create connectors to include CERTVIEW module

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor/" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <AwsAssetDataConnector>
      <name>ARN_Global</name>
         <arn>arn:aws:iam::705355653965:role/Demo-PODs</arn>
          <externalId>pod13-xxxxxx-xxxxx</externalId>
         <allRegions>true</allRegions>
           <activation>
              <set>
                <ActivationModule>VM</ActivationModule>
                <ActivationModule>CERTVIEW</ActivationModule>
```

```
              </set>
            </activation>
    </AwsAssetDataConnector>
  </data>
</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/2.
0/am/aws_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>566601</id>
            <name>ARN_Global</name>
            <awsAccountId>705355653965</awsAccountId>
            <connectorState>QUEUED</connectorState>
            <type>AWS</type>
            <activation>
                <list>
                    <ActivationModule>CERTVIEW</ActivationModule>
                    <ActivationModule>VM</ActivationModule>
                </list>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
            <arn>arn:aws:iam::705355653965:role/Demo-PODs</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <qualysAwsAccountId>383031258652</qualysAwsAccountId>
            <endpoints>
                <list>
                    <AwsEndpointSimple>
                        <regionCode>us-west-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-northeast-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>eu-west-1</regionCode>
                    </AwsEndpointSimple>
```

```
                    <AwsEndpointSimple>
                        <regionCode>eu-central-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-southeast-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>us-east-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ca-central-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>eu-west-2</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-southeast-2</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>sa-east-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-northeast-2</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-south-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>us-west-2</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>us-east-2</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>eu-west-3</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>me-south-1</regionCode>
                    </AwsEndpointSimple>
                </list>
            </endpoints>
            <allRegions>true</allRegions>
        </AwsAssetDataConnector>
    </data>
```

```
</ServiceResponse>
```

Sample 5 - Create Connector with specific regions using V2 APIs

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <AwsAssetDataConnector>
            <name>new connector</name>
            <arn>arn:aws:iam::XXXXXXXXXXXX:role/ARN_UPGRADE</arn>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <defaultTags>
            <set>
            <TagSimple>
                <id>1</id>
            </TagSimple>
            </set>
            </defaultTags>
            <endpoints>
            <add>
                    <AwsEndpointSimple>
                        <regionCode>af-south-1</regionCode>
                        </AwsEndpointSimple>
                        <AwsEndpointSimple>
                        <regionCode>eu-south-1</regionCode>
                    </AwsEndpointSimple>
                </add>
            </endpoints>
            <activation>
                <set>
                <ActivationModule>VM</ActivationModule>
                </set>
            </activation>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
```

```
            <allRegions>false</allRegions>
        </AwsAssetDataConnector>
    </data>
</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/2.
0/am/aws_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>1998946</id>
            <name>&amp;gt;new connector</name>
            <awsAccountId>XXXXXXXXXXXX</awsAccountId>
            <lastSync>2023-01-13T10:52:17Z</lastSync>
            <connectorState>SUCCESS</connectorState>
            <type>AWS</type>
<defaultTags>
<list>
<TagSimple>
 <id>1</id>
 <name>EC2</name>
 </TagSimple>
</list>
</defaultTags>
            <activation>
                <set>
                    <ActivationModule>VM</ActivationModule>
                </set>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
            <arn>arn:aws:iam::XXXXXXXXXXXX:role/ARN_UPGRADE</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <qualysAwsAccountId>205767712438</qualysAwsAccountId>
            <allRegions>false</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 6 - Create AWS Gov Cloud Connector with specific regions using V2 APIs

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <AwsAssetDataConnector>
            <name>gov-cloud</name>
            <arn>arn:aws:iam::XXXXXXXXXXXX:role/GOV_ARN</arn>
            <allRegions>false</allRegions>
            <isGovCloudConfigured>true</isGovCloudConfigured>
            <endpoints>
<add>
                    <AwsEndpointSimple>
                        <regionCode>us-gov-west-1</regionCode>
                    </AwsEndpointSimple>
</add>
            </endpoints>
            <activation>
                <set>
<ActivationModule>VM</ActivationModule>
                </set>
            </activation>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
        </AwsAssetDataConnector>
    </data>
</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/2.
0/am/aws_asset_data_connector.xsd">
```

```
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>2000148</id>
            <name>gov-cloud</name>
            <awsAccountId>XXXXXXXXXXXX</awsAccountId>
            <lastSync>2023-01-13T11:03:53Z</lastSync>
            <connectorState>SUCCESS</connectorState>
            <type>AWS</type>
            <activation>
                <set>
                    <ActivationModule>VM</ActivationModule>
                </set>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>true</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
            <arn>arn:aws:iam::XXXXXXXXXXXX:role/GOV_ARN</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <qualysAwsAccountId>XXXXXXXXXXXX</qualysAwsAccountId>
            <allRegions>false</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 7 - Create AWS China Cloud Connector with specific regions using V2 APIs

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <AwsAssetDataConnector>
```

```
            <name>cn-conn1</name>
            <arn>arn:aws:iam::XXXXXXXXXXXX:role/CHINA_ARN</arn>
            <allRegions>false</allRegions>
            <isChinaConfigured>true</isChinaConfigured>
            <endpoints>
            <add>
                    <AwsEndpointSimple>
                        <regionCode>cn-northwest-1</regionCode>
                    </AwsEndpointSimple>
            </add>
            </endpoints>
            <activation>
                <set>
                <ActivationModule>VM</ActivationModule>
                </set>
            </activation>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
        </AwsAssetDataConnector>
    </data>
</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/2.
0/am/aws_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>2000149</id>
            <name>cn-conn1</name>
            <awsAccountId>XXXXXXXXXXXX</awsAccountId>
            <lastSync>2023-01-13T11:03:53Z</lastSync>
            <connectorState>SUCCESS</connectorState>
            <type>AWS</type>
            <activation>
                <set>
                    <ActivationModule>VM</ActivationModule>
                </set>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
```

```
            <isChinaConfigured>true</isChinaConfigured>
            <arn>arn:aws:iam::XXXXXXXXXXXX:role/CHINA_ARN</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <qualysAwsAccountId>383031258652</qualysAwsAccountId>
            <allRegions>false</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data-connector.xsd

Support for AWS GovCloud

/qps/rest/2.0/create/am/awsassetdataconnector

[POST]

Creates an AWS asset data connector for GovCloud regions: us-gov-west-1 and us-gov-east-1.

disabled (boolean) is used to disable an EC2 connector. This parameter can be set for a “create” or “update” request. When set to “true” the connector is disabled and will not run.

- If a single connector is run and it is disabled an error is returned.

- If multiple connectors are run and all are disabled an error is returned.

- If multiple connectors are run and some are disabled, only connectors that are enabled will run.

Permissions required - Managers with full scope.

Sample - Create new AWS asset data connector for GovCloud

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
       <AwsAssetDataConnector>
            <name>gov-cloud</name>
            <activation>
                <set>
```

```
                    <ActivationModule>VM</ActivationModule>
                    <ActivationModule>PC</ActivationModule>
                </set>
            </activation>
            <isGovCloudConfigured>true</isGovCloudConfigured>
                   <arn>arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
           <externalId>pod13-xxxxxx-xxxxx</externalId>
            <allRegions>false</allRegions>
            <disabled>false</disabled>
        </AwsAssetDataConnector>
    </data>
</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/2.
0/am/aws_asset_data-connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>149008</id>
            <name>gov-cloud</name>
            <awsAccountId>205767712438</awsAccountId>
            <connectorState>PENDING</connectorState>
            <type>AWS</type>
            <defaultTags>
                <list/>
            </defaultTags>
            <activation>
                <list>
                    <ActivationModule>VM</ActivationModule>
                    <ActivationModule>PC</ActivationModule>
                </list>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>true</isGovCloudConfigured>
            <endpoints>
                <list>
                    <AwsEndpointSimple>
                        <regionCode>us-gov-west-1</regionCode>
```

```
                        <regionCode>us-gov-east-1</regionCode>
                    </AwsEndpointSimple>
                </list>
            </endpoints>
            <allRegions>false</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data-connector.xsd

Support for China Region

/qps/rest/2.0/create/am/awsassetdataconnector

[POST]

Creates an AWS asset data connector for China regions: cn-north-1 and cn-northwest-1.

You can easily scan EC2 instances included in the AWS China region for vulnerabilities and policy compliance using the Qualys Cloud Platform. You can create/update EC2 connectors to pull instance info from the China region, activate discovered instances for the VM, PC or SCA module, and scan them using our EC2 scan workflow.

isChinaConfigured (boolean) is used to enable the China region for an EC2connector using the AWS Asset Data Connector API (awsassetdataconnector). This parameter can be set for a “create” or “update” request, and is valid only when AWS China option is enabled for your subscription.

When isChinaConfigured is set to “true”

- The connector is configured to pull instance info from the China region only.

- The connector can’t be configured with allRegions set to “true”.

Permissions required - Managers with full scope.

Sample - Create new AWS asset data connector for China region

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
   <AwsAssetDataConnector>
       <name>cn-conn1</name>
                <arn>arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
           <externalId>pod13-xxxxxx-xxxxx</externalId>
       <endpoints>
                <add>
                    <AwsEndpointSimple>
                        <regionCode>cn-north-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>cn-northwest-1</regionCode>
                    </AwsEndpointSimple>
              </add>
          </endpoints>
           <isChinaConfigured>true</isChinaConfigured>
       <disabled>false</disabled>
    </AwsAssetDataConnector>
  </data>
</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/2.
0/am/aws_asset_data_connector.xsd">
   <responseCode>SUCCESS</responseCode>
   <count>1</count>
     <data>
       <AwsAssetDataConnector>
           <id>136605</id>
            <name>cn-conn1</name>
            <awsAccountId>205767712438</awsAccountId>
             <connectorState>QUEUED</connectorState>
            <type>AWS</type>
           <defaultTags>
          <list/>
              </defaultTags>
              <activation>
          <list/>
```

```
            </activation>
            <disabled>false</disabled>
              <isGovCloudConfigured>false</isGovCloudConfigured>
               <isChinaConfigured>true</isChinaConfigured>
                <arn>arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
               <externalId>pod13-xxxxxx-xxxxx</externalId>
             <endpoints>
          <list>
              <AwsEndpointSimple>
                  <regionCode>cn-north-1</regionCode>
              </AwsEndpointSimple>
              <AwsEndpointSimple>
                  <regionCode>cn-northwest-1</regionCode>
              </AwsEndpointSimple>
          </list>
         </endpoints>
        <allRegions>false</allRegions>
    </AwsAssetDataConnector>
   </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data_connector.xsd

Support for Cross-Account Role Authentication

/qps/rest/2.0/create/am/awsassetdataconnector

[POST]

Creates an AWS asset data connector using Cross-Account Role Authentication.

Qualys supports the creation of EC2 connectors using a cross-account access role. This allows you to grant Qualys access to your AWS EC2 instances without sharing your AWS security credentials. Qualys will access your AWS EC2 instances by assuming the IAM role that you create in your AWS account.

To get started you'll need an IAM role created using your AWS account.You can update your existing EC2 connectors to now use cross-account access roles. Note that this migration of your existing EC2 connector to cross account role is unidirectional and cannot be reverted.

You can create only one connector for each unique AWS account. It's recommended that you merge multiple EC2 connectors into one by removing duplicate connectors before you upgrade to ARN.

Permissions required - Managers with full scope.

Sample 1 - Create a new connector

Create connector when you already have the ARN generated from your AWS account

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
   <data>
      <AwsAssetDataConnector>
      <name>user_john</name>
      <arn>arn:aws:iam::705355653965:role/ARN_UPGRADE</arn>
      <externalId>pod13-xxxxxx-xxxxx</externalId>
      <endpoints>
         <add>
            <AwsEndpointSimple>
            <regionCode>ap-south-1</regionCode>
            </AwsEndpointSimple>
         </add>
      </endpoints>
      <disabled>false</disabled>
      </AwsAssetDataConnector>
   </data>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0
/am/aws_asset_data_connector.xsd">
<responseCode>SUCCESS</responseCode>
   <count>1</count>
      <data>
      <AwsAssetDataConnector>
         <id>19803</id>
         <name>user_john</name>
         <awsAccountId>205767712438</awsAccountId>
         <connectorState>QUEUED</connectorState>
         <type>AWS</type>
         <defaultTags>
            <list/>
         </defaultTags>
         <activation>
            <list/>
         </activation>
         <disabled>false</disabled>
         <isGovCloudConfigured>false</isGovCloudConfigured>
         <isChinaConfigured>false</isChinaConfigured>
         <arn>arn:aws:iam::705355653965:role/ARN_UPGRADE</arn>
```

```
         <externalId>pod13-xxxxxx-xxxxx</externalId>
         <qualysAwsAccountId>383031258652</qualysAwsAccountId>
         <endpoints>
            <list>
            <AwsEndpointSimple>
               <regionCode>ap-south-1</regionCode>
            </AwsEndpointSimple>
            </list>
         </endpoints>
         <allRegions>false</allRegions>
      </AwsAssetDataConnector>
   </data>
</ServiceResponse>
```

Sample 2 - Create a new connector when you want to provide the ARN later

If you have dependencies and cannot provide the ARN at the time of creation, you could always provide the ARN at a later stage. In this case, the AWS connector is created with an INCOMPLETE state.

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconne
ctor" < file.xml
Note: "file.xml" contains the request POST data.
Request POST data (file.xml):
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
   <data>
      <AwsAssetDataConnector>
         <name>user_john</name>
         <endpoints>
         <add>
         <AwsEndpointSimple>
         <regionCode>ap-south-1</regionCode>
         </AwsEndpointSimple>
         </add>
         </endpoints>
         <disabled>false</disabled>
         </AwsAssetDataConnector>
```

```
   </data>
</ServiceRequest>
```

XML output

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0
/am/aws_asset_data_connector.xsd">
<responseCode>SUCCESS</responseCode>
   <count>1</count>
  <data>
   <AwsAssetDataConnector>
   <id>19201</id>
   <name>my-aws-connector</name>
   <awsAccountId>205767712438</awsAccountId>
   <connectorState>INCOMPLETE</connectorState>
   <type>AWS</type>
      <defaultTags>
      <list/>
      </defaultTags>
   <activation>
      <list/>
   </activation>
   <disabled>false</disabled>
   <isGovCloudConfigured>false</isGovCloudConfigured>
   <externalId>pod13-xxxxxx-xxxxx</externalId>
   <qualysAwsAccountId>383031258652</qualysAwsAccountId>
   <endpoints>
   <list>
      <AwsEndpointSimple>
      <regionCode>ap-south-1</regionCode>
      </AwsEndpointSimple>
   </list>
   </endpoints>
   <allRegions>false</allRegions>
   </AwsAssetDataConnector>
   </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data-connector.xsd

Update AWS Connector

/qps/rest/2.0/update/am/awsassetdataconnector

/qps/rest/2.0/update/am/awsassetdataconnector/<id>

[POST]

Updates writable fields and collections.

Using the NOT EQUALS operator for updating AWS connectors could result in accidental update of unknown AWS connectors without any warning. To prevent accidental updates of unknown AWS connectors, we do not support NOT EQUALS operator for update actions.

Permissions required - Managers with full scope.

Sample 1 - Update AWS connector name

Change the name of an asset data connector with ID of 12345, add a tag with the ID of 1 to the defaultTags collection, and add us-east-1 as scanned region

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/awsassetdataconne
ctor/12345" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <AwsAssetDataConnector>
            <name>Updated Name</name>
            <defaultTags>
              <add>
```

```
                <TagSimple>
                  <id>1</id>
                </TagSimple>
              </add>
            </defaultTags>
            <endpoints>
                <add>
                    <AwsEndpointSimple>
                        <regionCode>us-east-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>me-south-1</regionCode>
                    </AwsEndpointSimple>
                <add>
            <endpoints>
        </AwsAssetDataConnector>
    </data>
</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/2.
0/am/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AssetDataConnector>
      <id>12345</id>
      <name>External VPC</name>
      <lastSync>2014-11-26T08:44:05Z</lastSync>
      <lastError />
      <connectorState>SUCCESS</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>1</id>
            <name>EC2</name>
          </TagSimple>
        </list>
      </defaultTags>
```

```
      <activation>
        <ActivationModule>VM</ActivationModule>
      </activation>
      <disabled>false</disabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

Sample 2 - Update existing key-based connector to cross-account role

Here's how to update an existing connector to use a cross-access account role. You'll need the ARN generated from your AWS account. Note that this migration of your existing EC2 connector to cross account role is unidirectional and cannot be reverted.

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/awsassetdataconne
ctor/12345" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
   <data>
      <AwsAssetDataConnector>
         <arn>arn:aws:iam::205767712438:role/qualys_dev_test</arn>
         <externalId>pod13-xxxxxx-xxxxx</externalId>
      </AwsAssetDataConnector>
   </data>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0
/am/aws_asset_data_connector.xsd">
```

```
<responseCode>SUCCESS</responseCode>
   <count>1</count>
   <data>
      <AwsAssetDataConnector>
         <id>19201</id>
      </AwsAssetDataConnector>
   </data>
</ServiceResponse>
```

Sample 3 - Update existing AWS asset data connector to make it available in the CloudView App

Change the name of an asset data connector with ID of 12345, add a tag with the ID of 1 to the defaultTags collection, and add us-east-1 as scanned region

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/awsassetdataconne
ctor/266203" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
     <AwsAssetDataConnector>
       <useForCloudView>true</useForCloudView>
     </AwsAssetDataConnector>
    </data>
</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/2.
0/am/aws_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
```

```
        <AwsAssetDataConnector>
            <id>266203</id>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 4 - Update existing AWS asset data connector to include CertView module

Change the name of an asset data connector with ID of 12345, add a tag with the ID of 1 to the defaultTags collection, and add us-east-1 as scanned region

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/awsassetdataconne
ctor/80201"
< file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
 <data>
 <AwsAssetDataConnector>
    <name>new connector-edit</name>
    <activation>
        <add>
            <ActivationModule>CERTVIEW</ActivationModule>
        </add>
    </activation>
 </AwsAssetDataConnector>
 </data>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://v-
```

```
qps1.dev.qualys.com:8080/portal-
api/xsd/2.0/am/aws_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>80201</id>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data_connector.xsd

Search AWS Connectors

/qps/rest/2.0/search/am/awsassetdataconnector

[POST]

Returns a list of AWS connectors that match the provided criteria.

Limit your results - Use the optional "fields" parameter to limit the amount of information returned for each AWS connector. Learn more about limiting your results

Pagination - A maximum of 100 instances are returned by default. To customize this specify a "preferences" tag in the POST body of your request.

Permissions required - Managers with full scope.

Searchable fields

Click here for available operators

Parameter	Description
id	(Integer) Primary key
name	(Text)
description	(Text)
lastSync	(Date)
lastError	(Text)
connectorState	(Keyword) (AssetDataConnectorState) PENDING, SUCCESS, ERROR, QUEUED, RUNNING, PROCESSING, FINISHED_SUCCESS, FINISHED_ERRORS, DISABLED, INCOMPLETE, not

	writeable
activation	(Keyword) VM, PC, SCA, CERTVIEW
defaultTags.name	(Text) The name of a tag in the defaultTags collection
defaultTag	(Integer) The ID of a tag in the defaultTags collection
allRegions	(Boolean)
serviceType	(Keyword) EC2
endpoint.region	(Text) AWS region code
disabled	(Boolean) Whether execution of the connector is disabled (YES). If disabled the connector will not synchronize assets.

Sample 1 - Find all asset data connectors with tag name USA

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="defaultTags.name"
operator="EQUALS">USA</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/xsd/2.0/am
/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>13</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AwsAssetDataConnector>
      <id>12345</id>
      <name>NEW Connector</name>
      <awsAccountId>205767712438</awsAccountId>
      <lastSync>2014-11-26T09:27:48Z</lastSync>
      <lastError>Invalid EC2 AuthRecord</lastError>
      <connectorState>ERROR</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>1</id>
            <name>USA</name>
          </TagSimple>
        </list>
      </defaultTags>
      <activation/>
                <arn>arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
           <externalId>pod13-xxxxxx-xxxxx</externalId>
      <endpoints>
        <list>
          <AwsEndpointSimple>
            <regionCode>us-east-1</regionCode>
          </AwsEndpointSimple>
        </list>
      </endpoints>
      <allRegions>false</allRegions>
    </AwsAssetDataConnector>
  </data>
</ServiceResponse>
```


Sample 2 - Search AWS asset data connectors that are made available in the CloudView App

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
       <Criteria field="activation"
operator="EQUALS">CLOUDVIEW</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/2.
0/am/aws_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <AwsAssetDataConnector>
            <id>266408</id>
            <name>conn1</name>
            <awsAccountId>205767712433</awsAccountId>
            <connectorState>QUEUED</connectorState>
            <type>AWS</type>
            <activation>
                <list>
                    <ActivationModule>CLOUDVIEW</ActivationModule>
                </list>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
            <arn> arn:aws:iam::205767712433:role/qualys-demo-
account</arn>
           <externalId>pod13-xxxxxx-xxxxx</externalId>
```

```
            <qualysAwsAccountId>205767712438</qualysAwsAccountId>
            <endpoints>
                <list>
                    <AwsEndpointSimple>
                        <regionCode>us-west-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                        <regionCode>ap-northeast-1</regionCode>
                    </AwsEndpointSimple>
                    <AwsEndpointSimple>
                    ...
                </list>
            </endpoints>
            <allRegions>true</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data_connector.xsd

Count AWS Connectors

/qps/rest/2.0/count/am/awsassetdataconnector

[POST]

Returns the number of AWS connectors that match the provided criteria.

Permissions required - Managers with full scope.

Sample - Get count of AWS connectors

Count the number of AWS connectors with the tag name USA

API request

```
curl -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/count/am/awsassetdataconnec
tor"< file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="defaultTags.name"
operator="EQUALS">USA</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/2.
0/am/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data_connector.xsd

Delete AWS Connector

/qps/rest/2.0/delete/am/awsassetdataconnector

/qps/rest/2.0/delete/am/awsassetdataconnector/<id>

[POST]

Delete one or more AWS connectors.

Using the NOT EQUALS operator for deleting AWS connectors could result in accidental deletion of AWS connectors without any warning. To prevent accidental deletion of unknown AWS connectors, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with full scope.

Sample 1 - Delete a single AWS connector

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/awsassetdataconne
ctor/12345"
```

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/2.
0/am/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AssetDataConnector><id>12345</id></AssetDataConnector>
  </data>
</ServiceResponse>
```

Sample 2 - Delete several AWS connectors tagged with the To Delete tag

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/awsassetdataconne
ctor" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">To
Delete</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/2.
0/am/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AssetDataConnector>
      <id>1972521</id>
    </AssetDataConnector>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/aws_asset_data_connector.xsd

Run AWS Connector

/qps/rest/2.0/run/am/assetdataconnector

/qps/rest/2.0/run/am/assetdataconnector/<id>

[POST]

Request that one or more asset data connectors are run. The connectors may be run immediately, or queued to run when there is capacity. The response will almost always indicate that the connector is pending. Use GET calls to monitor the status of connectors.

Permissions required - Managers with full scope.

See Run Connector

AWS Connector Fields

Field name	Description	Writable
id	(long) Primary key, not writeable	No
name	(string)	Yes
description	(string)	Yes
lastSynch	(date) Last synch date, not writeable	No
lastError	(string) Last error, not writeable	No
connectorState	(AssetDataConnectorState) PENDING, SUCCESS, ERROR, QUEUED, RUNNING, PROCESSING, FINISHED_SUCCESS, FINISHED_ERRORS, DISABLED, INCOMPLETE, not writeable	No
type	(AssetDataConnectorType) AWS, not writeable	No
defaultTags	(TagSimpleQList) Tags applied to any asset discovered by the connector	Yes
activation	(List<ActivationModule>) Assets discovered by the connector will be activated	Yes

	for the modules specified	
serviceType	(AwsServiceType) EC2	Yes
allRegions	(boolean) If true the end point's collection will be ignored an all AWS regions scanned	Yes
disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled the connector will not synchronize assets.	Yes
arn	Generated by AWS. Ensure that you provide the same ARN that is generated by AWS.	Yes
externalId	Random string which is unique for each user.	Yes
awsAccountId	The AWS account ID an AWS asset data connector is connecting to.	No
useForCloudView	(boolean) If true the connector is made available in the CloudView App.	Yes

Associations

AwsEndointSimpleQList - A basic wrapper with one field: regionCode. This is the AWS region code, e.g. us-east-1.

Azure Asset Data Connector 2.0

Get Azure Connector Info

/qps/rest/2.0/get/am/azureassetdataconnector/<id>

[GET]

Returns a single Azure connector by ID.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for the Azure connector.

Permissions required - Managers with full scope.

Sample 1 - List (view) specific Azure Connector

API request

```
curl -n -u "USERNAME:PASSWORD"-H "Content-type: text/xml" -X "POST"
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/azureassetdataconnec
tor/12345"
```

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/2.
0/am/azure_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AzureAssetDataConnector>
      <id>287603</id>
      <name>My Azure connector</name>
      <description>Sample Connector</description>
      <lastSync>2019-05-25T03:28:03Z</lastSync>
      <connectorState>FINISHED_SUCCESS</connectorState>
```

```
      <type>AZURE</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>8523019</id>
            <name>azure static tag</name>
          </TagSimple>
        </list>
      </defaultTags>
      <disabled>false</disabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
      <authRecord>
        <applicationId>33333333-3333-3333-3333-
333333333333</applicationId>
        <directoryId>22222222-2222-2222-2222-
222222222222</directoryId>
        <subscriptionId>11111111-1111-1111-1111-
111111111111</subscriptionId>
      </authRecord>
    </AzureAssetDataConnector>
  </data>
</ServiceResponse>
```

Sample 2 - List all Azure Connectors

API request

```
curl -n -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
 "https://qualysapi.qualys.com/qps/rest/2.0/get/am/azureassetdataconne
ctor"
```

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/2.
0/am/azure_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>2</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <AzureAssetDataConnector>
            <id>287603</id>
            <name>My Azure connector</name>
```

```
            <description>Sample Connector</description>
            <lastSync>2019-05-27T06:26:29Z</lastSync>
            <connectorState>QUEUED</connectorState>
            <type>AZURE</type>
            <defaultTags>
                <list>
                    <TagSimple>
                        <id>8523019</id>
                        <name>azure static tag</name>
                    </TagSimple>
                </list>
            </defaultTags>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <authRecord/>
        </AzureAssetDataConnector>
        <AzureAssetDataConnector>
            <id>289601</id>
            <name>Sample Azure Connector</name>
            <description>azure connector</description>
            <lastSync>2019-05-26T02:26:30Z</lastSync>
            <connectorState>QUEUED</connectorState>
            <type>AZURE</type>
            <defaultTags>
                <list>
                    <TagSimple>
                        <id>8523019</id>
                        <name>azure static tag</name>
                    </TagSimple>
                </list>
            </defaultTags>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <authRecord/>
        </AzureAssetDataConnector>
    </data>
</ServiceResponse>
```


XSD

[<platform API server>](#)/qps/xsd/2.0/am/azure_asset_data_connector.xsd

Create Azure Connector

/qps/rest/2.0/create/am/azureassetdataconnector

[POST]

Creates Azure asset data connector.

Permissions required - Managers with full scope.

Sample 1 - Create Azure connector

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/azureassetdatacon
nector" <file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<ServiceRequest>
    <data>
        <AzureAssetDataConnector>
            <name>Azure Connector</name>
            <description>Sample Azure Connector</description>
            <defaultTags>
                <set>
                    <TagSimple>
                        <id>8523019</id>
                    </TagSimple>
                </set>
            </defaultTags>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <authRecord>
                <applicationId>33333333-3333-3333-3333-
333333333333</applicationId>
```

```
                <directoryId>22222222-2222-2222-2222-
222222222222</directoryId>
                <subscriptionId>11111111-1111-1111-1111-
111111111111</subscriptionId>
                <authenticationKey>02LCb8/RCn0lbGj6xcOGQPZlYG2z85aSmCx
noH01rog=</authenticationKey> <!-- this is sensitive info; will never
be replayed back in GET or SEARCH requests -->
            </authRecord>
        </AzureAssetDataConnector>
    </data>
</ServiceRequest>
```

XML output

```
<?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/2.
0/am/azure_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AzureAssetDataConnector>
      <id>289201</id>
      <name>Azure Connector</name>
      <description>Sample Azure Connector</description>
      <connectorState>QUEUED</connectorState>
      <type>AZURE</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>8523019</id>
            <name>azure static tag</name>
          </TagSimple>
        </list>
      </defaultTags>
      <disabled>false</disabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
      <authRecord>
        <applicationId>33333333-3333-3333-3333-
333333333333</applicationId>
        <directoryId>22222222-2222-2222-2222-
222222222222</directoryId>
        <subscriptionId>11111111-1111-1111-1111-
111111111111</subscriptionId>
```

```
      </authRecord>
    </AzureAssetDataConnector>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/awsassetdataconnector.xsd

Update Azure Connector

/qps/rest/2.0/update/am/azureassetdataconnector

/qps/rest/2.0/update/am/azureassetdataconnector/<id>

[POST]

Updates writable fields and collections.

Using the NOT EQUALS operator for updating Azure connectors could result in accidental update of unknown Azure connectors without any warning. To prevent accidental updates of unknown Azure connectors, we do not support NOT EQUALS operator for update actions.

Permissions required - Managers with full scope.

Sample 1 - Update Azure connector name

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/azureassetdatacon
nector/12345" < file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<ServiceRequest>
    <data>
        <AzureAssetDataConnector>
            <id>287603</id>
            <name>Sample Azure Connector</name>
            <description>Update sample Azure connector</description>
        </AzureAssetDataConnector>
    </data>
</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/2.
0/am/azure_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AzureAssetDataConnector>
      <id>287603</id>
      <name>Sample Azure Connector</name>
      <description>Update sample Azure connector</description>
    </AzureAssetDataConnector>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/azure_asset_data_connector.xsd

Search Azure Connectors

/qps/rest/2.0/search/am/azureassetdataconnector

[POST]

Returns a list of Azure connectors that match the provided criteria.

Limit your results - Use the optional “fields” parameter to limit the amount of information returned for each AWS connector.

Pagination - A maximum of 100 instances are returned by default. To customize this specify a “preferences” tag in the POST body of your request.

Permissions required - Managers with full scope.

Searchable fields

Click here for available operators

Parameter	Description
id (integer)	The ID of the connector that you want to search.
name (Text)	Name is the name for the connector you want to search.
description (Text)	Description of the connector you want to search.
lastSync (Date)	Last sync date of the connector
type	(AssetDataConnectorType) Azure, not writeable
applicationId (integer)	Unique identifier of the application you create on Azure portal.

directoryId (integer)	Unique identifier of your Azure Active Directory.
activation	(Keyword) VM, PC, SCA, CERTVIEW
subscriptionId (integer)	Unique identifier of your Microsoft Azure subscription.

Sample 1 - Search Azure Connector using connector name

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/azureassetdatacon
nector" <file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="name" operator="EQUALS">My Azure
connector</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/2.
0/am/azure_asset_data_connector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <AzureAssetDataConnector>
            <id>287603</id>
            <name>My Azure connector</name>
            <description>Sample Connector</description>
            <lastSync>2019-05-27T06:26:29Z</lastSync>
```

```
            <connectorState>QUEUED</connectorState>
            <type>AZURE</type>
            <defaultTags>
                <list>
                    <TagSimple>
                        <id>8523019</id>
                        <name>azure static tag</name>
                    </TagSimple>
                </list>
            </defaultTags>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <authRecord/>
        </AzureAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 2 - Search Azure Connector by subscription ID

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/azureassetdatacon
nector" <file.xml
Note: file.xml contains request POST data
```

Request POST data

```
<ServiceRequest>
    <filters>
        <Criteria field="authRecord.subscriptionId"
operator="EQUALS">11111111-1111-1111-1111-111111111111</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/2.
0/am/azure_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
```

```
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <AzureAssetDataConnector>
      <id>289601</id>
      <name>My Sample Azure Connector</name>
      <description>sample connector</description>
      <lastSync>2019-05-26T02:26:30Z</lastSync>
      <connectorState>QUEUED</connectorState>
      <type>AZURE</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>8523019</id>
            <name>azure static tag</name>
          </TagSimple>
        </list>
      </defaultTags>
      <disabled>false</disabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
      <authRecord/>
    </AzureAssetDataConnector>
  </data>
</ServiceResponse>
```


XSD

<platform API server>/qps/xsd/2.0/am/azure_asset_data_connector.xsd

Delete Azure Connector

/qps/rest/2.0/delete/am/azureassetdataconnector

/qps/rest/2.0/delete/am/azureassetdataconnector/<id>

[POST]

Delete one or more Azure connectors.

Using the NOT EQUALS operator for deleting Azure connectors could result in accidental deletion of Azure connectors without any warning. To prevent accidental deletion of unknown Azure connectors, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with full scope.

Sample 1 - Delete Azure connector

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/2.0/delete/am/azureassetdatacon
nector/289201"
```

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/2.
0/am/azure_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AzureAssetDataConnector>
      <id>289201</id>
    </AzureAssetDataConnector>
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/2.0/am/azure_asset_data_connector.xsd

Connectors 3.0

Connector APIs (3.0)

We have one centralized place for you to create connectors needed for AssetView and CloudView. The application named “Connectors” application.

We are introducing new APIs in Asset Management and Tagging application that can be used as new centralized APIs for AssetView and CloudView connectors. All the new APIs for connectors belong to version 3. The existing AssetView connector APIs (version 2) continue to work without any change. However, we plan to deprecate those version 2 APIs in the coming months.

We recommend you use the new APIs (version 3) for both AssetView and CloudView connectors. The Asset Management and Tagging APIs (version 3) is available to use.

AWS Connectors APIs 3.0

Azure Connectors APIs 3.0

GCP Connectors APIs 3.0

AWS Connectors 3.0

AWS Connectors 3.0

We support the following operations for all AWS connectors in the Connectors application.

Create AWS Connector

Update AWS Connector

Run AWS Connector

Search AWS Connector

Delete AWS Connector

Get AWS Connector Info

Get AWS Base Account

Download AWS CloudFormation Template

Create AWS Connector 3.0

/qps/rest/3.0/create/am/awsassetdataconnector

[POST]

Specify the connector details such as arn, externalId, and so on and create a new connector in the Connectors application.

Permissions required - Managers with full scope.

Input Parameter

Parameters	Description
name	The ID of the connector that you want to update.
description	Name of the connector you want to update.
defaultTags	(TagSimpleQList) Tags applied to any asset discovered by the connector.
activation	(List<ActivationModule>) Assets discovered by the connector is activated for the modules specified.
allRegions	(boolean) If true, the end point's collection is ignored and all the AWS regions scanned.
disabled	(boolean) Whether execution of the connector is disabled. (YES). If disabled, the connector does not synchronize assets. The disabled (boolean) parameter is used to disable a connector. This parameter when set to "true" the

	connector is disabled and will not run. - If a single connector is run and it is disabled an error is returned. - If multiple connectors are run and all are disabled an error is returned. - If multiple connectors are run and some are disabled, only connectors that are enabled will run.
arn	Generated by AWS. Ensure that you provide the same ARN that is generated by AWS.
externalId	Random string which is unique for each user.
runFrequency	runFrequency for a connector decides the rate at which the connector should poll the cloud provider and fetch the data. Specified in minutes.
isRemediationEnabled	A flag to enable or disable remediation for the connector.
connectorAppInfos.set. ConnectorAppInfoQList	A mandatory parent parameter when you need to provide the below parameter, set.ConnectorAppInfo.
set.ConnectorAppInfo	It holds the list of list of ConnectorAppInfo which includes App Name, identifiers and tag details. Connector can one or more apps from list [AI, CI, CSA]. AI-Asset Inventory, CI- Cloud Inventory, CSA-Cloud Security Assessment

Input Parameters for Cloud Perimeter Scan

You can secure publicly exposed cloud assets by enabling cloud perimeter scans for your connectors. Cloud perimeter scans use Qualys External Scanners (Internet Remote Scanners), located at the Qualys Cloud Platform.

You can automate asset discovery of Connectors and with the Cloud Perimeter Scan. This ensures all publicly-exposed assets have perimeter scans performed, based on configurations provided at Connector.

Parameters	Description
isCPSEnabled	(optional) Set this flag to enable or disable cloud perimeter scan for the AWS connector. (Note: If isCPSEnabled flag is enabled, you need to provide the following parameters for the Cloud Perimeter Scan).
connectorScanSetting	Tag to include cloud perimeter scan settings.
isCustomScanConfig Enabled	Use this flag to indicate the scan configuration to be used for cloud perimeters scan. By default, this flag is disabled and the global scan configuration is applied to the cloud perimeter scan. To use custom scan configuration, you need to enable this flag.
optionProfileId	Specify the Option Profile Id. This Id is unique for every user. You can fetch the option profile Id using the List VM Option Profile API (/api/2.0/fo/subscription/option_profile/vm/?action=list). For more information on the how to fetch the option profile Id, refer to Qualys API (VM, PC) User Guide.
recurrence	Specify if the scan should be scheduled on DAILY or WEEKLY basis.
daysOfWeek	Specify the days when the scan should be scheduled. For example, SUN, MON, TUE, WED, THU, FRI, SAT.Note: This field is applicable only if the recurrence field is set to WEEKLY.
scanPrefix	Specify a prefix to be appended to the scan name. Once

	the cloud perimeter scan is triggered from the Vulnerability Management application, the prefix is appended to the scan name. The scan name is in following format: <prefix>-<connectorId>-<timestamp>
startDate	Specify the start date of scan in mm/dd/yyyy format.
startTime	Specify the start time of scan in HH:MM (24 hrs) format.
timezone	Specify the time zone for the cloud perimeter scan to be initiated.

Sample 1 - Create new AWS asset data connector

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/am/awsassetdataconne
ctor"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <AwsAssetDataConnector>
            <name>Test AWSConnector API</name>
            <description>Connector created through API
automation</description>
            <defaultTags>
                <set>
                    <TagSimple>
                        <id>42458382</id>
                    </TagSimple>
                </set>
            </defaultTags>
            <activation>
                <set>
                    <ActivationModule>VM</ActivationModule>
```

```
                    <ActivationModule>CERTVIEW</ActivationModule>
                </set>
            </activation>
            <disabled>false</disabled>
            <arn>arn:aws:iam:::12345678911/role:testrole</arn>
            <externalId>POD-999999-11213331</externalId>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isDeleted>true</isDeleted >
            <allRegions>true</allRegions>
            <runFrequency>300</runFrequency>
            <isRemediationEnabled>true</isRemediationEnabled>
            <connectorAppInfos>
                <set>
                    <ConnectorAppInfoQList>
                        <set>
                        <ConnectorAppInfo>
                            <name>AI</name>
                            <identifier>arn:aws:iam:::12345678911/role
:testrole</identifier>
                            <tagId>42458382</tagId>
                        </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <set>
                        <ConnectorAppInfo>
                            <name>CI</name>
                            <identifier>arn:aws:iam:::12345678911/role
:testrole</identifier>
                            <tagId>42458382</tagId>
                        </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <set>
                        <ConnectorAppInfo>
                            <name>CSA</name>
                            <identifier>arn:aws:iam:::12345678911/role
:testrole</identifier>
                            <tagId>42458382</tagId>
                        </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                </set>
```

```
        </connectorAppInfos>
        </AwsAssetDataConnector>
    </data>
</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/3.
0/am/awsassetdataconnector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>xxxx</id>
            <name>Test AWSConnector API</name>
            <awsAccountId>xxxxxxxxx</awsAccountId>
            <description>Connector created through API
automation</description>
            <connectorState>QUEUED</connectorState>
            <type>AWS</type>
            <defaultTags>
                <list>
                    <TagSimple>
                        <id>xxxxxx</id>
                        <name>CV_Automation_Tag</name>
                    </TagSimple>
                </list>
            </defaultTags>
            <activation>
                <list>
                    <ActivationModule>CLOUDVIEW</ActivationModule>
                    <ActivationModule>CERTVIEW</ActivationModule>
                    <ActivationModule>VM</ActivationModule>
                </list>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
            <runFrequency>300</runFrequency>
            <isRemediationEnabled>true</isRemediationEnabled>
            <connectorAppInfos>
                <list>
```

```
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>arn:aws:iam::xxxxxxxxxxx:r
ole/CV_UI_TestPod</identifier>
                                <tagId>20485923</tagId>
                                <tagMetadata>
                                    <id>xxxxxxxxxxx</id>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>AI</name>
                                <identifier>arn:aws:iam::xxxxxxxxxxx:r
ole/CV_UI_TestPod</identifier>
                                <tagId>20485923</tagId>
                                <tagMetadata>
                                    <id>xxxxxxxxxxx</id>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CI</name>
                                <identifier>arn:aws:iam::xxxxxxxxxxx:r
ole/CV_UI_TestPod</identifier>
                                <tagId>xxxxxxxxxxx</tagId>
                                <tagMetadata>
                                    <id>xxxxxxxxxxx</id>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                </list>
            </connectorAppInfos>
            <arn>arn:aws:iam::xxxxxxxx:role/CV_UI_TestPod</arn>
            <externalId>POD-999999-11213331</externalId>
            <qualysAwsAccountId>xxxxxxxxxxx</qualysAwsAccountId>
```

```
            <allRegions>true</allRegions>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 2: Create AWS Connector

API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/am/awsassetdataconne
ctor"
--header 'Accept: application/json'
```

Request POST Data (JSON)

```
{
  "ServiceRequest": {
    "data": {
      "AwsAssetDataConnector": {
        "name": "AWS Connector Via API",
        "description": "Connector created through API",
        "defaultTags": {
          "set": {
            "TagSimple": {
              "id": 42458382
            }
          }
        },
        "activation": {
          "set": {
            "ActivationModule": [
              "VM","SCA"
            ]
          }
        },
        "disabled": false,
        "arn": "arn:aws:iam:::12345678911/role:testrole",
        "externalId": "POD-999999-11213331",
        "allRegions": true,
        "runFrequency": 240,
        "isRemediationEnabled": true,
        "connectorAppInfos": {
```

```
          "set": {
            "ConnectorAppInfoQList": [
             {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "AI",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                    "tagId": 42458382
                  }
                }
              },
              {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "CI",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                    "tagId": 42458382
                  }
                }
              },
              {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "CSA",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                    "tagId": 42458382
                  }
                }
              }
            ]
          }
        }
      }
    }
  }
}
```


Response (JSON)


```
{
    "ServiceResponse": {
```

```
        "data": [
            {
                "AwsAssetDataConnector": {
                    "description": "Connector created through API",
                    "type": "AWS",
                    "name": "AWS Connector Via API",
                    "externalId": "POD-999999-11213331",
                    "isChinaConfigured": "false",
                    "disabled": "false",
                    "qualysAwsAccountId": "xxxxxxxxxx",
                    "runFrequency": 240,
                    "id": xxxxxxx,
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "tagMetadata": {
                                                    "id": xxxxxxx
                                                },
                                                "name": "AI",
                                                "identifier":
"arn:aws:iam::xxxxxxxxxxxx:role/CV_UI_TestPod",
                                                "tagId": xxxxxxx
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "tagMetadata": {
                                                    "id": xxxxxxx
                                                },
                                                "name": "CSA",
                                                "identifier":
"arn:aws:iam::xxxxxxxxxxxx:role/CV_UI_TestPod",
                                                "tagId": xxxxxxx
                                            }
```

```
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "tagMetadata": {
                                                    "id": xxxxxxx
                                                },
                                                "name": "CI",
                                                "identifier":
"arn:aws:iam::xxxxxxxxx:role/CloudViewPOD1",
                                                "tagId": xxxxxxx
                                            }
                                        }
                                    ]
                                }
                            }
                        ]
                    },
                    "defaultTags": {
                        "list": [
                            {
                                "TagSimple": {
                                    "id": xxxxxxx,
                                    "name": "CV_Automation_Tag"
                                }
                            }
                        ]
                    },
                    "activation": {
                        "ActivationModule": [
                            "CLOUDVIEW",
                            "SCA",
                            "VM"
                        ]
                    },
                    "isGovCloudConfigured": "false",
                    "allRegions": "true",
                    "connectorState": "QUEUED",
```

```
                    "arn":
"arn:aws:iam::xxxxxxxxx:role/CV_UI_TestPod",
                    "awsAccountId": "xxxxxxxxx",
                    "isRemediationEnabled": "true"
                }
            }
        ],
        "count": 1,
        "responseCode": "SUCCESS"
    }
}
}
```

Sample 3: Create AWS Connector with Cloud Perimeter Scan Enabled

API Request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/am/awsassetdataconne
ctor"
--header 'Accept: application/json'
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
   ...
      <id>12345</id>
      <name>Sample Connector</name>
      <lastSync />
      <lastError />
      <connectorState>PENDING</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>1</id>
            <name>EC2</name>
          </TagSimple>
        </list>
      </defaultTags>
```

```
      <activation>
        <ActivationModule>VM</ActivationModule>
      </activation>
      <disabled>false</disabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
       <arn>arn:aws:iam:::12345678911/role:testrole</arn>
       <externalId>POD-999999-11213331</externalId>
      <endpoints>
        <list/>
      </endpoints>
      <allRegions>true</allRegions>
    </AwsAssetDataConnector>
    </data>
</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/3.
0/am/aws_asset_data-connector.xsd">
  <responseCode>SUCCESS</responseCode>
...
  <isCPSEnabled>true</isCPSEnabled>
    <connectorScanSetting>
         <isCustomScanConfigEnabled>true</isCustomScanConfigEnabled>
     </connectorScanSetting>
     <connectorScanConfig>
     <set>
       <ConnectorScanConfiguration>
          <daysOfWeek>
          <set>
             <Day>SUN</Day>
             <Day>MON</Day>
             <Day>TUE</Day>
          </set>
          </daysOfWeek>
          <optionProfileId>2</optionProfileId>
          <recurrence>WEEKLY</recurrence>
          <scanPrefix>Scan aws 02</scanPrefix>
          <startDate>31/05/2022</startDate>
          <startTime>15:45</startTime>
          <timezone>Africa/Cairo</timezone>
     </ConnectorScanConfiguration>
```

```
        </set>
     </connectorScanConfig>
...
  </data>
</ServiceResponse>
```

Sample 4: Create Connector with specific regions using V3 APIs (XML)

API Request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/am/awsassetdataconne
ctor"
```

Request POST data

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/
3.0/am/awsassetdataconnector.xsd">
<responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
     <AwsAssetDataConnector>
          <id>xxxx</id>
          <name>Test AWSConnector API</name>
          <awsAccountId>xxxxxxxxx</awsAccountId>
          <description>Connector created through API
automation</description>
          <connectorState>SUCCESS</connectorState>
          <type>AWS</type>
          <defaultTags>
               <list>
                    <TagSimple>
                         <id>xxxxxx</id>
                         <name>CV_Automation_Tag</name>
                    </TagSimple>
               </list>
          </defaultTags>
```

```
          <activation>
               <list>
                    <ActivationModule>CLOUDVIEW</ActivationModule>
                    <ActivationModule>CERTVIEW</ActivationModule>
                    <ActivationModule>VM</ActivationModule>
               </list>
          </activation>
          <disabled>false</disabled>
          <isGovCloudConfigured>false</isGovCloudConfigured>
          <isChinaConfigured>false</isChinaConfigured>
          <runFrequency>300</runFrequency>
          <isRemediationEnabled>true</isRemediationEnabled>
          <connectorAppInfos>
               <list>
                    <ConnectorAppInfoQList>
                         <list>
                              <ConnectorAppInfo>
                                   <name>CSA</name>
                                   <identifier>arn:aws:iam::xxxxxxxxxx
x:role/CV_UI_TestPod</identifier>
                                   <tagId>20485923</tagId>
                                   <tagMetadata>
                                        <id>xxxxxxxxxxx</id>
                                   </tagMetadata>
                              </ConnectorAppInfo>
                         </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                         <list>
                              <ConnectorAppInfo>
                                   <name>AI</name>
                                   <identifier>arn:aws:iam::xxxxxxxxxx
x:role/CV_UI_TestPod</identifier>
                                   <tagId>20485923</tagId>
                                   <tagMetadata>
                                        <id>xxxxxxxxxxx</id>
                                   </tagMetadata>
                              </ConnectorAppInfo>
                         </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                         <list>
                              <ConnectorAppInfo>
                                   <name>CI</name>
```

```
                                    <identifier>arn:aws:iam::xxxxxxxxxx
x:role/CV_UI_TestPod</identifier>
                                    <tagId>xxxxxxxxxxx</tagId>
                                    <tagMetadata>
                                         <id>xxxxxxxxxxx</id>
                                    </tagMetadata>
                               </ConnectorAppInfo>
                          </list>
                     </ConnectorAppInfoQList>
                </list>
           </connectorAppInfos>
           <arn>arn:aws:iam::xxxxxxxx:role/CV_UI_TestPod</arn>
           <externalId>POD-999999-11213331</externalId>
           <qualysAwsAccountId>xxxxxxxxxxx</qualysAwsAccountId>

           <allRegions>false</allRegions>
      </AwsAssetDataConnector>
</ServiceResponse>
```

Sample 5: Create Connector with specific regions using V3 APIs (JSON)

API Request

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/am/awsassetdataconne
ctor"
--header 'Accept: application/json'
```

Request POST data

```
<{
  "ServiceRequest": {
    "data": {
      "AwsAssetDataConnector": {
        "name": "Test AWSConnector API",
        "description": "Connector created through API automation",
"defaultTags": {
 "set": {
 "TagSimple": {
"id": 42458382
 }
 }
},
```

```
        "activation": {
            "set": {
                "ActivationModule": [
                    "VM","SCA"
                ]
            }
        },
        "disabled": false,
        "arn": "arn:aws:iam::XXXXXXXXXXXX:role/ARN_UPGRADE",
        "externalId": "US1-1368984-11213331",
        "allRegions": false,
        "endpoints": {
            "add": {
                "AwsEndpointSimple": [
                    {
                    "regionCode": "af-south-1"
                    },
                    {
                    "regionCode": "eu-south-1"
                    }
                ]
            }
        },
        "runFrequency": 240,
        "isRemediationEnabled": true,
        "connectorAppInfos": {
          "set": {
            "ConnectorAppInfoQList": [
             {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "AI",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole"
                  }
                },
                "set": {
                  "ConnectorAppInfo": {
                    "name": "CI",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole"
                  }
                },
                "set": {
```

```
                  "ConnectorAppInfo": {
                    "name": "CSA",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole"
                  }
                }
              }
            ]
          }
        }
      }
    }
  }
}
```

Response

```
{
    "ServiceResponse": {
        "count": 1,
        "responseCode": "SUCCESS",
        "data": [
            {
                "AwsAssetDataConnector": {
                    "qualysAwsAccountId": "205767712438",
                    "isChinaConfigured": "false",
                    "runFrequency": 240,
                    "arn":
"arn:aws:iam::XXXXXXXXXXXX:role/ARN_UPGRADE",
                    "externalId": "US1-1368984-11213331",
                    "id": 1998546,
                    "name": "Test AWSConnector API",
                    "description": "Connector created through API
automation",
                    "connectorState": "QUEUED",
                    "disabled": "false",
                    "isInstantAssessmentEnabled": "false",
                    "awsAccountId": "",
                    "isGovCloudConfigured": "false",
                    "isCPSEnabled": "false",
                    "isRemediationEnabled": "true",
                    "allRegions": "false",
                    "activation": {
                        "ActivationModule": [
```

```
                            "SCA",
                            "VM",
                            "CLOUDVIEW"
                        ]
                    },
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                                                "name": "CI"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                                                "name": "AI"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                                                "name": "CSA"
                                            }
                                        }
                                    ]
```

```
                                    }
                                }
                            ]
                        },
                        "type": "AWS",
"defaultTags": {
 "list": [
 {
 "TagSimple": {
 "id": 42458382,
 "name": "CV_Automation_Tag"
 }
 }
 ]
}
                    }
                }
            ]
        }
}
```

Update AWS Connector 3.0

/qps/rest/3.0/update/am/awsassetdataconnector

/qps/rest/3.0/update/am/awsassetdataconnector/<id>

[POST]

You can update only those connectors that created in the Connector application. Specify the connector ID and you can then update details of the specified connector.

Using the NOT EQUALS operator for updating AWS connectors could result in accidental update of unknown AWS connectors without any warning. To prevent accidental updates of unknown AWS connectors, we do not support NOT EQUALS operator for update actions.

Permissions required - Managers with full scope.

Input Parameters

Parameters	Description
name	The ID of the connector that you want to update.
description	Name of the connector you want to update.
defaultTags	(TagSimpleQList) Tags applied to any asset discovered by the connector.
activation	(List<ActivationModule>) Assets discovered by the connector is activated for the modules specified.
allRegions	(boolean) If true, the end point's collection is

	ignored and all the AWS regions scanned.
disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled, the connector does not synchronize assets.
arn	Generated by AWS. Ensure that you provide the same ARN that is generated by AWS.
externalId	Random string which is unique for each user.
runFrequency	runFrequency for a connector decides the rate at which the connector should poll the cloud provider and fetch the data. Specified in minutes.
isRemediationEnabled	A flag to enable or disable remediation for the connector.
connectorAppInfos.set.ConnectorAppInfoQList	A mandatory parent parameter when you need to provide the below parameter, set.ConnectorAppInfo.
connectorAppInfos	It holds the list of list of ConnectorAppInfo which includes App Name, identifiers and tag details. Connector can one or more apps from list [AI, CI, CSA]. AI-Asset Inventory, CI- Cloud Inventory, CSA-Cloud Security Assessment

Input Parameters for Cloud Perimeter Scan

You can secure publicly exposed cloud assets by enabling cloud perimeter scans for your connectors. Cloud perimeter scans use Qualys External Scanners (Internet Remote Scanners), located at the Qualys Cloud Platform.

You can automate asset discovery of Connectors and with the Cloud Perimeter Scan. This ensures all publicly-exposed assets have perimeter scans performed, based on configurations provided at Connector.

Parameters	Description
isCPSEnabled	(optional) Set this flag to enable or disable cloud perimeter scan for the AWS connector (Note: If isCPSEnabled flag is enabled, you need to provide the following parameters for the Cloud Perimeter Scan).
connectorScanSetting	Tag to include cloud perimeter scan settings.
isCustomScanConfig Enabled	Use this flag to indicate the scan configuration to be used for cloud perimeters scan. By default, this flag is disabled and the global scan configuration is applied to the cloud perimeter scan. To use custom scan configuration, you need to enable this flag.
optionProfileId	Specify the Option Profile Id. This Id is unique for every user. You can fetch the option profile Id using the List VM Option Profile API (/api/2.0/fo/subscription/option_profile/vm/?action=list). For more information on the how to fetch the option profile Id, refer to Qualys API (VM, PC) User Guide.
recurrence	Specify if the scan should be scheduled on DAILY or WEEKLY basis.
daysOfWeek	Specify the days when the scan should be scheduled. For example, SUN, MON, TUE, WED, THU, FRI, SAT. Note: This field is applicable only if the recurrence field is set to WEEKLY.
scanPrefix	Specify a prefix to be appended to the scan name. Once the cloud perimeter scan is triggered from the

	Vulnerability Management application, the prefix is appended to the scan name. The scan name is in following format: <prefix>-<connectorId>-<timestamp>
startDate	Specify the start date of scan in mm/dd/yyyy format.
startTime	Specify the start time of scan in HH:MM (24 hrs) format.
timezone	Specify the time zone for the cloud perimeter scan to be initiated.

Sample 1 - Update AWS connector name

Change the name of an asset data connector with ID of 12345, add a tag with the ID of 1 to the defaultTags collection, and add us-east-1 as scanned region

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/awsassetdataconne
ctor/XXXXX"
```

Request POST data

```
<ServiceRequest>
    <data>
        <AwsAssetDataConnector>
            <name>AWSConnector API Updated</name>
            <description>Updated Description Via API
Updated</description>
            <defaultTags>
                <set>
                <TagSimple>
                    <id>42458382</id>
                </TagSimple>
                </set>
            </defaultTags>
```

```
            <activation>
                <set>
                <ActivationModule>VM</ActivationModule>
                </set>
            </activation>
            <allRegions>true</allRegions>
            <disabled>false</disabled>
            <runFrequency>120</runFrequency>
            <isRemediationEnabled>false</isRemediationEnabled>
            <arn>arn:aws:iam:::12345678911/role:testrole</arn>
            <externalId>POD-999999-11213331</externalId>
            <connectorAppInfos>
                <set>
                    <ConnectorAppInfoQList>
                        <set>
                            <ConnectorAppInfo>
                                <name>AI</name>
                                <identifier>arn:aws:iam:::12345678911/
role:testrole</identifier>
                                <tagId>42458382</tagId>
                            </ConnectorAppInfo>
                        </set>
                        <set>
                            <ConnectorAppInfo>
                                <name>CI</name>
                                <identifier>arn:aws:iam:::12345678911/
role:testrole</identifier>
                                <tagId>42458382</tagId>
                            </ConnectorAppInfo>
                        </set>
                        <set>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>arn:aws:iam:::12345678911/
role:testrole</identifier>
                                <tagId>42458382</tagId>
                            </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                </set>
        </connectorAppInfos>
        </AwsAssetDataConnector>
    </data>
</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/3.
0/am/awsassetdataconnector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector>
            <id>843003</id>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

Sample 2 - Update AWS connector details

API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/awsassetdataconne
ctor/XXXXX" --header 'Accept: application/json'
```

Request POST Data (JSON)

```
 {
  "ServiceRequest": {
    "data": {
      "AwsAssetDataConnector": {
        "name": "AWSConnector API ",
        "description": "Updated Description Via API ",
        "defaultTags": {
          "set": {
            "TagSimple": {
              "id": 42458382
            }
          }
        },
        "activation": {
          "set": {
            "ActivationModule": [
                "SCA","PC"
            ]
          }
        },
```

```
        "allRegions": false,
        "disabled": false,
        "runFrequency": 600,
        "isRemediationEnabled": true,
        "connectorAppInfos": {
          "set": {
            "ConnectorAppInfoQList": [
              {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "AI",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                    "tagId": 42458382
                  }
                }
              },
              {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "CI",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                    "tagId": 42458382
                  }
                }
              },
              {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "CSA",
                    "identifier":
"arn:aws:iam:::12345678911/role:testrole",
                    "tagId": 42458382
                  }
                }
              }
            ]
          }
        }
      }
    }
  }
}
```

Response (JSON)

```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "AwsAssetDataConnector": {
                    "id": xxxxx
                }
            }
        ]
    }
}
```

Sample 3 - Update AWS connector to enable Cloud Perimeter Scan

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/awsassetdataconne
ctor/"< file.xml
```

Request POST data

```
<ServiceRequest>
    <data>
         ...
      <isCPSEnabled>true</isCPSEnabled>
    <connectorScanSetting>
          <isCustomScanConfigEnabled>true</isCustomScanConfigEnabled>
    </connectorScanSetting>
    <connectorScanConfig>
          <set>
            <ConnectorScanConfiguration>
               <daysOfWeek>
                    <set>
                       <Day>SUN</Day>
                       <Day>MON</Day>
                       <Day>TUE</Day>
                    </set>
               </daysOfWeek>
               <optionProfileId>2</optionProfileId>
```

```
              <recurrence>WEEKLY</recurrence>
              <scanPrefix>update scan prefix</scanPrefix>
              <startDate>31/05/2022</startDate>
              <startTime>15:45</startTime>
              <timezone>Africa/Cairo</timezone>
          </ConnectorScanConfiguration>
        </set>
     </connectorScanConfig>
...
    </data>
</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/3.
0/am/awsassetdataconnector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        ...
  <isCPSEnabled>true</isCPSEnabled>
    <connectorScanSetting>
          <isCustomScanConfigEnabled>true</isCustomScanConfigEnabled>
    </connectorScanSetting>
    <connectorScanConfig>
          <set>
            <ConnectorScanConfiguration>
               <daysOfWeek>
                    <set>
                       <Day>SUN</Day>
                       <Day>MON</Day>
                       <Day>TUE</Day>
                    </set>
               </daysOfWeek>
               <optionProfileId>2</optionProfileId>
               <recurrence>WEEKLY</recurrence>
               <scanPrefix>updated- AWS scan prefix</scanPrefix>
               <startDate>31/05/2022</startDate>
               <startTime>15:45</startTime>
               <timezone>Africa/Cairo</timezone>
          </ConnectorScanConfiguration>
        </set>
```

```
     </connectorScanConfig>
...
    </data>
</ServiceResponse>
```

Delete AWS Connector 3.0

/qps/rest/3.0/delete/am/awsassetdataconnector

/qps/rest/3.0/delete/am/awsassetdataconnector/<id>

[POST]

Delete one or more AWS connectors from the Connectors application.

Using the NOT EQUALS operator for deleting AWS connectors could result in accidental deletion of AWS connectors without any warning. To prevent accidental deletion of unknown AWS connectors, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with full scope.

Sample 1 - Delete a single AWS connector

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/awsassetdataconne
ctor/12345"
```

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/3.
0/am/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AwsAssetDataConnector ><id>12345</id></AwsAssetDataConnector >
  </data>
</ServiceResponse>
```

API Request (JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/awsassetdataconne
ctor/12345"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response (JSON)

```
{
  "ServiceResponse": {
    "responseCode": "SUCCESS",
    "count": 1,
    "data": {
      "AwsAssetDataConnector ": {
        "id": 12345
      }
    }
  }
}
```

Sample 2 - Delete several AWS connectors tagged with the To Delete tag

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/awsassetdataconne
ctor"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria field="tagName" operator="EQUALS">To
Delete</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/3.
0/am/awsassetdataconnector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AwsAssetDataConnector >
            <id>1680408</id>
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/awsassetdataconne
ctor"
--header 'Accept: application/json'
```

Request POST Data (JSON)

```
{
  "ServiceRequest": {
    "filters": {
      "Criteria": [
        {
          "field": "activation",
          "operator": "EQUALS",
          " tagName": "Outdated"
        }
      ]
    }
  }
}
```

Response (JSON)

```
{
    "ServiceResponse": {
        "data": [
            {
                "AwsAssetDataConnector": {
                    "id": 1680411
                }
```

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

XSD

<platform API server>/qps/xsd/3.0/am/aws_asset_data_connector.xsd

Run AWS Connector 3.0

/qps/rest/3.0/run/am/awsassetdataconnector

/qps/rest/3.0/run/am/awsassetdataconnector/<id>

[POST]

We will now deprecate the API endpoint to run one or more AWS connectors from the CloudView application and introduce an alternative API in the Asset Management application. The run connector API will fetch the latest changes related to your connector.

Permissions required - Managers with full scope.

API Request (JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/run/am/awsassetdataconnecto
r/<id>"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response (JSON)

```
{
  "ServiceResponse": {
    "count": 1,
    "data": [
      {
        "AwsAssetDataConnector": {
          "connectorAppInfos": {
            "list": [
              {
                "ConnectorAppInfoQList": {
                  "list": [
                    {
                      "ConnectorAppInfo": {
                        "name": "CI",
                        "identifier":
"arn:aws:iam::xxxxxxxxx:role/test-pod"
                      }
                    }
```

```
                ]
              }
            },
            {
              "ConnectorAppInfoQList": {
                "list": [
                  {
                    "ConnectorAppInfo": {
                      "name": "AI",
                      "identifier":
"arn:aws:iam::xxxxxxxx:role/test-pod"
                    }
                  }
                ]
              }
            },
            {
              "ConnectorAppInfoQList": {
                "list": [
                  {
                    "ConnectorAppInfo": {
                      "name": "CSA",
                      "identifier":
"arn:aws:iam::xxxxxxxx:role/test-pod"
                    }
                  }
                ]
              }
            }
          ]
        },
        "id": xxxxxx,
        "nextSync": "2022-07-04T08:48:27Z",
        "isRemediationEnabled": "false",
        "lastSync": "2022-07-04T04:50:04Z",
        "connectorState": "FINISHED_ERRORS",
        "runFrequency": 240,
        "awsAccountId": "xxxxxxxx",
        "allRegions": "false",
        "lastError": "Error getting EBS Encryption By Default Status
from af-south-1. Please check if region is enabled or EC2 service is
enabled for this region",
        "type": "AWS",
        "activation": {
```

```
            "ActivationModule": [
              "CLOUDVIEW"
            ]
          },
          "disabled": "false",
          "name": "sign",
          "isChinaConfigured": "false",
          "externalId": "pod-xxxxxx-1662018652278",
          "cloudviewUuid": "xxxxxx-85d6-xxxx-a779-4a7eb643444f",
          "isDeleted": "false",
          "isGovCloudConfigured": "false",
          "qualysAwsAccountId": "xxxxxxxx",
          "description": "testing"
        }
      }
    ],
    "responseCode": "SUCCESS"
  }
}
```

Search AWS Connector 3.0

/qps/rest/3.0/search/am/awsassetdataconnector

Returns a list of AWS connectors in the user's account that match the provided criteria. Narrow down your search results using the parameters listed below.

Pagination - A maximum of 100 instances are returned by default. To customize this specify a "preferences" tag in the POST body of your request.

Input Parameter

Parameters	Description
id	The ID of the connector that you want to search.
name	Name of the connector you want to search.
description	Description of the connector you want to search.
lastSync	Last sync date of the connector.
lastError	Last error date of the connector.
connectorState	State of the connector. States include PENDING, SUCCESS,ERROR, QUEUED, RUNNING, PROCESSING,FINISHED_SUCCESS, FINISHED_ERRORS, DISABLED,INCOMPLETE.
activation	Activation of Qualys modules. Includes VM, PC, SCA, CERTVIEW.
defaultTags.name	The name of a tag in the defaultTags collection.

defaultTag	(Integer) The ID of a tag in the defaultTags collection.
allRegions	Whether all regions should be selected.
endpoint.region	AWS region code.
disabled	(Boolean) Whether execution of the connector is disabled (YES). If disabled, the connector does not synchronize assets.
appCapability.name	Connector application capability name.
appCapability.tag.name	Tag name associates with connector identifier.

Sample: Find all asset data connectors with tag name USA

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/awsassetdataconne
ctor"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
<filters>
<Criteria field="defaultTags.name" operator="EQUALS">USA</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/3.
0/am/awsassetdataconnector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <AwsAssetDataConnector>
            <id>1680606</id>
            <name>AWSConnector API</name>
            <awsAccountId>xxxxxxxx</awsAccountId>
            <description>Connector created through API
automation</description>
            <lastSync>2022-04-30T11:58:06Z</lastSync>
            <connectorState>FINISHED_SUCCESS</connectorState>
            <type>AWS</type>
            <defaultTags>
                <list>
                    <TagSimple>
                        <id>xxxxxxxx</id>
                        <name>testpod</name>
                    </TagSimple>
                </list>
            </defaultTags>
            <activation>
                <list>
                    <ActivationModule>CLOUDVIEW</ActivationModule>
                    <ActivationModule>CERTVIEW</ActivationModule>
                    <ActivationModule>VM</ActivationModule>
                </list>
            </activation>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isChinaConfigured>false</isChinaConfigured>
            <runFrequency>240</runFrequency>
            <isRemediationEnabled>true</isRemediationEnabled>
            <connectorAppInfos>
                <list>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>arn:aws:iam::xxxxxxxx:role
/test_pod</identifier>
```

```
                                <tagId>xxxxxxxx</tagId>
                                <tagMetadata>
                                    <id>xxxxxxxx</id>
                                    <name>TestTag</name>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CI</name>
                                <identifier>arn:aws:iam::xxxxxxxx:role
/test_pod</identifier>
                                <tagId>xxxxxxxx</tagId>
                                <tagMetadata>
                                    <id>xxxxxxxx</id>
                                    <name>TestTag</name>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>AI</name>
                                <identifier>arn:aws:iam::xxxxxxxx:role
/test_pod</identifier>
                                <tagId>xxxxxxxx</tagId>
                                <tagMetadata>
                                    <id>xxxxxxxx</id>
                                    <name>Tag123</name>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                </list>
            </connectorAppInfos>
            <cloudviewUuid>xxxxxxx-6726-xxxx-ad4c-
a5fb811a9d72</cloudviewUuid>
            <arn>arn:aws:iam::xxxxxxxx:role/Saur_Test_04</arn>
            <externalId>pod13-xxxxxx-xxxxx</externalId>
            <qualysAwsAccountId>xxxxxxxx</qualysAwsAccountId>
            <allRegions>true</allRegions>
```

```
        </AwsAssetDataConnector>
    </data>
</ServiceResponse>
```

API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/awsassetdataconne
ctor"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST data (JSON)

```
{
"ServiceRequest": {
"filters": {
"Criteria": [
{
"field": "defaultTags.name",
"operator": "EQUALS",
"value": "USA"
}
]
}
}
}
```

Response (JSON)

```
{
    "ServiceResponse": {
        "data": [
            {
                "AwsAssetDataConnector": {
                    "description": "Connector created through API
automation",
                    "name": "AWSConnector API",
                    "externalId": "pod-3734136-1652751983927",
                    "isChinaConfigured": "false",
                    "lastSync": "2022-04-30T11:58:06Z",
                    "disabled": "false",
                    "connectorState": "FINISHED_SUCCESS",
                    "qualysAwsAccountId": "XXXXXXXXXXXX",
```

```
                    "runFrequency": 240,
                    "id": 1680606,
                    "activation": {
                        "ActivationModule": [
                            "CLOUDVIEW",
                            "CERTVIEW",
                            "VM"
                        ]
                    },
                    "cloudviewUuid": "95c9c13b-6726-3ef1-ad4c-
a5fb811a9d72",
                    "type": "AWS",
                    "isGovCloudConfigured": "false",
                    "allRegions": "true",
                    "arn":
"arn:aws:iam::XXXXXXXXXXXX:role/sample_user",
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
                                                "identifier":
"arn:aws:iam::XXXXXXXXXXXX:role/sample_user",
                                                "tagId": 123489465,
                                                "tagMetadata": {
                                                    "id": 123489465,
                                                    "name":
"Sample_tag"
                                                }
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                            ...
                    },
                    "isRemediationEnabled": "true"
                }
            }
        ],
```

```
        "hasMoreRecords": "false",
        "responseCode": "SUCCESS",
        "count": 1
    }
}
```

Get AWS Connector Details 3.0

/qps/rest/3.0/get/am/awsassetdataconnector/<id>

We will now deprecate the old CloudView API endpoint for 'Get AWS connector Info' and an alternative API will be introduced in the Asset Management application. You can select whether the 'Get AWS Connector Info' API applies to AssetView and/or CloudView in the Connector application.

Permissions required - Managers with full scope.

Sample 1: Fetch the AWS connector with the ID 179407

API Request (JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/get/am/awsassetdataconnecto
r/179407"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response (JSON)


```
{
  "ServiceResponse": {
    "data": [
      {
        "AwsAssetDataConnector": {
          "name": "AWS AV CONN",
          "externalId": "pod-xxxxxx-1662018652278",
          "isChinaConfigured": "false",
          "lastSync": "2022-07-05T03:20:18Z",
          "nextSync": "2022-07-05T07:20:00Z",
          "disabled": "false",
          "qualysAwsAccountId": "xxxxx",
          "runFrequency": 240,
          "id": 179407,
          "connectorAppInfos": {
            "list": [
              {
```

```
                "ConnectorAppInfoQList": {
                  "list": [
                    {
                      "ConnectorAppInfo": {
                        "name": "AI",
                        "identifier":
"arn:aws:iam::xxxxxxxxx:role/Cloudview_Test"
                      }
                    }
                  ]
                }
              }
            ]
          },
          "isGovCloudConfigured": "false",
          "connectorState": "FINISHED_SUCCESS",
          "allRegions": "false",
          "type": "AWS",
          "arn": "arn:aws:iam::xxxxxxxxx:role/Cloudview_Test",
          "isDeleted": "false",
          "awsAccountId": "xxxxxxxxx",
          "isRemediationEnabled": "false"
        }
      }
    ],
    "responseCode": "SUCCESS",
    "count": 1
  }
}
```


Sample 2: Get Details of AWS Connector with Cloud Perimeter Scan Enabled

API Request (JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/get/am/awsassetdataconnecto
r/179407"
--header 'Accept: application/json'
```

Response (JSON)

```
<ServiceResponse>
```

```
  <data>
   ...
      isCPSEnabled>true</isCPSEnabled>
      <connectorAppInfos>
        <list>
          <ConnectorAppInfoQList>
            <list>
              <ConnectorAppInfo>
                <name>AI</name>
                <identifier>arn:aws:iam::XXXXXXXXXXXX:role/Sample-
IAMRole</identifier>
              </ConnectorAppInfo>
            </list>
          </ConnectorAppInfoQList>
        </list>
      </connectorAppInfos>
      <connectorScanSetting>
        <isCustomScanConfigEnabled>true</isCustomScanConfigEnabled>
      </connectorScanSetting>
      <connectorScanConfig>
        <list>
          <ConnectorScanConfiguration>
            <scanPrefix>AWS CPS 6/2/22</scanPrefix>
            <optionProfileId>2</optionProfileId>
            <recurrence>WEEKLY</recurrence>
            <startDate>MM/DD/YYYY</startDate>
            <startTime>HH:MM</startTime>
            <daysOfWeek>
              <list>
                <Day>SUN</Day>
                <Day>MON</Day>
                <Day>TUE</Day>
              </list>
            </daysOfWeek>
            <timezone>Africa/Cairo</timezone>
          </ConnectorScanConfiguration>
        </list>
...
  </data>
</ServiceResponse>
```

Get AWS Base Account Id 3.0

/qps/rest/3.0/search/am/awsbaseaccount

/qps/rest/3.0/get/am/awsbaseaccount/<id>

Retrieve the base account details of a connector either by searching for name or id.

Permissions required - Managers with full scope.

Sample: Get Base Account with Name

API request

```
curl --location --request POST
'https://qualysapi.qualys.com/qps/rest/3.0/search/am/awsbaseaccount' \
```

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/ve
rsion.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <globalAccountId>2057xxxxx438</globalAccountId>
        <govAccountId>011xxxxx917</govAccountId>
        <chinaAccountId>011xxxx917</chinaAccountId>
        <customerGlobalAccount>false</customerGlobalAccount>
        <customerGovAccount>false</customerGovAccount>
        <customerChinaAccount>false</customerChinaAccount>
    </data>
</ServiceResponse>
```

API request(JSON)

```
curl --location --request POST
'https://qualysapi.qualys.com/qps/rest/3.0/search/am/awsbaseaccount' \
--header 'Accept: application/json' \
--header 'Content-Type: application/json' \
```

```
--header 'Authorization: Basic cWF0ZXNfZ2szNTpRQXRlbXBAMTIz' \
--header 'Cookie: JSESSIONID=8C54FD99F11E0DCACEF05D48ABDC350A
```

Response (JSON)


```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "globalAccountId": "2057xxxxx438",
                "govAccountId": "011xxxxx917",
                "chinaAccountId": "011xxxx917",
                "customerGlobalAccount": "false",
                "customerGovAccount": "false",
                "customerChinaAccount": "false"
            }
        ],
        "hasMoreRecords": "false"
    }
}
```

Get All Errors for AWS Connector 3.0

/qps/rest/3.0/search/am/assetdataconnectorerrors

Get the list of errors encountered when executing a connector in the connector application.

Permissions required - Managers with full scope.

Sample: Get all errors of connector

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: application/json" -H
"Accept:
application/json" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/assetdataconnecto
rerrors"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
<filters>
<Criteria field="id" operator="EQUALS">167405</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/3.
0/am/assetdataconnectorerrors.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>11</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
```

```
        <AssetDataConnectorErrors>
            <errorMessage>Error processing instance-id i-
05012c5470e31894a, Error reference: 8a0a9084-7eba-4d73-8855-
1ac223fd88db</errorMessage>
            <created>2022-05-23T10:10:12Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error processing instance-id i-
0be39baf8d595fedd, Error reference: 72a61d1d-f365-4527-92e3-
07807737d2cb</errorMessage>
            <created>2022-05-23T10:10:12Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error processing instance-id i-
08cc2b4a5bef80d13, Error reference: 7757336e-a636-45a4-8907-
e134244ac42e</errorMessage>
            <created>2022-05-23T10:10:12Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error processing instance-id i-
0f9ff0ee787ec1554, Error reference: 7f7b7461-45f1-491c-8a5b-
2a47542414fe</errorMessage>
            <created>2022-05-23T10:10:36Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error processing instance-id i-
05bcf1815e3326d29, Error reference: a034a6c8-ed66-44a6-9878-
664c48cafa07</errorMessage>
            <created>2022-05-23T10:10:36Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error processing instance-id i-
030e059e876ce6848, Error reference: 92d1e044-7be9-4648-8486-
f12818f97ab1</errorMessage>
            <created>2022-05-23T10:10:36Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error processing instance-id i-
0c7416add8f64cfff, Error reference: 602f12cc-d8f5-439e-91e8-
e07b57d2192d</errorMessage>
            <created>2022-05-23T10:11:00Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
```

```
            <errorMessage>Processing error while evaluating control:
LAMBDA. Please contact support</errorMessage>
            <created>2022-05-23T10:10:13Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error getting EBS Encryption By Default
Status from af-south-1. Please check if region is enabled or EC2
service is enabled for this region</errorMessage>
            <created>2022-05-23T10:09:43Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>Error getting EBS Encryption By Default
Status from eu-south-1. Please check if region is enabled or EC2
service is enabled for this region</errorMessage>
            <created>2022-05-23T10:09:32Z</created>
        </AssetDataConnectorErrors>
        <AssetDataConnectorErrors>
            <errorMessage>com.amazonaws.AmazonServiceException: AWS
was not able to validate the provided access credentials (Service:
AmazonEC2; Status Code: 401; Error Code: AuthFailure; Request ID:
5a5ac505-b83c-4681-84a4-3c39b1383bb9)</errorMessage>
            <created>2022-05-23T10:09:08Z</created>
        </AssetDataConnectorErrors>
    </data>
</ServiceResponse>
```

API request(JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/assetdataconnecto
rerrors"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST data(JSON)

```
{
  "ServiceRequest": {
    "filters": {
      "Criteria": [
        {
          "field": "id",
          "operator": "EQUALS",
          "value": "1xxxxxx"
```

```
        }
      ]
    }
  }
}
```

Response(JSON)


```
{
  "ServiceResponse": {
    "responseCode": "SUCCESS",
    "count": 11,
    "hasMoreRecords": false,
    "data": {
      "AssetDataConnectorErrors": [
        {
          "errorMessage": "Error processing instance-id i-
05012c5470e31894a, Error reference:\n8a0a9084-7eba-4d73-8855-
1ac223fd88db",
          "created": "2022-05-23T10: 10: 12Z"
        },
        {
          "errorMessage": "Error processing instance-id i-
0be39baf8d595fedd, Error reference:\n72a61d1d-f365-4527-92e3-
07807737d2cb",
          "created": "2022-05-23T10: 10: 12Z"
        },
        {
          "errorMessage": "Error processing instance-id i-
08cc2b4a5bef80d13, Error reference:\n7757336e-a636-45a4-8907-
e134244ac42e",
          "created": "2022-05-23T10: 10: 12Z"
        },
        {
          "errorMessage": "Error processing instance-id i-
0f9ff0ee787ec1554, Error reference:\n7f7b7461-45f1-491c-8a5b-
2a47542414fe",
          "created": "2022-05-23T10: 10: 36Z"
        },
        {
          "errorMessage": "Error processing instance-id i-
05bcf1815e3326d29, Error reference:\na034a6c8-ed66-44a6-9878-
664c48cafa07",
```

```
          "created": "2022-05-23T10: 10: 36Z"
        },
        {
          "errorMessage": "Error processing instance-id i-
030e059e876ce6848, Error reference:\n92d1e044-7be9-4648-8486-
f12818f97ab1",
          "created": "2022-05-23T10: 10: 36Z"
        },
        {
          "errorMessage": "Error processing instance-id i-
0c7416add8f64cfff, Error reference:\n602f12cc-d8f5-439e-91e8-
e07b57d2192d",
          "created": "2022-05-23T10: 11: 00Z"
        },
        {
          "errorMessage": "Processing error while evaluating control:
LAMBDA. Please contact\nsupport",
          "created": "2022-05-23T10: 10: 13Z"
        },
        {
          "errorMessage": "Error getting EBS Encryption By Default
Status from af-south-1.\nPlease check if region is enabled or EC2
service is enabled for this region",
          "created": "2022-05-23T10: 09: 43Z"
        },
        {
          "errorMessage": "Error getting EBS Encryption By Default
Status from eu-south-1.\nPlease check if region is enabled or EC2
service is enabled for this region",
          "created": "2022-05-23T10: 09: 32Z"
        },
        {
          "errorMessage": "com.amazonaws.AmazonServiceException: AWS
was not able to validate\nthe provided access credentials (Service:
AmazonEC2; Status Code: 401; Error Code:\nAuthFailure; Request ID:
5a5ac505-b83c-4681-84a4-3c39b1383bb9)",
          "created": "2022-05-23T10: 09: 08Z"
        }
      ]
    }
  }
}
```

Download AWS CloudFormation Template 3.0

/qps/rest/3.0/download/am/awscloudformationtemplate

[POST]

Returns a AWS CloudFormation template based on AI or CI/CSA capability.

Permissions required - Managers with full scope.

Sample: Download AWS CloudFormation template for AI

API request(JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/download/am/awscloudformati
ontemplate"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST data(JSON)

```
{
  "ServiceRequest": {
    "data": {
      "AwsCloudformationTemplate": {
        "awsCloudType": "Global",
        "externalId": "p11-1234-12129126127",
        "capability": "AI"
      }
    }
  }
}
```

Response(JSON)

```
{
  "AWSTemplateFormatVersion": "2010-09-09",
```

```
  "Description": " IAM Role for Qualys EC2 Connector to fetch
instances",
  "Outputs": {
    "RoleARN": {
      "Description": "The ARN of the role that can be assumed by the
Qualys EC2 Connector",
      "Value": {
        "Fn::GetAtt": [
          "QualysRole",
          "Arn"
        ]
      }
    }
  },
  "Resources": {
    "QualysRole": {
      "Type": "AWS::IAM::Role",
      "Properties": {
        "RoleName": "Role_For_QualysEC2Connector",
        "AssumeRolePolicyDocument": {
          "Version": "2012-10-17",
          "Statement": [
            {
              "Sid": "",
              "Effect": "Allow",
              "Principal": {
                "AWS": "arn:aws:iam::xxxxxxxx:root"
              },
              "Action": "sts:AssumeRole",
              "Condition": {
                "StringEquals": {
                  "sts:ExternalId": "p19-1234-12129126127"
                }
              }
            }
          ]
        },
        "Policies": [
          {
            "PolicyDocument": {
              "Version": "2012-10-17",
              "Statement": [
                {
                  "Sid": "",
```

```
                  "Effect": "Allow",
                  "Action": [
                    "ec2:DescribeInstances",
                    "ec2:DescribeAddresses",
                    "ec2:DescribeImages"
                  ],
                  "Resource": "*"
                }
              ]
            },
            "PolicyName": "IAM_Policy_For_EC2Connector"
          }
        ]
      }
    }
  }
}
```

Azure Connectors 3.0

Azure Connectors 3.0

We support the following operations for all Microsoft Azure connectors in the Connectors application.

Create Azure Connector

Update Azure Connector

Run Azure Connector

Search Azure Connector

Delete Azure Connector

Get Azure Connector Info

Create Azure Connector 3.0

/qps/rest/3.0/create/am/azureassetdataconnector

[POST]

Specify the connector details such as application Id, authenticationKey, description, directoryId, name, and subscription Id of your Azure account and create a new connector in the Connectors application.

Permissions required - Managers with full scope.

Input Parameter

Parameters	Description
id	The ID of the connector that you want to create.
name	Name of the connector you want to create.
description	Description of the connector you want to create.
defaultTags	(TagSimpleQList) Tags applied to any asset discovered by the connector.
activation	(List<ActivationModule>) Assets discovered by the connector is activated for the modules specified.
authRecord	(AzureAuthRecordSimple) The Azure authentication record the connector uses to connect to Azure. When writing/updating it is looked up by the ID field.
disabled	(boolean) Whether execution of the

	connector is disabled (YES). If disabled, the connector does not synchronize assets.
applicationId	Unique identifier of the application you create on Azure portal.
directoryId	Unique identifier of your Azure Active Directory.
subscriptionId	Unique identifier of your Microsoft Azure subscription.
authenticationKey	The secret key generated after you provide permission to the application to access the Windows Azure Service.
connectorAppInfos.set.ConnectorAppInfoQList	A mandatory parent parameter when you need to provide the below parameter, set.ConnectorAppInfo.
connectorAppInfos	It holds the list of list of ConnectorAppInfo which includes App Name, identifiers and tag details. Connector can one or more apps from list [AI, CI, CSA]. AI-Asset Inventory, CI- Cloud Inventory, CSA-Cloud Security Assessment
runFrequency	runFrequency for a connector decides the rate at which the connector should poll the cloud provider and fetch the data. Specified in minutes.
isRemediationEnabled	A flag to enable or disable remediation for the connector.

Input Parameters for Cloud Perimeter Scan

You can secure publicly exposed cloud assets by enabling cloud perimeter scans for your connectors. Cloud perimeter scans use Qualys External Scanners (Internet Remote Scanners), located at the Qualys Cloud Platform.

You can automate asset discovery of Connectors and with the Cloud Perimeter Scan. This ensures all publicly-exposed assets have perimeter scans performed, based on configurations provided at Connector.

Parameters	Description
isCPSEnabled	(optional) Set this flag to enable or disable cloud perimeter scan for the AWS connector (Note: If isCPSEnabled flag is enabled, you need to provide the below parameters for the Cloud Perimeter Scan).
connectorScanSetting	Tag to include cloud perimeter scan settings.
isCustomScanConfig Enabled	Use this flag to indicate the scan configuration to be used for cloud perimeters scan. By default, this flag is disabled and the global scan configuration is applied to the cloud perimeter scan. To use custom scan configuration, you need to enable this flag.
optionProfileId	Specify the Option Profile Id. This Id is unique for every user. You can fetch the option profile Id using the List VM Option Profile API (/api/2.0/fo/subscription/option_profile/vm/?action=list). For more information on the how to fetch the option profile Id, refer to Qualys API (VM, PC) User Guide.
recurrence	Specify if the scan should be scheduled on DAILY or WEEKLY basis.
daysOfWeek	Specify the days when the scan should be scheduled. For example, SUN, MON, TUE, WED, THU, FRI, SAT. Note: This field is applicable only if the recurrence field is

	set to WEEKLY.
scanPrefix	Specify a prefix to be appended to the scan name. Once the cloud perimeter scan is triggered from the Vulnerability Management application, the prefix is appended to the scan name. The scan name is in following format: <prefix>-<connectorId>-<timestamp>
startDate	Specify the start date of scan in mm/dd/yyyy format.
startTime	Specify the start time of scan in HH:MM (24 hrs) format.
timezone	Specify the time zone for the cloud perimeter scan to be initiated.

Sample 1 - Create Azure connector

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" -
data-binary
@"https://qualysapi.qualys.com/qps/rest/3.0/create/am/azureassetdataco
nnector"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <AzureAssetDataConnector>
      <name>Azure Connector Via API</name>
      <description>Sample Azure Connector API</description>
      <defaultTags>
        <set>
          <TagSimple>
            <id>123488470</id>
          </TagSimple>
        </set>
      </defaultTags>
```

```
        <activation>
            <set>
            <ActivationModule>VM</ActivationModule>
            <ActivationModule>CERTVIEW</ActivationModule>
            <ActivationModule>SCA</ActivationModule>
            </set>
        </activation>
      <disabled>false</disabled>
      <runFrequency>240</runFrequency>
      <isRemediationEnabled>true</isRemediationEnabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
      <authRecord>
        <applicationId>xxxxxxxxx-694d-xxxx-ae0b-
d2bd14d1a4d7</applicationId>
        <directoryId>xxxxxxxxx-65ab-xxxx-9e5b-
1ea02d3d94eb</directoryId>
        <subscriptionId>xxxxxxxxx-4f67-xxxx-917d-
2246853844e1</subscriptionId>
        <authenticationKey>02LCb8/RCn0lbGj6xxxxxxxxnoH01rog=</authenti
cationKey>
      </authRecord>
      <connectorAppInfos>
        <set>
          <ConnectorAppInfoQList>
            <set>
              <ConnectorAppInfo>
                <name>AI</name>
                <identifier>xxxxxxxxx-4f67-xxxx-917d-
2246853844e1</identifier>
                <tagId>123489465</tagId>
              </ConnectorAppInfo>
            </set>
          </ConnectorAppInfoQList>
          <ConnectorAppInfoQList>
            <set>
              <ConnectorAppInfo>
                <name>CI</name>
                <identifier>xxxxxxxxx-4f67-xxxx-917d-
2246853844e1</identifier>
                <tagId>123489465</tagId>
              </ConnectorAppInfo>
            </set>
          </ConnectorAppInfoQList>
          <ConnectorAppInfoQList>
```

```
            <set>
              <ConnectorAppInfo>
                <name>CSA</name>
                <identifier>xxxxxxxxx-4f67-xxxx-917d-
2246853844e1</identifier>
                <tagId>123489465</tagId>
              </ConnectorAppInfo>
            </set>
          </ConnectorAppInfoQList>
        </set>
      </connectorAppInfos>
    </AzureAssetDataConnector>
  </data>
</ServiceRequest>
```

XML output

```
<?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/3.
0/am/azureassetdataconnector.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <AzureAssetDataConnector>
            <id>1672602</id>
            <name>Azure Connector Via API</name>
            <description>Sample Azure Connector API</description>
            <connectorState>QUEUED</connectorState>
            <type>AZURE</type>
            <disabled>false</disabled>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <runFrequency>240</runFrequency>
            <isRemediationEnabled>true</isRemediationEnabled>
            <connectorAppInfos>
                <list>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CI</name>
                                <identifier>xxxxxxxxx-4f67-xxxx-917d-
2246853844e1</identifier>
                                <tagId>123xxx65</tagId>
                                <tagMetadata>
```

```
                                    <id>123xxx65</id>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>xxxxxxxxx-4f67-xxxx-917d-
2246853844e1</identifier>
                                <tagId>123489465</tagId>
                                <tagMetadata>
                                    <id>123489465</id>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>AI</name>
                                <identifier>xxxxxxxxx-4f67-xxxx-917d-
2246853844e1</identifier>
                                <tagId>123489465</tagId>
                                <tagMetadata>
                                    <id>123489465</id>
                                </tagMetadata>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                </list>
            </connectorAppInfos>
            <authRecord/>
        </AzureAssetDataConnector>
    </data>
</ServiceResponse>
```


Sample 2 - Create Azure connector

API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" -data-binary
@"https://qualysapi.qualys.com/qps/rest/3.0/create/am/azureassetdataco
nnector"
--header 'Accept: application/json'
```

Request POST Data (JSON)

```
{
  "ServiceRequest": {
    "data": {
      "AzureAssetDataConnector": {
        "name": "Azure Connector Via API",
        "description": "Sample Azure Connector API",
        "defaultTags": {
          "set": {
            "TagSimple": {
              "id": 123488470
            }
          }
        },
        "activation": {
          "set": {
            "ActivationModule": [
              "VM",
              "CERTVIEW",
              "SCA"
            ]
          }
        },
        "disabled": false,
        "runFrequency": 240,
        "isRemediationEnabled": true,
        "isGovCloudConfigured": false,
        "authRecord": {
          "applicationId": "xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7",
          "directoryId": "xxxxxxxxx-65ab-xxxx-9e5b-1ea02d3d94eb",
          "subscriptionId": "xxxxxxxxx-4f67-xxxx-917d-2246853844e1",
          "authenticationKey": "02LCb8/RCn0lbGj6xxxxxxxxxxnoH01rog="
        },
        "connectorAppInfos": {
          "set": {
            "ConnectorAppInfoQList": [
              {
                "set": {
```

```
                  "ConnectorAppInfo": {
                    "name": "AI",
                    "identifier": "xxxxxxxxx-4f67-xxxx-917d-
2246853844e1",
                    "tagId": 123489465
                  }
                }
              },
              {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "CI",
                    "identifier": "xxxxxxxxx-4f67-xxxx-917d-
2246853844e1",
                    "tagId": 123489465
                  }
                }
              },
              {
                "set": {
                  "ConnectorAppInfo": {
                    "name": "CSA",
                    "identifier": "xxxxxxxxx-4f67-xxxx-917d-
2246853844e1",
                    "tagId": 123489465
                  }
                }
              }
            ]
          }
        }
      }
    }
  }
}
```

Response (JSON)

```
{
    "ServiceResponse": {
        "data": [
            {
                "AzureAssetDataConnector": {
                    "description": "Sample Azure Connector API",
```

```
                    "name": "Azure Connector Via API",
                    "authRecord": {},
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "AI",
                                                "identifier":
"xxxxxxxxx-4f67-xxxx-917d-2246853844e1",
                                                "tagId": 123489465,
                                                "tagMetadata": {
                                                    "id": 123489465
                                                }
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
                                                "identifier":
"xxxxxxxxx-4f67-xxxx-917d-2246853844e1",
                                                "tagId": 123489465,
                                                "tagMetadata": {
                                                    "id": 123489465
                                                }
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CI",
```

```
                                                        "identifier":
"xxxxxxxxx-4f67-xxxx-917d-2246853844e1",
                                                        "tagId": 123489465,
                                                        "tagMetadata": {
                                                            "id": 123489465
                                                        }
                                                    }
                                                }
                                            ]
                                        }
                                    }
                                ]
                            },
                            "isGovCloudConfigured": "false",
                            "connectorState": "QUEUED",
                            "type": "AZURE",
                            "disabled": "false",
                            "runFrequency": 240,
                            "isRemediationEnabled": "true",
                            "id": 1672601
                        }
                    }
                ],
                "responseCode": "SUCCESS",
                "count": 1
            }
}
```

Sample 3 - Create Azure connector with Cloud Perimeter Scan Enabled

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" -
data-binary
@"https://qualysapi.qualys.com/qps/rest/3.0/create/am/azureassetdataco
nnector"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
   ...
      <isCPSEnabled>true</isCPSEnabled>
```

```
            <authRecord>
                <applicationId>33333333-3333-3333-3333-
333333333333</applicationId>
                <directoryId>22222222-2222-2222-2222-
222222222222</directoryId>
                <subscriptionId>11111111-1111-1111-1111-
111111111111</subscriptionId>
                <authenticationKey>02LCb8/RCn0lbGj6xcOGQPZlYG2z85aSmCx
noH01rog=</authenticationKey>
            </authRecord>
     <connectorScanSetting>
               <isCustomScanConfigEnabled>true</isCustomScanConfigEnab
led>
     </connectorScanSetting>
     <connectorScanConfig>
          <set>
            <ConnectorScanConfiguration>
               <daysOfWeek>
                    <set>
                       <Day>SUN</Day>
                       <Day>MON</Day>
                       <Day>TUE</Day>
                    </set>
               </daysOfWeek>
               <optionProfileId>2</optionProfileId>
               <recurrence>WEEKLY</recurrence>
               <scanPrefix>Scan azure 01</scanPrefix>
               <startDate>31/05/2022</startDate>
               <startTime>15:45</startTime>
               <timezone>Africa/Cairo</timezone>
          </ConnectorScanConfiguration>
        </set>
        </connectorScanConfig>
        </AzureAssetDataConnector>
    </data>
</ServiceRequest>
```

XML output

```
<?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/3.
0/am/aws_asset_data-connector.xsd">
  <responseCode>SUCCESS</responseCode>
```

```
...
  <isCPSEnabled>true</isCPSEnabled>
<connectorScanSetting>
     <isCustomScanConfigEnabled>true</isCustomScanConfigEnabled>
     </connectorScanSetting>
<connectorScanConfig>
     <set>
       <ConnectorScanConfiguration>
     <daysOfWeek>
          <set>
             <Day>SUN</Day>
             <Day>MON</Day>
             <Day>TUE</Day>
          </set>
     </daysOfWeek>
     <optionProfileId>2</optionProfileId>
     <recurrence>WEEKLY</recurrence>
     <scanPrefix>Scan azure 01</scanPrefix>
     <startDate>31/05/2022</startDate>
     <startTime>15:45</startTime>
     <timezone>Africa/Cairo</timezone>
     </ConnectorScanConfiguration>
   </set>
        </connectorScanConfig>
...
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/3.0/am/awsassetdataconnector.xsdre.

Update Azure Connector 3.0

/qps/rest/3.0/update/am/azureassetdataconnector

/qps/rest/3.0/update/am/azureassetdataconnector/<id>

[POST]

Specify the connector ID and the details of the connector that you would want to update in the request. Your connector details get updated.

Using the NOT EQUALS operator for updating Azure connectors could result in accidental update of unknown Azure connectors without any warning. To prevent accidental updates of unknown Azure connectors, we do not support NOT EQUALS operator for update actions.

Permissions required - Managers with full scope.

Input Parameters

Parameters	Description
name	The ID of the connector that you want to update.
description	Name of the connector you want to update.
defaultTags	(TagSimpleQList) Tags applied to any asset discovered by the connector.
activation	(List<ActivationModule>) Assets discovered by the connector is activated for the modules specified.
authRecord	(AzureAuthRecordSimple) The Azure authentication record the connector uses to connect to Azure. When writing/updating it is looked up by the ID field.

disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled, the connector does not synchronize assets.
runFrequency	runFrequency for a connector decides the rate at which the connector should poll the cloud provider and fetch the data specified in minutes.
isRemediationEnabled	A flag to enable or disable remediation for the connector.
connectorAppInfos.set.ConnectorAppInfoQList	A mandatory parent parameter when you need to provide the below parameter, set.ConnectorAppInfo.
connectorAppInfos	It holds the list of list of ConnectorAppInfo which includes App. Name, identifiers and tag details. Connector can one or more apps from list [AI, CI, CSA]. AI-Asset Inventory, CI- Cloud Inventory, CSA-Cloud Security Assessment

Input Parameters for Cloud Perimeter Scan

You can secure publicly exposed cloud assets by enabling cloud perimeter scans for your connectors. Cloud perimeter scans use Qualys External Scanners (Internet Remote Scanners), located at the Qualys Cloud Platform.

You can automate asset discovery of Connectors and with the Cloud Perimeter Scan. This ensures all publicly-exposed assets have perimeter scans performed, based on configurations provided at Connector.

Parameters	Description
isCPSEnabled	(optional) Set this flag to enable or disable cloud perimeter scan for the AWS connector (Note: If

	isCPSEnabled flag is enabled, you need to provide the below parameters for the Cloud Perimeter Scan).
connectorScanSetting	Tag to include cloud perimeter scan settings.
isCustomScanConfig Enabled	Use this flag to indicate the scan configuration to be used for cloud perimeters scan. By default, this flag is disabled and the global scan configuration is applied to the cloud perimeter scan. To use custom scan configuration, you need to enable this flag.
optionProfileId	Specify the Option Profile Id. This Id is unique for every user. You can fetch the option profile Id using the List VM Option Profile API (/api/2.0/fo/subscription/option_profile/vm/?action=list). For more information on the how to fetch the option profile Id, refer to Qualys API (VM, PC) User Guide.
recurrence	Specify if the scan should be scheduled on DAILY or WEEKLY basis.
daysOfWeek	Specify the days when the scan should be scheduled. For example, SUN, MON, TUE, WED, THU, FRI, SAT. Note: This field is applicable only if the recurrence field is set to WEEKLY.
scanPrefix	Specify a prefix to be appended to the scan name. Once the cloud perimeter scan is triggered from the Vulnerability Management application, the prefix is appended to the scan name. The scan name is in following format: <prefix>-<connectorId>-<timestamp>
startDate	Specify the start date of scan in mm/dd/yyyy format.

startTime	Specify the start time of scan in HH:MM (24 hrs) format.
timezone	Specify the time zone for the cloud perimeter scan to be initiated.

Sample 1 - Update Azure connector name

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/azureassetdatacon
nector/12345"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<root>
<ServiceRequest>
<data>
<AzureAssetDataConnector>
<id>2004</id>
<name>Azure Connector</name>
<description>Updated Description Via API New1</description>
<defaultTags>
<set>
<TagSimple>
<id>123488470</id>
</TagSimple>
</set>
</defaultTags>
<activation>
<set>
<ActivationModule>VM</ActivationModule>
</set>
</activation>
<authRecord>
<applicationId>xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7</applicationId>
<directoryId>xxxxxxxxx-65ab-xxxx-9e5b-1ea02d3d94eb</directoryId>
<subscriptionId>xxxxxxxxx-4f67-xxxx-917d-2246853844e1</subscriptionId>
<authenticationKey>02LCb8/RCn0lbGj6xxxxxxxxnoH01rog=</authenticationKe
y>
```

```
</authRecord>
<disabled>false</disabled>
<runFrequency>300</runFrequency>
<isRemediationEnabled>true</isRemediationEnabled>
<connectorAppInfos>
<set>
<ConnectorAppInfoQList>
<set>
<ConnectorAppInfo>
<name>CSA</name>
<identifier>xxxxxxxxx-4f67-xxxx-917d-2246853844e1</identifier>
<tagId>123489465</tagId>
</ConnectorAppInfo>
</set>
</ConnectorAppInfoQList>
</set>
</connectorAppInfos>
</AzureAssetDataConnector>
</data>
</ServiceRequest>
</root>
```

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceResponse>
  <data>
    <AzureAssetDataConnector>
      <id>842602</id>
    </AzureAssetDataConnector>
  </data>
  <count>1</count>
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```

Sample 2 - Update Azure connector details

API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/azureassetdatacon
nector/12345"
--header 'Accept: application/json'
```

Request POST Data (JSON)


```
{
  "ServiceRequest": {
    "data": {
      "AzureAssetDataConnector": {
        "id": 2004,
        "name": "Azure Connector",
        "description": "Updated Description Via API New1",
        "defaultTags": {
          "set": {
            "TagSimple": {
              "id": 123488470
            }
          }
        },
        "activation": {
          "set": {
            "ActivationModule": "VM"
          }
        },
        "authRecord": {
          "applicationId": "f076c321-694d-4929-ae0b-d2bd14d1a4d7",
          "directoryId": "ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb",
          "subscriptionId": "9de9e0a7-4f67-4812-917d-2246853844e1",
          "authenticationKey":
"02LCb8/RCn0lbGj6xcOGQPZlYG2z85aSmCxnoH01rog="
        },
        "disabled": false,
        "runFrequency": 300,
        "isRemediationEnabled": true,
        "connectorAppInfos": {
          "set": {
            "ConnectorAppInfoQList": {
              "set": {
                "ConnectorAppInfo": {
                  "name": "AI",
                  "identifier": "9de9e0a7-4f67-4812-917d-
2246853844e1",
                  "tagId": 123489465
                }
              }
            },
            "ConnectorAppInfoQList": {
              "set": {
```

```
                "ConnectorAppInfo": {
                  "name": "CI",
                  "identifier": "9de9e0a7-4f67-4812-917d-
2246853844e1",
                  "tagId": 123489465
                }
              }
            },
            "ConnectorAppInfoQList": {
              "set": {
                "ConnectorAppInfo": {
                  "name": "CSA",
                  "identifier": "9de9e0a7-4f67-4812-917d-
2246853844e1",
                  "tagId": 123489465
                }
              }
            }
          }
        }
      }
    }
  }
}
```

Response (JSON)

```
{
    "ServiceResponse": {
        "data": [
            {
                "AzureAssetDataConnector": {
                    "id": 842602
                }
            }
        ],
        "count": 1,
        "responseCode": "SUCCESS"
    }
}
```

Sample 3 - Update Azure connector to enable Cloud Perimeter Scan

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/azureassetdatacon
nector/12345"
--header 'Accept: application/json'
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
   ...
      <isCPSEnabled>true</isCPSEnabled>
       <connectorScanSetting>
                 <isCustomScanConfigEnabled>true</isCustomScanConfigEn
abled>
     </connectorScanSetting>
     <connectorScanConfig>
     <set>
       <ConnectorScanConfiguration>
          <daysOfWeek>
          <set>
             <Day>SUN</Day>
             <Day>MON</Day>
             <Day>TUE</Day>
          </set>
          </daysOfWeek>
          <optionProfileId>2</optionProfileId>
          <recurrence>WEEKLY</recurrence>
          <scanPrefix>update azure 01</scanPrefix>
          <startDate>31/05/2022</startDate>
          <startTime>15:45</startTime>
          <timezone>Africa/Cairo</timezone>
     </ConnectorScanConfiguration>
        </set>
        </connectorScanConfig>
...
</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/3.
0/am/aws_asset_data-connector.xsd">
  <responseCode>SUCCESS</responseCode>
...
  <isCPSEnabled>true</isCPSEnabled>
    <connectorScanSetting>
          <isCustomScanConfigEnabled>true</isCustomScanConfigEnabled>
    </connectorScanSetting>
    <connectorScanConfig>
          <set>
            <ConnectorScanConfiguration>
               <daysOfWeek>
                    <set>
                       <Day>SUN</Day>
                       <Day>MON</Day>
                       <Day>TUE</Day>
                    </set>
               </daysOfWeek>
               <optionProfileId>2</optionProfileId>
               <recurrence>WEEKLY</recurrence>
               <scanPrefix>updated- AWS scan prefix</scanPrefix>
               <startDate>31/05/2022</startDate>
               <startTime>15:45</startTime>
               <timezone>Africa/Cairo</timezone>
          </ConnectorScanConfiguration>
        </set>
     </connectorScanConfig>
...
  </data>
</ServiceResponse>
```

XSD

<platform API server>/qps/xsd/3.0/am/azure_asset_data_connector.xsd

Delete Azure Connector 3.0

/qps/rest/3.0/delete/am/azureassetdataconnector

/qps/rest/3.0/delete/am/azureassetdataconnector/<id>

[POST]

Delete one or more Azure connectors.

Using the NOT EQUALS operator for deleting Azure connectors could result in accidental deletion of Azure connectors without any warning. To prevent accidental deletion of unknown Azure connectors, we do not support NOT EQUALS operator for delete actions.

Permissions required - Managers with full scope.

Sample 1 - Delete Azure connector

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/azureassetdataconnector/289201"
```

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceResponse>
  <data>
    <AzureAssetDataConnector>
      <id>842602</id>
    </AzureAssetDataConnector>
  </data>
  <count>1</count>
  <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```

API request(JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/azureassetdatacon
nector/289201"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response(JSON)

```
{
    "ServiceResponse": {
        "data": [
            {
                "AzureAssetDataConnector": {
                    "id": 842602
                }
            }
        ],
        "count": 1,
        "responseCode": "SUCCESS"
    }
}
```

XSD

[<platform API server>](#)/qps/xsd/3.0/am/azure_asset_data_connector.xsd

Run Azure Connector 3.0

/qps/rest/3.0/run/am/azureassetdataconnector

/qps/rest/3.0/run/am/azureassetdataconnector/<id>

[POST]

API to run the Azure connector. The connectors may be run immediately or queued to run when there is capacity. The run connector API will fetch the latest changes related to your connector.

Permissions required - Managers with full scope.

API request(XML)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/run/am/azureassetdataconnec
tor/<id>"
```

Response(XML)

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse>
<responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
<AzureAssetDataConnector>
<nextSync>2022-06-30T18:51:02Z</nextSync>
<connectorAppInfos>
<list>
<ConnectorAppInfoQList>
<list>
<ConnectorAppInfo>
<name>CI</name>
<identifier>f076c321-694d-4929-ae0b-d2bd14d1a4d7</identifier>
</ConnectorAppInfo>
</list>
</ConnectorAppInfoQList>
</list>
<list>
<ConnectorAppInfoQList>
```

```
<list>
<ConnectorAppInfo>
<name>CSA</name>
<identifier>f076c321-694d-4929-ae0b-d2bd14d1a4d7</identifier>
</ConnectorAppInfo>
</list>
</ConnectorAppInfoQList>
</list>
<list>
<ConnectorAppInfoQList>
<list>
<ConnectorAppInfo>
<name>AI</name>
<identifier>f076c321-694d-4929-ae0b-d2bd14d1a4d7</identifier>
</ConnectorAppInfo>
</list>
</ConnectorAppInfoQList>
</list>
</connectorAppInfos>
<disabled>false</disabled>
<id>842602</id>
<connectorState>FINISHED_SUCCESS</connectorState>
<name>Azure Connector Via API Updated12</name>
<isRemediationEnabled>true</isRemediationEnabled>
<lastSync>2022-06-30T15:06:02Z</lastSync>
<runFrequency>240</runFrequency>
<authRecord>
<authenticationKey>02LCb8/RCn0lbGj6xcOGQPZlYG2z85aSmCxnoH01rog=</authe
nticationKey>
<applicationId>f076c321-694d-4929-ae0b-d2bd14d1a4d7</applicationId>
<directoryId>ff4e2413-65ab-4dc2-9e5b-1ea02d3d94eb</directoryId>
<subscriptionId>9de9e0a7-4f67-4812-917d-2246853844e1</subscriptionId>
</authRecord>
<cloudviewUuid>2ad0a7a1-f881-330c-b5d7-c5c1faddfa39</cloudviewUuid>
<isDeleted>false</isDeleted>
<isGovCloudConfigured>false</isGovCloudConfigured>
<type>AZURE</type>
<activation>
<ActivationModule>CLOUDVIEW</ActivationModule>
</activation>
<subscriptionName>cvtest</subscriptionName>
<description>Sample Azure Connector API Updated</description>
</AzureAssetDataConnector>
</data>
```

```
</ServiceResponse>
```

API request(JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/run/am/azureassetdataconnec
tor/<id>"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response(JSON)


```
{
    {
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "AzureAssetDataConnector": {
                    "nextSync": "2022-06-30T18:51:02Z",
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CI",
                                                "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
```

```
                                                    "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                                }
                                            }
                                        ]
                                    }
                                },
                                {
                                    "ConnectorAppInfoQList": {
                                        "list": [
                                            {
                                                "ConnectorAppInfo": {
                                                    "name": "AI",
                                                    "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                                }
                                            }
                                        ]
                                    }
                                }
                            ]
                        },
                        "disabled": "false",
                        "id": 842602,
                        "connectorState": "FINISHED_SUCCESS",
                        "name": "Azure Connector Via API Updated12",
                        "isRemediationEnabled": "true",
                        "lastSync": "2022-06-30T15:06:02Z",
                        "runFrequency": 240,
                        "authRecord": {
                            "authenticationKey":
"02LCb8/RCn0lbGj6xxxxxxxxnoH01rog=",
                            "applicationId": "xxxxxxxxx-694d-xxxx-ae0b-
d2bd14d1a4d7",
                            "directoryId": "xxxxxxxxx-65ab-xxxx-9e5b-
1ea02d3d94eb",
                            "subscriptionId": "xxxxxxxxx-4f67-xxxx-917d-
2246853844e1"
                        },
                        "cloudviewUuid": "xxxxxxxxx-f881-xxxx-b5d7-
c5c1faddfa39",
                        "isDeleted": "false",
                        "isGovCloudConfigured": "false",
                        "type": "AZURE",
```

```
                    "activation": {
                        "ActivationModule": [
                            "CLOUDVIEW"
                        ]
                    },
                    "subscriptionName": "cvtest",
                    "description": "Sample Azure Connector API
Updated"
                }
            }
        ]
    }
}
}
```

Search Azure Connector 3.0

/qps/rest/3.0/search/am/azureassetdataconnector

Returns a list of Azure connectors that match the provided criteria.

Limit your results -Narrow down your search results using the parameters listed below.

Pagination - A maximum of 100 instances are returned by default. To customize this specify a "preferences" tag in the POST body of your request.

Input Parameters

Parameters	Description
id	The ID of the connector that you want to search.
name	Name is the name for the connector you want to search.
description	Description of the connector you want to search.
lastSync	Last sync date of the connector
connectorState	State of the connector. States include PENDING, SUCCESS, ERROR, QUEUED, RUNNING, PROCESSING, FINISHED_SUCCESS, FINISHED_ERRORS, DISABLED, INCOMPLETE.
Type	Type of connector- Azure
authrecord.applicationId	Unique identifier of the application you create on Azure portal.

authrecord.directoryId	Unique identifier of your Azure Active Directory.
activation	Activation of Qualys modules. Includes VM, PC, SCA, CERTVIEW
authrecord.subscriptionId	Unique identifier of your Microsoft Azure subscription.
appCapability.name	Connector application capability name
appCapability.tag.name	Tag name associates with Connector identifier.
disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled, the connector does not synchronize assets.
defaultTags.name	The name of a tag in the defaultTags collection.
defaultTag	(Integer) The ID of a tag in the defaultTags collection.
lastError	Last error date of the connector.

Sample: Search Azure connector name

API request

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/azureassetdatacon
nector"
```

Request POST data (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<root>
<ServiceRequest>
<filters>
<Criteria>
<field>id</field>
<operator>EQUALS</operator>
<value>xxxxx</value>
</Criteria>
<Criteria>
<field>name</field>
<operator>EQUALS</operator>
<value>Azure Connector Via API</value>
</Criteria>
<Criteria>
<field>description</field>
<operator>EQUALS</operator>
<value>Sample Azure Connector API</value>
</Criteria>
<Criteria>
<field>connectorState</field>
<operator>EQUALS</operator>
<value>FINISHED_SUCCESS</value>
</Criteria>
<Criteria>
<field>lastSync</field>
<operator>EQUALS</operator>
<value>2022-05-27T13:48:17Z</value>
</Criteria>
<Criteria>
<field>type</field>
<operator>EQUALS</operator>
<value>AZURE</value>
</Criteria>
<Criteria>
<field>activation</field>
<operator>EQUALS</operator>
<value>PC</value>
</Criteria>
<Criteria>
```

```
<field>authRecord.applicationId</field>
<operator>EQUALS</operator>
<value>xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7</value>
</Criteria>
<Criteria>
<field>authRecord.directoryId</field>
<operator>EQUALS</operator>
<value>xxxxxxxxx-65ab-xxxx-9e5b-1ea02d3d94eb</value>
</Criteria>
<Criteria>
<field>authRecord.subscriptionId</field>
<operator>EQUALS</operator>
<value>xxxxxxxxx-4f67-xxxx-917d-2246853844e1</value>
</Criteria>
<Criteria>
<field>appCapability.name</field>
<operator>EQUALS</operator>
<value>CSA</value>
</Criteria>
<Criteria>
<field>appCapability.tag.name</field>
<operator>EQUALS</operator>
<value>QATag</value>
</Criteria>
<Criteria>
<field>disabled</field>
<operator>EQUALS</operator>
<value>false</value>
</Criteria>
<Criteria>
<field>defaultTags.name</field>
<operator>EQUALS</operator>
<value>QATag</value>
</Criteria>
<Criteria>
<field>defaultTags</field>
<operator>EQUALS</operator>
<value>123442387</value>
</Criteria>
<Criteria>
<field>lastError</field>
<operator>EQUALS</operator>
<value>2022-04-28T19:05:04Z</value>
</Criteria>
```

```
</filters>
</ServiceRequest>
</root>
```

Response (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceResponse>
<responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
<AzureAssetDataConnector>
<nextSync>2022-06-30T18:51:02Z</nextSync>
<connectorAppInfos>
<list>
<ConnectorAppInfoQList>
<list>
<ConnectorAppInfo>
<name>CI</name>
<identifier>xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7</identifier>
</ConnectorAppInfo>
</list>
</ConnectorAppInfoQList>
</list>
<list>
<ConnectorAppInfoQList>
<list>
<ConnectorAppInfo>
<name>CSA</name>
<identifier>xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7</identifier>
</ConnectorAppInfo>
</list>
</ConnectorAppInfoQList>
</list>
<list>
<ConnectorAppInfoQList>
<list>
<ConnectorAppInfo>
<name>AI</name>
<identifier>xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7</identifier>
</ConnectorAppInfo>
</list>
</ConnectorAppInfoQList>
```

```
</list>
</connectorAppInfos>
<disabled>false</disabled>
<id>842602</id>
<connectorState>QUEUED</connectorState>
<name>Azure Connector Via API Updated12</name>
<isRemediationEnabled>true</isRemediationEnabled>
<lastSync>2022-06-30T14:51:14Z</lastSync>
<runFrequency>240</runFrequency>
<authRecord>
<authenticationKey>02LCb8/RCn0xxxxxxx85aSmCxnoH01rog=</authenticationK
ey>
<applicationId>xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7</applicationId>
<directoryId>xxxxxxxxx-65ab-xxxx-9e5b-1ea02d3d94eb</directoryId>
<subscriptionId>9de9e0a7-4f67-4812-917d-2246853844e1</subscriptionId>
</authRecord>
<cloudviewUuid>xxxxxxxxx-f881-xxxx-b5d7-c5c1faddfa39</cloudviewUuid>
<isDeleted>false</isDeleted>
<isGovCloudConfigured>false</isGovCloudConfigured>
<type>AZURE</type>
<activation>
<ActivationModule>CLOUDVIEW</ActivationModule>
</activation>
<subscriptionName>cvtest</subscriptionName>
<description>Sample Azure Connector API Updated</description>
</AzureAssetDataConnector>
</data>
<hasMoreRecords>false</hasMoreRecords>
</ServiceResponse>
```


API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/azureassetdatacon
nector"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST Data (JSON)

```
{
    "ServiceRequest": {
        "filters": {
```

```
            "Criteria": [
                {  "field" : "id","operator" : "EQUALS","value" :
"842602"},
                {  "field" : "name","operator" : "EQUALS","value" :
"Azure Connector Via API"},
                {  "field" : "description","operator" :
"EQUALS","value" : "Sample Azure Connector API" },
                {   "field" : "connectorState","operator" :
"EQUALS","value" : "FINISHED_SUCCESS" },
                {  "field" : "lastSync",  "operator" : "EQUALS",
"value" : "2022-05-27T13:48:17Z"  },
                {  "field" : "type",  "operator" : "EQUALS", "value" :
"AZURE" },
                {  "field" : "activation",  "operator" : "EQUALS",
 "value" : "PC" },
                {  "field" : "authRecord.applicationId",  "operator" :
"EQUALS",  "value" : "xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7" },
                {  "field" : "authRecord.directoryId",  "operator" :
"EQUALS",  "value" : "xxxxxxxxx-65ab-xxxx-9e5b-1ea02d3d94eb" },
                {  "field" : "authRecord.subscriptionId",  "operator"
: "EQUALS",  "value" : "xxxxxxxxx-4f67-xxxx-917d-2246853844e1" },
                {   "field" : "appCapability.name","operator" :
"EQUALS","value" : "CSA" },
                {   "field" : "appCapability.tag.name","operator" :
"EQUALS","value" : "QATag" },
                {   "field" : "disabled","operator" : "EQUALS","value"
: "false" },
                {   "field" : "defaultTags.name","operator" :
"EQUALS","value" : "QATag" },
                {   "field" : "defaultTags","operator" :
"EQUALS","value" : "123442387" },
                {   "field" : "lastError","operator" :
"EQUALS","value" : "2022-04-28T19:05:04Z" }
            ]
        }
    }
}
```

Response (JSON)

```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
```

```
        "count": 1,
        "data": [
            {
                "AzureAssetDataConnector": {
                    "nextSync": "2022-06-30T18:51:02Z",
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CI",
                                                "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
                                                "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "AI",
                                                "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                            }
                                        }
                                    ]
```

```
                                }
                            }
                        ]
                    },
                    "disabled": "false",
                    "id": 842602,
                    "connectorState": "QUEUED",
                    "name": "Azure Connector Via API Updated12",
                    "isRemediationEnabled": "true",
                    "lastSync": "2022-06-30T14:51:14Z",
                    "runFrequency": 240,
                    "authRecord": {
                        "authenticationKey":
"02LCb8/RCn0lbGxxxxxxG2z85aSmCxnoH01rog=",
                        "applicationId": "xxxxxxxxx-694d-xxxx-ae0b-
d2bd14d1a4d7",
                        "directoryId": "xxxxxxxxx-65ab-xxxx-9e5b-
1ea02d3d94eb",
                        "subscriptionId": "xxxxxxxxx-4f67-xxxx-917d-
2246853844e1"
                    },
                    "cloudviewUuid": "xxxxxxxxx-f881-xxxx-b5d7-
c5c1faddfa39",
                    "isDeleted": "false",
                    "isGovCloudConfigured": "false",
                    "type": "AZURE",
                    "activation": {
                        "ActivationModule": [
                            "CLOUDVIEW"
                        ]
                    },
                    "subscriptionName": "cvtest",
                    "description": "Sample Azure Connector API
Updated"
                }
            }
        ],
        "hasMoreRecords": "false"
    }
}
```

Get Azure Connector Info 3.0

/qps/rest/3.0/get/am/azureassetdataconnector/<id>

View details for a connector which is in the user's scope. Specify the connector ID and fetch the details of the connector.

Permissions required - Managers with full scope.

Sample: List (view) specific Azure Connector Id 166007

API request(JSON)

```
curl -u "USERNAME:PASSWORD"-X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/azureassetdataconnector"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response(JSON)

```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "AzureAssetDataConnector": {
                    "nextSync": "2022-06-30T20:03:28Z",
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CI",
                                                "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                            }
                                        }
                                    ]
                                }
```

```
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
                                                "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "AI",
                                                "identifier":
"xxxxxxxxx-694d-xxxx-ae0b-d2bd14d1a4d7"
                                            }
                                        }
                                    ]
                                }
                            }
                        ]
                    },
                    "disabled": "false",
                    "id": 842602,
                    "connectorState": "FINISHED_SUCCESS",
                    "name": "Azure Connector Via API Updated12",
                    "isRemediationEnabled": "true",
                    "lastSync": "2022-06-30T16:05:02Z",
                    "runFrequency": 240,
                    "authRecord": {
                        "authenticationKey":
"02LCb8/RCn0lbGj6xxxxxxxx5aSmCxnoH01rog=",
                        "applicationId": "xxxxxxxxx-694d-xxxx-ae0b-
d2bd14d1a4d7",
                        "directoryId": "xxxxxxxxx-65ab-xxxx-9e5b-
1ea02d3d94eb",
```

```
                        "subscriptionId": "xxxxxxxxx-4f67-xxxx-917d-
2246853844e1"
                    },
                    "cloudviewUuid": "xxxxxxxxx-f881-xxxx-b5d7-
c5c1faddfa39",
                    "isDeleted": "false",
                    "isGovCloudConfigured": "false",
                    "type": "AZURE",
                    "activation": {
                        "ActivationModule": [
                            "CLOUDVIEW"
                        ]
                    },
                    "subscriptionName": "cvtest",
                    "description": "Sample Azure Connector API
Updated"
                }
            }
        ]
    }
}
```

GCP Connectors 3.0

GCP Connectors 3.0

We support the following operations for all GCP connectors in the Connectors application.

Create GCP Connector 3.0

Update GCP Connector 3.0

Run GCP Connector 3.0

Search GCP Connector 3.0

Delete GCP Connector 3.0

Get GCP Connector Info 3.0

Get All Errors of GCP Connector 3.0

Create GCP Connector 3.0

/qps/rest/3.0/create/am/gcpassetdataconnector

[POST]

Specify the connector details such as name, description, polling frequency, project ID and upload the configuration (JSON) file and create a new connector in the Connectors application.

Permissions required - Managers with full scope.

Input Parameters

Parameters	Description
id	The ID of the connector that you want to create.
name	Name ofthe connector you want to create.
description	Description of the connector you want to create.
type	Type of connector - GCP.
authRecord	(GCPAuthRecordSimple) The GCP authentication record the connector uses to connect to GCP. When writing/updating it is looked up by the ID field.
allRegions	(boolean) If true, the end point's collection is ignored an all GCP regions scanned.
disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled, the connector does not synchronize assets.

runFrequency	runFrequency for a connector decides the rate at which the connector should poll the cloud provider and fetch the data specified in minutes.
isRemediationEnabled	A flag to enable or disable remediation for the connector.
connectorAppInfos.set. ConnectorAppInfoQList	A mandatory parent parameter when you need to provide the below parameter, set.ConnectorAppInfo.
set.ConnectorAppInfos	It holds the list of list of ConnectorAppInfo which includes App Name, identifiers and tag details. Connector can one or more apps from list [AI, CI, CSA]. AI-Asset Inventory, CI- Cloud Inventory, CSA-Cloud Security Assessment.

Sample: Create a new GCP connector

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/am/gcpassetdataconne
ctor"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <GcpAssetDataConnector>
            <disabled>false</disabled>
            <connectorAppInfos>
                <set>
```

```
                    <ConnectorAppInfoQList>
                        <set>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>my-project-
151366xxxx9</identifier>
                                <tagId>123489465</tagId>
                            </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <set>
                            <ConnectorAppInfo>
                                <name>CI</name>
                                <identifier>my-project-
151366xxxx9</identifier>
                                <tagId>123489465</tagId>
                            </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                </set>
            </connectorAppInfos>
            <runFrequency>240</runFrequency>
            <isDeleted>false</isDeleted>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <isRemediationEnabled>true</isRemediationEnabled>
            <name>Test GCP connector</name>
            <authRecord>
                <projectId>my-project-1513669048551</projectId>
                <auth_provider_x509_cert_url>https://www.googleapis.co
m/oauth2/v1/certs</auth_provider_x509_cert_url>
                <auth_uri>https://accounts.google.com/o/oauth2/auth</a
uth_uri>
                <client_email>crm-70975@my-project-
1513669048551.iam.gserviceaccount.com</client_email>
                <client_id>105994049705415737317</client_id>
                <client_x509_cert_url>https://www.googleapis.com/robot
/v1/metadata/x509/crm-70975%40my-project-
1513669048551.iam.gserviceaccount.com</client_x509_cert_url>
                <private_key>-----BEGIN PRIVATE KEY-----
MIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwggSkAgEAAoIBAQC64ocFtknagk8N
4iQd9lhhHXGo8JLVgqSruO8ebxa002+ps8PPukPuAS9IazPrNjdyndVezOClANJu
xj3NhAOQ5xHTANFQH33CXcrxhoNKvdQLIxg0wH8HS94wCOvvDU7wKuOdkfSdLE6Z
a3FM7v2J5iZgC2QgF/stwl13pLszLsOyOuJlMiiV4nYBUMbQrZr8sJvbSBoiEXVt
```

```
enk4Dm2a6khRdRFsa9d9g3Z0t2GyXT3ln8KEAdn8plUu1C6WIHg9HJtYi3ib/4bn
2tahZ/T5C6BQk+3BTbRAoGBALMpb9z3MsEckgNJAF3P
y0pko3GuZx4nq3f20oADxsYfwRjJ5ZfchKbW/rE0IcK0enw3sEHlcFFHgcvMSnr4
Hl0zCZ6uq9rEytwXtM3JKf3ywIH6AzAdkw4s/AVQmk3ejSJkRzxly8FRPNeJjSzm
5WqpzucZNtGdP2UoMMGIv/iq
-----END PRIVATE KEY-----
</private_key>
                <private_key_id>9f5cd117dd7bcaad4</private_key_id>
                <token_uri>https://oauth2.googleapis.com/token</token_
uri>
                <type>service_account</type>
            </authRecord>
        </GcpAssetDataConnector>
    </data>
</ServiceRequest>
```


Response


```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceResponse>
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <GcpAssetDataConnector>
            <nextSync>2022-06-30T16:38:21Z</nextSync>
            <connectorAppInfos>
                <list>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>my-project-
151366xxxx1</identifier>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                </list>
                <list>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CI</name>
```

```
                                <identifier>my-project-
151366xxxx1</identifier>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                </list>
            </connectorAppInfos>
            <disabled>false</disabled>
            <id>842873</id>
            <connectorState>FINISHED_SUCCESS</connectorState>
            <name>sign</name>
            <isRemediationEnabled>true</isRemediationEnabled>
            <authRecord>
                <projectId>my-project-151366xxxx1</projectId>
            </authRecord>
            <lastSync>2022-06-30T13:21:57Z</lastSync>
            <runFrequency>240</runFrequency>
            <cloudviewUuid>xxxxxxxxx-2007-xxxx-adab-
9db19bd5fdb9</cloudviewUuid>
            <isDeleted>false</isDeleted>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <description>testing</description>
        </GcpAssetDataConnector>
    </data>
</ServiceResponse>
```

API Request (JSON)

```
curl -u "USERNAME:PASSWORD"-X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/am/gcpassetdataconne
ctor"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST Data (JSON)

```
{
    "ServiceRequest": {
        "data": {
            "GcpAssetDataConnector": {
                "disabled": "false",
                "connectorAppInfos": {
```

```
                    "set": {
                        "ConnectorAppInfoQList": [
                            {
                                "set": {
                                    "ConnectorAppInfo": [
                                        {
                                            "name": "CSA",
                                            "identifier": "my-project-
151366xxxx9",
                                            "tagId": 123489465
                                        }
                                    ]
                                }
                            },
                            {
                                "set": {
                                    "ConnectorAppInfo": [
                                        {
                                            "name": "CI",
                                            "identifier": "my-project-
151366xxxx9",
                                            "tagId": 123489465
                                        }
                                    ]
                                }
                            }
                        ]
                    }
                },
                "runFrequency": 240,
                "isDeleted": "false",
                "isGovCloudConfigured": "false",
                "isRemediationEnabled": "true",
                "name": "Test GCP connector",
                "authRecord": {
                    "projectId": "my-project-1513669048551",
                    "auth_provider_x509_cert_url":
"https://www.googleapis.com/oauth2/v1/certs",
                    "auth_uri":
"https://accounts.google.com/o/oauth2/auth",
                    "client_email": "crm-70975@my-project-
1513669048551.iam.gserviceaccount.com",
                    "client_id": "105994049705415737317",
```

```
                    "client_x509_cert_url":
"https://www.googleapis.com/robot/v1/metadata/x509/crm-70975%40my-
project-1513669048551.iam.gserviceaccount.com",
                    "private_key": "-----BEGIN PRIVATE KEY-----
\nMIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwggSkAgEAAoIBAQC64ocFtknagk8NU7st
wl13pLszLsOyOuJlMiiV4
nYBUMbQrZr8sJvbSBoiEXVt\nenk4Dm2a6khRdRFsa9d9g3Z0t2GyXT3ln8KEAdn8plUu1
C6WIHg9HJtYi3ib/4bn\n
2tahZ/T5C6BQk+3B38xsnsAJ0TfZFE+xW8mLVMCJRGkPf4sMMP/h9oZbjFdZvf4K\nGE95
3kjFAgMBAAECggEAHEY19eYGpe
3FnpzaaIMTCgNHjo8Xm7KtHoBdWDh\nrDruYtPLXBQMrJPPYTfBG8fKG3bJKAeJFvfbrAa
lvqBasMa24Scvm8AWl+bDeztm\nJjIEFokpUJwAb3ufb6aZRl4v
yQKBgQDZC72Ddcs9AZ+0v/CYWB27Qm06bQ8m/p6D3lnKSlyBV5AoGBAMHf\nhszib0RzKu
EdjE3MIKoMstWxFLACV42pccpyBaLMHawLpNQJVdNQUo+EJZIFPhwF\nbTVIvThGy7+Wmn
u608SN6hyDG+tX9V6DgrwBkQWbVZGf9wv6dKbth9dvnIdlACDv
\nm94RPIQteQmamx2T90t+djTTNKNpHdHLwOKYNTbRAoGBALMpb9z3MsEckgNJAF3P\ny0
pko3GuZx4nq3f20oADxsYfwRjJ5ZfchKbW/rE0IcK0enw3sEHlcFFHgcvMSnr4\nHl0zCZ
6uq9rEytwXtM3JKf3ywIH6AzAdkw4s/AVQmk3ejSJkRzxly8FRPNeJjSzm\n5WqpzucZNt
GdP2UoMMGIv/iq\n-----END PRIVATE KEY-----\n",
                    "private_key_id":
"9f0f1f305cd1124c8c75f9a900695e7dd7bcaad4",
                    "token_uri":
"https://oauth2.googleapis.com/token",
                    "type": "service_account"
                }
            }
        }
    }
}
```


Response (JSON)


```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "GcpAssetDataConnector": {
                    "nextSync": "2022-06-30T16:38:21Z",
                    "connectorAppInfos": {
                        "list": [
                            {
```

```
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
                                                "identifier": "my-
project-151366xxxx1"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CI",
                                                "identifier": "my-
project-151366xxxx1"
                                            }
                                        }
                                    ]
                                }
                            }
                        ]
                    },
                    "disabled": "false",
                    "id": 842873,
                    "connectorState": "FINISHED_SUCCESS",
                    "name": "sign",
                    "isRemediationEnabled": "true",
                    "authRecord": {
                        "projectId": "my-project-151366xxxx1"
                    },
                    "lastSync": "2022-06-30T13:21:57Z",
                    "runFrequency": 240,
                    "cloudviewUuid": "xxxxxx-2007-xxxx-adab-
9db19bd5fdb9",
                    "isDeleted": "false",
                    "isGovCloudConfigured": "false",
                    "description": "testing"
                }
            }
```

```
        ]
    }
}
```

Update GCP Connector 3.0

/qps/rest/3.0/update/am/gcpassetdataconnector

/qps/rest/3.0/update/am/gcpassetdataconnector/<id>

[POST]

Specify the connector ID and the details to be updated to update details of the specified connector.

Permissions required - Managers with full scope.

Input Parameters

Parameters	Description
name	The ID of the connector that you want to update.
description	Name of the connector you want to update.
authRecord	(AzureAuthRecordSimple) The GCP authentication record the connector uses to connect to GCP. When writing/updating it is looked up by the ID field.
disabled	(boolean) Whether execution of the connector is disabled (YES). If disabled the connector does not synchronize assets.
runFrequency	runFrequency for a connector decides the rate at which the connector should poll the cloud provider and fetch the data specified in minutes.
isRemediationEnabled	A flag to enable or disable remediation for the

	connector.
connectorAppInfos	It holds the list of list of ConnectorAppInfo which includes App Name, identifiers and tag details. Connector can one or more apps from list [AI, CI, CSA]. AI-Asset Inventory, CI- Cloud Inventory, CSA- Cloud Security Assessment

Sample: Update GCP connector name

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/gcpassetdatacon
nector/178202"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <data>
        <GcpAssetDataConnector>
            <name>Test GCP connector API UPDATED</name>
            <description>Updated Description By API
UPDATED</description>
            <disabled>false</disabled>
            <runFrequency>500</runFrequency>
            <isRemediationEnabled>false</isRemediationEnabled>
            <authRecord>
                <projectId>my-project-xxxxxxxxxx</projectId>
            </authRecord>
            <connectorAppInfos>
                <set>
                    <ConnectorAppInfoQList>
                        <set>
                            <ConnectorAppInfo>
                                <name>CI</name>
                                <identifier>my-project-
xxxxxxxxx</identifier>
```

```
                                <tagId>121212</tagId>
                            </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                    <ConnectorAppInfoQList>
                        <set>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>my-project-
xxxxxxxxx</identifier>
                                <tagId>121212</tagId>
                            </ConnectorAppInfo>
                        </set>
                    </ConnectorAppInfoQList>
                </set>
            </connectorAppInfos>
        </GcpAssetDataConnector>
    </data>
</ServiceRequest>
```

Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceResponse>
    <data>
        <GcpAssetDataConnector>
            <id>842873</id>
        </GcpAssetDataConnector>
    </data>
    <count>1</count>
    <responseCode>SUCCESS</responseCode>
</ServiceResponse>
```

API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/am/gcpassetdataconne
ctor/178202"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST Data (JSON)

```
{
"ServiceRequest": {
"data": {
"GcpAssetDataConnector": {
"name": "Test GCP connector API UPDATED",
"description": "Updated Description By API UPDATED",
                "disabled": false,
                "runFrequency": 500,
                "isRemediationEnabled": false,
                "authRecord": {
                    "projectId": "my-project-xxxxxxxxx"
                },
                "connectorAppInfos": {
                    "set": {
                        "ConnectorAppInfoQList": [

                            {
                                "set": {
                                "ConnectorAppInfo": {
                                    "name": "CI",
                                    "identifier": "my-project-
xxxxxxxxx",
                                    "tagId": 121212
                                }
                                }
                            },
                            {
                                "set": {
                                "ConnectorAppInfo": {
                                    "name": "CSA",
                                    "identifier": "my-project-
xxxxxxxxx",
                                    "tagId": 121212
                                }
                                }
                            }
                        ]
                    }
                }
}
}
}
}
```

Response (JSON)


```
{
  "ServiceResponse": {
    "data": [
      {
        "GcpAssetDataConnector": {
          "id": 842873
        }
      }
    ],
    "count": 1,
    "responseCode": "SUCCESS"
  }
}
```

Delete GCP Connector 3.0

/qps/rest/3.0/delete/am/gcpassetdataconnector

/qps/rest/3.0/delete/am/gcpassetdataconnector/<id>

We will now deprecate the API endpoint to delete one or more GCP connectors from the CloudView application and introduce an alternative API in the Asset Management application.

Permissions required - Managers with full scope

Sample: Delete a GCP connector

API request

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/gcpassetdataconne
ctor/289201"
```

Response (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceResponse>
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <GcpAssetDataConnector>
      <id>289201</id>
    </GcpAssetDataConnector>
  </data>
</ServiceResponse>
```

API request(JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/delete/am/gcpassetdatacon
nector/289201"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response(JSON)


```
{
  "ServiceResponse": {
    "responseCode": "SUCCESS",
    "count": 1,
    "data": [
      {
        "GcpAssetDataConnector": {
          "id": 289201
        }
      }
    ]
  }
}
```

Run GCP Connector 3.0

/qps/rest/3.0/run/am/gcpassetdataconnector

/qps/rest/3.0/run/am/gcpassetdataconnector/<id>

[POST]

We will now deprecate the API endpoint to run one or more GCP connectors from the CloudView application and introduce an alternative API in the Asset Management application. The run connector API will fetch the latest changes related to your connector.

Permissions required - Managers with full scope.

API request(JSON)

```
curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/run/am/gcpassetdataconnecto
r/<id>"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response(JSON)

```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "GcpAssetDataConnector": {
                    "nextSync": "2022-06-30T16:38:21Z",
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
```

```
                                                "identifier": "my-
project-xxxxxxxxx"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CI",
                                                "identifier": "my-
project-xxxxxxxxx"
                                            }
                                        }
                                    ]
                                }
                            }
                        ]
                    },
                    "disabled": "false",
                    "id": 842873,
                    "connectorState": "FINISHED_SUCCESS",
                    "name": "Test GCP connector API UPDATED",
                    "isRemediationEnabled": "true",
                    "authRecord": {
                        "projectId": "my-project-xxxxxxxxx"
                    },
                    "lastSync": "2022-06-30T16:11:28Z",
                    "runFrequency": 240,
                    "cloudviewUuid": "xxxxxxxxx-2007-xxxx-adab-
9db19bd5fdb9",
                    "isDeleted": "false",
                    "isGovCloudConfigured": "false",
                    "description": "testing"
                }
            }
        ]
    }
}
```

Search GCP Connector 3.0

/qps/rest/3.0/search/am/gcpassetdataconnector

We will now deprecate the API endpoint to return a list of GCP connectors that match the provided criteria from the CloudView application and introduce an alternative in the Asset Management application.

Limit your results- Narrow down your search results using the parameters listed below.

Pagination - A maximum of 100 instances are returned by default. To customize this

specify a "preferences" tag in the POST body of your request.

input Parameters

Parameters	Description
id	The ID of the connector that you want to search.
name	Name is the name for the connector you want to search.
description	Description of the connector you want to search.
lastSync	Last sync date of the connector.
Type	Type of connector - GCP.
authRecord.projectId (Text)	Unique identifier of project in Google cloud.

Sample: Search GCP Connector by project ID

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/gcpassetdataconne
ctor/1xxxxx"
```

Request POST data (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
    <filters>
        <Criteria>
            <field>id</field>
            <operator>EQUALS</operator>
            <value>xxxxx</value>
        </Criteria>
        <Criteria>
            <field>name</field>
            <operator>EQUALS</operator>
            <value>GCP connector API Updated</value>
        </Criteria>
        <Criteria>
            <field>description</field>
            <operator>EQUALS</operator>
            <value>Connector Created from API</value>
        </Criteria>
        <Criteria>
            <field>lastSync</field>
            <operator>EQUALS</operator>
            <value>2022-05-09T16:21:57Z</value>
        </Criteria>
        <Criteria>
            <field>type</field>
            <operator>EQUALS</operator>
            <value>GCP</value>
        </Criteria>
        <Criteria>
            <field>authRecord.projectId</field>
            <operator>EQUALS</operator>
            <value>my-project-xxxxxxxxx</value>
        </Criteria>
        <Criteria>
            <field>connectorState</field>
```

```
            <operator>EQUALS</operator>
            <value>FINISHED_SUCCESS</value>
        </Criteria>
        <Criteria>
            <field>appCapability.name</field>
            <operator>EQUALS</operator>
            <value>CSA</value>
        </Criteria>
        <Criteria>
            <field>appCapability.tag.name</field>
            <operator>EQUALS</operator>
            <value>QATag</value>
        </Criteria>
        <Criteria>
            <field>disabled</field>
            <operator>EQUALS</operator>
            <value>false</value>
        </Criteria>
    </filters>
</ServiceRequest>
```

Response (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceResponse>
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <GcpAssetDataConnector>
            <nextSync>2022-06-30T16:38:21Z</nextSync>
            <connectorAppInfos>
                <list>
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CSA</name>
                                <identifier>my-project-
1513669048551</identifier>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                </list>
                <list>
```

```
                    <ConnectorAppInfoQList>
                        <list>
                            <ConnectorAppInfo>
                                <name>CI</name>
                                <identifier>my-project-
1513669048551</identifier>
                            </ConnectorAppInfo>
                        </list>
                    </ConnectorAppInfoQList>
                </list>
            </connectorAppInfos>
            <disabled>false</disabled>
            <id>842873</id>
            <connectorState>FINISHED_SUCCESS</connectorState>
            <name>Test GCP connector API UPDATED</name>
            <isRemediationEnabled>true</isRemediationEnabled>
            <authRecord>
                <projectId>my-project-1513669048551</projectId>
            </authRecord>
            <lastSync>2022-06-30T16:11:28Z</lastSync>
            <runFrequency>240</runFrequency>
            <cloudviewUuid>a8014b65-2007-3ad0-adab-
9db19bd5fdb9</cloudviewUuid>
            <isDeleted>false</isDeleted>
            <isGovCloudConfigured>false</isGovCloudConfigured>
            <description>testing</description>
        </GcpAssetDataConnector>
    </data>
    <hasMoreRecords>false</hasMoreRecords>
</ServiceResponse>
```


API Request (JSON)

```
curl -u "USERNAME:PASSWORD" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/gcpassetdataconne
ctor/1xxxxx"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST Data (JSON)

```
{
    "ServiceRequest": {
```

```
        "filters": {
            "Criteria": [
                {  "field" : "id","operator" : "EQUALS","value" :
"842873"},
                {  "field" : "name","operator" : "EQUALS","value" :
"GCP connector API Updated"},
                {  "field" : "description","operator" :
"EQUALS","value" : "Connector Created from API" },
                {  "field" : "lastSync",  "operator" : "EQUALS",
"value" : "2022-05-09T16:21:57Z"},
                {  "field" : "type",  "operator" : "EQUALS", "value" :
"GCP" },
                {  "field" : "authRecord.projectId",  "operator" :
"EQUALS",  "value" : "my-project-1513669048551" },
                {   "field" : "connectorState","operator" :
"EQUALS","value" : "FINISHED_SUCCESS" },
                {   "field" : "appCapability.name","operator" :
"EQUALS","value" : "CSA" },
                {   "field" : "appCapability.tag.name","operator" :
"EQUALS","value" : "QATag" },
                 {   "field" : "disabled","operator" :
"EQUALS","value" : "false" }
            ]
        }
    }
}
```

Response (JSON)

```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "GcpAssetDataConnector": {
                    "nextSync": "2022-06-30T16:38:21Z",
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
```

```
                                                    "name": "CSA",
                                                    "identifier": "my-
project-1513669048551"
                                                }
                                            }
                                        ]
                                    }
                                },
                                {
                                    "ConnectorAppInfoQList": {
                                        "list": [
                                            {
                                                "ConnectorAppInfo": {
                                                    "name": "CI",
                                                    "identifier": "my-
project-1513669048551"
                                                }
                                            }
                                        ]
                                    }
                                }
                            ]
                        },
                        "disabled": "false",
                        "id": 842873,
                        "connectorState": "FINISHED_SUCCESS",
                        "name": "Test GCP connector API UPDATED",
                        "isRemediationEnabled": "true",
                        "authRecord": {
                            "projectId": "my-project-1513669048551"
                        },
                        "lastSync": "2022-06-30T16:11:28Z",
                        "runFrequency": 240,
                        "cloudviewUuid": "a8014b65-2007-3ad0-adab-
9db19bd5fdb9",
                        "isDeleted": "false",
                        "isGovCloudConfigured": "false",
                        "description": "testing"
                    }
                }
            ],
            "hasMoreRecords": "false"
        }
}
```

Get GCP Connector Info 3.0

/qps/rest/3.0/get/am/gcpassetdataconnector/<id>

We will now deprecate the old CloudView API endpoint for 'Get GCP connector Info' and an alternative API will be introduced in the Asset Management application. You can select whether the 'Get GCP Connector Info' API applies to AssetView and/or CloudView in the Connector application.

Permissions required - Managers with full scope.

Sample: List specific GCP Connector Id 176001

API request(JSON)

```
curl -n -u "USERNAME:PASSWORD" -X "POST"
"https://qualysapi.qualys.com/qps/rest/3.0/get/am/gcpassetdataconnecto
r/17601"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Response(JSON)


```
{
    "ServiceResponse": {
        "responseCode": "SUCCESS",
        "count": 1,
        "data": [
            {
                "GcpAssetDataConnector": {
                    "nextSync": "2022-06-30T16:38:21Z",
                    "connectorAppInfos": {
                        "list": [
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CSA",
```

```
                                                "identifier": "my-
project-xxxxxxxxx"
                                            }
                                        }
                                    ]
                                }
                            },
                            {
                                "ConnectorAppInfoQList": {
                                    "list": [
                                        {
                                            "ConnectorAppInfo": {
                                                "name": "CI",
                                                "identifier": "my-
project-xxxxxxxxx"
                                            }
                                        }
                                    ]
                                }
                            }
                        ]
                    },
                    "disabled": "false",
                    "id": 842873,
                    "connectorState": "FINISHED_SUCCESS",
                    "name": "sign",
                    "isRemediationEnabled": "true",
                    "authRecord": {
                        "projectId": "my-project-xxxxxxxxx"
                    },
                    "lastSync": "2022-06-30T13:21:57Z",
                    "runFrequency": 240,
                    "cloudviewUuid": "xxxxxxxxx-2007-xxxx-adab-
9db19bd5fdb9",
                    "isDeleted": "false",
                    "isGovCloudConfigured": "false",
                    "description": "testing"
                }
            }
        ]
    }
}
```

Get All Errors of GCP Connector 3.0

/qps/rest/3.0/search/am/assetdataconnectorerrors

Get the list of errors encountered when executing a connector in the connector application

Permissions required - Managers with full scope.

Sample: Get all errors of connector

API request

```
curl -u "USERNAME:PASSWORD" -H "Content-type: application/json" -H
"Accept:
application/json" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/assetdataconnecto
rerrors"
```

Request POST data (XML)

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
<filters>
<Criteria field="id" operator="EQUALS">1xxxxxx</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/3.
0/am/assetdataconnectorerrors.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>0</count>
</ServiceResponse>
```

API request(JSON)

```
curl -u "USERNAME:PASSWORD" -H "Content-type: application/json" -H
"Accept:
application/json" -X "POST" --data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/assetdataconnecto
rerrors"
--header 'Accept: application/json'
--header 'Content-Type: application/json'
```

Request POST data(JSON)

```
{
  "ServiceRequest": {
    "filters": {
      "Criteria": [
        {
          "field": "id",
          "operator": "EQUALS",
          "value": "1xxxxxxx"
        }
      ]
    }
  }
}
```

Response(JSON)

```
{
  "ServiceResponse": {
    "responseCode": "SUCCESS",
    "count": 0
  }
}
```

Global Scan Configuration

Global Scan Configuration

Once you enable cloud perimeter scan for your connector, you need to provide scan configuration for the cloud perimeter scan. You can either choose to provide custom scan configuration or specify global scan configuration settings to be used.

You can use the new API to create global scan configuration to be used for the cloud perimeter scan. If the custom scan configuration is not specified for the cloud perimeter scan, then the global scan configuration is used.

Create Global Scan Configuration

Update Global Scan Configuration

Search Global Scan Configuration

Create Global Scan Configuration

/qps/rest/3.0/create/am/globalscanconfiguration

[POST]

Once you enable cloud perimeter scan for your connector, you need to provide scan configuration for the cloud perimeter scan. You can either choose to provide custom scan configuration or specify global scan configuration settings to be used.

You can create global scan configuration to be used for the cloud perimeter scan. If the custom scan configuration is not specified for the cloud perimeter scan, then the global scan configuration is used.

Permissions required - Managers with full scope.

Input Parameter

Parameters	Description
optionProfileId	Specify the Option Profile Id. This Id is unique for every user. You can fetch the option profile Id using the List VM Option Profile API (/api/2.0/fo/subscription/option_profile/vm/?action=list). For more information on the how to fetch the option profile Id, refer to Qualys API (VM, PC) User Guide.
recurrence	Specify if the scan should be scheduled on DAILY or WEEKLY basis.
daysOfWeek	Specify the days when the scan should be scheduled. For example, SUN, MON, TUE, WED, THU, FRI, SAT. Note: This field is applicable only if the recurrence field is set to WEEKLY.
scanPrefix	Specify a prefix to be appended to the scan name. Once

	the cloud perimeter scan is triggered from the Vulnerability Management application, the prefix is appended to the scan name. The scan name is in following format: <prefix>-<connectorId>-<timestamp>
startDate	Specify the start date of scan in mm/dd/yyyy format.
startTime	Specify the start time of scan in HH:MM (24 hrs) format.
timezone	Specify the time zone for the cloud perimeter scan to be initiated.

Sample 1 - Create Global Scan Configuration

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"
"https://qualysapi.qualys.com/r/qps/rest/3.0/create/am/globalscanconfi
guration"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
   <data>
       <GlobalScanConfiguration>
             <scanPrefix>Global Scan</scanPrefix>
             <optionProfileId>2</optionProfileId>
             <recurrence>WEEKLY</recurrence>
             <startDate>06/22/2022</startDate>
             <startTime>12:45</startTime>
             <daysOfWeek>
                 <set>
                     <Day>SUN</Day>
                     <Day>TUE</Day>
                 </set>
             </daysOfWeek>
             <timezone>Africa/Cairo</timezone>
```

```
        </GlobalScanConfiguration>
    </data>
</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/3.
0/am/globalscanconfiguration.xsd">
     <responseCode>SUCCESS</responseCode>
     <count>1</count>
     <data>
          <GlobalScanConfiguration>
               <scanPrefix>Global Scan</scanPrefix>
               <optionProfileId>2</optionProfileId>
               <recurrence>WEEKLY</recurrence>
               <startDate>06/22/2022</startDate>
               <startTime>12:45</startTime>
               <daysOfWeek>
                    <list>
                         <Day>SUN</Day>
                         <Day>TUE</Day>
                    </list>
               </daysOfWeek>
               <timezone>Africa/Cairo</timezone>
          </GlobalScanConfiguration>
     </data>
</ServiceResponse>
```

Update Global Scan Configuration

/qps/rest/3.0/update/am/globalscanconfiguration

[POST]

Once you enable cloud perimeter scan for your connector, you need to provide scan configuration for the cloud perimeter scan. You can either choose to provide custom scan configuration or specify global scan configuration settings to be used.

You can create global scan configuration to be used for the cloud perimeter scan. If the custom scan configuration is not specified for the cloud perimeter scan, then the global scan configuration is used.

Permissions required - Managers with full scope.

Input Parameter

Parameters	Description
optionProfileId	Specify the Option Profile Id. This Id is unique for every user. You can fetch the option profile Id using the List VM Option Profile API (/api/2.0/fo/subscription/option_profile/vm/?action=list). For more information on the how to fetch the option profile Id, refer to Qualys API (VM, PC) User Guide.
recurrence	Specify if the scan should be scheduled on DAILY or WEEKLY basis.
daysOfWeek	Specify the days when the scan should be scheduled. For example, SUN, MON, TUE, WED, THU, FRI, SAT. Note: This field is applicable only if the recurrence field is set to WEEKLY.
scanPrefix	Specify a prefix to be appended to the scan name. Once

	the cloud perimeter scan is triggered from the Vulnerability Management application, the prefix is appended to the scan name. The scan name is in following format: <prefix>-<connectorId>-<timestamp>
startDate	Specify the start date of scan in mm/dd/yyyy format.
startTime	Specify the start time of scan in HH:MM (24 hrs) format.
timezone	Specify the time zone for the cloud perimeter scan to be initiated.

Sample 1 - Update Global Scan Configuration

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"
"https://qualysapi.qualys.com/r/qps/rest/3.0/update/am/globalscanconfi
guration"
```

Request POST data

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
     <data>
          <GlobalScanConfiguration>
               <scanPrefix>update global scan</scanPrefix>
               <optionProfileId>2</optionProfileId>
               <recurrence>WEEKLY</recurrence>
               <startDate>06/22/2022</startDate>
               <startTime>12:45</startTime>
               <daysOfWeek>
                    <set>
                         <Day>SUN</Day>
                         <Day>TUE</Day>
                    </set>
               </daysOfWeek>
               <timezone>Africa/Cairo</timezone>
```

```
          </GlobalScanConfiguration>
     </data>
</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/3.
0/am/globalscanconfiguration.xsd">
  <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <GlobalScanConfiguration>
            <scanPrefix>update global scan</scanPrefix>
            <optionProfileId>2</optionProfileId>
            <recurrence>WEEKLY</recurrence>
            <startDate>06/22/2022</startDate>
            <startTime>12:45</startTime>
            <daysOfWeek>
                <list>
                    <Day>SUN</Day>
                    <Day>TUE</Day>
                </list>
            </daysOfWeek>
            <timezone>Africa/Cairo</timezone>
        </GlobalScanConfiguration>
  </data>
</ServiceRequest>
```

Search Global Scan Configuration

/qps/rest/3.0/search/am/globalscanconfiguration

[POST]

Use the API to search for the global scan configuration. You need not provide any input parameters.

Permissions required - Managers with full scope.

Sample 1 - Search Global Scan Configuration

API request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"
"https://qualysapi.qualys.com/qps/rest/3.0/search/am/globalscanconfigu
ration"
```

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/3.
0/am/globalscanconfiguration.xsd">
  <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <hasMoreRecords>false</hasMoreRecords>
    <data>
        <GlobalScanConfiguration>
            <scanPrefix>Global Scan</scanPrefix>
            <optionProfileId>2</optionProfileId>
            <recurrence>WEEKLY</recurrence>
            <startDate>06/22/2022</startDate>
            <startTime>12:45</startTime>
            <daysOfWeek>
                <list>
                    <Day>SUN</Day>
                    <Day>TUE</Day>
                </list>
            </daysOfWeek>
            <timezone>Africa/Cairo</timezone>
        </GlobalScanConfiguration>
```

```
  </data>
</ServiceResponse>
```