



Cloud Agent API

User Guide
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Preface

Using the Qualys Cloud Agent (CA) API, third parties can integrate Qualys Cloud Agents into their own applications using an extensible XML interface. This user guide is intended for application developers who will use the Qualys CA API.

About Qualys

Qualys, Inc. (NASDAQ: QLYS) is a pioneer and leading provider of cloud-based security and compliance solutions with over 9,300 customers in more than 100 countries, including a majority of each of the Forbes Global 100 and Fortune 100. The Qualys Cloud Platform and integrated suite of solutions help organizations simplify security operations and lower the cost of compliance by delivering critical security intelligence on demand and automating the full spectrum of auditing, compliance and protection for IT systems and web applications. Founded in 1999, Qualys has established strategic partnerships with leading managed service providers and consulting organizations including Accenture, BT, Cognizant Technology Solutions, Fujitsu, HCL Comnet, HPE, Infosys, NTT, Optiv, SecureWorks, Tata Communications, Verizon and Wipro. The company is also a founding member of the [Cloud Security Alliance \(CSA\)](#). For more information, please visit www.qualys.com.

Contact Qualys Support

Qualys is committed to providing you with the most thorough support. Through online documentation, telephone help, and direct email support, Qualys ensures that your questions will be answered in the fastest time possible. We support you 7 days a week, 24 hours a day. Access support information at www.qualys.com/support/.

Chapter 1 - Welcome

Welcome to Qualys Cloud Agent API. The Cloud Agent API is an extension of the Qualys Asset Management API with many features and capabilities.

Get Started

[Qualys API Framework](#) - Learn the basics about making API requests. The base URL depends on the platform where your Qualys account is located. API requests must authenticate using Qualys credentials.

[Introduction to CA API Paradigm](#) - Get tips on using the Curl command-line tool to make API requests. Every curl request must have -u parameter with a Qualys login and password. Keep in mind the Cloud Agent API does not support JSON calls at this time.

Good to Know

The Qualys Cloud Agent API expands on the Qualys Asset Management and Tagging API v2. Extensions are provided for agent count, activate, deactivate and uninstall actions. To list agents you'll use the existing Host Asset API (hostasset). For details, see [Qualys Asset Management and Tagging API v2 User Guide](#).

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Qualys API Framework

The Qualys Cloud Agent API uses the same framework as the Qualys Asset Management API.

Request URL

The URL for making API requests respects the following structure:

`https://<baseurl>/qps/rest/1.0/<operation>/<module>/<object>/<object_id>`

where the components are described below.

<code><baseurl></code>	The Qualys API server URL that you should use for API requests depends on the platform where your account is located. The base URL for Qualys US Platform 1 is: <code>https://qualysapi.qualys.com</code>
<code><operation></code>	The request operation, such as get a list and search.
<code><module></code>	The API module. For the CA API, the module is: "ca".

<object>	The module specific object.
<object_id>	(Optional) The module specific object ID, if appropriate.

Base URL to the Qualys API Server

The Qualys API documentation and sample code within it use the API server URL for Qualys US Platform 1: qualysapi.qualys.com.

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

Account Login	API Server URL
Qualys US Platform 1	https://qualysapi.qualys.com
Qualys US Platform 2	https://qualysapi.qg2.apps.qualys.com
Qualys US Platform 3	https://qualysapi.qg3.apps.qualys.com
Qualys EU Platform 1	https://qualysapi.qualys.eu
Qualys EU Platform 2	https://qualysapi.qg2.apps.qualys.eu
Qualys India Platform 1	https://qualysapi.qg1.apps.qualys.in
Qualys Private Cloud Platform	<a href="https://qualysapi.<customer_base_url>">https://qualysapi.<customer_base_url>

Introduction to CA API Paradigm

Authentication

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

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

`http://www.faqs.org/rfcs/rfc2617.html`

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

Example

Basic authentication - recommended option:

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

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

Using Curl

Curl is a multi-platform command-line tool used to transfer data using multiple protocols. This tool is supported on many systems, including Windows, Unix, Linux and Mac. In this document Curl is used in the examples to build Qualys API requests using the HTTP over SSL (https) protocol, which is required.

Want to learn more? Visit <http://curl/haxx/se>

The following Curl options are used according to different situations:

Option	Description
-u "LOGIN:PASSWORD"	This option is used for basic authentication.
-X "POST"	The POST method is required for all CA API requests.
-H "content-type"	This option is used to provide a custom HTTP request header parameter for content type, to specify the MIME type of the curl's payload.
--data-binary	This option is used to specify the POST data.

The sample below shows a typical Curl request using options mentioned above and how they interact with each other.

```
curl -H "content-type: text/xml" -X "POST" --data-binary @- "https://example.com" <  
file.xml
```


The option `-X "POST"` tells Curl to execute the request using the HTTP POST method. The option `--data-binary @-` tells Curl to read the POST data from its standard input (stdin). The string `< file.xml` is interpreted by the shell to redirect the content of the file to the stdin of the command. The option `-H "content-type: text/xml"` tells Curl the POST data in `file.xml` is XML in text format.

JSON calls not supported

Qualys Cloud Agent API does not support JSON requests and responses at this time.

POST data

Several API calls support filter criteria specified as POST data in the `<ServiceRequest>` element. Each filter is specified with a parameter name and operator as shown in the example below

Request:

```
curl -u "USERNAME:PASSWORD" -X "POST" -H "Content-Type: text/xml" -  
H "Cache-Control: no-cache" --data-binary @list_all_agents.xml  
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset/"
```

Contents of list_all_agents.xml:

```
<ServiceRequest>  
  <filters>  
    <Criteria field="tagName" operator="EQUALS">Cloud  
Agent</Criteria>  
  </filters>  
</ServiceRequest>
```

Supported filter operators

These filter operators are supported for use with <ServiceRequest> parameters. Keep in mind many API calls support <ServiceRequest> parameters, and some API calls do not support <ServiceRequest> parameters. Please see the description for each API call for details.

Allowed Operators

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

For a bulk request it is mandatory to add this filter criteria in <ServiceRequest>:

```
<Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>
```

Use of NOT EQUALS operator is now disabled during agent uninstall ([Uninstall agents in bulk](#)). This is to avoid unintended consequences of Tags or Assets being deleted or updated.

XML Output Pagination / Truncation Logic

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

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

Request 1:

Search for assets that have a name containing the string "Windows". The request in the POST data file "file.xml" defines this search criteria.

```
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 for Request 1:

```
<ServiceRequest>
  <preferences>
    <limitResults>5</limitResults>
  </preferences>
  <filters>
    <Criteria field="tagName" operator="EQUALS">Cloud Agent
    </Criteria>
    <Criteria field="name" operator="CONTAINS">Windows
    </Criteria>
  </filters>
</ServiceRequest>
```

Response:

The number of records is greater than the default pagination value so the <ServiceResponse> element identifies the last ID of the object in the current page output.

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

Request 2:

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

```
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
```

Request POST Data for Request 2:

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

```
<ServiceRequest>
  <preferences>
    <limitResults>5</limitResults>
  </preferences>
  <filters>
    <Criteria field="name"
operator="CONTAINS">Windows</Criteria>
    <Criteria field="id" operator="GREATER">123</Criteria>
    <Criteria field="tagName" operator="EQUALS">Cloud Agent
    </Criteria>
  </filters>
</ServiceRequest>
```

Setting the Custom Page Size

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

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

Tracking API usage by user

You can track API usage per user without the need to provide user credentials such as the username and password. Contact Qualys Support to get the X-Powered-By HTTP header enabled. Once enabled, the X-Powered-By HTTP header is returned for each API request made by a user. The X-Powered-By value includes a unique ID generated for each subscription and a unique ID generated for each user. See sample headers below.

[Click here](#) to learn more.

Sample: Tracking API usage through the X-Powered-By HTTP header

```
...
229HTTP/1.1 200 OK
X-Powered-By: Qualys:QAPOD4SJC:f972e2cc-69d6-7ebd-80e6-7b9a931475d8:06198167-43f3-7591-802a-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-p04-qualysapi
443,VSERVER=vs-p04-papi-80,ACTIVE-SERVICES=2,HEALTH=100
...
```

Once X-Powered-By HTTP header is enabled, information 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

For example,

```
X-Powered-By: Qualys:QAPOD4SJC:f972e2cc-69d6-7ebd-80e6-7b9a931475d8:06198167-43f3-7591-802a-1c400a0e81b1
```

You can use the USER_UUID to track API usage per user.

Know your Portal Version

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

URL: `https://qualysapi.qualys.com/qps/rest/portal/version`

Methods allowed: GET

Examples

Example 1: 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/versi
on.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Portal-Version>
      <PortalApplication-VERSION>2.18.0.0-1</PortalApplication
-VERSION>
      <WAS-VERSION>4.12.0</WAS-VERSION>
      <CM-VERSION>1.11.0</CM-VERSION>
      <MDS-VERSION>2.10.3</MDS-VERSION>
      <CA-VERSION>1.9.0.0</CA-VERSION>
      <MPS-VERSION>0.4.1</MPS-VERSION>
      <QUESTIONNAIRE-VERSION>2.3.0</QUESTIONNAIRE-VERSION>
      <WAF-VERSION>1.21.0</WAF-VERSION>
    </Portal-Version>
    <QWeb-Version>
      <WEB-VERSION>8.9.2.0-SNAPSHOT-20161214103056#7</WEB-VERSION>
      <SCANNER-VERSION>9.1.14-1</SCANNER-VERSION>
      <VULNSIGS-VERSION>2.3.493-1</VULNSIGS-VERSION>
    </QWeb-Version>
  </data>
</ServiceResponse>
```

Example 2: 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": "2.18.0.0-1",
          "WAS-VERSION": "4.12.0",
          "CM-VERSION": "1.11.0",
          "MDS-VERSION": "2.10.3",
          "CA-VERSION": "1.9.0.0",
          "MPS-VERSION": "0.4.1",
          "QUESTIONNAIRE-VERSION": "2.3.0",
          "WAF-VERSION": "1.21.0"
        },
        "QWeb-Version": {
          "WEB-VERSION": "8.9.2.0-SNAPSHOT-20161214103056#7",
          "SCANNER-VERSION": "9.1.14-1",
          "VULNSIGS-VERSION": "2.3.493-1"
        }
      }
    ],
    "responseCode": "SUCCESS",
    "count": 1
  }
}
```

Chapter 2 - Agent Management API

Use these API functions to manage agents in your subscription.

Agent information

[Current agent count](#)

[List agents](#)

Activation

[Activate a single agent](#)

[Activate agents in bulk](#)

Deactivation

[Deactivate a single agent](#)

[Deactivate agents in bulk](#)

Uninstall

[Uninstall a single agent](#)

[Uninstall agents in bulk](#)

[Use Host Asset API to uninstall a single agent](#)

[Use Host Asset API to uninstall agents in bulk](#)

Current agent count

Get the number of agents installed (provisioned) in the user's subscription. This count matches the number of agent hosts in the user's scope.

URL: `https://<baseurl>/qps/rest/2.0/count/am/hostasset`

Methods allowed: POST

Input

To get a count of agents installed, nothing other than the filter `tagName EQUALS Cloud Agent` is recommended. The more filters added to the request will result in a more refined count.

Use the following `<ServiceRequest>` parameters to select agents you want to include in the agent count. These parameters act as filters. When multiple filters are specified, parameters are combined using a logical AND

Filter operators are available for use with `<ServiceRequest>` parameters. [Supported filter operators](#)

id (Long)	Asset ID of the agent host.
name (String)	Asset name of the agent host.
created (Date)	Date when the agent host was added to your asset inventory (i.e. when the agent was provisioned). Date is specified in UTC/GMT format, i.e. YYYY-MM-DD[THH:MM:SSZ]
updated (Date)	Date when the agent last checked in to the cloud platform. (The agent's last checkin date matches the asset's last modified date). Date is specified in UTC/GMT format.
tagName (String)	Asset tag name assigned to the agent host. All agent hosts are assigned the tag Cloud Agent.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- Asset Management Permission "Read Asset"

Example

Request:

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

Contents of get_all_agents_count.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<ServiceRequest>  
  <filters>  
    <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="https://qualysapi.qualys.com/qps/xsd/2.0/am/hostasset.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>3</count>  
</ServiceResponse>
```

List agents

To get a list of cloud agents we use the Asset Management API v2 Host Asset API. For details on this API, see [Qualys Asset Management and Tagging API v2 User Guide](#)

URL:	https://<baseurl>/qps/rest/2.0/search/am/hostasset
Methods allowed:	POST
Pagination:	A maximum of 100 agent assets are returned by default. To customize this specify a “preferences” tag in the POST body of your request. For details, see XML Output Pagination / Truncation Logic .
Limit results:	Use the optional “fields” parameter to limit the amount of information returned for each agent asset.

Input

To obtain a list of agent assets, it is mandatory to add this filter criteria in <ServiceRequest>:

```
<Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>
```

More optional fields are available to filter your results. For details on these fields, see [Qualys Asset Management and Tagging API v2 User Guide](#).

Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#)

Example

Request:

```
curl -u "USERNAME:PASSWORD" -X "POST" -H "Content-Type: text/xml"
-H "Cache-Control: no-cache" --data-binary @list_all_agents.xml
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset/"
```

Contents of list_all_agents.xml:

```
<ServiceRequest>
  <filters>
    <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="https://qualysapi.qualys.com/qps/xs
d/2.0/am/hostasset.xsd">
```

```
<responseCode>SUCCESS</responseCode>
<count>2</count>
<hasMoreRecords>>false</hasMoreRecords>
<data>
  <HostAsset>
    <id>611872</id>
    <name>113080-T4</name>
    <created>2017-01-12T05:59:47Z</created>
    <modified>2017-05-04T18:41:59Z</modified>
    <type>HOST</type>
    <tags>
      <list>
        <TagSimple>
          <id>8572212</id>
          <name>mytag</name>
        </TagSimple>
        <TagSimple>
          <id>7584632</id>
          <name>Cloud Agent</name>
        </TagSimple>
        <TagSimple>
          <id>7730634</id>
          <name>qa</name>
        </TagSimple>
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
    <qwebHostId>90289</qwebHostId>
    <lastComplianceScan>2017-01-13T06:41:34Z</lastComplianceScan>
    <lastSystemBoot>2017-01-13T14:38:09Z</lastSystemBoot>
    <lastLoggedOnUser>CORP\rkumar</lastLoggedOnUser>
    <os>WINDOWS 95 11</os>
    <dnsHostName>113080-t450</dnsHostName>
    <agentInfo>
      <agentVersion>1.5.5.101</agentVersion>
      <agentId>25fdbafc-4b9d-403b-962c-601bac5a6b69</agentId>
      <status>STATUS_INACTIVE</status>
      <lastCheckedIn>2017-01-13T19:18:07Z</lastCheckedIn>
      <connectedFrom>64.39.96.133</connectedFrom>
      <location>Sunnyvale,California United
```

```
States</location>
<locationGeoLatitude>37.3537</locationGeoLatitude>
<locationGeoLongitude>-
  122.0307</locationGeoLongitude>
<chirpStatus>Manifest Downloaded</chirpStatus>
<platform>Windows</platform>
<activatedModule>AGENT_VM</activatedModule>
<manifestVersion>VULNSIGS-VM-2.3.493-
  4</manifestVersion>
<agentConfiguration>
  <id>203801</id>
  <name>Config Created using api-isdefault
    one149245571382344323</name>
</agentConfiguration>
<activationKey>
  <activationId>dcfab7e9-38c2-4301-8da1-
    d3ecab9555d5</activationId>
  <title>1480630093818 key by api count limited to
    unlimited vm/pv active</title>
</activationKey>
</agentInfo>
<netbiosName>113080-T450</netbiosName>
<networkGuid>6b48277c-0742-61c1-82bb-
  cac0f9c4094a</networkGuid>
<address>10.0.203.95</address>
<trackingMethod>QAGENT</trackingMethod>
<manufacturer>LENOVO</manufacturer>
<model>20BUA04EIG</model>
<totalMemory>11984</totalMemory>
<timezone>+05:30</timezone>
<biosDescription>LENOVO JBET54WW (1.19 ),
  11/6/2015</biosDescription>
<openPort>
  <list>
    <HostAssetOpenPort>
      <port>58528</port>
      <protocol>TCP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
      <port>139</port>
      <protocol>TCP</protocol>
    </HostAssetOpenPort>
    ...
  </list>
</openPort>
```

```
<software>
  <list>
    <HostAssetSoftware>
      <name>Adobe Acrobat Reader DC</name>
      <version>15.023.20053</version>
    </HostAssetSoftware>
    <HostAssetSoftware>
      <name>Google Chrome</name>
      <version>50.0.2661.94</version>
    </HostAssetSoftware>
    ...
  </list>
</software>
<vuln>
  <list>
    <HostAssetVuln>
      <qid>105591</qid>

<hostInstanceVulnId>14285901</hostInstanceVulnId>
      <firstFound>2017-01-
13T15:09:40Z</firstFound>
      <lastFound>2017-01-13T15:09:40Z</lastFound>
    </HostAssetVuln>
    <HostAssetVuln>
      <qid>105003</qid>

<hostInstanceVulnId>14284500</hostInstanceVulnId>
      <firstFound>2017-01-
13T05:21:20Z</firstFound>
      <lastFound>2017-01-13T05:21:20Z</lastFound>
    </HostAssetVuln>
    ...
  </list>
</vuln>
<processor>
  <list>
    <HostAssetProcessor>
      <name>Intel(R) Core(TM) i5-5300U CPU @
2.30GHz</name>
      <speed>2295</speed>
    </HostAssetProcessor>
  </list>
</processor>
<volume>
  <list>
    <HostAssetVolume>
```

```

        <name>C:</name>
        <size>249532772352</size>
        <free>156288118784</free>
    </HostAssetVolume>
</list>
</volume>
<account>
    <list>
        <HostAssetAccount>
            <username>Administrator</username>
        </HostAssetAccount>
        <HostAssetAccount>
            <username>DefaultAccount</username>
        </HostAssetAccount>
        <HostAssetAccount>
            <username>Guest</username>
        </HostAssetAccount>
        <HostAssetAccount>
            <username>QAdmin</username>
        </HostAssetAccount>
    </list>
</account>
<networkInterface>
    <list>
        <HostAssetInterface>
            <interfaceName>Intel(R) Dual Band Wireless-
                AC 7265</interfaceName>
            <macAddress>18:5E:0F:3A:C7:30</macAddress>
            <type>LOCAL</type>
            <address>192.168.248.171</address>

<gatewayAddress>192.168.248.1</gatewayAddress>
        </HostAssetInterface>
        <HostAssetInterface>
            <interfaceName>Cisco AnyConnect Secure
                Mobility Client Virtual Miniport Adapter
                for Windows x64</interfaceName>
            <macAddress>00:05:9A:3C:7A:00</macAddress>
            <type>LOCAL</type>

<address>fe80:0:0:0:1dcc:3a12:56d8:73f</address>

<gatewayAddress>0:0:0:0:0:0:0:0</gatewayAddress>
        </HostAssetInterface>
        <HostAssetInterface>
            <interfaceName>Intel(R) Dual Band Wireless-

```

```
        AC 7265</interfaceName>
        <macAddress>18:5E:0F:3A:C7:30</macAddress>
        <type>LOCAL</type>

<address>fe80:0:0:0:a164:415a:dc29:a24c</address>

<gatewayAddress>192.168.248.1</gatewayAddress>
</HostAssetInterface>
<HostAssetInterface>
    <interfaceName>Cisco AnyConnect Secure
        Mobility Client Virtual Miniport Adapter
        for Windows x64</interfaceName>
    <macAddress>00:05:9A:3C:7A:00</macAddress>
    <type>LOCAL</type>

<address>fe80:0:0:0:b20d:4542:90a2:23f1</address>

<gatewayAddress>0:0:0:0:0:0:0:0</gatewayAddress>
</HostAssetInterface>
<HostAssetInterface>
    <hostname>113080-t450</hostname>
    <interfaceName>Cisco AnyConnect Secure
        Mobility Client Virtual Miniport Adapter
        for Windows x64</interfaceName>
    <macAddress>00:05:9A:3C:7A:00</macAddress>
    <type>LOCAL</type>
    <address>10.0.203.95</address>

<gatewayAddress>0:0:0:0:0:0:0:0</gatewayAddress>
</HostAssetInterface>
</list>
</networkInterface>
</HostAsset>
<HostAsset>
    <id>5419283</id>
    <name>113080-T450</name>
    <created>2017-05-17T07:25:02Z</created>
    <modified>2017-05-18T10:35:27Z</modified>
    <type>HOST</type>
    <tags>
        <list>
            <TagSimple>
                <id>7584632</id>
                <name>Cloud Agent</name>
            </TagSimple>
        </list>
    </tags>
</HostAsset>
```



```
</tags>
<sourceInfo>
  <list>
    <AssetSource/>
  </list>
</sourceInfo>
<qwebHostId>211508</qwebHostId>
<lastSystemBoot>2017-05-17T09:57:19Z</lastSystemBoot>
<lastLoggedOnUser>CORP\rkumar</lastLoggedOnUser>
<domain>corp.qualys.com</domain>
<fqdn>113080-T450.corp.qualys.com</fqdn>
<os>Microsoft Windows 10 Enterprise 10.0.10586 N/A
Build
  10586</os>
<dnsHostName>113080-T450</dnsHostName>
<agentInfo>
  <agentVersion>1.5.6.66</agentVersion>
  <agentId>e3d0ed45-1292-4152-87ee-
    7d6c8d5d725c</agentId>
  <status>STATUS_ACTIVE</status>
  <lastCheckedIn>2017-05-18T10:35:29Z</lastCheckedIn>
  <connectedFrom>64.39.96.133</connectedFrom>
  <location>Sunnyvale,California United
    States</location>
  <locationGeoLatitude>37.3537</locationGeoLatitude>
  <locationGeoLongitude>-
    122.0307</locationGeoLongitude>
  <chirpStatus>Manifest Downloaded</chirpStatus>
  <platform>Windows</platform>
  <activatedModule>AGENT_VM</activatedModule>
  <agentConfiguration>
    <id>203801</id>
    <name>Config Created using api-isdefault
      one149245571382344323</name>
  </agentConfiguration>
  <activationKey>
    <activationId>1b37b569-9bf6-444f-9330-
      94535696f272</activationId>
    <title>my</title>
  </activationKey>
</agentInfo>
<netbiosName>113080-T450</netbiosName>
<networkGuid>6b48277c-0742-61c1-82bb-
  cac0f9c4094a</networkGuid>
<address>10.113.15.132</address>
<trackingMethod>QAGENT</trackingMethod>
```

```

<manufacturer>LENOVO</manufacturer>
<model>20BUA04EIG</model>
<totalMemory>11984</totalMemory>
<timezone>+05:30</timezone>
<biosDescription>LENOVO JBET54WW (1.19 ),
  11/6/2015</biosDescription>
<openPort>
  <list>
    <HostAssetOpenPort>
      <port>49664</port>
      <protocol>TCP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
      <port>49536</port>
      <protocol>TCP</protocol>
    </HostAssetOpenPort>
    ...
  </list>
</openPort>
<software>
  <list>
    <HostAssetSoftware>
      <name>Microsoft Visual C++ 2013 x64
Additional
      Runtime - 12.0.21005</name>
      <version>12.0.21005</version>
    </HostAssetSoftware>
    <HostAssetSoftware>
      <name>Microsoft Word MUI (English)
2016</name>
      <version>16.0.4266.1001</version>
    </HostAssetSoftware>
    ...
  </list>
</software>
<vuln>
  <list/>
</vuln>
<processor>
  <list>
    <HostAssetProcessor>
      <name>Intel(R) Core(TM) i5-5300U CPU @
        2.30GHz</name>
      <speed>2295</speed>
    </HostAssetProcessor>
  </list>

```

```

</processor>
<volume>
  <list>
    <HostAssetVolume>
      <name>C:</name>
      <size>249532772352</size>
      <free>146153943040</free>
    </HostAssetVolume>
  </list>
</volume>
<account>
  <list>
    <HostAssetAccount>
      <username>Administrator</username>
    </HostAssetAccount>
    <HostAssetAccount>
      <username>DefaultAccount</username>
    </HostAssetAccount>
    <HostAssetAccount>
      <username>Guest</username>
    </HostAssetAccount>
    <HostAssetAccount>
      <username>QAdmin</username>
    </HostAssetAccount>
  </list>
</account>
<networkInterface>
  <list>
    <HostAssetInterface>
      <interfaceName>Intel(R) Ethernet Connection
        (3) I218-LM</interfaceName>
      <macAddress>50:7B:9D:2B:A8:BB</macAddress>
      <type>LOCAL</type>
<address>fe80:0:0:0:98d5:b22f:a32b:5ef1</address>
      <gatewayAddress>10.113.15.1</gatewayAddress>
    </HostAssetInterface>
    <HostAssetInterface>
      <hostname>113080-T450</hostname>
      <interfaceName>Intel(R) Ethernet Connection
        (3) I218-LM</interfaceName>
      <macAddress>50:7B:9D:2B:A8:BB</macAddress>
      <type>LOCAL</type>
      <address>10.113.15.132</address>
      <gatewayAddress>10.113.15.1</gatewayAddress>
    </HostAssetInterface>

```

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

Activate a single agent

Activates a single cloud agent for the VM, PC, FIM, or IOC module.

URL: `https://<baseurl>/qps/rest/2.0/activate/am/asset/<id>?module=<value1>,<value2>`

Methods allowed: POST

where:

“id” (Required) is the asset ID of the agent you want to activate. This is the agent ID where the agent is installed.

“module” (Required) is the module to be activated for the agent: AGENT_VM (for VM module), AGENT_PC (for PC module), AGENT_FIM (for FIM module) or AGENT_IOC (for IOC module). Specified module must be enabled in the user’s subscription. You can specify more than one module separated by a comma. For example, module=AGENT_VM,AGENT_PC,AGENT_FIM,AGENT_IOC.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Agent Permission "Activate Agent"

Example

Request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -H "X-Requested-With: curl" --data-binary @single_activation.xml "https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset/5808297?module=AGENT_VM"
```

Contents of single_activation.xml:

```
<?xml version="1.0" encoding="UTF-8" ?> <ServiceRequest>  
</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>5808297</id>
    <name>qubul404spp4</name>
    <created>2016-06-22T11:45:38Z</created>
    <modified>2016-07-21T21:14:26Z</modified>
    <type>HOST</type>
    <tags>
      <list>
        <TagSimple>
          <id>1835835</id>
          <name>Tag name 1</name>
        </TagSimple>
        <TagSimple>
          <id>2327817</id>
          <name>Tag name 2</name>
        </TagSimple>
        <TagSimple>
          <id>1828415</id>
          <name>Cloud Agent</name>
        </TagSimple>
        <TagSimple>
          <id>2079439</id>
          <name>Tag name 3</name>
        </TagSimple>
        <TagSimple>
          <id>1855817</id>
          <name>Tag name 4</name>
        </TagSimple>
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
  </Asset>
</data>
</ServiceResponse>
```

Activate agents in bulk

Bulk activates cloud agents for the VM or PC module.

URL: `https://<baseurl>/qps/rest/2.0/activate/am/asset?module=<value1>,<value2>`

Methods allowed: POST

where:

“module” (Required) is the module to be activated for the agent: AGENT_VM (for VM module), AGENT_PC (for PC module), AGENT_FIM (for FIM module) or AGENT_IOC (for IOC module). Specified module must be enabled in the user’s subscription. You can specify more than one module separated by a comma. For example, module=AGENT_VM,AGENT_PC,AGENT_FIM,AGENT_IOC.

Input

To activate all agents installed, nothing other than the filter tagName EQUALS Cloud Agent is recommended. The more filters added to the request we’ll activate a more refined list of agents.

Use the following <ServiceRequest> parameters to select agents you want to activate. These parameters act as filters. When multiple filters are specified, parameters are combined using a logical AND.

For a bulk request it is mandatory to add this filter criteria in <ServiceRequest>:

```
<Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>
```

Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#)

id (Long)	Asset ID of the agent host.
name (String)	Asset name of the agent host.
created (Date)	Date when the agent host was created (i.e. when the agent was provisioned). Date is specified in UTC/GMT format, i.e. YYYY-MM-DD[THH:MM:SSZ]
updated (Date)	Date when the agent last checked in to the cloud platform. (The agent’s last checkin date matches the asset’s last modified date). Date is specified in UTC/GMT format.
tagName (String)	Asset tag name assigned to the agent host. All agent hosts are assigned the tag Cloud Agent.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Agent Permission "Activate Agent"

Example

Request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -H "Cache-Control: no-cache" --data-binary @activate_all_agents.xml "https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset?module=AGENT_VM,AGENT_FIM"
```

Contents of activate_all_agents.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <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="https://qualysapi.qualys.com/qps/xs
d/2.0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
  <data>
    <Asset>
      <id>712038</id>
      <name>192.168.1.12</name>
      <created>2014-06-18T16:54:50Z</created>
      <modified>2014-06-18T16:54:51Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>509525</id>
            <name>Cloud Agent</name>
          </TagSimple>
        </list>
```



```
</tags>
<sourceInfo>
  <list>
    <AssetSource/>
  </list>
</sourceInfo>
</Asset>
<Asset>
  <id>2532638</id>
  <name>10.40.2.176</name>
  <created>2015-04-17T13:32:48Z</created>
  <modified>2015-05-14T14:06:03Z</modified>
  <type>HOST</type>
  <tags>
    <list>
      <TagSimple>
        <id>509525</id>
        <name>Cloud Agent</name>
      </TagSimple>
    </list>
  </tags>
  <sourceInfo>
    <list>
      <AssetSource/>
    </list>
  </sourceInfo>
</Asset>
<Asset>
  <id>2532838</id>
  <name>local IP agent</name>
  <created>2015-04-19T13:52:08Z</created>
  <modified>2016-02-05T12:26:48Z</modified>
  <type>HOST</type>
  <tags>
    <list>
      <TagSimple>
        <id>509525</id>
        <name>Cloud Agent</name>
      </TagSimple>
      <TagSimple>
        <id>217325</id>
        <name>Agent</name>
      </TagSimple>
    </list>
  </tags>
```

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

Deactivate a single agent

Deactivates a single cloud agent for the VM or PC module.

URL: `https://<baseurl>/qps/rest/2.0/deactivate/am/asset/<id>?module=<value1>,<value2>`

Methods allowed: POST

where:

“id” (Required) is the asset ID of the agent you want to deactivate. This is the agent ID where the agent is installed.

“module” (Required) is the module to be deactivated: AGENT_VM (for VM module), AGENT_PC (for PC module), AGENT_FIM (for FIM module) or AGENT_IOC (for IOC module). Specified module must be enabled in the user’s subscription. You can specify more than one module separated by a comma. For example, module=AGENT_VM,AGENT_PC,AGENT_FIM,AGENT_IOC.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission “API ACCESS”
- CA Agent Permission “Deactivate Agent”

Example

Request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -  
-data-binary @single_deactivation.xml  
"https://qualysapi.qualys.com/qps/rest/2.0/deactivate/am/asset/521  
4017?module=AGENT_VM"
```

Contents of single_deactivation.xml:

```
<?xml version="1.0" encoding="UTF-8" ?> <ServiceRequest>  
</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.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>
```

```
<data>
  <Asset>
    <id>5214017</id>
    <name>113080-T450</name>
    <created>2017-04-12T07:23:41Z</created>
    <modified>2017-04-19T07:07:12Z</modified>
    <type>HOST</type>
    <tags>
      <list>
        <TagSimple>
          <id>7584632</id>
          <name>Cloud Agent</name>
        </TagSimple>
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
  </Asset>
</data>
</ServiceResponse>
```

Deactivate agents in bulk

Bulk deactivate cloud agents for the VM or PC module.

URL: `https://<baseurl>/qps/rest/2.0/deactivate/am/asset?module=<value1>,<value2>`

Methods allowed: POST

where:

“module” (Required) is the module to be deactivated for the agent: AGENT_VM (for VM module), AGENT_PC (for PC module), AGENT_FIM (for FIM module) or AGENT_IOC (for IOC module). Specified module must be enabled in the user’s subscription. You can specify more than one module separated by a comma. For example, module=AGENT_VM,AGENT_PC,AGENT_FIM,AGENT_IOC.

Input

To deactivate all agents installed, nothing other than the filter tagName EQUALS Cloud Agent is recommended. The more filters added to the request we’ll deactivate a more refined list of agents.

Use the following <ServiceRequest> parameters to select agents you want to deactivate. These parameters act as filters. When multiple filters are specified, parameters are combined using a logical AND. Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#)

For a bulk request it is mandatory to add this filter criteria in <ServiceRequest>:

```
<Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>
```

id (Long)	Asset ID of the agent host.
name (String)	Asset name of the agent host.
created (Date)	Date when the agent host was created (i.e. when the agent was provisioned). Date is specified in UTC/GMT format, i.e. YYYY-MM-DD[THH:MM:SSZ
updated (Date)	Date when the agent last checked in to the cloud platform. (The agent’s last checkin date matches the asset’s last modified date). Date is specified in UTC/GMT format.
tagName (String)	Asset tag name assigned to the agent host. All agent hosts are assigned the tag Cloud Agent.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Agent Permission "Deactivate Agent"

Example

Request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -H "Cache-Control: no-cache" --data-binary @deactivate_all_agents.xml "https://qualysapi.qualys.com/qps/rest/2.0/deactivate/am/asset?module=AGENT_VM,AGENT_FIM"
```

Contents of deactivate_all_agents.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <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="https://qualysapi.qualys.com/qps/xsd/2.0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
  <data>
    <Asset>
      <id>712038</id>
      <name>192.168.1.12</name>
      <created>2014-06-18T16:54:50Z</created>
      <modified>2014-06-18T16:54:51Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>509525</id>
            <name>Cloud Agent</name>
          </TagSimple>
```

```
        </list>
    </tags>
    <sourceInfo>
        <list>
            <AssetSource/>
        </list>
    </sourceInfo>
</Asset>
<Asset>
    <id>2532638</id>
    <name>10.40.2.176</name>
    <created>2015-04-17T13:32:48Z</created>
    <modified>2015-05-14T14:06:03Z</modified>
    <type>HOST</type>
    <tags>
        <list>
            <TagSimple>
                <id>509525</id>
                <name>Cloud Agent</name>
            </TagSimple>
        </list>
    </tags>
    <sourceInfo>
        <list>
            <AssetSource/>
        </list>
    </sourceInfo>
</Asset>
<Asset>
    <id>2532838</id>
    <name>local IP agent</name>
    <created>2015-04-19T13:52:08Z</created>
    <modified>2016-02-05T12:26:48Z</modified>
    <type>HOST</type>
    <tags>
        <list>
            <TagSimple>
                <id>509525</id>
                <name>Cloud Agent</name>
            </TagSimple>
            <TagSimple>
                <id>217325</id>
                <name>Agent</name>
            </TagSimple>
        </list>
    </tags>
    <sourceInfo>
        <list>
            <AssetSource/>
        </list>
    </sourceInfo>
</Asset>
```

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


Uninstall a single agent

Uninstall a single cloud agent and remove the associated agent host from your subscription.

Good to Know - A request to uninstall an agent makes a call to the Qualys Cloud Platform to purge the host scan data (findings) for the agent host and remove the agent host from your subscription..

URL: `https://<baseurl>/qps/rest/2.0/uninstall/am/asset/<id>`

Methods allowed: POST

where

“id” (Required) is the asset ID of the agent you want to uninstall. This is the asset ID where the agent is installed.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Agent Permission "Uninstall Agent"

Example

Request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -  
-data-binary @single_uninstall.xml  
"https://qualysapi.qualys.com/qps/rest/2.0/uninstall/am/asset/1113  
679"
```

Contents of single_uninstall.xml:

```
<?xml version="1.0" encoding="UTF-8" ?> <ServiceRequest>  
</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.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
</data>
```

```

<Asset>
  <id>1113679</id>
  <name>113080-T450</name>
  <created>2018-03-09T02:24:53Z</created>
  <modified>2018-03-09T02:24:54Z</modified>
  <type>HOST</type>
  <tags>
    <list>
      <TagSimple>
        <id>7563812</id>
        <name>Cloud Agent</name>
      </TagSimple>
    </list>
  </tags>
</Asset>
</data>
</ServiceResponse>
</ServiceResponse>

```

Uninstall agents in bulk

Bulk uninstall cloud agents matching the specified filter criteria, and remove associated agent hosts from your subscription.

Good to Know - A request to uninstall agents makes a call to the Qualys Cloud Platform to purge the host scan data (findings) for the agent hosts and remove the agent hosts from your subscription.

URL: `https://<baseurl>/qps/rest/2.0/uninstall/am/asset`

Methods allowed: POST

Input

To uninstall all agents, nothing other than the filter `tagName EQUALS Cloud Agent` is recommended. The more filters added to the request we'll uninstall a more refined list of agents.

Use the following `<ServiceRequest>` parameters to select agents you want to uninstall. These parameters act as filters. When multiple filters are specified, parameters are combined using a logical AND.

For a bulk request it is mandatory to add this filter criteria in `<ServiceRequest>`:

```
<Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>
```

Filter operators are available for use with `<ServiceRequest>` parameters. [Supported filter operators](#)

Use of NOT EQUALS operator is now disabled during agent uninstall. This is to avoid unintended consequences of Tags or Assets being deleted or updated. The service response includes an error message if you use the NOT EQUALS operator while uninstalling an agent.

id (Long)	Asset ID of the agent host.
name (String)	Asset name of the agent host.
created (Date)	Date when the agent host was created (i.e. when the agent was provisioned). Date is specified in UTC/GMT format, i.e. YYYY-MM-DD[THH:MM:SSZ
updated (Date)	Date when the agent last checked in to the cloud platform. (The agent's last checkin date matches the asset's last modified date). Date is specified in UTC/GMT format.
tagName (String)	Asset tag name assigned to the agent host. All agent hosts are assigned the tag Cloud Agent.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Agent Permission "Uninstall Agent"

Example

Request:

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

Contents of uninstall_all_agents.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <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="https://qualysapi.qualys.com/qps/xsd/2.0/am/asset.xsd">
```

```
<responseCode>SUCCESS</responseCode>
<count>3</count>
<data>
  <Asset>
    <id>712038</id>
    <name>192.168.1.12</name>
    <created>2014-06-18T16:54:50Z</created>
    <modified>2014-06-18T16:54:51Z</modified>
    <type>HOST</type>
    <tags>
      <list>
        <TagSimple>
          <id>509525</id>
          <name>Cloud Agent</name>
        </TagSimple>
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
  </Asset>
  <Asset>
    <id>2532638</id>
    <name>10.40.2.176</name>
    <created>2015-04-17T13:32:48Z</created>
    <modified>2015-05-14T14:06:03Z</modified>
    <type>HOST</type>
    <tags>
      <list>
        <TagSimple>
          <id>509525</id>
          <name>Cloud Agent</name>
        </TagSimple>
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
  </Asset>
  <Asset>
    <id>2532838</id>
```

```
<name>local IP agent</name>
<created>2015-04-19T13:52:08Z</created>
<modified>2016-02-05T12:26:48Z</modified>
<type>HOST</type>
<tags>
  <list>
    <TagSimple>
      <id>509525</id>
      <name>Cloud Agent</name>
    </TagSimple>
    <TagSimple>
      <id>217325</id>
      <name>Agent</name>
    </TagSimple>
  </list>
</tags>
<sourceInfo>
  <list>
    <AssetSource/>
  </list>
</sourceInfo>
</Asset>
</data>
</ServiceResponse>
```

Use Host Asset API to uninstall a single agent

You can use the Host Asset API to uninstall a single cloud agent and remove the associated agent host from your subscription.

Good to Know - A request to uninstall an agent makes a call to the Qualys Cloud Platform to purge the host scan data (findings) for the agent host and remove the agent host from your subscription..

URL: `https://<baseurl>/qps/rest/2.0/uninstall/am/hostasset/<id>`

Methods allowed: POST

where

“id” (Required) is the asset ID of the agent you want to uninstall. This is the asset ID where the agent is installed.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Agent Permission "Uninstall Agent"

Example

Request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -  
-data-binary @single_uninstall.xml  
"https://qualysapi.qualys.com/qps/rest/2.0/uninstall/am/hostasset/  
6851120"
```

Contents of single_uninstall.xml:

```
<?xml version="1.0" encoding="UTF-8" ?> <ServiceRequest>  
</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/hostasset.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <hasMoreRecords>>false</hasMoreRecords>
```

```
<data>
  <HostAsset>
    <id>6851120</id>
    <name>shwetas-Mac-mini.local</name>
    <created>2018-03-07T11:43:26Z</created>
    <modified>2018-03-08T06:49:56Z</modified>
    <type>HOST</type>
    <tags>
      <list>
        <TagSimple>
          <id>8652821</id>
          <name>Cloud Agent</name>
        </TagSimple>
        <TagSimple>
          <id>8654616</id>
          <name>DT_Port</name>
        </TagSimple>
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
    <qwebHostId>672160</qwebHostId>
    <lastComplianceScan>2018-03-08T01:20:28Z</lastComplianceScan>
    <lastVulnScan>2018-03-08T06:20:10Z</lastVulnScan>
    <lastSystemBoot>2018-02-06T06:00:24Z</lastSystemBoot>
    <lastLoggedOnUser>root</lastLoggedOnUser>
    <os>Mac OS X 10.11.6</os>
    <dnsHostName>shwetas-Mac-mini.local</dnsHostName>
    <agentInfo>
      <agentVersion>1.7.0.64</agentVersion>
      <agentId>2b79e576-201b-49b9-9d2a-8e5cb70bfdcd</agentId>
      <status>STATUS_ACTIVE</status>
      <lastCheckedIn>2018-03-08T06:49:55Z</lastCheckedIn>
      <connectedFrom>10.113.196.203</connectedFrom>
      <chirpStatus>Inventory Scan Complete</chirpStatus>
      <platform>MACOSX</platform>
    </agentInfo>
    <activatedModule>AGENT_VM,AGENT_PC</activatedModule>
    <manifestVersion>VULNSIGS-2.4.281.2-1</manifestVersion>
    <agentConfiguration>
```

```
<id>432001</id>
  <name>Test_Bhumi</name>
</agentConfiguration>
<activationKey>
  <activationId>fc8aa44e-6e6d-492d-ae06-
    08e1676901ff</activationId>
  <title>Test_Bhumi</title>
</activationKey>
</agentInfo>
<netbiosName>MACMINI-3BFD26</netbiosName>
<address>10.113.196.203</address>
<trackingMethod>QAGENT</trackingMethod>
<manufacturer>Apple Inc.</manufacturer>
<model>Macmini7,1</model>
<totalMemory>8192</totalMemory>
<timezone>+05:30</timezone>
<biosDescription>Macmini7,1, MM71.0224.B00,
  2.24f32</biosDescription>
<openPort>
  <list>
    <HostAssetOpenPort>
      <port>49558</port>
      <protocol>TCP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
      <port>22</port>
      <protocol>TCP</protocol>
    </HostAssetOpenPort>
    ...
  </list>
</software>
<vuln>
  <list>
    <HostAssetVuln>
      <qid>105145</qid>
      <hostInstanceVulnId>139552720</hostInstanceVulnId>
      <firstFound>2018-03-
        07T12:18:20Z</firstFound>
      <lastFound>2018-03-08T06:20:10Z</lastFound>
    </HostAssetVuln>
    <HostAssetVuln>
      <qid>124557</qid>
      <hostInstanceVulnId>139552721</hostInstanceVulnId>
      <firstFound>2018-03-
        07T12:18:20Z</firstFound>
```



```
        <lastFound>2018-03-08T06:20:10Z</lastFound>
    </HostAssetVuln>
    ...
</list>
</vuln>
<processor>
    <list>
        <HostAssetProcessor>
            <name>Intel Core i5</name>
            <speed>2600</speed>
        </HostAssetProcessor>
    </list>
</processor>
<volume>
    <list>
        <HostAssetVolume>
            <name>/</name>
            <size>975312896</size>
            <free>104348560</free>
        </HostAssetVolume>
    </list>
</volume>
<account>
    <list>
        <HostAssetAccount>
            <username>_mbsetupuser</username>
        </HostAssetAccount>
        <HostAssetAccount>
            <username>_uucp</username>
        </HostAssetAccount>
        ...
    </list>
</account>
<networkInterface>
    <list>
        <HostAssetInterface>
            <interfaceName>en0</interfaceName>
            <macAddress>38:c9:86:3b:fd:26</macAddress>
            <type>LOCAL</type>
            <address>fe80:0:0:0:0:0:0:1</address>
            <gatewayAddress>10.113.196.1</gatewayAddress>
        </HostAssetInterface>
        <HostAssetInterface>
            <hostname>shwetias-Mac-mini.local</hostname>
            <interfaceName>en0</interfaceName>
```

```
        <macAddress>38:c9:86:3b:fd:26</macAddress>  
        <type>LOCAL</type>  
        <address>10.113.196.203</address>  
        <gatewayAddress>10.113.196.1</gatewayAddress>  
    </HostAssetInterface>  
    ...  
    </list>  
    </networkInterface>  
    </HostAsset>  
    </data>  
</ServiceResponse>
```

Use Host Asset API to uninstall agents in bulk

If you want to filter using more parameters, you can use the Host Asset API to bulk uninstall cloud agents matching the specified filter criteria, and remove associated agent hosts from your subscription.

Good to Know - A request to uninstall agents makes a call to the Qualys Cloud Platform to purge the host scan data (findings) for the agent hosts and remove the agent hosts from your subscription.

URL: `https://<baseurl>/qps/rest/2.0/uninstall/am/hostasset`

Methods allowed: POST

Input

To uninstall all agents, nothing other than the filter `tagName EQUALS Cloud Agent` is recommended. The more filters added to the request we'll uninstall a more refined list of agents.

Use the following `<ServiceRequest>` parameters to select agents you want to uninstall. These parameters act as filters. When multiple filters are specified, parameters are combined using a logical AND.

For a bulk request it is mandatory to add this filter criteria in `<ServiceRequest>`:

```
<Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>
```

Filter operators are available for use with `<ServiceRequest>` parameters. [Supported filter operators](#)

Use of NOT EQUALS operator is now disabled during agent uninstall. This is to avoid unintended consequences of Tags or Assets being deleted or updated. The service response includes an error message if you use the NOT EQUALS operator while uninstalling an agent.

List of supported filters:

id (Integer)	netbiosName (Text)
qwebHostId (Integer)	netbiosNetworkID (Text)
lastVulnScan (Date)	networkGuid (Text)
lastComplianceScan (Date)	trackingMethod (Keyword: NONE, IP, DNSNAME, NETBIOS, INSTANCE_ID, QAGENT)
informationGatheredUpdated (Date)	port (Integer)
os (Text)	installedSoftware (Text)
dnsHostName (Text)	tagName (Text)
address(Text)	tagId (Integer)
vulnsUpdated(Date)	netbiosName (Text)

name (Text)	netbiosNetworkId (Text)
created (Date)	update (Date)
type (Text)	agentVersion (String)
activationKey (String)	agentConfigurationId (Long)
agentConfigurationName (String)	lastCheckedIn (Date)

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Agent Permission "Uninstall Agent"

Example

Request:

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

Contents of uninstall_all_agents.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <Criteria field="trackingMethod"
      operator="EQUALS">QAGENT</Criteria>
    <Criteria field="type" operator="EQUALS">HOST</Criteria>
    <Criteria field="tagName" operator="EQUALS">Cloud
      Agent</Criteria>
    <Criteria field="lastVulnScan" operator="GREATER">2018-03-
      08T05:16:56Z</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>>false</hasMoreRecords>
```

```
<data>
  <HostAsset>
    <id>6851120</id>
    <name>shwetas-Mac-mini.local</name>
    <created>2018-03-07T11:43:26Z</created>
    <modified>2018-03-08T06:49:56Z</modified>
    <type>HOST</type>
    <tags>
      <list>
        <TagSimple>
          <id>8652821</id>
          <name>Cloud Agent</name>
        </TagSimple>
        <TagSimple>
          <id>8654616</id>
          <name>DT_Port</name>
        </TagSimple>
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
    <qwebHostId>672160</qwebHostId>
    <lastComplianceScan>2018-03-08T01:20:28Z</lastComplianceScan>
    <lastVulnScan>2018-03-08T06:20:10Z</lastVulnScan>
    <lastSystemBoot>2018-02-06T06:00:24Z</lastSystemBoot>
    <lastLoggedOnUser>root</lastLoggedOnUser>
    <os>Mac OS X 10.11.6</os>
    <dnsHostName>shwetas-Mac-mini.local</dnsHostName>
    <agentInfo>
      <agentVersion>1.7.0.64</agentVersion>
      <agentId>2b79e576-201b-49b9-9d2a-8e5cb70bfdcd</agentId>
      <status>STATUS_ACTIVE</status>
      <lastCheckedIn>2018-03-08T06:49:55Z</lastCheckedIn>
      <connectedFrom>10.113.196.203</connectedFrom>
      <chirpStatus>Inventory Scan Complete</chirpStatus>
      <platform>MACOSX</platform>
    </agentInfo>
    <activatedModule>AGENT_VM,AGENT_PC</activatedModule>
    <manifestVersion>VULNSIGS-2.4.281.2-1</manifestVersion>
    <agentConfiguration>
```

```
        <id>432001</id>
        <name>Test_Bhumi</name>
    </agentConfiguration>
    <activationKey>
        <activationId>fc8aa44e-6e6d-492d-ae06-
            08e1676901ff</activationId>
        <title>Test_Bhumi</title>
    </activationKey>
</agentInfo>
<netbiosName>MACMINI-3BFD26</netbiosName>
<address>10.113.196.203</address>
<trackingMethod>QAGENT</trackingMethod>
<manufacturer>Apple Inc.</manufacturer>
<model>Macmini7,1</model>
<totalMemory>8192</totalMemory>
<timezone>+05:30</timezone>
<biosDescription>Macmini7,1, MM71.0224.B00,
    2.24f32</biosDescription>
<openPort>
    <list>
        <HostAssetOpenPort>
            <port>49558</port>
            <protocol>TCP</protocol>
        </HostAssetOpenPort>
        <HostAssetOpenPort>
            <port>22</port>
            <protocol>TCP</protocol>
        </HostAssetOpenPort>
        ...
    </list>
</software>
<vuln>
    <list>
        <HostAssetVuln>
            <qid>105145</qid>
            <hostInstanceVulnId>139552720</hostInstanceVulnId>
            <firstFound>2018-03-
                07T12:18:20Z</firstFound>
            <lastFound>2018-03-08T06:20:10Z</lastFound>
        </HostAssetVuln>
        <HostAssetVuln>
            <qid>124557</qid>
            <hostInstanceVulnId>139552721</hostInstanceVulnId>
            <firstFound>2018-03-
                07T12:18:20Z</firstFound>
```

```
        <lastFound>2018-03-08T06:20:10Z</lastFound>
    </HostAssetVuln>
    ...
</list>
</vuln>
<processor>
    <list>
        <HostAssetProcessor>
            <name>Intel Core i5</name>
            <speed>2600</speed>
        </HostAssetProcessor>
    </list>
</processor>
<volume>
    <list>
        <HostAssetVolume>
            <name>/</name>
            <size>975312896</size>
            <free>104348560</free>
        </HostAssetVolume>
    </list>
</volume>
<account>
    <list>
        <HostAssetAccount>
            <username>_mbsetupuser</username>
        </HostAssetAccount>
        <HostAssetAccount>
            <username>_uucp</username>
        </HostAssetAccount>
        ...
    </list>
</account>
<networkInterface>
    <list>
        <HostAssetInterface>
            <interfaceName>en0</interfaceName>
            <macAddress>38:c9:86:3b:fd:26</macAddress>
            <type>LOCAL</type>
            <address>fe80:0:0:0:0:0:0:1</address>
            <gatewayAddress>10.113.196.1</gatewayAddress>
        </HostAssetInterface>
        <HostAssetInterface>
            <hostname>shwetias-Mac-mini.local</hostname>
            <interfaceName>en0</interfaceName>
```

```
        <macAddress>38:c9:86:3b:fd:26</macAddress>  
        <type>LOCAL</type>  
        <address>10.113.196.203</address>  
        <gatewayAddress>10.113.196.1</gatewayAddress>  
    </HostAssetInterface>  
    ...  
    </list>  
    </networkInterface>  
    </HostAsset>  
    </data>  
</ServiceResponse>
```


Chapter 3 - Activation Key API

Use these API functions to manage activation keys used for installing cloud agents in your subscription.

[Get a single activation key](#)

[Search activation keys](#)

[Create an activation key](#)

[Delete an activation key](#)

[Update an activation key](#)

Get a single activation key

Returns details on a selected activation key in the user's account.

URL: `https://<baseurl>/qps/rest/1.0/get/ca/agentactkey/<id>`

Methods allowed: GET

where <id> is the ID of the activation key of interest.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Activation Key Permission "View Activation Key"

Example

Request:

```
curl -X GET -H "X-Requested-With: curl" -H "Authorization: Basic  
AbcdAbcdAbcdAbcdAbcd" -H "Cache-Control: no-cache"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/ca/agentactkey/2500  
2"
```

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/1.0/ca/agentactkey.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AgentActKey>  
      <id>25002</id>  
      <activationKey>dc5e51f9-89de-47e2-ad35-  
26d5ee0f865d</activationKey>  
      <status>ACTIVE</status>  
      <countPurchased>0</countPurchased>  
      <countUsed>0</countUsed>  
      <datePurchased>2015-10-05T23:05:42Z</datePurchased>  
      <type>UNLIMITED</type>  
      <isDisabled>>false</isDisabled>  
      <modules>
```

```
<list>
  <ActivationKeyModule>
    <license>VM_LICENSE</license>
  </ActivationKeyModule>
</list>
</modules>
<tags>
  <list>
    <Tag>
      <id>522325</id>
      <name>Temp Tag</name>
    </Tag>
  </list>
</tags>
<agents>
  <list/>
</agents>
</AgentActKey>
</data>
</ServiceResponse>
```

Search activation keys

Returns details on activation keys in the user's account.

URL:	https://<baseurl>/qps/rest/1.0/search/ca/agentactkey/
Methods allowed:	POST
Pagination:	A maximum of 100 activation keys are returned by default. To customize this specify a "preferences" tag in the POST body of your request. For details, see XML Output Pagination / Truncation Logic .

Input parameters

Use the following <ServiceRequest> parameters to filter the list. Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#).

countPurchased (Integer)	(optional if type is COUNT_LIMITED or COUNT_TIME_LIMITED) Search for keys with number of keys purchased. Value is 1 or more.
activationKey (String)	(optional) Search for agents using a certain key.
id (number)	(optional) Search for keys with a certain key ID.
isDisabled (boolean)	(optional) Set to true to search for disabled keys. By default is set to false.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Activation Key Permission "View Activation Key"

Example

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 @get_all_keys.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/search/ca/agentactkey/"
```

Content of get_all_keys.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<ServiceRequest>  
</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/1.0/ca/agentactkey.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AgentActKey>  
      <id>25002</id>  
      <activationKey>dc5e51f9-89de-47e2-ad35-  
26d5ee0f865d</activationKey>  
      <status>ACTIVE</status>  
      <countPurchased>0</countPurchased>  
      <countUsed>0</countUsed>  
      <datePurchased>2015-10-05T23:05:42Z</datePurchased>  
      <type>UNLIMITED</type>  
      <isDisabled>>false</isDisabled>  
      <modules>  
        <list>  
          <ActivationKeyModule>  
            <license>VM_LICENSE</license>  
          </ActivationKeyModule>  
        </list>  
      </modules>  
      <tags>  
        <list>  
          <Tag>  
            <id>522325</id>  
            <name>Temp Tag</name>  
          </Tag>
```

```
        </list>  
    </tags>  
    <agents>  
        <list/>  
    </agents>  
    </AgentActKey>  
    </data>  
</ServiceResponse>
```

Create an activation key

Creates an activation key.

URL: `https://<baseurl>/qps/rest/1.0/create/ca/agentactkey/`

Methods allowed: POST

Input Parameters

These <ServiceRequest> parameters are used to create an activation key. Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#).

type (string)	(required) Key type. Valid is one of: UNLIMITED, COUNT_LIMITED, TIME_LIMITED, COUNT_TIME_LIMITED
countPurchased (Integer)	(required if type is COUNT_LIMITED or COUNT_TIME_LIMITED) Number of keys purchased. Value is 1 or more.
expireDate (Date)	(required if type is TIME_LIMITED or COUNT_TIME_LIMITED) Key expiration date. Date is specified in UTC/GMT format, i.e. YYYY-MM-DD[THH:MM:SSZ
modules (string)	(optional) Provision one or more modules for this key. Value is one of: VM_LICENSE, PC_LICENSE, ALL
tags (string)	(optional) Add tags to this key. These tags will be added to agents installed with key.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Activation Key Permission "Create Activation Key"

Example

Request:

```
curl -X POST -H "Content-Type: text/xml" -H "X-Requested-With:  
curl" -H "Authorization: Basic AbcdAbcdAbcdAbcdAbcd" -H "Cxml" -H  
"Cache-Control: no-cache" --data-binary @key_create.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/create/ca/agentactkey/"
```

contents of key_create.xml:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <data>  
    <AgentActKey>  
      <title>example create from api</title>  
      <countPurchased>0</countPurchased>  
      <expireDate>2016-12-05T23:05:42Z</expireDate>  
      <type>UNLIMITED</type>  
      <modules>  
        <list>  
          <ActivationKeyModule>  
            <license>VM_LICENSE</license>  
          </ActivationKeyModule>  
        </list>  
      </modules>  
      <tags>  
        <list>  
          <Tag>  
            <id>522325</id>  
            <name>Temp Tag</name>  
          </Tag>  
        </list>  
      </tags>  
      <agents>  
        <list/>  
      </agents>  
    </AgentActKey>  
  </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/1.0/ca/agentactkey.xsd">  
  <responseCode>SUCCESS</responseCode>
```



```
<count>1</count>
<data>
  <AgentActKey>
    <id>59001</id>
    <activationKey>548ec9eb-9ee4-45d9-aa2f-
f3083983bf3c</activationKey>
    <status>ACTIVE</status>
    <countPurchased>0</countPurchased>
    <countUsed>0</countUsed>
    <datePurchased>2016-09-07T14:48:15Z</datePurchased>
    <type>UNLIMITED</type>
    <title>example key create from api</title>
    <isDisabled>>false</isDisabled>
    <modules>
      <list>
        <ActivationKeyModule>
          <license>VM_LICENSE</license>
        </ActivationKeyModule>
      </list>
    </modules>
    <tags>
      <list>
        <Tag>
          <id>522325</id>
          <name>Temp Tag</name>
        </Tag>
      </list>
    </tags>
    <agents>
      <list/>
    </agents>
  </AgentActKey>
</data>
</ServiceResponse>
```

Delete an activation key

Deletes an activation key in the user's account. It's not possible to delete a key that has active agents associated with it.

URL: `https://<baseurl>/qps/rest/1.0/delete/ca/agentactkey/<id>`

Methods allowed: POST

where <id> is the ID of the activation key to be deleted.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Activation Key Permission "Delete Activation Key"

Example

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 @delete_key.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/delete/ca/agentactkey/5  
9001"
```

Content of delete_key.xml:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
</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/1.0/ca/agentactkey.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AgentActKey>  
      <id>59001</id>  
    </AgentActKey>
```

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

Update an activation key

Updates an activation key in the user's account.

URL: `https://<baseurl>/qps/rest/1.0/update/ca/agentactkey/<id>`

Methods allowed: POST

where <id> is the ID of the activation key to be updated.

Input Parameters

Use <ServiceRequest> parameters to update an activation key. Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#).

id (Integer)	(required) ID of activation key to be updated.
type (string)	(optional) Key type. Valid is one of: UNLIMITED, COUNT_LIMITED, TIME_LIMITED, COUNT_TIME_LIMITED
countPurchased (Integer)	(required if type is COUNT_LIMITED or COUNT_TIME_LIMITED) Number of keys purchased. Value is 1 or more.
expireDate (Date)	(required if type is TIME_LIMITED or COUNT_TIME_LIMITED) Key expiration date. Date is specified in UTC/GMT format, i.e. YYYY-MM-DD[THH:MM:SSZ
modules (string)	(optional) Provision one or more modules for this key. Value is one of: VM_LICENSE, PC_LICENSE, ALL
tags (string)	(optional) Add tags to this key. These tags will be added to agents installed with key.
isDisabled (boolean)	(optional) Set to true to disable or false to keep active.
applyOnAgents (boolean)	(optional) Set to true to apply changes in the update request to all existing agents. Changes include tags, licenses and limits. By default set to false and changes are not applied to all existing agents.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Activation Key Permission "Edit Activation Key"

Example

Request:

```
curl -X POST -H "X-Requested-With: curl" -H "Authorization: Basic  
AbcdAbcdAbcdAbcdAbcd" -H "Content-Type: text/xml" -H "Cache-  
Control: no-cache" --data-binary @key_update.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/update/ca/agentactkey/6  
201"
```

contents of key_update.xml:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <data>  
    <AgentActKey>  
      <id>6201</id>  
      <title>example key updated from api</title>  
      <countPurchased>0</countPurchased>  
      <expireDate>2016-12-05T23:05:42Z</expireDate>  
      <type>UNLIMITED</type>  
      <applyOnAgents>true</applyOnAgents>  
      <modules>  
        <list>  
          <ActivationKeyModule>  
            <license>VM_LICENSE</license>  
          </ActivationKeyModule>  
        </list>  
      </modules>  
      <tags>  
        <list>  
          <Tag>  
            <id>522325</id>  
            <name>Temp Tag</name>  
          </Tag>  
        </list>  
      </tags>  
      <agents>  
        <list/>  
      </agents>  
    </AgentActKey>
```

```
</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/1.0/ca/agentactkey.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AgentActKey>  
      <id>6201</id>  
      <title>example key updated from api</title>  
      <activationKey>548ec9eb-9ee4-45d9-aa2f-  
f3083983bf3c</activationKey>  
      <status>ACTIVE</status>  
      <countPurchased>0</countPurchased>  
      <countUsed>0</countUsed>  
      <datePurchased>2016-09-07T14:48:15Z</datePurchased>  
      <type>UNLIMITED</type>  
      <title>example key create from api</title>  
      <isDisabled>>false</isDisabled>  
      <applyOnAgents>>true</applyOnAgents>  
      <modules>  
        <list>  
          <ActivationKeyModule>  
            <license>VM_LICENSE</license>  
          </ActivationKeyModule>  
        </list>  
      </modules>  
      <tags>  
        <list>  
          <Tag>  
            <id>522325</id>  
            <name>Temp Tag</name>  
          </Tag>  
        </list>  
      </tags>  
      <agents>  
        <list/>  
      </agents>  
    </AgentActKey>  
  </data>  
</ServiceResponse>
```

Chapter 4 - Configuration Profile API

Use these API functions to manage configuration profiles in your subscription.

[Get a single configuration profile](#)

[Search configuration profiles](#)

[Create a configuration profile](#)

[Delete a configuration profile](#)

[Update a configuration profile](#)

Get a single configuration profile

Returns details on a selected configuration profile in the user's account.

URL: `https://<baseurl>/qps/rest/1.0/get/ca/agentconfig/<id>`

Methods allowed: GET

where <id> is the ID of the activation key of interest.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Configuration Profile Permission "View Configuration Profile"

Example

Request:

```
curl -X GET -H "X-Requested-With: curl" -H "Authorization: Basic  
AbcdAbcdAbcdAbcdAbcd" -H "Content-Type: text/xml" -H "Cache-  
Control: no-cache"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/ca/agentconfig/9000  
"
```

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/1.0/ca/agentconfig.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AgentConfig>  
      <id>9000</id>  
      <name>suspend</name>  
      <isDefault>0</isDefault>  
      <createdDate>2017-01-16T14:55:43Z</createdDate>  
      <createdBy>Alex Kim (quays_ak12)</createdBy>  
      <tags>  
        <includeTags>  
          <list>  
            <ConfigTag>
```



```
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>THROTTLE_EVENT_SCAN</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
<key>INTERVAL_EVENT_CHECK_REVOCATION</key>
  <value>3600</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
<key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>THROTTLE_EVENT_COMM_UPLOAD</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_STATUS</key>
  <value>900</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_CONFIG</key>
  <value>0</value>
</PerformanceLevelSettings>
</list>
</settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceResponse>
```

Search configuration profiles

Returns details on configuration profiles in the user's account.

URL: `https://<baseurl>/qps/rest/1.0/search/ca/agentconfig/`

Methods allowed: POST

Pagination: A maximum of 100 configuration profiles are returned by default. To customize this specify a "preferences" tag in the POST body of your request. For details, see [XML Output Pagination / Truncation Logic](#).

Input Parameters

Use the following <ServiceRequest> parameters to filter the list. Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#)

name (string)	(optional) Search for configuration profile with a given name.
id (Integer)	(optional) Search for configuration profile with a given configuration profile ID.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Configuration Profile Permission "View Configuration Profile"

Example

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 @get_all_config.xml "https://qualysapi.qualys.com/qps/rest/1.0/search/ca/agentconfig/"
```

Contents of get_all_config.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<ServiceRequest>  
</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/ca/agentconfig.xsd">
```

```
<responseCode>SUCCESS</responseCode>
<count>14</count>
<hasMoreRecords>>false</hasMoreRecords>
<data>
  <AgentConfig>
    <id>8099</id>
    <name>Initial Profile - SSN3</name>
    <isDefault>1</isDefault>
    <createdDate>2015-06-09T22:29:51Z</createdDate>
    <description>Platform Default Config</description>
    <suspendScanning>>false</suspendScanning>
    <totalAgents>0</totalAgents>
    <blackoutConfig>
      <settings>
        <list/>
      </settings>
    </blackoutConfig>
    <performanceProfile>
      <settings>
        <list>
          <PerformanceLevelSettings>
            <key>INTERVAL_EVENT_PROVISION</key>
            <value>1800</value>
          </PerformanceLevelSettings>
          <PerformanceLevelSettings>
            <key>INTERVAL_EVENT_UPLOAD_CHANGE</key>
            <value>5</value>
          </PerformanceLevelSettings>
          <PerformanceLevelSettings>
            <key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
            <value>1024</value>
          </PerformanceLevelSettings>
          <PerformanceLevelSettings>
            <key>AGENT_LOGGING_LEVEL</key>
            <value>Verbose</value>
          </PerformanceLevelSettings>
          <PerformanceLevelSettings>
            <key>THROTTLE_EVENT_COMM_DOWNLOAD</key>
            <value>10</value>
          </PerformanceLevelSettings>
          <PerformanceLevelSettings>
            <key>INTERVAL_EVENT_DOWNLOAD_MANIFEST</key>
            <value>3600</value>
          </PerformanceLevelSettings>
        </list>
      </settings>
    </performanceProfile>
  </AgentConfig>
</data>
```

```
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
            <key>THROTTLE_EVENT_SCAN</key>
            <value>10</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
<key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
            <value>1024</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
            <value>3600</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
            <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
            <value>300</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
            <value>120</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
            <key>THROTTLE_EVENT_COMM_UPLOAD</key>
            <value>10</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
            <key>INTERVAL_EVENT_STATUS</key>
            <value>900</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
            <key>INTERVAL_EVENT_CONFIG</key>
            <value>3600</value>
        </PerformanceLevelSettings>
    </list>
</settings>
</performanceProfile>
</AgentConfig>
<AgentConfig>
    <id>9000</id>
    <name>suspend</name>
    <isDefault>0</isDefault>
    <createdDate>2016-02-16T14:55:43Z</createdDate>
    <createdBy>Chintan Shah (bhart_cs)</createdBy>
```

```
<suspendScanning>true</suspendScanning>
<priority>
  <priority>12</priority>
</priority>
<totalAgents>1</totalAgents>
<blackoutConfig>
  <settings>
    <list/>
  </settings>
</blackoutConfig>
<performanceProfile>
  <settings>
    <list>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_PROVISION</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
<key>INTERVAL_EVENT_UPLOAD_CHANGE_LIST</key>
        <value>10</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
<key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>AGENT_LOGGING_LEVEL</key>
        <value>Verbose</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_COMM_DOWNLOAD</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_MANIFEST</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_SCAN</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
```

```

<key>INTERVAL_EVENT_CHECK_REVOCATION</key>
  <value>3600</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>

<key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>

<key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>

<key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>THROTTLE_EVENT_COMM_UPLOAD</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_STATUS</key>
  <value>900</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_CONFIG</key>
  <value>0</value>
</PerformanceLevelSettings>
</list>
</settings>
</performanceProfile>
</AgentConfig>
...
<AgentConfig>
  <id>13002</id>
  <name>thru api - updated</name>
  <isDefault>0</isDefault>
  <createdDate>2016-08-25T17:31:12Z</createdDate>
  <createdBy>Chintan Shah (bhart_cs)</createdBy>
  <description>updated using api</description>

```

```

<suspendScanning>>false</suspendScanning>
<priority>
  <priority>1</priority>
</priority>
<totalAgents>0</totalAgents>
<blackoutConfig>
  <settings>
    <list>
      <BlackoutConfig>
        <startHour>0</startHour>
        <monday>0</monday>
        <tuesday>0</tuesday>
        <wednesday>0</wednesday>
        <thursday>0</thursday>
        <friday>0</friday>
        <saturday>0</saturday>
        <sunday>0</sunday>
      </BlackoutConfig>
    </list>
  </settings>
</blackoutConfig>
<performanceProfile>
  <settings>
    <list>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_PROVISION</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_UPLOAD_CHANGE_LIST</key>
        <value>1</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>AGENT_LOGGING_LEVEL</key>
        <value>Verbose</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_COMM_DOWNLOAD</key>
        <value>0</value>
      </PerformanceLevelSettings>
    </list>
  </settings>
</performanceProfile>

```



```
        <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_MANIFEST</key>
    <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
    <key>THROTTLE_EVENT_SCAN</key>
    <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>

<key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
    <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>

<key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
    <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
    <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
    <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>

<key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
    <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
    <key>THROTTLE_EVENT_COMM_UPLOAD</key>
    <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
    <key>INTERVAL_EVENT_STATUS</key>
    <value>900</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
    <key>INTERVAL_EVENT_CONFIG</key>
    <value>0</value>
</PerformanceLevelSettings>
    </list>
</settings>
</performanceProfile>
</AgentConfig>
...

```

Create a configuration profile

Creates a configuration profile.

URL: `https://<baseurl>/qps/rest/1.0/create/ca/agentconfig/`

Methods allowed: POST

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Configuration Profile Permission "Create Configuration Profile"

Input Parameters for create / update configuration profile

Use the following <ServiceRequest> parameters to create a configuration profile. Filter operators are available for use with <ServiceRequest> parameters. [Supported filter operators](#)

name (string)	(optional) Name of configuration profile.
description (string)	(optional) Description of configuration profile.
priority (Integer)	(invalid for create request; optional for update request) Priority of configuration profile in relation to other profiles. Defaults to last maximum priority. (If priority is specified for a create request, the profile will not be created.) Example: If there are 3 configuration profiles a new profile added without priority will be given priority 4.
isDefault (Integer)	(optional) Defaults to 0, i.e. configuration profile not set as the default in the user's account. Set to 1 to set the configuration profile as the default.
suspendScanning (boolean)	(optional) Defaults to false, i.e. the Suspend Scanning feature is not enabled. Set to true to enable the Suspend Scanning feature.
tags (string)	(optional) Tags for the configuration profile.
blackoutConfig (string)	(optional) Blackout configuration for the configuration profile.
performanceProfile (string)	(required for create request; optional for update request) Performance profile configuration blocks, as described below.
id (Integer)	(required for update request; invalid for create request) ID of the configuration profile you want to update.

performanceProfile configuration blocks are defined using the strings/values below. To help you with these we've provided the corresponding UI label and description.

Parameters for all agent OS and all versions

INTERVAL_EVENT_STATUS

Agent Status Interval - Consolidated interval an agent requests information from the platform. Range: 300-86,400 seconds. Recommended: 600 for High performance, 1800 for Normal performance, 2400 for Low performance.

INTERVAL_EVENT_UPLOAD_CHANGE_LIST

Delta Upload Interval - Interval an agent attempts to upload detected changes. Range: 1-1800 seconds. Recommended: 1 for High performance, 5 for Normal performance, or 10 for Low performance.

FILE_UPLOAD_FRAGMENT_SIZE_IN_KB

Chunk Sizes for File Fragment Uploads - The upload block size, and combined with Delta Upload Interval, determines network utilization. Range: 64-10,240 KB. Recommended: 4096 for High performance, 2048 for Normal performance, 1024 for Low performance.

INTERVAL_EVENT_EXECUTE_SETUP

Upgrade Reattempt Interval - Interval (in seconds) an agent checks the platform for a new upgrade, if configured to do so. Range: 180 seconds or more. Recommended: 300 for Low performance or Normal performance, 180 for High performance.

AGENT_LOGGING_LEVEL

Logging level for agent - The amount and detail of log messages generated by the agent. Value can be Verbose, Info (i.e. informational), Warn (i.e. Warning), Error or None. Recommended: Verbose for all performance levels.

Windows Specific Parameters (versions 1.5 and above)

CPU_LIMIT

CPU Limit - Defines the percentage limit of the processor core(s) used by the agent; lower percentages reduces CPU utilization at the expense of longer execution times. Range: 2-100%. Recommended: 80 for High performance, 20 for Normal performance, 5 for Low performance.

Linux/Mac Specific Parameters (versions 1.6 and above)

THROTTLE_EVENT_SCAN

CPU Throttle - Tunes the amount of processing used by the CPU by introducing delays between agent executions: the higher the value, the less CPU utilized at the expense of longer execution times. Range: 0-1,000 milliseconds. Recommended: 0 for High performance, 10 for Normal performance, 20 for Low performance.

Legacy Parameters (used for Windows 1.4 and below, and Linux/Mac 1.5 and below)

These parameters are deprecated for new agents, but still used by older agent versions.

INTERVAL_EVENT_DOWNLOAD_SNAPSHOT

Delta Confirmation Interval - Interval an agent checks platform for confirmation that changes were processed. Range: 60 seconds or more. Recommended: 60 for High performance, 120 for Normal performance, 300 for Low performance.

INTERVAL_EVENT_DOWNLOAD_MANIFEST

Manifest Download Interval - Interval an agent checks platform for new instruction manifests. Range: 60 seconds or more. Recommended: 60 for High performance, 3600 for Normal performance, 10800 for Low performance.

INTERVAL_EVENT_CONFIG

Configuration Download Interval - Interval an agent checks platform for new configuration profiles. Range: 60 seconds or more. Recommended: 60 for High performance, 3600 for Normal performance, 10800 for Low performance.

THROTTLE_EVENT_COMM_UPLOAD

Network throttle Rx - The higher this value (in ms), the slower agent attempts to download from the platform; this combines with the download chunk size to determine network utilization. Range: 0-200 milliseconds. Recommended: 0 for High performance, 10 for Normal performance, 20 for Low performance.

THROTTLE_EVENT_COMM_DOWNLOAD

Network throttle Tx - The higher this value (in ms), the slower agent attempts to upload to the platform; this combines with the upload chunk size to determine network utilization. Range: 0-200 milliseconds. Recommended: 0 for High performance, 10 for Normal performance, 20 for Low performance.

FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB

Chunk sizes for file fragment downloads - The download block size (in KB), and combined with Network throttle Rx, determines network utilization. Range: 64 or more KB. Recommended: 1024 for all performance levels.

INTERVAL_EVENT_CHECK_REVOCAATION

Revocation Interval - Interval an agent checks platform to see if it should uninstall itself. Range: 3600 seconds or more.
Recommended: 3600 for all performance levels.

INTERVAL_EVENT_PROVISION

Provisioning Interval - Interval an agent attempts to self repair by reprovisioning with platform. Range: 60 seconds or more.
Recommended: 900 for all performance levels.

INTERVAL_EVENT_DOWNLOAD_SELF_PATCH

Upgrade Check Interval - Interval an agent checks platform for a new upgrade. Range: 300 seconds or more.
Recommended: 300 for High performance, 3600 for Normal performance, 10800 for Low performance.

Example

Request:

```
curl -X POST -H "Content-Type: text/xml" -H "Authorization: Basic  
AbcdAbcdAbcdAbcdAbcd" -H "Xurl" -H "Cache-Control: no-cache" --  
data-binary @config_create.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/create/ca/agentconfig/"
```

contents of config_create.xml:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <data>  
    <AgentConfig>  
      <name>Config profile created using api</name>  
      <description>done using api</description>  
      <priority></priority>  
      <isDefault>0</isDefault>  
      <suspendScanning>>false</suspendScanning>  
      <tags>  
        <includeTags>  
          <list>  
            <ConfigTag>  
              <id>6332818</id>  
              <name>Tag1</name>  
            </ConfigTag>  
          </list>  
        </includeTags>  
        <includeResolution>ANY</includeResolution>  
        <excludeTags></excludeTags>  
        <excludeResolution>ANY</excludeResolution>  
      </tags>  
      <blackoutConfig>  
        <settings>  
          <list>  
            <BlackoutConfig>  
              <startHour>10</startHour>  
              <endHour>16</endHour>  
              <monday>0</monday>  
              <tuesday>0</tuesday>  
              <wednesday>1</wednesday>  
              <thursday>0</thursday>  
              <friday>0</friday>  
              <saturday>0</saturday>  
              <sunday>0</sunday>  
            </BlackoutConfig>  
          </list>
```

```
</settings>
</blackoutConfig>
<performanceProfile>
  <settings>
    <list>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_PROVISION</key>
        <value>60</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_UPLOAD_CHANGE_LIST</key>
        <value>60</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
        <value>666</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>AGENT_LOGGING_LEVEL</key>
        <value>Verbose</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>CPU_LIMIT</key>
        <value>20</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_COMM_DOWNLOAD</key>
        <value>100</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_DOWNLOAD_MANIFEST</key>
        <value>200</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_SCAN</key>
        <value>0</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
        <value>1024</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
        <value>333</value>
      </PerformanceLevelSettings>
    </list>
  </settings>
</performanceProfile>
</blackoutConfig>
</settings>
```

```
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
  <value>222</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
  <value>66</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>THROTTLE_EVENT_COMM_UPLOAD</key>
  <value>0</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_STATUS</key>
  <value>333</value>
</PerformanceLevelSettings>
<PerformanceLevelSettings>
  <key>INTERVAL_EVENT_CONFIG</key>
  <value>66</value>
</PerformanceLevelSettings>
</list>
</settings>
</performanceProfile>
</AgentConfig>
</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/1.0/ca/agentconfig.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AgentConfig>
      <id>151889</id>
      <name>Config profile created using api</name>
      <isDefault>0</isDefault>
      <createdDate>2017-02-20T09:35:04Z</createdDate>
      <createdBy>My Name</createdBy>
      <description>done using api</description>
      <tags>
        <includeTags/>
```



```
<includeResolution>ANY</includeResolution>
<excludeTags/>
<tagSetUuid>f5edf058-c55b-40b8-bc32-
94959ca4304c</tagSetUuid>
</tags>
<suspendScanning>>false</suspendScanning>
<preventAgentUpdate>>false</preventAgentUpdate>
<totalAgents>0</totalAgents>
<blackoutConfig>
  <settings>
    <list>
      <BlackoutConfig>
        <startHour>10</startHour>
        <endHour>16</endHour>
        <monday>0</monday>
        <tuesday>0</tuesday>
        <wednesday>1</wednesday>
        <thursday>0</thursday>
        <friday>0</friday>
        <saturday>0</saturday>
        <sunday>0</sunday>
      </BlackoutConfig>
    </list>
  </settings>
</blackoutConfig>
<performanceProfile>
  <settings>
    <list>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_PROVISION</key>
        <value>60</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>CPU_LIMIT</key>
        <value>20</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_UPLOAD_CHANGELIST</key>
        <value>60</value>
      </PerformanceLevelSettings>
      <PerformanceLevelSettings>
        <key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
        <value>666</value>
      </PerformanceLevelSettings>
    </list>
  </settings>
</performanceProfile>
```

```
        <key>AGENT_LOGGING_LEVEL</key>
        <value>Verbose</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_COMM_DOWNLOAD</key>
        <value>100</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
    <key>INTERVAL_EVENT_DOWNLOAD_MANIFEST</key>
        <value>200</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_SCAN</key>
        <value>0</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
    <key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
        <value>1024</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
    <key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
        <value>333</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
        <value>222</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
    <key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
        <value>66</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_COMM_UPLOAD</key>
        <value>0</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_STATUS</key>
        <value>333</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_CONFIG</key>
        <value>66</value>
    </PerformanceLevelSettings>
</list>
</settings>
```

```
        </performanceProfile>  
    </AgentConfig>  
</data>  
</ServiceResponse>
```

Delete a configuration profile

Deletes a configuration profile in the user's account.

URL: `https://<baseurl>/qps/rest/1.0/delete/ca/agentconfig/<id>`

Methods allowed: POST

where <id> is the ID of the configuration profile to be deleted.

Input

There are no optional input parameters for this particular API.

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Configuration Profile Permission "Edit Configuration Profile"

Example

Request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -  
H "Cache-Control: no-cache" --data-binary @delete_config.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/delete/ca/agentconfig/9  
000"
```

Contents of delete_config.xml:

```
<?xml version="1.0" encoding="UTF-8" ?> <ServiceRequest>  
</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/1.0/ca/agentconfig.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AgentConfig>  
      <id>9000</id>  
    </AgentConfig>  
  </data>  
</ServiceResponse>
```

Update a configuration profile

Updates a configuration profile in the user's account.

URL: `https://<baseurl>/qps/rest/1.0/update/ca/agentconfig/`

Methods allowed: POST

Input Parameters

See [Input Parameters for create / update configuration profile](#)

Permissions

Manager with Full Scope

User without Full Scope must have these permissions:

- Access Permission "API ACCESS"
- CA Configuration Profile Permission "Edit Configuration Profile"

Example

Request:

```
curl -X POST -H "Content-Type: text/xml" -H "Authorization: Basic  
AbcdAbcdAbcdAbcdAbcd" -H "X-Requested-With: curl" -H "Cache-  
Control: no-cache" --data-binary @config_update.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/update/ca/agentconfig/"
```

Contents of config_update.xml:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <data>  
    <AgentConfig>  
      <id>13002</id>  
      <name>thru api - updated</name>  
      <description>updated using api</description>  
      <priority>2</priority>  
      <isDefault>0</isDefault>  
      <suspendScanning>>false</suspendScanning>  
      <tags>  
        <includeTags>  
          <list>  
            <ConfigTag>  
              <id>256926</id>  
              <name>CSHAH TEMP tag</name>  
            </ConfigTag>  
          </list>  
        </includeTags>  
      <includeResolution>ANY</includeResolution>
```

```

        <excludeTags>
            <list/>
        </excludeTags>
        <excludeResolution>ANY</excludeResolution>
        <tagSetUuid>ec78b2ce-74e8-4182-bdaf-
8090f2983187</tagSetUuid>
    </tags>
    <blackoutConfig>
        <settings>
            <list/>
        </settings>
    </blackoutConfig>
    <performanceProfile>
        <settings>
            <list>
                <PerformanceLevelSettings>
                    <key>INTERVAL_EVENT_PROVISION</key>
                    <value>3600</value>
                </PerformanceLevelSettings>
                <PerformanceLevelSettings>
<key>INTERVAL_EVENT_UPLOAD_CHANGE_LIST</key>
                    <value>5</value>
                </PerformanceLevelSettings>
                <PerformanceLevelSettings>
<key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
                    <value>1024</value>
                </PerformanceLevelSettings>
                <PerformanceLevelSettings>
                    <key>AGENT_LOGGING_LEVEL</key>
                    <value>Verbose</value>
                </PerformanceLevelSettings>
                <PerformanceLevelSettings>
                    <key>THROTTLE_EVENT_COMM_DOWNLOAD</key>
                    <value>20</value>
                </PerformanceLevelSettings>
                <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_MANIFEST</key>
                    <value>10800</value>
                </PerformanceLevelSettings>
                <PerformanceLevelSettings>
                    <key>THROTTLE_EVENT_SCAN</key>
                    <value>20</value>
                </PerformanceLevelSettings>
            </list>
        </settings>
    </performanceProfile>
<key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>

```

```

        <value>1024</value>
      </PerformanceLevelSettings>
    <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
      <value>10800</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
      <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
      <value>300</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
      <value>300</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
      <key>THROTTLE_EVENT_COMM_UPLOAD</key>
      <value>20</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
      <key>INTERVAL_EVENT_STATUS</key>
      <value>900</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
      <key>INTERVAL_EVENT_CONFIG</key>
      <value>10800</value>
    </PerformanceLevelSettings>
  </list>
</settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceRequest>

```

Response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <AgentConfig>
      <id>13002</id>
      <name>thru api - updated</name>
      <description>updated using api</description>
      <priority>2</priority>
      <isDefault>0</isDefault>
      <suspendScanning>>false</suspendScanning>
      <tags>
        <includeTags>

```

```

        <list>
            <ConfigTag>
                <id>256926</id>
                <name>CSHAH TEMP tag</name>
            </ConfigTag>
        </list>
    </includeTags>
    <includeResolution>ANY</includeResolution>
    <excludeTags>
        <list/>
    </excludeTags>
    <excludeResolution>ANY</excludeResolution>
    <tagSetUuid>ec78b2ce-74e8-4182-bdaf-
8090f2983187</tagSetUuid>
</tags>
<blackoutConfig>
    <settings>
        <list/>
    </settings>
</blackoutConfig>
<performanceProfile>
    <settings>
        <list>
            <PerformanceLevelSettings>
                <key>INTERVAL_EVENT_PROVISION</key>
                <value>3600</value>
            </PerformanceLevelSettings>
            <PerformanceLevelSettings>
                <key>INTERVAL_EVENT_UPLOAD_CHANGE</key>
                <value>5</value>
            </PerformanceLevelSettings>
            <PerformanceLevelSettings>
                <key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
                <value>1024</value>
            </PerformanceLevelSettings>
            <PerformanceLevelSettings>
                <key>AGENT_LOGGING_LEVEL</key>
                <value>Verbose</value>
            </PerformanceLevelSettings>
            <PerformanceLevelSettings>
                <key>THROTTLE_EVENT_COMM_DOWNLOAD</key>
                <value>20</value>
            </PerformanceLevelSettings>
        </list>
    </settings>
</performanceProfile>
<key>INTERVAL_EVENT_DOWNLOAD_MANIFEST</key>

```



```
        <value>10800</value>
      </PerformanceLevelSettings>
    <PerformanceLevelSettings>
      <key>THROTTLE_EVENT_SCAN</key>
      <value>20</value>
    </PerformanceLevelSettings>
  <PerformanceLevelSettings>
<key>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
    <value>1024</value>
  </PerformanceLevelSettings>
  <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SELF_PATCH</key>
    <value>10800</value>
  </PerformanceLevelSettings>
  <PerformanceLevelSettings>
    <key>INTERVAL_EVENT_EXECUTE_SETUP</key>
    <value>300</value>
  </PerformanceLevelSettings>
  <PerformanceLevelSettings>
<key>INTERVAL_EVENT_DOWNLOAD_SNAPSHOT</key>
    <value>300</value>
  </PerformanceLevelSettings>
  <PerformanceLevelSettings>
    <key>THROTTLE_EVENT_COMM_UPLOAD</key>
    <value>20</value>
  </PerformanceLevelSettings>
  <PerformanceLevelSettings>
    <key>INTERVAL_EVENT_STATUS</key>
    <value>900</value>
  </PerformanceLevelSettings>
  <PerformanceLevelSettings>
    <key>INTERVAL_EVENT_CONFIG</key>
    <value>10800</value>
  </PerformanceLevelSettings>
</list>
</settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceRequest>
```

Chapter 5 - Common Use Cases

Agent information

Get agent asset info for a single agent

Get all agents for the account

Get count of agents installed

Agent uninstall/install

Get all agents not checked-in in last N days

Uninstall agents not checked-in in last N days

Activate all agents for VM with tag XX

Activation key

Mark an activation key as disabled

Search for all activation keys that are disabled

Get all agents for an activation key

Agent information

Get agent asset info for a single agent

Returns details about a specific WAF appliance in the user's account. Want to find an appliance ID to use as input? See Appliance asset details.

URL: `https://<baseurl>/qps/rest/2.0/get/am/hostasset/:id`

Methods allowed: GET

Input

The element "id" (Integer) is required, where "id" identifies the ID of the host asset.

Permissions

User must have CA module enabled

User must have "API ACCESS" permission

Example

Request:

```
curl -u "USERNAME:PASSWORD" -X "GET" -H "Content-Type: text/xml"
https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/2872638
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/porta1-
api/xsd/2.0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>>false</hasMoreRecords>
  <data>
    <HostAsset>
      <id>5214017</id>
      <name>113080-T450</name>
      <created>2017-04-12T07:23:41Z</created>
      <modified>2017-04-18T11:39:50Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>7584632</id>
            <name>Cloud Agent</name>
          </TagSimple>
```

```
    </list>
</tags>
<sourceInfo>
  <list>
    <AssetSource/>
  </list>
</sourceInfo>
<qwebHostId>140995</qwebHostId>
<lastComplianceScan>2017-04-18T11:00:57Z</lastComplianceScan>
<lastVulnScan>2017-04-18T11:00:57Z</lastVulnScan>
<lastSystemBoot>2017-04-17T15:16:15Z</lastSystemBoot>
<lastLoggedOnUser>CORP\rkumar</lastLoggedOnUser>
<domain>corp.qualys.com</domain>
<fqdn>113080-T450.corp.qualys.com</fqdn>
<os>Microsoft Windows 10 Enterprise 10.0.10586 N/A
  Build 10586</os>
<dnsHostName>113080-T450</dnsHostName>
<agentInfo>
  <agentVersion>1.5.6.45</agentVersion>
  <agentId>33889e67-d898-4f74-9f19-27ae2265aedc</agentId>
  <status>STATUS_ACTIVE</status>
  <lastCheckedIn>2017-04-18T11:39:29Z</lastCheckedIn>
  <connectedFrom>999.999.999.999</connectedFrom>
  <location>Redwood City, California United States</location>
  <locationGeoLatitude>37.536540</locationGeoLatitude>
  <locationGeoLongitude>-122.25838</locationGeoLongitude>
  <chirpStatus>Inventory Scan Complete</chirpStatus>
  <platform>Windows</platform>
  <activatedModule>AGENT_VM,AGENT_PC</activatedModule>
  <manifestVersion>VULNSIGS-VMPC-2.4.18-3</manifestVersion>
  <agentConfiguration>
    <id>197208</id>
    <name>for list</name>
  </agentConfiguration>
  <activationKey>
    <activationId>1b37b569-9bf6-444f-9330-94535696f272</activationId>
    <title>my</title>
  </activationKey>
</agentInfo>
```

```
<netbiosName>113080-T450</netbiosName>
<networkGuid>6b48277c-0742-61c1-82bb-
cac0f9c4094a</networkGuid>
<address>10.0.203.10</address>
<trackingMethod>QAGENT</trackingMethod>
<manufacturer>LENOVO</manufacturer>
<model>20BUA04EIG</model>
<totalMemory>11984</totalMemory>
<timezone>+05:30</timezone>
<biosDescription>LENOVO JBET54WW (1.19 ),
11/6/2015</biosDescription>
...
</HostAsset>
</data>
</ServiceResponse>
```

Get all agents for the account

Request:

```
curl -u "USERNAME:PASSWORD" -X "POST" -H "Content-Type: text/xml"
-H "Cache-Control: no-cache" --data-binary @list_all_agents.xml
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset/"
```

Contents of list_all_agents.xml:

```
<ServiceRequest>
  <filters>
    <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="https://qualysapi.qualys.com/qps/xs
d/2.0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>4</count>
  <hasMoreRecords>>false</hasMoreRecords>
  <data>
    <Asset>
      <id>712038</id>
      <name>192.168.1.12</name>
      <created>2014-06-18T16:54:50Z</created>
      <modified>2014-06-18T16:54:51Z</modified>
```

```

<type>HOST</type>
<tags>
  <list>
    <TagSimple>
      <id>509525</id>
      <name>Cloud Agent</name>
    </TagSimple>
  </list>
</tags>
<sourceInfo>
  <list>
    <AssetSource/>
  </list>
</sourceInfo>
</Asset>
<Asset>
  <id>2532638</id>
  <name>10.40.2.176</name>
  <created>2015-04-17T13:32:48Z</created>
  <modified>2015-05-14T14:06:03Z</modified>
  <type>HOST</type>
  <tags>
    <list>
      <TagSimple>
        <id>509525</id>
        <name>Cloud Agent</name>
      </TagSimple>
    </list>
  </tags>
  <sourceInfo>
    <list>
      <AssetSource/>
    </list>
  </sourceInfo>
</Asset>
<Asset>
  <id>2532838</id>
  <name>local IP agent</name>
  <created>2015-04-19T13:52:08Z</created>
  <modified>2016-02-05T12:26:48Z</modified>
  <type>HOST</type>
  <tags>
    <list>
      <TagSimple>
        <id>509525</id>

```

```
        <name>Cloud Agent</name>
      </TagSimple>
    <TagSimple>
      <id>217325</id>
      <name>Agent</name>
    </TagSimple>
  </list>
</tags>
<sourceInfo>
  <list>
    <AssetSource/>
  </list>
</sourceInfo>
</Asset>
<Asset>
  <id>2738238</id>
  <name>temp test</name>
  <created>2016-08-24T17:06:12Z</created>
  <modified>2016-08-29T10:17:56Z</modified>
  <type>HOST</type>
  <tags>
    <list>
      <TagSimple>
        <id>509525</id>
        <name>Cloud Agent</name>
      </TagSimple>
      <TagSimple>
        <id>199839</id>
        <name>Malware Domain Assets</name>
      </TagSimple>
      <TagSimple>
        <id>8862525</id>
        <name>Test1</name>
      </TagSimple>
      <TagSimple>
        <id>217325</id>
        <name>Agent</name>
      </TagSimple>
    </list>
  </tags>
  <sourceInfo>
    <list>
      <AssetSource/>
    </list>
  </sourceInfo>
```

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

Get count of agents installed

Request:

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

Contents of get_all_agents_count.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<ServiceRequest>  
  <filters>  
    <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="https://qualysapi.qualys.com/qps/xs  
d/2.0/am/hostasset.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>3</count>  
</ServiceResponse>
```


Agent uninstall/install

Get all agents not checked-in in last N days

Request:

```
curl -u "USERNAME:PASSWORD" -X "POST" -H "Content-Type: text/xml" -H  
"Cache-Control: no-cache" --data-binary @list_agents_not_checkedin.xml  
"https://qualysapi.qualys.com/qps/rest/2.0/search/am/hostasset/"
```

Contents of list_agents_not_checkedin.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<ServiceRequest>  
  <filters>  
    <Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>  
    <Criteria field="updated" operator="LESSER">2016-08-  
25T00:00:01Z</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/a  
m/asset.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>3</count>  
  <data>  
    <Asset>  
      <id>712038</id>  
      <name>192.168.1.12</name>  
      <created>2014-06-18T16:54:50Z</created>  
      <modified>2014-06-18T16:54:51Z</modified>  
      <type>HOST</type>  
      <tags>  
        <list>  
          <TagSimple>  
            <id>509525</id>  
            <name>Cloud Agent</name>  
          </TagSimple>  
        </list>  
      </tags>  
      <sourceInfo>  
        <list>  
          <AssetSource/>  
        </list>  
      </sourceInfo>  
    </Asset>  
    <Asset>  
      <id>2532638</id>  
      <name>10.40.2.176</name>  
      <created>2015-04-17T13:32:48Z</created>  
      <modified>2015-05-14T14:06:03Z</modified>
```

```

        <type>HOST</type>
        <tags>
          <list>
            <TagSimple>
              <id>509525</id>
              <name>Cloud Agent</name>
            </TagSimple>
          </list>
        </tags>
        <sourceInfo>
          <list>
            <AssetSource/>
          </list>
        </sourceInfo>
      </Asset>
    <Asset>
      <id>2532838</id>
      <name>local IP agent</name>
      <created>2015-04-19T13:52:08Z</created>
      <modified>2016-02-05T12:26:48Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>509525</id>
            <name>Cloud Agent</name>
          </TagSimple>
          <TagSimple>
            <id>217325</id>
            <name>Agent</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list>
          <AssetSource/>
        </list>
      </sourceInfo>
    </Asset>
  </data>
</ServiceResponse>

```

Uninstall agents not checked-in in last N days

Request:

```

curl -u "USERNAME:PASSWORD" -X "POST" -H "Content-Type: text/xml" -H
"Cache-Control: no-cache" --data-binary
@uninstall_agents_not_checkedin.xml
"https://qualysapi.qualys.com/qps/rest/2.0/uninstall/am/asset/"

```

Contents of uninstall_agents_not_checkedin.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <Criteria field="tagName" operator="EQUALS">Cloud Agent</Criteria>
    <Criteria field="updated" operator="LESSER">2016-08-
25T00:00:01Z</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/a
m/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>3</count>
  <data>
    <Asset>
      <id>712038</id>
      <name>192.168.1.12</name>
      <created>2014-06-18T16:54:50Z</created>
      <modified>2014-06-18T16:54:51Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>509525</id>
            <name>Cloud Agent</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list>
          <AssetSource/>
        </list>
      </sourceInfo>
    </Asset>
    <Asset>
      <id>2532638</id>
      <name>10.40.2.176</name>
      <created>2015-04-17T13:32:48Z</created>
      <modified>2015-05-14T14:06:03Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>509525</id>
            <name>Cloud Agent</name>
          </TagSimple>
        </list>
      </tags>
```

```
<sourceInfo>
  <list>
    <AssetSource/>
  </list>
</sourceInfo>
</Asset>
<Asset>
  <id>2532838</id>
  <name>local IP agent</name>
  <created>2015-04-19T13:52:08Z</created>
  <modified>2016-02-05T12:26:48Z</modified>
  <type>HOST</type>
  <tags>
    <list>
      <TagSimple>
        <id>509525</id>
        <name>Cloud Agent</name>
      </TagSimple>
      <TagSimple>
        <id>217325</id>
        <name>Agent</name>
      </TagSimple>
    </list>
  </tags>
  <sourceInfo>
    <list>
      <AssetSource/>
    </list>
  </sourceInfo>
</Asset>
</data>
</ServiceResponse>
```

Activate all agents for VM with tag XX

Request:

```
curl -u "USERNAME:PASSWORD" -X "POST" -H "Content-Type: text/xml" -H  
"Cache-Control: no-cache" --data-binary @activate_agents_with_tag.xml  
"https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset?module=AGENT  
_VM"
```

Contents of activate_agents_with_tag.xml:

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

Activation key

Mark an activation key as disabled

Request:

```
curl -X POST -H "X-Requested-With: curl" -H "Authorization: Basic  
AbcdAbcdAbcdAbcdAbcd" -H "Content-Type: text/xml" -H "Cache-  
Control: no-cache" --data-binary @disable_key.xml  
"https://qualysapi.qualys.com/qps/rest/1.0/update/ca/agentactkey"
```

Contents of disable_key.xml:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <data>  
    <AgentActKey>  
      <id>25002</id>  
      <title>disabled from API</title>  
      <status>ACTIVE</status>  
      <countPurchased>10</countPurchased>  
      <expireDate>2016-12-05T23:05:42Z</expireDate>  
      <datePurchased>2015-10-05T23:05:42Z</datePurchased>  
      <type>COUNT_LIMITED</type>  
      <isDisabled>true</isDisabled>  
    </AgentActKey>  
  </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/1.0/ca/agentactkey.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AgentActKey>  
      <id>25002</id>  
      <activationKey>dc5e51f9-89de-47e2-ad35-  
26d5ee0f865d</activationKey>  
      <status>ACTIVE</status>  
      <countPurchased>10</countPurchased>  
      <countUsed>0</countUsed>  
      <datePurchased>2015-10-05T23:05:42Z</datePurchased>  
      <type>COUNT_LIMITED</type>
```

```
<title>disabled from API</title>
<isDisabled>true</isDisabled>
<modules>
  <list>
    <ActivationKeyModule>
      <license>VM_LICENSE</license>
    </ActivationKeyModule>
  </list>
</modules>
<tags>
  <list/>
</tags>
<agents>
  <list/>
</agents>
</AgentActKey>
</data>
</ServiceResponse>
```

Search for all activation keys that are disabled

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 @list_disabled_keys.xml "https://qualysapi.qualys.com/qps/rest/1.0/search/ca/agentactkey/"
```

Content of list disabled keys:

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <filters>
    <Criteria field="isDisabled"
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/1.0/ca/agentactkey.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>>false</hasMoreRecords>
```

```
<data>
  <AgentActKey>
    <id>25002</id>
    <activationKey>dc5e51f9-89de-47e2-ad35-
26d5ee0f865d</activationKey>
    <status>ACTIVE</status>
    <countPurchased>10</countPurchased>
    <countUsed>0</countUsed>
    <datePurchased>2015-10-05T23:05:42Z</datePurchased>
    <type>COUNT_LIMITED</type>
    <title>disabled from API</title>
    <isDisabled>true</isDisabled>
    <modules>
      <list>
        <ActivationKeyModule>
          <license>VM_LICENSE</license>
        </ActivationKeyModule>
      </list>
    </modules>
    <tags>
      <list/>
    </tags>
    <agents>
      <list/>
    </agents>
  </AgentActKey>
</data>
</ServiceResponse>
```


Get all agents for an activation key

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 @list_agents_with_key.xml "https://qualysapi.qualys.com/qps/rest/1.0/search/ca/agentactkey/"
```

Content of list_agents_with_key.xml:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<ServiceRequest>  
  <filters>  
    <Criteria field="activationKey" operator="EQUALS">b9f9cca0-bc82-43a0-8bba-7e9913d1e386</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/ca/agentactkey.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <hasMoreRecords>>false</hasMoreRecords>  
  <data>  
    <AgentActKey>  
      <id>6201</id>  
      <activationKey>b9f9cca0-bc82-43a0-8bba-7e9913d1e386</activationKey>  
      <status>INACTIVE</status>  
      <countPurchased>10</countPurchased>  
      <countUsed>2</countUsed>  
      <datePurchased>2014-03-05T12:48:54Z</datePurchased>  
      <type>UNLIMITED</type>  
      <title>example key updated from api</title>  
      <isDisabled>>false</isDisabled>  
      <modules>  
        <list/>  
      </modules>  
      <tags>  
        <list/>  
      </tags>  
    </AgentActKey>  
  </data>  
</ServiceResponse>
```

```
<list>
  <AgentAsset>
    <id>710625</id>
    <uuid>b0e9cca0-bc82-43a0-8bba-
7e9913d1e386</uuid>
    <name>10.10.10.10</name>
  </AgentAsset>
  <AgentAsset>
    <id>703719</id>
    <uuid>blf9cca0-bc82-43a0-8bba-
7e9913d1e386</uuid>
    <name>192.168.1.1</name>
  </AgentAsset>
</list>
</agents>
</AgentActKey>
</data>
</ServiceResponse>
```