



QUALYS®

# Cloud Agent API

User Guide

Version 1.8

October 24, 2016

CONTINUOUS SECURITY

Copyright 2016 by Qualys, Inc. All Rights Reserved.

Qualys and the Qualys logo are registered trademarks of Qualys, Inc. All other trademarks are the property of their respective owners.

Qualys, Inc.  
1600 Bridge Parkway  
Redwood Shores, CA 94065  
1 (650) 801 6100

# CONTENTS

---

## **Preface**

### **Chapter 1 Welcome**

Get Started .....	7
Good to Know .....	7
Get API Notifications .....	7
Qualys API Framework .....	8
Introduction to CA API Paradigm .....	9
Authentication .....	9
Supported filter operators .....	11

### **Chapter 2 Agent Management API**

Current agent count .....	14
List agents .....	16
Activate a single agent .....	28
Activate agents in bulk .....	30
Deactivate a single agent .....	34
Deactivate agents in bulk .....	35
Uninstall a single agent .....	39
Uninstall agents in bulk .....	40

### **Chapter 3 Activation Key API**

Get a single activation key .....	46
Search activation keys .....	48
Create an activation key .....	51
Delete an activation key .....	54
Update an activation key .....	56

### **Chapter 4 Configuration Profile API**

Get a single configuration profile .....	60
Search configuration profiles .....	64
Create a configuration profile .....	72
Delete a configuration profile .....	81
Update a configuration profile .....	82

### **Chapter 5 Common Use Cases**

Agent information .....	90
Get agent asset info for a single agent .....	90
Get all agents for the account .....	92
Get count of agents installed .....	95

## Contents

Agent uninstall/install.....	97
Get all agents not checked-in in last N days.....	97
Uninstall agents not checked-in in last N days .....	99
Activate all agents for VM with tag XX.....	101
Activation key.....	102
Mark an activation key as disabled.....	102
Search for all activation keys that are disabled .....	103
Get all agents for an activation key .....	105

---

# 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 8,800 customers in more than 100 countries, including a majority of each of the Forbes Global 100 and Fortune 100. Qualys 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. The company is also a founding member of the [Cloud Security Alliance \(CSA\)](#). For more information, please visit [www.qualys.com](http://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/](http://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](#).

### Get API Notifications

Subscribe to our API Notifications RSS Feeds for announcements and latest news.

#### From our Community

[Join our Community](#)

[API Notifications RSS Feeds](#)



# 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.

<baseurl>	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: <a href="https://qualysapi.qualys.com">https://qualysapi.qualys.com</a>
<operation>	The request operation, such as get a list and search.
<module>	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](https://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 Location	API Server URL
US Platform 1	<a href="https://qualysapi.qualys.com">https://qualysapi.qualys.com</a>
US Platform 2	<a href="https://qualysapi.qg2.apps.qualys.com">https://qualysapi.qg2.apps.qualys.com</a>
EU Platform	<a href="https://qualysapi.qualys.eu">https://qualysapi.qualys.eu</a>



# 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:

```
curl -X POST -H "Content-Type: text/xml" -H "Authorization: Basic YmhhcjRfY3M6cWF0ZW1w" -H "Cache-Control: no-cache" -d "<?xml version='1.0' encoding='UTF-8' ?> <ServiceRequest> <filters> <Criteria field='tagName' operator='EQUALS'>Cloud Agent</Criteria> </filters> </ServiceRequest>" "https://qualysapi.qualys.com/qps/rest/2.0/activate/am/asset?module=AGENT_VM"
```

## Supported filter operators

The supported operators for defining filter criteria in the <ServiceRequest> element are shown below.

### 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>
```



## 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](#)



## 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

[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 <code>Cloud Agent</code> .

### 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](#)

<b>URL:</b>	https://<baseurl>/qps/rest/2.0/search/am/hostasset
<b>Methods allowed:</b>	POST
<b>Pagination:</b>	A maximum of 100 agent assets are returned by default. To customize this specify a “preferences” tag in the POST body of your request.
<b>Limit results:</b>	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](#).

## 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/asset/"
```

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/xsd/2.0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>14</count>
  <hasMoreRecords>>false</hasMoreRecords>
  <data>
    <HostAsset>
      <id>71507763</id>
      <name>QLYSJPAE01</name>
      <created>2015-08-06T04:19:04Z</created>
      <modified>2016-01-15T08:43:19Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>7630770</id>
            <name>192.168.X</name>
          </TagSimple>
          <TagSimple>
            <id>10140568</id>
            <name>RTL - Test Business Unit</name>
          </TagSimple>
          <TagSimple>
            <id>10427491</id>
            <name>RFC1918</name>
          </TagSimple>
          <TagSimple>
            <id>10419726</id>
            <name>All IP in subscription</name>
          </TagSimple>
          <TagSimple>
            <id>10116901</id>
            <name>Internal IP Addresses (private)</name>
          </TagSimple>
          <TagSimple>
            <id>10137374</id>
            <name>Reboot_Required</name>
          </TagSimple>
          <TagSimple>
            <id>10538853</id>
            <name>MCW - Auth Fail Win Reg</name>
          </TagSimple>
          <TagSimple>
            <id>7493949</id>
            <name>BU-Test1</name>
          </TagSimple>
        </list>
      </tags>
    </HostAsset>
  </data>
</response>
```

```

        <TagSimple>
          <id>7516612</id>
          <name>Others</name>
        </TagSimple>
        <TagSimple>
          <id>7586429</id>
          <name>Windows</name>
        </TagSimple>
        <TagSimple>
          <id>7590147</id>
          <name>Windows - OS Containing windows asset
search</name>
        </TagSimple>
        <TagSimple>
          <id>7555735</id>
          <name>Windows Systems - EP</name>
...
      </list>
    </tags>
    <sourceInfo>
      <list>
        <AssetSource/>
      </list>
    </sourceInfo>
    <qwebHostId>123201228</qwebHostId>
    <os>Microsoft Windows 7 Professional Service Pack 1</os>
    <dnsHostName>QLYSJPAE01</dnsHostName>
    <netbiosName>QLYSJPAE01</netbiosName>
    <address>192.168.0.2</address>
    <trackingMethod>QAGENT</trackingMethod>
    <manufacturer>LENOVO</manufacturer>
    <model>3249PY5</model>
    <totalMemory>2147483647</totalMemory>
    <timezone>+09:00</timezone>
    <biosDescription>Ver 1.00PARTTBLx</biosDescription>
    <openPort>
      <list>
        <HostAssetOpenPort>
          <port>49153</port>
          <protocol>TCP</protocol>
        </HostAssetOpenPort>
        <HostAssetOpenPort>
          <port>135</port>
          <protocol>TCP</protocol>
        </HostAssetOpenPort>
      </list>
    </openPort>
  </HostAssetOpenPort>
</HostAssetOpenPort>
```

```
        <port>57190</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57191</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>1900</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57038</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57039</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57036</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57037</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57042</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57043</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57040</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>57041</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
    <HostAssetOpenPort>
        <port>5355</port>
        <protocol>UDP</protocol>
```

```
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>49154</port>
  <protocol>TCP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>49180</port>
  <protocol>TCP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>49179</port>
  <protocol>TCP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>912</port>
  <protocol>TCP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>902</port>
  <protocol>TCP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>546</port>
  <protocol>UDP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>500</port>
  <protocol>UDP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>4500</port>
  <protocol>UDP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>445</port>
  <protocol>TCP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>5357</port>
  <protocol>TCP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
  <port>138</port>
  <protocol>UDP</protocol>
</HostAssetOpenPort>
<HostAssetOpenPort>
```

```

        <port>137</port>
        <protocol>UDP</protocol>
    </HostAssetOpenPort>
</HostAssetOpenPort>

...

</list>
</openPort>
<software>
    <list>
        <HostAssetSoftware>
            <name>Symantec.cloud - Cloud Agent</name>
            <version>2.03.50.2539</version>
        </HostAssetSoftware>
        <HostAssetSoftware>
            <name>Microsoft Office Proof (Japanese)
2010</name>
            <version>14.0.7015.1000</version>
        </HostAssetSoftware>
        <HostAssetSoftware>
            <name>Microsoft Office Outlook MUI (Japanese)
2010</name>
            <version>14.0.7015.1000</version>
        </HostAssetSoftware>
        <HostAssetSoftware>
            <name>7-Zip 9.20 (x64 edition)</name>
            <version>9.20.00.0</version>
        </HostAssetSoftware>
        <HostAssetSoftware>
            <name>Microsoft Office Shared MUI (Japanese)
2007</name>
            <version>12.0.6612.1000</version>
        </HostAssetSoftware>
        <HostAssetSoftware>
            <name>Hotfix for Microsoft Visual C++ 2010
Express - æ-¥ææ-èªž (KB2542054)</name>
            <version>1</version>
        </HostAssetSoftware>
        <HostAssetSoftware>
            <name>tools-freebsd</name>
            <version>9.6.2.1895310</version>
        </HostAssetSoftware>
        <HostAssetSoftware>
            <name>Skypeâ„¢ 7.17</name>
            <version>7.17.105</version>
        </HostAssetSoftware>
    </list>
</software>
</openPort>
</list>

```

```
<HostAssetSoftware>
  <name>tools-solaris</name>
  <version>9.6.2.1895310</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Bria 3</name>
  <version>35.7.0928</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Microsoft Application Error
Reporting</name>
  <version>12.0.6012.5000</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Java Auto Updater</name>
  <version>2.8.31.13</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Microsoft Office Visio Professional
2007</name>
  <version>12.0.6612.1000</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Microsoft Visual C++ 2010 Express - æ-
¥ææ-èªž (KB2635973) ç"ã@ä¿@æ-fäf-äf-ã,°äf@äf </name>
  <version>1</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Google Toolbar for Internet
Explorer</name>
  <version>1.0.0</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Adobe Refresh Manager</name>
  <version>1.8.0</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>LINE</name>
  <version>4.3.0.724</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Google Update Helper</name>
  <version>1.3.25.11</version>
</HostAssetSoftware>
<HostAssetSoftware>
  <name>Microsoft Visual C++ 2010 x86 Runtime
```

```

- 10.0.40219</name>
    <version>10.0.40219</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>tools-windows</name>
    <version>9.6.2.1895310</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>docomo L03E</name>
    <version>1.4.0</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>Microsoft Visual C++ 2012 x86 Additional
Runtime - 11.0.61030</name>
    <version>11.0.61030</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>Lenovo USB Display</name>
    <version>1.790.2</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>Sony PC Companion 2.10.303</name>
    <version>2.10.303</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>Hotfix for Visual C++ Standard 2010 Beta
1 - ENU (KB982721)</name>
    <version>1</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>Cisco LEAP Module</name>
    <version>1.0.19</version>
</HostAssetSoftware>
<HostAssetSoftware>
    <name>Hotfix for Visual C++ Standard 2010 Beta
1 - ENU (KB982517)</name>
    <version>1</version>
</HostAssetSoftware>
...
</list>
</software>
<vuln>
    <list>
        <HostAssetVuln>
            <qid>19824</qid>

```

```
<hostInstanceVulnId>3536949910</hostInstanceVulnId>
  <firstFound>2015-08-06T07:28:55Z</firstFound>
  <lastFound>2016-01-15T07:09:06Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>43113</qid>

<hostInstanceVulnId>3536949875</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45038</qid>

<hostInstanceVulnId>3685975260</hostInstanceVulnId>
  <lastFound>2016-01-15T07:17:42Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45063</qid>

<hostInstanceVulnId>3536949874</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45095</qid>

<hostInstanceVulnId>3536949818</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45103</qid>

<hostInstanceVulnId>3536949883</hostInstanceVulnId>
  <lastFound>2016-01-15T01:18:50Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45105</qid>

<hostInstanceVulnId>3685975239</hostInstanceVulnId>
  <lastFound>2016-01-15T04:14:42Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45106</qid>

<hostInstanceVulnId>3536949895</hostInstanceVulnId>
  <lastFound>2015-10-29T04:42:59Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45117</qid>
```



```
<hostInstanceVulnId>3536949827</hostInstanceVulnId>
  <lastFound>2015-10-27T04:05:46Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45118</qid>

<hostInstanceVulnId>3536949828</hostInstanceVulnId>
  <lastFound>2015-12-24T05:55:40Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45156</qid>

<hostInstanceVulnId>3536949833</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45157</qid>

<hostInstanceVulnId>3536949832</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45178</qid>

<hostInstanceVulnId>3536949909</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45183</qid>

<hostInstanceVulnId>3685975258</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45193</qid>

<hostInstanceVulnId>3536949835</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45208</qid>

<hostInstanceVulnId>3536949915</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45230</qid>

<hostInstanceVulnId>3536949920</hostInstanceVulnId>
</HostAssetVuln>
<HostAssetVuln>
  <qid>45232</qid>
```

```
<hostInstanceVulnId>3536949837</hostInstanceVulnId>
  <lastFound>2016-01-15T01:18:50Z</lastFound>
</HostAssetVuln>
<HostAssetVuln>
  <qid>90007</qid>

<hostInstanceVulnId>3536949887</hostInstanceVulnId>
  <firstFound>2015-08-06T07:28:55Z</firstFound>
  <lastFound>2016-01-15T07:09:06Z</lastFound>
</HostAssetVuln>
...
  </list>
</vuln>
<processor>
  <list>
    <HostAssetProcessor>
      <name>Intel(R) Core(TM) i7 CPU M 620 @
2.67GHz</name>
      <speed>2667</speed>
    </HostAssetProcessor>
  </list>
</processor>
<volume>
  <list>
    <HostAssetVolume>
      <name>C:</name>
      <size>222193250304</size>
      <free>93599776768</free>
    </HostAssetVolume>
    <HostAssetVolume>
      <name>D:</name>
      <size>33759948800</size>
      <free>25192869888</free>
    </HostAssetVolume>
    <HostAssetVolume>
      <name>E:</name>
      <size>1977253888</size>
      <free>1732935680</free>
    </HostAssetVolume>
  </list>
</volume>
<account>
  <list>
    <HostAssetAccount>
      <username>Administrator</username>
```

```
</HostAssetAccount>
<HostAssetAccount>
  <username>asmith</username>
</HostAssetAccount>
<HostAssetAccount>
  <username>Guest</username>
</HostAssetAccount>
<HostAssetAccount>
  <username>HomeGroupUser$</username>
</HostAssetAccount>
</list>
</account>
<networkInterface>
  <list>
    <HostAssetInterface>
      <interfaceName>VMware Virtual Ethernet Adapter
for VMnet1</interfaceName>
      <macAddress>00:50:56:C0:00:01</macAddress>
      <type>LOCAL</type>
<address>fe80:0:0:0:831:dfd4:7d43:4682</address>
    </HostAssetInterface>
    <HostAssetInterface>
      <interfaceName>Intel(R) 82577LM Gigabit
Network Connection</interfaceName>
      <macAddress>F0:DE:F1:57:C2:92</macAddress>
      <type>LOCAL</type>
<address>fe80:0:0:0:8d53:2589:6247:e066</address>
      <gatewayAddress>192.168.0.1</gatewayAddress>
    </HostAssetInterface>
    ...
  </list>
</networkInterface>
</HostAsset>
...
```

## Activate a single agent

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

**URL:** `https://<baseurl>/qps/rest/2.0/activate/am/asset/<id>?module=<value>`

**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) or AGENT\_PC (for PC module). Specified module must be enabled in the user’s subscription.

## 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/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=<value>`

**Methods allowed:** POST

where:

“module” (Required) is the module to be activated for the agent: AGENT\_VM (for VM module) or AGENT\_PC (for PC module). Specified module must be enabled in the user’s subscription.

## 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>
```

### 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/rest/2.0/activate/am/asset?module=AGE  
NT_VM"
```

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/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>
```

## Chapter 2 — Agent Management API

Activate agents in bulk

```
        </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=<value>`

**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) or AGENT\_PC (for PC module). Specified module must be enabled in the user’s subscription.

### 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/rest/2.0/deactivate/am/asset/5808297?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/xsd/2.0/am/asset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
</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=<value>`

**Methods allowed:** POST

where:

“module” (Required) is the module to be deactivated for the agent: AGENT\_VM (for VM module) or AGENT\_PC (for PC module). Specified module must be enabled in the user’s subscription.

## 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.

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

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

### 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 "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/rest/2.0/deactivate/am/asset?module=A  
GENT_VM"
```

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>
```

## Chapter 2 — Agent Management API

Deactivate agents in bulk

```
        </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.

## 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/rest/2.0/uninstall/am/asset/12345"
```

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

### 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 "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://localhost:6080/portal-api/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>
```



## 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.

### 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 YmhhcncRfY3M6cWF0ZWlw" -H "Cache-Control: no-cache" "https://qualysapi.qualys.com/qps/rest/1.0/get/ca/agentactkey/25002"
```

#### 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>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

### Input parameters

The following filters may be used. Filter operators are supported for the various data types. See [Supported filter operators](#).

<code>countPurchased</code> (Integer)	(optional if type is <code>COUNT_LIMITED</code> or <code>COUNT_TIME_LIMITED</code> ) Search for keys with number of keys purchased. Value is 1 or more.
<code>activationKey</code> (String)	(optional) Search for agents using a certain key.
<code>id</code> (number)	(optional) Search for keys with a certain key ID.
<code>isDisabled</code> (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/xsd/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 parameters are used to create an activation key. Several filter operators are supported for the various data types. See [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 YmhhcjRfY3M6cWF0ZW1w" -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/xsd/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.

### 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/59001"
```

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/xsd/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

These parameters are used to update an activation key. Several filter operators are supported for the various data types. See [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.

### 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  
YmhhcjRfY3M6cWF0ZW1w" -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>  
      <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>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>
      <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.

### 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 YmhhcjRfY3M6cWF0ZWlw" -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/xsd/1.0/ca/agentconfig.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AgentConfig>
      <id>9000</id>
      <name>suspend</name>
      <isDefault>0</isDefault>
      <createdDate>2016-02-16T14:55:43Z</createdDate>
      <createdBy>Alex Kim (quays_ak12)</createdBy>
    </AgentConfig>
  </data>
  <includeTags>
```

```
<list>
  <ConfigTag>
    <id>256926</id>
    <uuid>fe2ff339-e262-4cf4-a12d-
85daed5fc6ae</uuid>
    <name>My Tag</name>
  </ConfigTag>
</list>
</includeTags>
<includeResolution>ANY</includeResolution>
<excludeTags/>
<tagSetUuid>f11e09bf-3e7e-4780-ae00-
211f33660d6f</tagSetUuid>
</tags>
<suspendScanning>>true</suspendScanning>
<priority>12</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>0</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>
    </list>
  </settings>
</performanceProfile>
</settings>
</list>
```

```
<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_REVOCAATION</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>0</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

## Input Parameters

The following filters may be used. Filter operators are supported for the various data types. See [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/xs
d/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_CHANGELIST</key>
              <value>60</value>
            </PerformanceLevelSettings>
            <PerformanceLevelSettings>
              <key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
              <value>1024</value>
            </PerformanceLevelSettings>
          </list>
        </settings>
      </performanceProfile>
    </AgentConfig>
  </data>
</ServiceResponse>
```

```
        <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>
    <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>
    <PerformanceLevelSettings>
        <key>THROTTLE_EVENT_COMM_UPLOAD</key>
        <value>10</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_STATUS</key>
        <value>1800</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>0</value>
        </PerformanceLevelSettings>
    </PerformanceLevelSettings>

    <key>FILE_UPLOAD_FRAGMENT_SIZE_IN_KB</key>
        <value>0</value>
    </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>0</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>0</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>FILE_DOWNLOAD_FRAGMENT_SIZE_IN_KB</key>
                <value>0</value>
            </PerformanceLevelSettings>
        </list>
    </settings>
</performanceProfile>
</blackoutConfig>
</settings>
</list>
</BlackoutConfig>
```

```
        </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>0</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

These parameters apply to configuration profile create and update requests. Several filter operators are supported for the various data types. See [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.

---

INTERVAL\_EVENT\_UPLOAD\_CHANGELIST

**Delta Upload Interval** - Interval (in seconds) an agent attempts to upload detected changes. Range: 60 seconds or more.  
Recommended: 70

---

INTERVAL\_EVENT\_DOWNLOAD\_SNAPSHOT

**Delta Confirmation Interval** - Interval (in seconds) an agent checks platform for confirmation that changes were processed. Range: 60 seconds or more. Recommended: 300

---

INTERVAL\_EVENT\_DOWNLOAD\_MANIFEST

**Manifest Download Interval** - Interval (in seconds) an agent checks platform for new instruction manifests. Range: 60 seconds or more. Recommended: 10800

---

INTERVAL\_EVENT\_CONFIG

**Configuration Download Interval** - Interval (in seconds) an agent checks platform for new configuration profiles. Range: 60 seconds or more. Recommended: 10800

---

INTERVAL\_EVENT\_PROVISION

**Provisioning Interval** - Interval (in seconds) an agent attempts to self repair by reprovisioning with platform. Range: 60 seconds or more. Recommended: 3600

---

INTERVAL\_EVENT\_STATUS

**Update System with Agent's status** - Push interval (in seconds) to update system with Agent's status. Range: 300-86400 seconds. Recommended: 3600

---

INTERVAL\_EVENT\_DOWNLOAD\_SELF\_PATCH

**Upgrade Check Interval** - Interval (in seconds) an agent checks platform for a new upgrade. Range: 300 seconds or more. Recommended: 10800

---

---

INTERVAL\_EVENT\_EXECUTE\_SETUP

**Upgrade Reattempt Interval** - Interval (in seconds) an agent will retry applying a new upgrade to itself. Range: 180 seconds or more. Recommended: 300

---

INTERVAL\_EVENT\_CHECK\_REVOCAATION

**Revocation Interval** - Interval (in seconds) an agent checks platform to see if it should uninstall itself. Range: 3600 seconds or more. Recommended: 3600

---

THROTTLE\_EVENT\_SCAN

**CPU Throttle** - The higher this value (in ms), the lower CPU utilization but longer agent takes to perform actions on its host. Range: 0-200 milliseconds. Recommended: 20

---

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: 20

---

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: 20

---

FILE\_UPLOAD\_FRAGMENT\_SIZE\_IN\_KB

**Chunk sizes for file fragment uploads** - This is the upload block size (in KB), and combined with the Network throttle Tx, determines network utilization. Range: 64-10240 KB. Recommended: 1024

---

FILE\_DOWNLOAD\_FRAGMENT\_SIZE\_IN\_KB

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

---

AGENT\_LOGGING\_LEVEL

**Logging level for agent** - This is the logging level for the agent. Value can be Verbose, Info (i.e. informational), Warn (i.e. Warning), Error or None. Recommended: Verbose

---

## Example

### Request:

```
curl -X POST -H "Content-Type: text/xml" -H "Authorization: Basic YmhhcjRfY3M6cWF0ZW1w" -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>1</isDefault>
      <suspendScanning>true</suspendScanning>
      <tags>
        <includeTags>
          <list>
            <ConfigTag>
              <id>256926</id>
              <name>My 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>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>60</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
      <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>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>
  </list>
</settings>
```

```
        </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>3600</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
          <key>INTERVAL_EVENT_CONFIG</key>
          <value>10800</value>
        </PerformanceLevelSettings>
        <PerformanceLevelSettings>
          <key>INTERVAL_EVENT_CHECK_REVOCATION</key>
          <value>3600</value>
        </PerformanceLevelSettings>
      </list>
    </settings>
  </performanceProfile>
</AgentConfig>
</data>
</ServiceRequest>
```

**Response:**

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <AgentConfig>
      <id>9000</id>
      <name>Config profile created using api</name>
      <description>done using api</description>
      <priority>2</priority>
      <isDefault>1</isDefault>
      <suspendScanning>true</suspendScanning>
      <tags>
        <includeTags>
```

```
        <list>
          <ConfigTag>
            <id>256926</id>
            <name>My 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>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>60</value>
          </PerformanceLevelSettings>
          <PerformanceLevelSettings>
            <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>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>3600</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
        <key>INTERVAL_EVENT_CONFIG</key>
        <value>10800</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
    <key>INTERVAL_EVENT_CHECK_REVOCATION</key>
        <value>3600</value>
```

## Chapter 4 — Configuration Profile API

Create a configuration profile

```
        </PerformanceLevelSettings>
    </list>
</settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceRequest>
```



## 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.

### 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/9000"
```

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/xsd/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 YmhhcncRfY3M6cWF0ZWlw" -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</key>
                <value>70</value>
            </PerformanceLevelSettings>
            <PerformanceLevelSettings>
<key>FILE_UPLOAD_FRAGMENT_SIZE</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>
<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>3600</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_LIST</key>
  <value>70</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>
<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>3600</value>
    </PerformanceLevelSettings>
    <PerformanceLevelSettings>
      <key>INTERVAL_EVENT_CONFIG</key>
      <value>10800</value>
    </PerformanceLevelSettings>
  </list>
</settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceRequest>
```

## Chapter 4 — Configuration Profile API

Update a configuration profile



## 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

### Request:

```
curl -u "USERNAME:PASSWORD" -X "GET" -H "Content-Type: text/xml"
https://qualysapi.qualys.com/qps/rest/2.0/get/am/hostasset/2020094
```

### Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/xsd/2.
0/am/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>2020094</id>
      <name>My Windows Asset</name>
      <created>2014-02-06T19:16:35Z</created>
      <modified>2014-02-06T19:16:35Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>12345</id>
            <name>Tag 1</name>
          </TagSimple>
          <TagSimple>
            <id>54321</id>
            <name>Tag 2</name>
          </TagSimple>
        </list>
      </tags>
      <sourceInfo>
        <list/>
      </sourceInfo>
      <os>Windows 7</os>
      <dnsHostName>localhost</dnsHostName>
      <netbiosName>TEST</netbiosName>
```

```
<netbiosNetworkId>10</netbiosNetworkId>
<networkGuid>66bf43c8-7392-4257-b856-
a320fde231eb</networkGuid>
<address>127.0.0.1</address>
<trackingMethod>IP</trackingMethod>
<qwebHostId>2932936</qwebHostId>
<manufacturer>LENOVO</manufacturer>
<model>4178AFU</model>
<totalMemory>1024</totalMemory>
<timezone>-08:00</timezone>
<biosDescription>LENOVO 83ET76WW (1.46 ),
7/5/2013</biosDescription>
<openPort>
  <list/>
</openPort>
<software>
  <list/>
</software>
<vuln>
  <list/>
</vuln>
<processor>
  <list>
    <HostAssetProcessor>
      <name>Intel64 Family 6 Model 42 Stepping 7
GenuineIntel</name>
      <speed>2701</speed>
    </HostAssetProcessor>
  </list>
</processor>
<volume>
  <list>
  </list>
</volume>
<account>
  <list>
    <HostAssetAccount>
      <username>Guest</username>
    </HostAssetAccount>
    <HostAssetAccount>
      <username>asmith</username>
    </HostAssetAccount>
  </list>
</account>
</list>
</HostAssetAccount>
```

```
<HostAssetAccount>
  <username>Q82541</username>
</HostAssetAccount>
</list>
</account>
<networkInterface>
  <list>
    <HostAssetInterface>
      <type>LOCAL</type>
      <address>10.0.203.160</address>
    </HostAssetInterface>
  </list>
</networkInterface>
</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/asset/"
```

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

```
<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/asset/"
```

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>  
  </data>
```

```

    <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 YmhhcncRfY3M6cWF0ZW1w" -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/xsd/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/rest/1.0/search/ca/agentactkey/"
```

Content of list\_diabled\_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/xs
d/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/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/xs  
d/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>
<agents>
  <list>
    <AgentAsset>
      <id>710625</id>
      <uuid>b0e9cca0-bc82-43a0-8bba-
7e9913d1e386</uuid>
      <name>10.10.10.10</name>
    </AgentAsset>
    <AgentAsset>
      <id>703719</id>
      <uuid>b1f9cca0-bc82-43a0-8bba-
7e9913d1e386</uuid>
      <name>192.168.1.1</name>
    </AgentAsset>
  </list>
</agents>
</AgentActKey>
</data>
</ServiceResponse>
```