



# Qualys Cloud Platform v3.x

## API Release Notes

Version 3.8.1

October 14, 2021

Qualys Cloud Suite API gives you many ways to integrate your programs and API calls with Qualys capabilities. You'll find all the details in our user guides, available at the time of release. Just log in to your Qualys account and go to [Help > Resources](#).

### What's New

[CA API: Create/Update Configuration Profile for In-Memory SQLite Databases](#)

[AM API: Added Support for New Tag Engine for BUSINESS\\_INFORMATION Tag Rule](#)

### URL to the Qualys API Server

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

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

This documentation uses the API gateway URL for Qualys US Platform 1 (<https://gateway.qg1.apps.qualys.com>) in sample API requests. If you're on another platform, please replace this URL with the appropriate gateway URL for your account.

## CA API: Create/Update Configuration Profile for In-Memory SQLite Databases

API affected	/qps/rest/1.0/create/ca/agentconfig/ /qps/rest/1.0/update/ca/agentconfig/
New or Updated APIs	Updated
DTD or XSD changes	Yes

With this release, you can enable In-Memory SQLite Databases option to optimize scan performance and minimize disk usage for Windows Cloud Agents. Windows Cloud Agents with the In-Memory SQLite Databases enabled consumes slightly higher memory, slightly less CPU, and reduces disk usage compared to when it is disabled. You must provide these input parameters in the request body of the curl request.

### Input Parameter

Use this new input parameter to create or update configuration profile with In-Memory SQLite Databases option.

Parameter	Description
inMemoryDbEnabled (boolean)	(optional) Defaults to false, i.e. the In-Memory SQLite Databases feature is not enabled. Set to true to enable the In-Memory SQLite Databases feature.

### Sample - Create Configuration Profile

API request:

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

Note: "config\_create.xml" contains the request POST data.

Contents of config\_create.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <AgentConfig>
      <name>Config profile created using api</name>
      <description>done using api</description>
      <priority></priority>
      <isDefault>0</isDefault>
      <suspendScanning>false</suspendScanning>
```

```
    <inMemoryDbEnabled>true</inMemoryDbEnabled>
  <tags>
    <includeTags>
      <list>
        <ConfigTag>
          <id>6332818</id>
          <name>Tag1</name>
        </ConfigTag>
      </list>
    </includeTags>
    <includeResolution>ANY</includeResolution>
    <excludeTags></excludeTags>
    <excludeResolution>ANY</excludeResolution>
  </tags>
  ...
    </PerformanceLevelSettings>
  </list>
</settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceRequest>
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/1.0/c
a/agentconfig.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AgentConfig>
      <id>151889</id>
      <name>Config profile created using api</name>
      <isDefault>0</isDefault>
      <createdDate>2017-02-20T09:35:04Z</createdDate>
      <createdBy>My Name</createdBy>
      <description>done using api</description>
      <tags>
        <includeTags/>
        <includeResolution>ANY</includeResolution>
        <excludeTags/>
        <tagSetUuid>f5edf058-c55b-40b8-bc32-
          94959ca4304c</tagSetUuid>
      </tags>
      <suspendScanning>false</suspendScanning>
      <inMemoryDbEnabled>true</inMemoryDbEnabled>
      <preventAgentUpdate>false</preventAgentUpdate>
```

```
<totalAgents>0</totalAgents>
<blackoutConfig>
  <settings>
    <list>
      <BlackoutConfig>
...
      <key>INTERVAL_EVENT_CONFIG</key>
      <value>66</value>
    </PerformanceLevelSettings>
  </list>
</settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceResponse>
```

## Sample - Update Configuration Profile

### API request:

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

Note: "config\_update.xml" contains the request POST data.

### 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>
      <inMemoryDbEnabled>true</inMemoryDbEnabled>
      <tags>
        <includeTags>
          <list>
            <ConfigTag>
              <id>256926</id>
              <name>CSHAH TEMP tag</name>
            </ConfigTag>
          </list>
...

```

```

        <value>10800</value>
      </PerformanceLevelSettings>
    </list>
  </settings>
</performanceProfile>
</AgentConfig>
</data>
</ServiceRequest>

```

### XML output:

```

<?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>
      <inMemoryDbEnabled>>true</inMemoryDbEnabled>
      <tags>
        <includeTags>
          <list>
            ...
            <value>10800</value>
          </PerformanceLevelSettings>
        </list>
      </settings>
    </performanceProfile>
  </AgentConfig>
</data>
</ServiceRequest>

```

### Updated XSD

XSD: <platform API server>/qps/xsd/1.0/ca/agentconfig.xsd

## AM API: Added Support for New Tag Engine for BUSINESS\_INFORMATION Tag Rule

API affected	<code>/qps/rest/2.0/create/am/tag</code> <code>/qps/rest/2.0/update/am/tag/</code> <code>/qps/rest/2.0/get/am/tag/</code> <code>/qps/rest/2.0/search/am/tag</code>
New or Updated APIs	Updated API
DTD or XSD changes	Yes

With this release, we have added support for a new tag engine for the BUSINESS\_INFORMATION tag rule type.

### Sample: Create an asset tag with BUSINESS\_INFORMATION rule type

Let us create an asset tag with BUSINESS\_INFORMATION rule type and add a description.

#### API Request

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

#### Request POST data

```
<ServiceRequest>  
  <data>  
    <Tag>  
      <name>Business_Information_API_Example</name>  
      <criticalityScore>3</criticalityScore>  
      <description>This is Business Information tag</description>  
      <ruleType>BUSINESS_INFORMATION</ruleType>  
      <ruleText>asset.org.company:ACME US</ruleText>  
      <color>#FFFEEF</color>  
    </Tag>  
  </data>  
</ServiceRequest>
```

#### XML Output

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/rest/2.0/  
create/am/tag">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <Tag>
```

```
<id>120365779</id>
<name>Business_Information_API_Example</name>
<created>2021-09-27T08:04:04Z</created>
<modified>2021-09-27T08:04:04Z</modified>
<color>#FFFEF</color>
<ruleText>asset.org.company:ACME US</ruleText>
<ruleType>BUSINESS_INFORMATION</ruleType>
<criticalityScore>3</criticalityScore>
<description>This is Business Information tag</description>
</Tag>
</data>
</ServiceResponse>
```

### Sample: Search an asset tag that has the BUSINESS\_INFORMATION tag rule

Let us search an asset tag that has BUSINESS\_INFORMATION tag rule.

#### API Request

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

#### Request POST data

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

#### XML Output

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/rest/2.0/
search/am/tag">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>>false</hasMoreRecords>
  <data>
    <Tag>
      <id>120365779</id>
      <name>Business_Information_API_Example</name>
      <created>2021-09-27T08:04:04Z</created>
      <modified>2021-09-27T08:14:23Z</modified>
      <color>#FFFEF</color>
```

```
<ruleText>asset.org.department:IT Operations</ruleText>
<ruleType>BUSINESS_INFORMATION</ruleType>
<criticalityScore>3</criticalityScore>
<description>This is Business Information tag</description>
</Tag>
</data>
</ServiceResponse>
```

### Sample: Update an asset tag with the BUSINESS\_INFORMATION tag rule

Let us update an asset tag with the BUSINESS\_INFORMATION tag rule.

#### API Request

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

#### Request POST data

```
<ServiceRequest>
<data>
  <Tag>
    <ruleText>asset.org.department:IT Operations</ruleText>
  </Tag>
</data>
</ServiceRequest>
```

#### XML Output

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/rest/2.0/
update/am/tag">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Tag>
      <id>120365779</id>
    </Tag>
  </data>
</ServiceResponse>
```

### Sample: Get tag API shows description for an asset tag

The Get response for a tag also returns the description for an asset tag state.

#### API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "GET" --
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/tag/16488612"
```

#### XML Output



```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/2.0/a
m/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Tag>
      <id>120365779</id>
      <name>Business_Information_API_Example</name>
      <created>2021-09-27T08:04:04Z</created>
      <modified>2021-09-27T08:14:23Z</modified>
      <color>#FFFEF</color>
      <ruleText>asset.org.department:IT Operations</ruleText>
      <ruleType>BUSINESS_INFORMATION</ruleType>
      <criticalityScore>3</criticalityScore>
      <description>This is Business Information tag</description>
    </Tag>
  </data>
</ServiceResponse>
```

## XSD update for asset.xsd file

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

We added Description element to TAG.XSD file.

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://am.oxm.api.portal.qualys.com/v2"
xmlns:tns="http://am.oxm.api.portal.qualys.com/v2"
elementFormDefault="qualified"
xmlns:common="http://oxm.api.portal.qualys.com/common">
  <complexType name="TagSimple">
    <sequence>
      <element name="id" type="long" />
      <element name="name" type="string" />
    </sequence>
  </complexType>

  <simpleType name="TagRuleType">
    <restriction base="string">
      <enumeration value="STATIC" />
      <enumeration value="GROOVY" />
      <enumeration value="OS_REGEX" />
      <enumeration value="NETWORK_RANGE" />
      <enumeration value="NETWORK_RANGE_ENHANCED" />
      <enumeration value="NAME_CONTAINS" />
      <enumeration value="INSTALLED_SOFTWARE" />
      <enumeration value="OPEN_PORTS" />
    </restriction>
  </simpleType>
```

```
<enumeration value="VULN_EXIST" />
<enumeration value="ASSET_SEARCH" />
<enumeration value="CLOUD_ASSET"/>
<enumeration value="BUSINESS_INFORMATION"/>
</restriction>
</simpleType>

<complexType name="TagSimpleQList">
  <sequence>
    <element name="count" type="int" maxOccurs="1" minOccurs="0"/>
    <element name="list" minOccurs="0" maxOccurs="unbounded"
type="tns:TagSimple"/>
    <element name="set" minOccurs="0" maxOccurs="unbounded"
type="tns:TagSimple"/>
    <element name="add" minOccurs="0" maxOccurs="unbounded"
type="tns:TagSimple"/>
    <element name="remove" minOccurs="0" maxOccurs="unbounded"
type="tns:TagSimple"/>
    <element name="update" minOccurs="0" maxOccurs="unbounded"
type="tns:TagSimple"/>
  </sequence>
</complexType>

<complexType name="Tag">
<complexContent>
<extension base="tns:TagSimple">
<sequence>
<element name="parentTagId" type="long" minOccurs="0" />

<element name="created" type="dateTime" minOccurs="0" />
<element name="modified" type="dateTime" minOccurs="0" />

<element name="color" minOccurs="0">
<simpleType>
<restriction base="string">
<pattern value="#"[0-9a-fA-F]{3}([0-9a-fA-F]{3})?" />
</restriction>
</simpleType>
</element>

<element name="ruleText" type="string" minOccurs="0" />
<element name="ruleType" type="tns:TagRuleType" minOccurs="0" />

<element name="srcAssetGroupId" type="long" minOccurs="0" />
<element name="srcBusinessUnitId" type="long" minOccurs="0" />
<element name="srcOperatingSystemName" type="string" minOccurs="0" />
<element name="provider" type="string" minOccurs="0" />
<element name="children" type="tns:TagSimpleQList" minOccurs="0" />
<element name="criticalityScore" type="int" minOccurs="0" />
```

```
<element name="description" type="string" minOccurs="0" />  
</sequence>  
</extension>  
</complexContent>  
</complexType>  
</schema>
```