



# Qualys Cloud Platform v2.x

## API Release Notes

Version 2.32

March 22, 2018

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**

[SAQ - New User API](#)

[SAQ - New Template API](#)

[WAS - Burp API: Support for Latest Burp version](#)

[WAS - Option Profile API: Enhancements to Detections](#)

[CA - NOT EQUALS operator disabled during uninstall](#)

[WAF - New criteria for searching assets](#)

[WAF - Add timeout for a Web Server](#)

[WAF - Deployment status and date in cluster API](#)

[WAF - Display custom page for custom rule](#)

[WAF - Add trusted proxies for a Cluster](#)

[AWS Asset Data Connector API - Support for EU \(Paris\) Region](#)

## URL to the Qualys API Server

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

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

The Qualys API documentation and sample code use the API server URL for the Qualys US Platform 1. If your account is located on another platform, please replace this URL with the appropriate server URL for your account.

## SAQ - New User API

We have introduced a new API (<https://<baseurl>/qps/rest/1.0/{action}/saq/user>) that will give the list of users along with their tags to the authorized user. Currently, we support these actions for the users: search, count, create, update, bulk update, delete, bulk delete, and get details of a user.

APIs affected	<a href="#">/qps/rest/1.0/get/saq/user/:id</a> <a href="#">/qps/rest/1.0/count/saq/user</a> <a href="#">/qps/rest/1.0/search/saq/user</a> <a href="#">/qps/rest/1.0/create/saq/user</a> <a href="#">/qps/rest/1.0/update/saq/user/:id</a> <a href="#">/qps/rest/1.0/update/saq/user</a> <a href="#">/qps/rest/1.0/delete/saq/user/:id</a> <a href="#">/qps/rest/1.0/delete/saq/user</a>
New or Updated APIs	New
DTD or XSD changes	Yes

Qualys SAQ API User Guide will be provided at the time of release. This guide has complete details and samples to help you with using the SAQ API.

### Sample 1 - Create User

Add a new user to the API user's scope.

#### Parameters:

Element	Description
firstName	First name of the user.
lastName	Last name of the user.
company	Name of the company the user belongs to.
emailAddress	Email address of the user.
title	(Optional) Title of the user.
tags	(Optional) List of tags associated with the user.
tags.tag.id	(Optional) Tag identifier of the tags associated with the user.
tags.tag.name	(Optional) Tag name of the tags associated with the user.

API request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"  
--data-binary @-  
"https://qualysapi.qualys.com/qps/rest/1.0/create/saq/user" <file.xml
```

Note: "file.xml" contains the request POST data.

Request POST data (file.xml):

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <data>  
    <User>  
      <firstName>api-user</firstName>  
      <lastName>api-user</lastName>  
      <company>afko</company>  
      <emailAddress>user@email.com</emailAddress>  
    </User>  
  </data>  
</ServiceRequest>
```

XML output:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/1.0/saq/user.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <User>  
      <id>401990</id>  
      <uuid>734d9b3d-d246-4bb6-a028-5a390b47eb2a</uuid>  
      <firstName>john</firstName>  
      <lastName>doe</lastName>  
      <company>afko</company>  
      <emailAddress>user@email.com</emailAddress>  
    </User>  
  </data>  
</ServiceResponse>
```

## Sample 2 - Get User

Returns details for a user in the API user's scope.

API request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "GET"  
"https://qualysapi.qualys.com/qps/rest/1.0/get/saq/user/:401990"
```

XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/1.0/saq/user.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <User>
      <id>401990</id>
      <uuid>734d9b3d-d246-4bb6-a028-5a390b47eb2a</uuid>
      <firstName>john</firstName>
      <lastName>doe</lastName>
      <company>afko</company>
      <emailAddress>user@email.com</emailAddress>
      <userName>user</userName>
      <title>dev</title>
      <tags>
        <Tag>
          <id>7513412</id>
          <name>Malware Domain Assets</name>
        </Tag>
        <Tag>
          <id>7508422</id>
          <name>Business Units</name>
        </Tag>
        <Tag>
          <id>7520414</id>
          <name>test2</name>
        </Tag>
        <Tag>
          <id>7546412</id>
          <name>Passive Scanning</name>
        </Tag>
        <Tag>
          <id>7553612</id>
          <name>tag1</name>
        </Tag>
        <Tag>
          <id>7553812</id>
          <name>tag2</name>
        </Tag>
      </tags>
    </User>
  </data>
</ServiceResponse>
```

## SAQ - New Template API

We have introduced a new API (<https://<baseurl>/qps/rest/1.0/{action}/saq/template>) that will give you list of template to an authorized user. Currently, we support these actions for the template: count, search, create, createfromlibrary, newversion, publish, update, bulk update, delete, bulk delete, and get details of the template.

APIs affected	<a href="#">/qps/rest/1.0/get/saq/librarytemplate/:id</a> <a href="#">/qps/rest/1.0/count/saq/librarytemplate</a> <a href="#">/qps/rest/1.0/search/saq/librarytemplate</a> <a href="#">/qps/rest/1.0/get/saq/template/:id</a> <a href="#">/qps/rest/1.0/count/saq/template</a> <a href="#">/qps/rest/1.0/search/saq/template</a> <a href="#">/qps/rest/1.0/createfromlibrary/saq/template/</a> <a href="#">/qps/rest/1.0/create/saq/template/</a> <a href="#">/qps/rest/1.0/update/saq/template/:id</a> <a href="#">/qps/rest/1.0/update/saq/template</a> <a href="#">/qps/rest/1.0/newversion/saq/template</a> <a href="#">/qps/rest/1.0/publish/saq/template</a> <a href="#">/qps/rest/1.0/delete/saq/template/:id</a> <a href="#">/qps/rest/1.0/delete/saq/template</a>
New or Updated APIs	New
DTD or XSD changes	Yes

Qualys SAQ API User Guide will be provided at the time of release. This guide has complete details and samples to help you with using the SAQ API.

## Sample 1 - Create Template

Create a new template.

### Parameters:

Element	Description
id	(Optional) Id of the template.
uuid	(Optional) Unique id of the template.
name	(Optional) Name of the template.
description	(Optional) Description of the template.
category	Category of the template.
familyId	Family identifier of the template.
revision	(Optional) Version of the template.
isLibrary	(Optional) True if the template is created from a library template.
questionCnt	Count of questions in a template.
state	(Optional) State of the template (Published, Draft)
elements	List of Template element (sections, questions, ...)
elements.sections	List of Template section, a section can contains other sections and questions.
elements.questions	List of the template questions.
elements.scorings	List of the template scorings.
Scoring.label	(Optional) Scoring label.
Scoring.value	(Optional) Scoring value.
Section.name	Name of the section.
Section.description	Description of the section.
Question.label	(Optional) Label assigned to the question.
Question.text	(Optional) Description of the question.
Question.type	(Optional) The question type (booleanQuestion, numericQuestion, textQuestion, ...)
Question.mode	The question mode (Button, Radio, Combo)
Question.criticality	The question criticality (INFO, CRITICAL, ...)
Question.requireAttachment	True if the Attachment required flag is set to yes.
Question.requireComment	True if the Comment required flag is set to yes.

Element	Description
Question.requireAsset	True if the Asset required flag is set to yes.
Question.yesScoringLabel	The question yes scoring label (only for Boolean question)
Question.noScoringLabel	The question no scoring label (only for the Boolean question)
Question.minCommentLength	The question min comment length, the value of this field will be stored if the requireComment field is set to true.
Question.maxCommentLength	The question max comment length, the value of this field will be stored if the requireComment field is set to true.
Answer.title	Title of the answer.
Answer.value	Value of the answer.
Answer.requireAttachment	True if the Attachment required flag is set to yes.
Answer.requireComment	True if the Comment required flag is set to yes.
Answer.requireAsset	True if the Asset required flag is set to yes.
Answer.scoringLabel	The answer scoring label (only for the dropdown, multiselect, single select)
Answer.minCommentLength	The Answer min comment length, the value of this field will be stored if the requireComment field is set to true.
Answer.maxCommentLength	The Answer max comment length, the value of this field will be stored if the requireComment field is set to true.

API request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/1.0/create/saq/template/"
<file.xml
```

Note: "file.xml" contains the request POST data.

Request POST data (file.xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Template>
      <name>template-using-api</name>
      <description>template using api</description>
      <elements>
        <sections>
          <list>
            <Section>
              <name>section 1</name>
```



```
<description>section 1 description</description>
<questions>
  <list>
    <Question>
      <type>textQuestion</type>
      <mode>SIDE_BY_SIDE</mode>
      <requireAttachment>>false</requireAttachment>
      <requireComment>>false</requireComment>
      <requireAsset>>false</requireAsset>
      <text>text question</text>
      <label>0</label>
    </Question>
    <Question>
      <type>textQuestion</type>
      <mode>SIDE_BY_SIDE</mode>
      <requireAttachment>>false</requireAttachment>
      <requireComment>>false</requireComment>
      <requireAsset>>false</requireAsset>
      <text>formatted question</text>
      <label>1</label>
    </Question>
    <Question>
      <type>multipleChoiceQuestion</type>
      <mode>COMPACT</mode>
      <requireAttachment>>false</requireAttachment>
      <requireComment>>false</requireComment>
      <requireAsset>>false</requireAsset>
      <text>drop down question</text>
      <label>2</label>
      <answers />
    </Question>
    <Question>
      <type>booleanQuestion</type>
      <mode>BUTTON</mode>
      <requireAttachment>>false</requireAttachment>
      <requireComment>>false</requireComment>
      <requireAsset>>false</requireAsset>
      <text>boolean question</text>
      <label>3</label>
      <criticality>INFO</criticality>
      <yesScoringLabel>MEDIUM</yesScoringLabel>
      <noScoringLabel>LOW</noScoringLabel>
    </Question>
    <Question>
      <type>multipleChoiceQuestion</type>
      <mode>MULTI_SELECT</mode>
      <criticality>INFO</criticality>
      <requireAttachment>>false</requireAttachment>
      <requireComment>>false</requireComment>

```

```
<requireAsset>>false</requireAsset>
<text>multiselect question</text>
<label>4</label>
<answers>
  <list>
    <Answer>
      <title>1</title>
      <value>1</value>
      <scoringLabel>LOW</scoringLabel>
    </Answer>
  </list>
</answers>
<requireAttachment>>false</requireAttachment>
  <requireComment>>false</requireComment>
  <requireAsset>>false</requireAsset>
</Answer>
<Answer>
  <title>2</title>
  <value>2</value>
  <scoringLabel>MEDIUM</scoringLabel>
</Answer>
</list>
</answers>
<requireAttachment>>false</requireAttachment>
  <requireComment>>false</requireComment>
  <requireAsset>>false</requireAsset>
</Answer>
<Answer>
  <title>3</title>
  <value>3</value>
  <scoringLabel>HIGH</scoringLabel>
</Answer>
</list>
</answers>
</Question>
<Question>
  <type>multipleChoiceQuestion</type>
  <mode>EXPANDED</mode>
  <requireAttachment>>false</requireAttachment>
  <requireComment>>false</requireComment>
  <requireAsset>>false</requireAsset>
  <text>single select question</text>
  <label>5</label>
  <answers>
    <list>
      <Answer>
        <title>a</title>
        <value>0</value>
        <scoringLabel>LOW</scoringLabel>
      </Answer>
    </list>
  </answers>
</Question>
```

```

<requireAttachment>>false</requireAttachment>
    <requireComment>>false</requireComment>
    <requireAsset>>false</requireAsset>
</Answer>
<Answer>
    <title>b</title>
    <value>1</value>
    <scoringLabel>MEDIUM</scoringLabel>

<requireAttachment>>false</requireAttachment>
    <requireComment>>false</requireComment>
    <requireAsset>>false</requireAsset>
</Answer>
<Answer>
    <title>c</title>
    <value>2</value>
    <scoringLabel>HIGH</scoringLabel>

<requireAttachment>>false</requireAttachment>
    <requireComment>>false</requireComment>
    <requireAsset>>false</requireAsset>
</Answer>
</list>
</answers>
</Question>
<Question>
    <type>dateQuestion</type>
    <requireAttachment>>false</requireAttachment>
    <requireComment>>false</requireComment>
    <requireAsset>>false</requireAsset>
    <text>date question</text>
    <label>6</label>
</Question>
<Question>
    <type>numericQuestion</type>
    <requireAttachment>>false</requireAttachment>
    <requireComment>>false</requireComment>
    <requireAsset>>false</requireAsset>
    <text>numeric question</text>
    <label>7</label>
</Question>
</list>
</questions>
</Section>
<Section>
    <name>Section 2</name>
    <description>Section 2 description</description>
    <questions>

```

```

        <list>
            <Question>
                <type>numericQuestion</type>
                <requireAttachment>>false</requireAttachment>
                <requireComment>>false</requireComment>
                <requireAsset>>false</requireAsset>
                <text>Section 2 numeric question</text>
                <label>8</label>
            </Question>
        </list>
    </questions>
</Section>
</list>
</sections>
</elements>
<scorings>
    <list>
        <Scoring>
            <label>LOW</label>
            <value>0</value>
        </Scoring>
        <Scoring>
            <label>MEDIUM</label>
            <value>50</value>
        </Scoring>
        <Scoring>
            <label>HIGH</label>
            <value>100</value>
        </Scoring>
    </list>
</scorings>
</Template>
</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/saq/template.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <Template>
            <id>134621</id>
            <uuid>5d525243-8be3-4195-aebd-bcbb94cfcc23</uuid>
            <name>template-using-api</name>
            <description>template using api</description>
            <familyId>9bbb4764-66b2-4b3d-8f16-0d0dd3c8afcf</familyId>

```

```
<revision>1</revision>
<isLibrary>>false</isLibrary>
<questionCnt>9</questionCnt>
<state>DRAFT</state>
<elements>
  <sections>
    <list>
      <Section>
        <name>section 1</name>
        <description>section 1 description</description>
        <sections/>
        <questions>
          <list>
            <Question>
              <label>0</label>
              <text>text question</text>
              <type>textQuestion</type>
              <mode>SIDE_BY_SIDE</mode>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
          <requireAsset>>false</requireAsset>
        </Question>
        <Question>
          <label>1</label>
          <text>formatted question</text>
          <type>textQuestion</type>
          <mode>SIDE_BY_SIDE</mode>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
          <requireAsset>>false</requireAsset>
        </Question>
        <Question>
          <label>2</label>
          <text>drop down question</text>
          <type>multipleChoiceQuestion</type>
          <mode>COMPACT</mode>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
          <requireAsset>>false</requireAsset>
        <answers/>
        </Question>
        <Question>
          <label>3</label>
```

```

        <text>boolean question</text>
        <type>booleanQuestion</type>
        <mode>BUTTON</mode>
        <criticality>INFO</criticality>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
        <requireAsset>>false</requireAsset>

<yesScoringLabel>MEDIUM</yesScoringLabel>
        <noScoringLabel>LOW</noScoringLabel>
    </Question>
    <Question>
        <label>4</label>
        <text>multiselect question</text>
        <type>multipleChoiceQuestion</type>
        <mode>MULTI_SELECT</mode>
        <criticality>INFO</criticality>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
        <requireAsset>>false</requireAsset>
        <answers>
            <list>
                <Answer>
                    <title>1</title>
                    <value>1</value>

<scoringLabel>LOW</scoringLabel>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>

<requireAsset>>false</requireAsset>
                </Answer>
                <Answer>
                    <title>2</title>
                    <value>2</value>

<scoringLabel>MEDIUM</scoringLabel>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>

<requireAsset>>false</requireAsset>
```

```

</Answer>
<Answer>
  <title>3</title>
  <value>3</value>

<scoringLabel>HIGH</scoringLabel>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>

<requireAsset>>false</requireAsset>
  </Answer>
</list>
</answers>
</Question>
<Question>
  <label>5</label>
  <text>single select question</text>
  <type>multipleChoiceQuestion</type>
  <mode>FULL</mode>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
  <requireAsset>>false</requireAsset>
  <answers>
    <list>
      <Answer>
        <title>a</title>
        <value>0</value>

<scoringLabel>LOW</scoringLabel>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>

<requireAsset>>false</requireAsset>
  </Answer>
<Answer>
  <title>b</title>
  <value>1</value>

<scoringLabel>MEDIUM</scoringLabel>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
```

```

<requireAsset>>false</requireAsset>
                                </Answer>
                                <Answer>
                                    <title>c</title>
                                    <value>2</value>

<scoringLabel>HIGH</scoringLabel>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>

<requireAsset>>false</requireAsset>
                                </Answer>
                                </list>
                                </answers>
                                </Question>
                                <Question>
                                    <label>6</label>
                                    <text>date question</text>
                                    <type>dateQuestion</type>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
                                <requireAsset>>false</requireAsset>
                                </Question>
                                <Question>
                                    <label>7</label>
                                    <text>numeric question</text>
                                    <type>numericQuestion</type>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>
                                <requireAsset>>false</requireAsset>
                                </Question>
                                </list>
                                </questions>
                                </Section>
                                <Section>
                                    <name>Section 2</name>
                                    <description>Section 2 description</description>
                                    <sections/>
                                    <questions>
                                        <list>
                                            <Question>
                                                <label>8</label>

```



```

question</text>
<type>numericQuestion</type>
<requireAttachment>>false</requireAttachment>
<requireComment>>false</requireComment>
<requireAsset>>false</requireAsset>
</Question>
</list>
</questions>
</Section>
</list>
</sections>
<questions/>
</elements>
<scorings>
<list>
<Scoring>
<label>LOW</label>
<value>0</value>
</Scoring>
<Scoring>
<label>MEDIUM</label>
<value>50</value>
</Scoring>
<Scoring>
<label>HIGH</label>
<value>100</value>
</Scoring>
</list>
</scorings>
</Template>
</data>
</ServiceResponse>

```

## Sample 2 - Get Template

Retrieve a template with given identifier and return record details.

### API request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "GET"
"https://qualysapi.qualys.com/qps/rest/1.0/get/saq/template/82969"

```

### XML output:

```

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

```

```
<responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
  <Template>
    <id>82969</id>
    <uuid>5d9e0a22-14ff-4961-b0f0-a663c3b7f2f3</uuid>
    <name>template-from-api-with-scoring</name>
    <description>template containing scoring fields created from
      the api</description>
    <familyId>75120987-737d-4157-9b3f-d0c2229d8c1d</familyId>
    <revision>1</revision>
    <isLibrary>>false</isLibrary>
    <questionCnt>5</questionCnt>
    <state>DRAFT</state>
    <elements>
      <sections>
        <list>
          <Section>
            <name>section 1</name>
            <description>section 1 description</description>
            <sections/>
            <questions>
              <list>
                <Question>
                  <label>0</label>
                  <text>Question 0</text>
                  <type>booleanQuestion</type>
                  <mode>BUTTON</mode>
                  <criticality>CRITICAL</criticality>

                  <requireAttachment>>false</requireAttachment>

                  <requireComment>>false</requireComment>
                  <requireAsset>>false</requireAsset>

                  <yesScoringLabel>HIGH</yesScoringLabel>

                  <noScoringLabel>MEDIUM</noScoringLabel>
                </Question>
                <Question>
                  <label>1</label>
                  <text>QUESTION 1</text>
                  <type>booleanQuestion</type>
                  <mode>BUTTON</mode>
                  <criticality>CRITICAL</criticality>

                  <requireAttachment>>false</requireAttachment>

                  <requireComment>>false</requireComment>
              </list>
            </questions>
          </Section>
        </list>
      </sections>
    </elements>
  </Template>
</data>
```

```
<requireAsset>>false</requireAsset>

<yesScoringLabel>HIGH</yesScoringLabel>

<noScoringLabel>MEDIUM</noScoringLabel>
</Question>
<Question>
  <label>2</label>
  <text>QUESTION 2</text>
  <type>multipleChoiceQuestion</type>
  <mode>MULTI_SELECT</mode>
  <criticality>INFO</criticality>

<requireAttachment>>false</requireAttachment>

  <requireComment>>false</requireComment>
  <requireAsset>>false</requireAsset>
  <answers>
    <list>
      <Answer>
        <title>choice 0</title>
        <value>0</value>

<requireAttachment>>false</requireAttachment>

  <requireComment>>false</requireComment>

  <requireAsset>>false</requireAsset>
  </Answer>
  <Answer>
    <title>choice 1</title>
    <value>1</value>

  <scoringLabel>MEDIUM</scoringLabel>

<requireAttachment>>false</requireAttachment>

  <requireComment>>false</requireComment>

  <requireAsset>>false</requireAsset>
  </Answer>
  <Answer>
    <title>choice 2</title>
    <value>2</value>

  <scoringLabel>HIGH</scoringLabel>

<requireAttachment>>false</requireAttachment>
```

```
<requireComment>>false</requireComment>

    <requireAsset>>false</requireAsset>
    </Answer>
  </list>
</answers>
</Question>
</list>
</questions>
</Section>
<Section>
  <name>section 2</name>
  <description>section 2 description</description>
  <sections/>
  <questions>
    <list>
      <Question>
        <label>3</label>
        <text>QUESTION 3</text>
        <type>multipleChoiceQuestion</type>
        <mode>MULTI_SELECT</mode>
        <criticality>INFO</criticality>

<requireAttachment>>false</requireAttachment>

        <requireComment>>false</requireComment>
        <requireAsset>>false</requireAsset>
        <answers>
          <list>
            <Answer>
              <title>a</title>
              <value>0</value>

              <scoringLabel>LOW</scoringLabel>

<requireAttachment>>false</requireAttachment>

          <requireComment>>false</requireComment>

          <requireAsset>>false</requireAsset>
          </Answer>
          <Answer>
            <title>b</title>
            <value>1</value>

            <scoringLabel>MEDIUM</scoringLabel>

<requireAttachment>>false</requireAttachment>
```

```
<requireComment>>false</requireComment>

    <requireAsset>>false</requireAsset>
    </Answer>
    <Answer>
        <title>c</title>
        <value>2</value>

    <scoringLabel>HIGH</scoringLabel>

<requireAttachment>>false</requireAttachment>

<requireComment>>false</requireComment>

    <requireAsset>>false</requireAsset>
    </Answer>
    </list>
    </answers>
    </Question>
</list>
</questions>
</Section>
</list>
</sections>
<questions>
    <list>
        <Question>
            <label>4</label>
            <text>QUESTION 4</text>
            <type>booleanQuestion</type>
            <mode>BUTTON</mode>
            <criticality>INFO</criticality>
            <requireAttachment>>false</requireAttachment>
            <requireComment>>false</requireComment>
            <requireAsset>>false</requireAsset>
            <yesScoringLabel>MEDIUM</yesScoringLabel>
            <noScoringLabel>LOW</noScoringLabel>
        </Question>
    </list>
</questions>
</elements>
<scorings>
    <list>
        <Scoring>
            <label>LOW</label>
            <value>0</value>
        </Scoring>
        <Scoring>
            <label>MEDIUM</label>
```

```
        <value>50</value>
      </Scoring>
    <Scoring>
      <label>HIGH</label>
      <value>100</value>
    </Scoring>
  </list>
</scorings>
</Template>
</data>
</ServiceResponse>
```

## WAS - Burp API: Support for Latest Burp version

API affected	qps/rest/3.0/import/was/burp
New or Updated APIs	Updated
DTD or XSD changes	Yes

We now support import of the latest version of Burp 1.7.24 for Burp API. You can now successfully import Burp files that belong to version 1.7.24.

### Import Burp API

#### API request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/import/was/burp" < file.xml
```

Note: "file.xml" contains the request POST data.

#### Request POST data (file.xml):

```
<ServiceRequest>
  <data>
    <webAppId>1052902</webAppId>
    <purgeResults>>false</purgeResults>
    <closeUnreportedIssues>>false</closeUnreportedIssues>
    <fileName>testBurpReportImport1</fileName>
    <burpXml>
      <?xml version="1.0"?>
      <!DOCTYPE issues [
        <!ELEMENT issues (issue*)>
        <!ATTLIST issues burpVersion CDATA "">
        <!ATTLIST issues exportTime CDATA "">
        <!ELEMENT issue (serialNumber, type, name, host, path,
location, severity, confidence, issueBackground?, remediationBackground?,
references?, vulnerabilityClassifications?, issueDetail?,
issueDetailItems?, remediationDetail?, requestresponse*,
collaboratorEvent*, infiltratorEvent*)>
        <!ELEMENT serialNumber (#PCDATA)>
        <!ELEMENT type (#PCDATA)>
        <!ELEMENT name (#PCDATA)>
        <!ELEMENT host (#PCDATA)>
        <!ATTLIST host ip CDATA "">
        <!ELEMENT path (#PCDATA)>
        <!ELEMENT location (#PCDATA)>
        <!ELEMENT severity (#PCDATA)>
        <!ELEMENT confidence (#PCDATA)>
        <!ELEMENT issueBackground (#PCDATA)>
        <!ELEMENT remediationBackground (#PCDATA)>
```

```
<!ELEMENT references (#PCDATA)>
<!ELEMENT vulnerabilityClassifications (#PCDATA)>
<!ELEMENT issueDetail (#PCDATA)>
<!ELEMENT issueDetailItems (issueDetailItem*)>
<!ELEMENT issueDetailItem (#PCDATA)>
<!ELEMENT remediationDetail (#PCDATA)>
<!ELEMENT requestresponse (request?, response?,
  responseRedirected?)>
<!ELEMENT request (#PCDATA)>
<!ATTLIST request method CDATA "">
<!ATTLIST request base64 (true|false) "false">
<!ELEMENT response (#PCDATA)>
<!ATTLIST response base64 (true|false) "false">
<!ELEMENT responseRedirected (#PCDATA)>
<!ELEMENT sender (#PCDATA)>
<!ELEMENT message (#PCDATA)>
<!ELEMENT conversation (#PCDATA)>
<!ELEMENT recipient (#PCDATA)>
<!ELEMENT recipients (recipient*)>
<!ELEMENT smtp (sender, recipients, message, conversation)>
<!ELEMENT collaboratorEvent (interactionType, originIp, time,
  lookupType?, lookupHost?, requestresponse?, smtp?)>
<!ELEMENT interactionType (#PCDATA)>
<!ELEMENT originIp (#PCDATA)>
<!ELEMENT time (#PCDATA)>
<!ELEMENT lookupType (#PCDATA)>
<!ELEMENT lookupHost (#PCDATA)>
<!ELEMENT infiltratorEvent (parameterName, platform, signature,
  stackTrace?, parameterValue?, collaboratorEvent)>
<!ELEMENT parameterName (#PCDATA)>
<!ELEMENT platform (#PCDATA)>
<!ELEMENT signature (#PCDATA)>
<!ELEMENT stackTrace (#PCDATA)>
<!ELEMENT parameterValue (#PCDATA)>
]>
<issues burpVersion="1.7.24" exportTime="Mon Jul 24 11:55:19
  IST 2017">
  <issue>
    <serialNumber>1246676712248028160</serialNumber>
    <type>16777728</type>
    <name>
      <![CDATA[Unencrypted communications]]>
    </name>
    <host ip="127.0.0.1">http://localhost:9999</host>
    <path>
      <![CDATA[[]]]>
    </path>
    <location>
      <![CDATA[[]]]>
    </location>
  </issue>
</issues>
```



```
</location>
<severity>Low</severity>
<confidence>Certain</confidence>
<issueBackground>
  <![CDATA[<p>The application allows users to connect
to it over unencrypted connections. An attacker suitably positioned to
view a legitimate user's network traffic could record and monitor their
interactions with the application and obtain any information the user
supplies. Furthermore, an attacker able to modify traffic could use the
application as a platform for attacks against its users and third-party
websites. Unencrypted connections have been exploited by ISPs and
governments to track users, and to inject adverts and malicious
JavaScript. Due to these concerns, web browser vendors are planning to
visually flag unencrypted connections as hazardous.</p>
<p>
  To exploit this vulnerability, an attacker must be suitably
positioned to eavesdrop on the victim's network traffic. This scenario
typically occurs when a client communicates with the server over an
insecure connection such as public Wi-Fi, or a corporate or home network
that is shared with a compromised computer. Common defenses such as
switched networks are not sufficient to prevent this. An attacker situated
in the user's ISP or the application's hosting infrastructure could also
perform this attack. Note that an advanced adversary could potentially
target any connection made over the Internet's core infrastructure.
</p>
  <p>Please note that using a mixture of encrypted and
unencrypted communications is an ineffective defense against active
attackers, because they can easily remove references to encrypted
resources when these references are transmitted over an unencrypted
connection.</p>]]>
</issueBackground>
<remediationBackground>
  <![CDATA[<p>Applications should use transport-level
encryption (SSL/TLS) to protect all communications passing between the
client and the server. The Strict-Transport-Security HTTP header should be
used to ensure that clients refuse to access the server over an insecure
connection.</p>]]>
</remediationBackground>
<references>
  <![CDATA[<ul>
    <li><a href="https://www.chromium.org/Home/chromium-
security/marking-http-as-non-secure">Marking HTTP as non-secure</a></li>
    <li><a
href="https://wiki.mozilla.org/Security/Server_Side_TLS">Configuring
Server-Side SSL/TLS</a></li>
    <li><a href="https://developer.mozilla.org/en-
US/docs/Web/Security/HTTP_strict_transport_security">HTTP Strict
Transport Security</a></li>
  </ul>]]>
```

```
</references>
<vulnerabilityClassifications>
  <![CDATA[<ul>
    <li><a
href="https://cwe.mitre.org/data/definitions/326.html">CWE-326:
Inadequate Encryption Strength</a></li>
  </ul>]]>
</vulnerabilityClassifications>
</issue>
<issue>
  <serialNumber>1246676712248028160</serialNumber>
  <type>1049088</type>
  <name>
    <![CDATA[SQL injection]]>
  </name>
  <host ip="127.0.0.1">http://localhost:9999</host>
  <path>
    <![CDATA[ ]]>
  </path>
  <location>
    <![CDATA[ ]]>
  </location>
  <severity>Low</severity>
  <confidence>Certain</confidence>
  <issueBackground>
    <![CDATA[<p>The application allows users to connect
to it over unencrypted connections. An attacker suitably positioned to
view a legitimate user's network traffic could record and monitor their
interactions with the application and obtain any information the user
supplies. Furthermore, an attacker able to modify traffic could use the
application as a platform for attacks against its users and third-party
websites. Unencrypted connections have been exploited by ISPs and
governments to track users, and to inject adverts and malicious
JavaScript. Due to these concerns, web browser vendors are planning to
visually flag unencrypted connections as hazardous.</p>
<p>
To exploit this vulnerability, an attacker must be suitably
positioned to eavesdrop on the victim's network traffic. This scenario
typically occurs when a client communicates with the server over an
insecure connection such as public Wi-Fi, or a corporate or home network
that is shared with a compromised computer. Common defenses such as
switched networks are not sufficient to prevent this. An attacker situated
in the user's ISP or the application's hosting infrastructure could also
perform this attack. Note that an advanced adversary could potentially
target any connection made over the Internet's core infrastructure.
</p>
<p>Please note that using a mixture of encrypted and
unencrypted communications is an ineffective defense against active
attackers, because they can easily remove references to encrypted
```

resources when these references are transmitted over an unencrypted connection.</p>]]>

```
</issueBackground>
<remediationBackground>
  <![CDATA[<p>Applications should use transport-level
encryption (SSL/TLS) to protect all communications passing between the
client and the server. The Strict-Transport-Security HTTP header should be
used to ensure that clients refuse to access the server over an insecure
connection.</p>]]>
</remediationBackground>
<references>
  <![CDATA[<ul>
    <li><a href="https://www.chromium.org/Home/chromium-
security/marking-http-as-non-secure">Marking HTTP as non-secure</a></li>
    <li><a
href="https://wiki.mozilla.org/Security/Server_Side_TLS">Configuring
Server-Side SSL/TLS</a></li>
    <li><a href="https://developer.mozilla.org/en-
US/docs/Web/Security/HTTP_strict_transport_security">HTTP Strict
Transport Security</a></li>
  </ul>]]>
</references>
<vulnerabilityClassifications>
  <![CDATA[<ul>
    <li><a
href="https://cwe.mitre.org/data/definitions/326.html">CWE-326:
Inadequate Encryption Strength</a></li>
  </ul>]]>
</vulnerabilityClassifications>
<issueDetail>
  <![CDATA[The base-uri content directive does not
fallback to default-src, if          no content sources are explicitly set
it will default to completely          open.]]>
</issueDetail>
<issueDetailItems>
  <issueDetailItem>IssueDetailItem1</issueDetailItem>
  <issueDetailItem>IssueDetailItem2</issueDetailItem>
</issueDetailItems>
<remediationDetail>
  <![CDATA[Explicitly set a base-uri directive in
your content policy.]]>
</remediationDetail>
<requestresponse>
  <request method="GET" base64="true">
```

```
<![CDATA[R0VUIC8gSFRUUC8xLjENCkhvc3Q6IGxvY2FsaG9zdDo5OTk5DQpVc2VyLUFnZW50
OibN3ppbGxhLzUuMCAoTWFjaW50b3NoOyBJbnRlbCBNYWNgTlMgWCAxMC4xMjsgcnY6NTIuM
CkgR2Vja28vMjAxMDAxMDEgRmlyZWZveC81Mi4wDQpBY2NlchQ6IHRleHQvaHRtbCcxhcHBSaW
NhdGlvbi94aHRtbCt4bWw5YXBwbGljYXRpb24veG1sO3E9MCA45LCovKjtxPTAuOA0KQWNjZXB
```





```
        </recipients>
        <message>message</message>
        <conversation>conversation</conversation>
    </smtp>
</collaboratorEvent>
<collaboratorEvent>
    <interactionType>HTTP</interactionType>
    <originIp>114.143.178.26</originIp>
    <time>2017-Jul-24 06:24:02 UTC</time>
    <requestresponse>
        <request method="GET" base64="true">

<![CDATA[R0VUIC8gSFRUUC8xLjENCmFjY2VwdDogKi8qDQplc2VyLWFnZW50OiBOZWVkbGUv
MS42LjAgKE5vZGUuanMgdjguMi4xOyBkYXJ3aW4geDY0KQ0KaG9zdDogYm0xNG9wOGw3MzUyN
3g3OWQ0M3Y5anhbjJ0dGhsNWNzMmdyLmJlcnBjb2xsYWJvcnF0b3IubmV0DQpDb25uZWNOaW
9uOiBjbG9zZQ0KDQo=]]>

        </request>
        <response base64="true">

<![CDATA[SFRUUC8xLjEgMjAwIE9LDQpTZXJ2ZXI6IEJlcnAgQ29sbGFib3JhdG9yIGh0dHBz
Oi8vYnVycGNvbGxhYm9yYXRvci5uZXQvDQpYLUNvbGxhYm9yYXRvcilWZXJzaW9uOiAzDQpDb
250ZW50LVR5cGU6IHRleHQvaHRtbA0KQ29udGVudC1MZW5ndGg6IDU5DQoNCjxodG1sPjxib2
R5Pmx1ZGNvcnFxcnVuczR5bmlqeWdna2l6ampna2dqZmlne jwvYm9ket48L2h0bWw+ ]]>
        </response>
        <responseRedirected>>false</responseRedirected>
    </requestresponse>
</collaboratorEvent>
<infiltratorEvent>
    <parameterName>parameterName1</parameterName>
    <platform>platform1</platform>
    <signature>signature1</signature>
    <stackTrace>stackTrace1</stackTrace>
    <parameterValue>parameterValue1</parameterValue>
    <collaboratorEvent>
        <interactionType>HTTP</interactionType>
        <originIp>114.143.178.26</originIp>
        <time>2017-Jul-24 06:24:02 UTC</time>
        <requestresponse>
            <request method="GET" base64="true">

<![CDATA[R0VUIC8gSFRUUC8xLjENCmFjY2VwdDogKi8qDQplc2VyLWFnZW50OiBOZWVkbGUv
MS42LjAgKE5vZGUuanMgdjguMi4xOyBkYXJ3aW4geDY0KQ0KaG9zdDogYm0xNG9wOGw3MzUyN
3g3OWQ0M3Y5anhbjJ0dGhsNWNzMmdyLmJlcnBjb2xsYWJvcnF0b3IubmV0DQpDb25uZWNOaW
9uOiBjbG9zZQ0KDQo=]]>

            </request>
            <response base64="true">

<![CDATA[SFRUUC8xLjEgMjAwIE9LDQpTZXJ2ZXI6IEJlcnAgQ29sbGFib3JhdG9yIGh0dHBz
Oi8vYnVycGNvbGxhYm9yYXRvci5uZXQvDQpYLUNvbGxhYm9yYXRvcilWZXJzaW9uOiAzDQpDb
250ZW50LVR5cGU6IHRleHQvaHRtbA0KQ29udGVudC1MZW5ndGg6IDU5DQoNCjxodG1sPjxib2
R5Pmx1ZGNvcnFxcnVuczR5bmlqeWdna2l6ampna2dqZmlne jwvYm9ket48L2h0bWw+ ]]>

            </request>
            <response base64="true">

<![CDATA[SFRUUC8xLjEgMjAwIE9LDQpTZXJ2ZXI6IEJlcnAgQ29sbGFib3JhdG9yIGh0dHBz
Oi8vYnVycGNvbGxhYm9yYXRvci5uZXQvDQpYLUNvbGxhYm9yYXRvcilWZXJzaW9uOiAzDQpDb
250ZW50LVR5cGU6IHRleHQvaHRtbA0KQ29udGVudC1MZW5ndGg6IDU5DQoNCjxodG1sPjxib2
R5Pmx1ZGNvcnFxcnVuczR5bmlqeWdna2l6ampna2dqZmlne jwvYm9ket48L2h0bWw+ ]]>

            </request>
            <response base64="true">
```

```
250ZW50LVR5cGU6IHR1eHQvaHRtbA0KQ29udGVudC1MZW5ndGg6IDU5DQoNCjxodG1sPjxib2
R5Pmx1ZGNvcnFxcnVuczR5bmlqeWdna2l6ampna2dqZmlne jwvYm9keT48L2h0bWw+ ] ]>
</response>
```

```
<responseRedirected>>false</responseRedirected>
  </requestresponse>
    </collaboratorEvent>
  </infiltratorEvent>
<infiltratorEvent>
  <parameterName>parameterName2</parameterName>
  <platform>platform2</platform>
  <signature>signature2</signature>
  <stackTrace>stackTrace2</stackTrace>
  <parameterValue>parameterValue2</parameterValue>
  <collaboratorEvent>
    <interactionType>HTTP</interactionType>
    <originIp>114.143.178.26</originIp>
    <time>2017-Jul-24 06:24:02 UTC</time>
    <requestresponse>
      <request method="GET" base64="true">
```

```
<![CDATA[R0VUIC8gSFRUUC8xLjENCmFjY2VwdDogKi8qDQplc2VyLWFnZW50OiBOZVWkbGUV
MS42LjAgKE5vZGUuanMgdjguMi4xOyBkYXJ3aW4geDY0KQ0KaG9zdDogYm0xNG9wOGw3MzUyN
3g3OWQ0M3Y5anhbjJ0dGhsNWNzMmduLmJlcnBjb2xsYWJvcnF0b3IubmV0DQpDb25uZW50aW
9uOiBjbG9zZQ0KDQo= ] ]>
  </request>
  <response base64="true">
```

```
<![CDATA[SFRUUC8xLjEgMjAwIE9LDQpTZXJ2ZXI6IEJlcnAgQ29sbG9yIGh0dHBz
Oi8vYnVycGNvbGxhYm9yYXRvci5uZXQvDQpYLUNvbGxhYm9yYXRvci1WZXJzaW9uOiAzDQpDb
250ZW50LVR5cGU6IHR1eHQvaHRtbA0KQ29udGVudC1MZW5ndGg6IDU5DQoNCjxodG1sPjxib2
R5Pmx1ZGNvcnFxcnVuczR5bmlqeWdna2l6ampna2dqZmlne jwvYm9keT48L2h0bWw+ ] ]>
  </response>
```

```
<responseRedirected>>false</responseRedirected>
  </requestresponse>
    </collaboratorEvent>
  </infiltratorEvent>
  </issue>
</issues>
</burpXml>
</data>
</ServiceRequest>
```

XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/w
as/burp.xsd">
```

```
<responseCode>SUCCESS</responseCode>
<count>1</count>
<data>
  <Burp>
    <id>17008</id>
    <webApp>
      <id>1052902</id>
      <name><![CDATA[Web application 1517980001004]]>
      </name>
      <url>
<![CDATA[http://testexample.com/cassium/xss/]]>
      </url>
    </webApp>
    <issuesCount>1</issuesCount>
    <issues burpVersion="1.7.24" exportTime="Mon Jul 24 09:55:19
UTC 2017">
      <issue>
        <id>17002</id>
        <serialNumber>1246676712248028160</serialNumber>
      </issue>
    </issues>
    <fileName>testBurpReportImport1</fileName>
    <errorRecords>
      <count>1</count>
      <list>
        <ErrorRecord>
          <serialNumber>1246676712248028160</serialNumber>
          <type>16777728</type>
          <name>
            Unencrypted communications
          </name>
          <errorCode>UNKNOWN_ISSUE_TYPE</errorCode>
          <errorMessage>[Customer 182821] [Record
1246676712248028160] BURP Finding Type could not be found in
BURP_FINDING_TYPE table: &apos;16777728&apos;;, report:
&apos;testBurpReportImport1&apos;. Table needs to be updated. Skipping
record.</errorMessage>
        </ErrorRecord>
      </list>
    </errorRecords>
  </Burp>
</data>
</ServiceResponse>
```



## XSD update (burp.xsd)

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

<schema xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://was.oxm.api.portal.qualys.com/v3"
...
<complexType name="Burp">
  <sequence>
    <element name="id" type="long" minOccurs="0" />
    <element name="webApp" type="Q1:WebApp" minOccurs="0"/>
    <element name="purgeResults" type="boolean" minOccurs="0" />
    <element name="closeUnreportedIssues" type="boolean"
minOccurs="0" />
    <element name="issuesCount" type="long" minOccurs="0" />
    <element name="issues" type="Q1:Issues" minOccurs="0" />
    <element name="fileName" type="string" minOccurs="0" />
    <element name="fileData" type="string" minOccurs="0" />
    <element name="errorRecords" type="qcommon:QList"
minOccurs="0" />
  </sequence>
</complexType>

...
</schema>
```

## WAS - Option Profile API: Enhancements to Detections

API affected	qps/rest/3.0/create/was/optionprofile qps/rest/3.0/update/was/optionprofile/<id>
New or Updated APIs	Updated
DTD or XSD changes	Yes

We have now introduced a new detection categories and enhanced the scope of detection in Option Profile API. You can now create option profile and associate pre-defined detection categories with Option Profile.

Element	Description
detectionCategory={Keyword}	<p>We now support the following new detection categories in your option profile:</p> <ul style="list-style-type: none"> <li>---CMS identification (type, version, and plugins)</li> <li>---Apache vulnerabilities (Struts &amp; other)</li> <li>--- XSS</li> <li>---XSS, in request header</li> <li>---SQL Injection</li> <li>---SQL Injection, in request header</li> <li>---Clickjacking</li> <li>---Authentication &amp; Session Management</li> <li>---Information Disclosure</li> <li>---Path-Related vulnerabilities</li> <li>---Cross-Site Request Forgery</li> <li>---Open Redirect</li> <li>---XML External Entity (XXE) vulnerabilities</li> <li>---Miscellaneous</li> <li>---Denial of Service</li> <li>---Flash-Related vulnerabilities</li> </ul> <p>Note: &lt;detectionCategories&gt; is mutually exclusive with &lt;includedSearchLists&gt; and &lt;excludedSearchLists&gt;.</p>

Qualys WAS API User Guide will be provided at the time of release. This guide has complete details and samples to help you with using the WAS Option Profile API v2.

## Create Option Profile

### API request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/optionprofile/" <
file.xml
```

Note: "file.xml" contains the request POST data.

### Request POST data (file.xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <OptionProfile>
      <name>sample option profile with detection catagory</name>
      <detection>
        <detectionCategories>
          <set>
            <DetectionCategory>
              <name>Denial of Service</name>
            </DetectionCategory>
          </set>
        </detectionCategories>
      </detection>
    </OptionProfile>
  </data>
</ServiceRequest>
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd
/3.0/was/optionprofile.xsd">
<responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <count>1</count>
    <data>
      <OptionProfile>
        <id>305785</id>
        <name>
          <![CDATA[Sample option profile with detection category]]>
        </name>
        <owner>
          <id>2501086</id>
          <username>user_john</username>
          <firstName><![CDATA[John]]></firstName>
          <lastName><![CDATA[Doe]]></lastName>
        </owner>
      </OptionProfile>
    </data>
  </data>
</ServiceResponse>
```

```
</owner>
...
<detecation>
  <detectionCategories>
    <count>1</count>
    <set>
      <DetectionCategory>
        <id>154</id>
        <name>Denial of Service</name>
      </DetectionCategory>
    </set>
  </detectionCategories>
</detecation>
<comments>
  <count>0</count>
</comments>
...
</OptionProfile>
</data>
</ServiceResponse>
```

## Update Option Profile

### API request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/optionprofile/83226
5669" < file.xml
```

Note: "file.xml" contains the request POST data.

### Request POST data (file.xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <OptionProfile>
      <detection>
        <detectionCategories>
          <remove>
            <DetectionCategory>
              <name>Denial of Service</name>
            </DetectionCategory>
          </remove>
          <add>
            <DetectionCategory>
              <name>SQL Injection</name>
            </DetectionCategory>
          </add>
        </detectionCategories>
```

```
        </detection>
    </OptionProfile>
</data>
</ServiceRequest>
```

#### XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd
/3.0/was/optionprofile.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>305786</id>
    </OptionProfile>
  </data>
</ServiceResponse>
```

### Get details of Option Profile (GET)

#### API request:

```
curl -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/optionprofile/63283"
```

#### XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/3.0/wa
s/optionprofile.xsd">
<responseCode>SUCCESS</responseCode>">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <OptionProfile>
      <id>63283</id>
      <name><![CDATA[NewCategories]]></name>
      <owner>
        <id>337590</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <isDefault>>false</isDefault>
      ...
    <detection>
      <detectionCategories>
        <count>7</count>
```

```

    <set>
      <DetectionCategory>
        <id>172</id>
        <name>Authentication & Session
Management</name>
      </DetectionCategory>
      <DetectionCategory>
        <id>167</id>
        <name>XSS</name>
      </DetectionCategory>
      <DetectionCategory>
        <id>166</id>
        <name>Apache vulnerabilities (Struts &
other)</name>
      </DetectionCategory>
      <DetectionCategory>
        <id>179</id>
        <name>Denial of Service</name>
      </DetectionCategory>
      <DetectionCategory>
        <id>178</id>
        <name>Miscellaneous</name>
      </DetectionCategory>
      <DetectionCategory>
        <id>173</id>
        <name>Information Disclosure</name>
      </DetectionCategory>
      <DetectionCategory>
        <id>168</id>
        <name>XSS, in request header</name>
      </DetectionCategory>
    </set>
  </detectionCategories>
</detection>
.....
</updatedBy>
</OptionProfile>
</data>
</ServiceResponse>
```

## XSD update (burp.xsd)

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
...
<xs:sequence>
<xs:element name="detectionCategories" type="DetectionCategoryList"
minOccurs="0"/>
<xs:element name="includedSearchLists" type="SearchListlist"
minOccurs="0"/>
...
        </xs:element>
        <xs:element name="remove" minOccurs="0" >
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="SearchList" type="SearchList"
maxOccurs="unbounded"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
...
    <xs:complexType name="DetectionCategory">
        <xs:sequence>
            <xs:element name="id" type="xs:long" minOccurs="0"
maxOccurs="1" />
            <xs:element name="name" type="xs:string" maxOccurs="1" />
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="DetectionCategoryList">
        <xs:all>
            <xs:element name="count" type="xs:int" minOccurs="0"/>
            <xs:element name="list" minOccurs="0" >
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="DetectionCategory"
type="DetectionCategory" minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="set" minOccurs="0" >
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="DetectionCategory"
type="DetectionCategory" maxOccurs="unbounded"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:all>
    </xs:complexType>

```

```
<xs:element name="add" minOccurs="0" >
  <xs:complexType>
    <xs:sequence>
      <xs:element name="DetectionCategory"
type="DetectionCategory" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="remove" minOccurs="0" >
  <xs:complexType>
    <xs:sequence>
      <xs:element name="DetectionCategory"
type="DetectionCategory" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:all>
</xs:complexType>
</xs:schema>
```



## CA - NOT EQUALS operator disabled during uninstall

APIs affected	/qps/rest/2.0/uninstall/am/hostasset /qps/rest/2.0/uninstall/am/asset
New or Updated APIs	Updated
DTD or XSD changes	No

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

### API request:

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

Note: "file.xml" contains the request POST data.

### Request POST data:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <filters>  
    <Criteria field="tagName" operator="NOT EQUALS">Cloud Agent</Criteria>  
    <Criteria field="tagId" operator="LESSER">200000000</Criteria>  
  </filters>  
</ServiceRequest>
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0/am  
/asset.xsd">  
  <responseCode>INVALID_REQUEST</responseCode>  
  <responseErrorDetails>  
    <errorMessage>Criteria: Operator NOT_EQUALS is not allowed on  
    tagName field for UNINSTALL operation.</errorMessage>  
    <errorResolution>Please use one of the Operators:  
    CONTAINS,EQUALS.</errorResolution>  
  </responseErrorDetails>  
</ServiceResponse>
```

**XSD Update: None**

## WAF - New criteria for searching assets

APIs affected	/qps/rest/2.0/search/waf/webapp /qps/rest/2.0/search/waf/webserver /qps/rest/2.0/search/waf/healthcheck /qps/rest/2.0/search/waf/certificate /qps/rest/2.0/search/waf/custompage /qps/rest/2.0/search/waf/securitypolicy /qps/rest/2.0/search/waf/httpprofile /qps/rest/2.0/search/waf/customrule /qps/rest/2.0/search/waf/cluster
New or Updated APIs	Updated
DTD or XSD changes	Yes

You can now search WAF assets using the following criteria.:

Element	Description
createdBy.id	(Long) The user ID who created the web app asset.
createdBy.username	(Text) The user name who created the web app asset.
createdBy.firstname	(Text) The first name of the user who created the web app asset.
createdBy.lastname	(Text) The last name of the user who created the web app asset.
updatedBy.id	(Long) The user ID who last updated the web app asset.
updatedBy.username	(Text) The user name who last updated the web app asset.
updatedBy.firstname	(Text) The first name of the user who updated the web app asset.
updatedBy.lastname	(Text) The last name of the user who updated the web app asset.
webApps.webApp.id	(Long) The ID of the Web Application this web app asset is associated with.
webApps.webApp.uuid	(UUID) The UUID of the Web Application this web app asset is associated with.
webApps.webApp.name	(Text) The name of the Web Application this web app asset is associated with.

Among the new search criteria listed above the following are not available for Web Applications API and Custom Rules API:

- webApps.webApp.id
- webApps.webApp.uuid
- webApps.webApp.name

None of the new search criteria are applicable for the Appliance API.

#### API request:

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

Note: "file.xml" contains the request POST data.

#### Request POST data:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceRequest>  
  <filters>  
    <Criteria field="webApps.webApp.name" operator="EQUALS">Web  
      Application 1</Criteria>  
  </filters>  
</ServiceRequest>
```

#### XML output:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
  xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0/w  
  af/httpprofile.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <hasMoreRecords>>false</hasMoreRecords>  
  <data>  
    <HTTPProfile>  
      <id>1001</id>  
      <uuid>e8c9677b-224a-4d71-a9a0-5d3b727f4b0b</uuid>  
      <name><![CDATA[Standard Protocol]]></name>  
      <owner>  
        <id>3988442</id>  
        <username>#SYSTEM-USER#@Qualys_240865</username>  
        <firstname>SYSTEM</firstname>  
        <lastname>USER</lastname>  
      </owner>  
      <created>2017-09-13T17:16:32Z</created>  
      <createdBy>  
        <id>3988442</id>  
        <username>#SYSTEM-USER#@Qualys_240865</username>
```

```
        <firstname>SYSTEM</firstname>
        <lastname>USER</lastname>
    </createdBy>
    <updated>2017-09-13T17:16:32Z</updated>
    <system>true</system>
    <requestMethod>
        <allowAll>
            <detectInvalid>>false</detectInvalid>
            <detectTraceTrack>>false</detectTraceTrack>
        </allowAll>
    </requestMethod>
    <requestHeader>
        <detectInvalid>>false</detectInvalid>
        <detectRepeated>>false</detectRepeated>
        <detectChunked>>false</detectChunked>
    </requestHeader>
    <requestContentType>
        <allowAll>
            <detectFileUploads>>false</detectFileUploads>
        </allowAll>
    </requestContentType>
    <detectProtocolAnomalies>>false</detectProtocolAnomalies>
    <serverCloaking>
        <enabled>>false</enabled>
    </serverCloaking>
    <suppressSensitiveHeaders>>false</suppressSensitiveHeaders>
    <onErrorMessages>LOG</onErrorMessages>
    <onSensitiveFileTypes>LOG</onSensitiveFileTypes>
    <onSensitiveFileExtensions>LOG</onSensitiveFileExtensions>
    <cookieProtection>
        <type>NONE</type>
    </cookieProtection>

<discourageContentTypeSniffing>>false</discourageContentTypeSniffing>
    <forceDefaultContentType>
        <enabled>>false</enabled>
    </forceDefaultContentType>
    <forceDefaultCharacterEncoding>
        <type>NONE</type>
    </forceDefaultCharacterEncoding>
    <contentSecurityPolicyHeader>
        <enabled>>false</enabled>
    </contentSecurityPolicyHeader>
    <discourageClickjacking>NONE</discourageClickjacking>
    <browserXSSProtection>DISABLE</browserXSSProtection>
    <webApps>
        <WebApp>
            <id>63116473</id>
            <uuid>17340fd0-8f44-4f96-b975-d52521ff094d</uuid>
```

```

        <name><![CDATA[Web Application 1]]></name>
    </WebApp>
</webApps>
</HTTPProfile>
</data>
</ServiceResponse>

```

## XSD update

The following XSDs are updated:

Name	URL
Web Servers XSD	/qps/xsd/2.0/waf/webserver.xsd
Healthchecks XSD	/qps/xsd/2.0/waf/healthcheck.xsd
SSL Certificates XSD	/qps/xsd/2.0/waf/certificate.xsd
Custom Response Pages XSD	/qps/xsd/2.0/waf/custompage.xsd
Security Policies XSD	/qps/xsd/2.0/waf/securitypolicy.xsd
HTTP Profiles XSD	/qps/xsd/2.0/waf/httpprofile.xsd
WAF Clusters XSD	/qps/xsd/2.0/waf/cluster.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
    <!-- REQUEST -->
    <xs:complexType name="Certificate">
        <xs:sequence>
            <xs:element name="id" type="xs:long" minOccurs="0"/>
            <xs:element name="name" type="Cdata" minOccurs="0" />
            <xs:element name="token" type="Cdata" minOccurs="0" />
            <xs:element name="certificateMetadata" type="Cdata"
                minOccurs="0" />
            <xs:element name="chainMetadata" type="Cdata" minOccurs="0" />
            ...
        <xs:element name="webApps" minOccurs="0">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="WebApp" maxOccurs="unbounded">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element name="id" type="xs:long" />
                                <xs:element name="uuid" type="Uuid" />
                                <xs:element name="name" type="Cdata" />
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>

```

```
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
...
</xs:sequence>
</xs:complexType>
</xs:schema>
```

## WAF - Add timeout for a Web Server

APIs affected	/qps/rest/2.0/get/waf/webapp/<id> /qps/rest/2.0/search/waf/webapp /qps/rest/2.0/create/waf/webapp /qps/rest/2.0/update/waf/webapp/
New or Updated APIs	Updated
DTD or XSD changes	Yes

A new parameter is introduced to specify the server timeout in the Web App APIs mentioned above.

Element	Description
webServerTimeout	(Long) Server Timeout is the maximum time to wait for an HTTP connection attempt to a server to succeed. If the HTTP request does not respond before the duration set, it will timeout and return an HTTP 503 error code. Specify a timeout period between 1 second to 3600 seconds. Default value is 60 seconds.

### Sample API call for creating a Web application

#### API request:

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

Note: "file.xml" contains the request POST data.

#### Request POST data:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WebApp>
      <name>Site created by API</name>
      <url>http://site01.xfuentes-docker</url>
      <webServer><id>1001</id></webServer>
      <webServerTimeout>90</webServerTimeout>
      <securityPolicy><id>30682</id></securityPolicy>
      <httpProfile><id>1001</id></httpProfile>
    </WebApp>
  </data>
</ServiceRequest>
```

XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0/waf/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>63098473</id>
      <uuid>6ecd55d8-5431-4114-ba11-90b020576f37</uuid>
      <name>
        <![CDATA[Site created by API]]>
      </name>
      <owner>
        <id>3988443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </owner>
      <created>2017-06-01T09:22:47Z</created>
      <createdBy>
        <id>3988443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </createdBy>
      <updated>2017-06-01T09:22:47Z</updated>
      <updatedBy>
        <id>3988443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </updatedBy>
      <url>http://site01.xfuentes-docker</url>
      <urls/>
      <webServer>
        <id>1001</id>
        <uuid>315cc797-3c73-4721-ba42-263e7e7b6cbb</uuid>
        <name>
          <![CDATA[First Pool]]>
        </name>
      </webServer>
      <webServerTimeout>90</webServerTimeout>
      <persistenceEnabled>>false</persistenceEnabled>
      <blockingMode>>false</blockingMode>
      <securityPolicy>
        <id>30682</id>
        <uuid>6c56416a-66ff-4016-b16f-da2cec2e97f3</uuid>
```



```

        <name>
            <![CDATA[Standard Policy]]>
        </name>
    </securityPolicy>
    <httpProfile>
        <id>1001</id>
        <uuid>341bcf25-c9fa-45ff-ac63-728e38056443</uuid>
        <name>
            <![CDATA[Standard Protocol]]>
        </name>
    </httpProfile>
    <scanTrustEnabled>>false</scanTrustEnabled>
    <status>DOWN</status>
    <sslEnabled>>false</sslEnabled>
    <deploymentStatus>PENDING_DEPLOY</deploymentStatus>
    <deployed>2017-06-01T09:22:47Z</deployed>
</WebApp>
</data>
</ServiceResponse>

```

## XSD Update:

The Web Applications XSD is updated to include the new element for server timeout (/qps/xsd/2.0/waf/webapp.xsd).

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
    <!-- REQUEST -->
    <xs:element name="ServiceRequest">
    ...
    <xs:complexType name="WebApp">
        <xs:sequence>
            <xs:element name="id" type="xs:long" minOccurs="0" />
            <xs:element name="name" type="Cdata" minOccurs="0" />
            ...
            <xs:element name="webServerTimeout" type="xs:long"
                minOccurs="0"/>
            <xs:element name="persistencyEnabled" type="xs:boolean"
                default="false" minOccurs="0" />
            <xs:element name="persistencyToken" type="Cdata" minOccurs="0"/>
            <xs:element name="healthcheck" minOccurs="0">
            ...
        </xs:sequence>
    </xs:complexType>
</xs:schema>

```

## WAF - Deployment status and date in cluster API

APIs affected	<code>/qps/rest/2.0/get/waf/cluster/&lt;id&gt;</code> <code>/qps/rest/2.0/search/waf/cluster</code>
New or Updated APIs	Updated
DTD or XSD changes	Yes

You can now search WAF assets using the following criteria:

Element	Description
deploymentStatus	(Text) Deployment Status information: SUCCESS (Configuration deployment was successful on all appliances in a cluster) PENDING_DEPLOY (Configuration deployment has been requested but not yet started) FAILURE (Configuration deployment has failed on all appliances in a cluster) PARTIAL (Configuration deployment was successful on some appliances but failed on other appliances in a cluster) IN_PROGRESS (Configuration deployment is in progress on all appliances in a cluster) UNUSED (Web application is not deployed on any WAF cluster, or the Web application is deployed on a cluster having no appliances registered to it)
deployed	(Date) The last deployment date of the cluster.

### API request:

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

Note: "file.xml" contains the request POST data.

### Request POST data:

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

XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0/waf/cluster.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>>false</hasMoreRecords>
  <data>
    <Cluster>
      <id>25401</id>
      <uuid>7de38215-a9e3-4855-8566-d9b369a92756</uuid>
      <name><![CDATA[Site1]]></name>
      <description><![CDATA[Manage all Appliances from
Site1]]></description>
      <errorResponse>
        <redirect>
          <url>https://www.domain.com/resturl.html</url>
          <status>302</status>
        </redirect>
      </errorResponse>
      <owner>
        <id>3989443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </owner>
      <created>2017-07-25T09:35:01Z</created>
      <createdBy>
        <id>3989443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </createdBy>
      <updated>2017-07-25T10:11:13Z</updated>
      <updatedBy>
        <id>3989442</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </updatedBy>
      <token><![CDATA[C190F3A8-08FA-46DD-BB16-EB14ECC47606]]></token>
      <syncDate>2017-07-25T10:52:30Z</syncDate>
      <status>DEGRADED</status>
      <deploymentStatus>SUCCESS</deploymentStatus>
      <deployed>2017-10-23T09:22:34Z</deployed>
      <appliances>
        <Appliance>
          <id>15802</id>
```

```

        <uuid>580c5d0f-b80b-452d-a345-0ee1526fe88f</uuid>
        <name><![CDATA[580C5D0F-B80B-452D-A345-0EE1526FE88F]]></name>
    </Appliance>
    <Appliance>
        <id>15803</id>
        <uuid>6c5844e9-86f5-418e-90d5-b0201123bf13</uuid>
        <name><![CDATA[6C5844E9-86F5-418E-90D5-B0201123BF13]]></name>
    </Appliance>
</appliances>
<tags>
    <Tag>
        <id>10256057</id>
        <name><![CDATA[KIDS]]></name>
    </Tag>
</tags>
</Cluster>
</data>
</ServiceResponse>
<tags>
    <Tag>
        <id>7530430</id>
        <name><![CDATA[Cloud Agent]]></name>
    </Tag>
</tags>
<description><![CDATA[Cluster description added]]></description>
<redirectUrl>http://mydomain.com</redirectUrl>
<httpErrorCode>302</httpErrorCode>
</Cluster>
</data>
</ServiceResponse>

```

## XSD Update:

The WAF Clusters XSD is updated to include the new elements for deploymentStatus and deployed (/qps/xsd/2.0/waf/cluster.xsd).

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <!-- REQUEST -->
  <xs:element name="ServiceRequest">
    <xs:complexType>
      <xs:all>
        <xs:element name="filters" type="ServiceRequestFilters"
          minOccurs="0" />
        <xs:element name="preferences"
          type="ServiceRequestPreferences" minOccurs="0" />
        <xs:element name="data" type="ServiceRequestData"

```

```

        minOccurs="0" />
    </xs:all>
</xs:complexType>
</xs:element>
...
<!-- DATA -->
<xs:simpleType name="Uuid">
    <xs:restriction base="xs:string">
        <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-
F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}" />
    </xs:restriction>
</xs:simpleType>
...
<xs:simpleType name="DeploymentStatus">
    <xs:restriction base="xs:string">
        <xs:enumeration value="SUCCESS" />
        <xs:enumeration value="PENDING_DEPLOY" />
        <xs:enumeration value="FAILURE" />
        <xs:enumeration value="PARTIAL" />
        <xs:enumeration value="IN_PROGRESS" />
        <xs:enumeration value="UNUSED" />
    </xs:restriction>
</xs:simpleType>

<xs:complexType name="Cluster">
    <xs:sequence>
...
        <xs:element name="updatedBy" type="User" minOccurs="0" />
        <xs:element name="token" type="Cdata" minOccurs="0" />
        <xs:element name="syncDate" type="xs:dateTime" minOccurs="0" />
        <xs:element name="status" type="ClusterStatus" minOccurs="0" />
        <xs:element name="deploymentStatus" type="DeploymentStatus"
            minOccurs="0" />
        <xs:element name="deployed" type="xs:dateTime" minOccurs="0" />
        ...
    </xs:sequence>
</xs:complexType>
</xs:schema>

```

## WAF - Display custom page for custom rule

APIs affected	/qps/rest/2.0/create/waf/customrule /qps/rest/2.0/update/waf/customrule
New or Updated APIs	Updated
DTD or XSD changes	Yes

You can now display a custom page if events match a specific condition in a rule. Add the custom page inside the action element of the service request. You can provide the ID, UUID, or the name of the custom page to be associated.

Ensure that you create the custom page before you can provide it in the custom rule API.

### API request:

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

Note: "file.xml" contains the request POST data.

### Request POST data:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <CustomRule>
      <name>Custom Rule 1</name>
      <description>rule description</description>
      <conditions>
        <RuleCondition>
          <subject>request.body.parameter</subject>
          <key>blague</key>
          <operator>EQUAL</operator>
          <value>toto</value>
        </RuleCondition>
      </conditions>
      <action>
        <log>>true</log>
        <customPage>
          <name>first custom page</name>
        </customPage>
      </action>
    </CustomRule>
  </data>
</ServiceRequest>
```

XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0/waf/customrule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <CustomRule>
      <id>7002</id>
      <uuid>d04bd280-e84b-43a4-96a0-05538c593f8f</uuid>
      <name>
        <![CDATA[Custom Rule 1]]>
      </name>
      <description>
        <![CDATA[rule description]]>
      </description>
      <owner>
        <id>3988443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </owner>
      <created>2018-01-25T10:56:57Z</created>
      <createdBy>
        <id>3988443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </createdBy>
      <updated>2018-01-25T10:56:57Z</updated>
      <updatedBy>
        <id>3988443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </updatedBy>
      <conditions>
        <RuleCondition>
          <subject>
            <![CDATA[request.body.parameter]]>
          </subject>
          <key>
            <![CDATA[blague]]>
          </key>
          <operator>EQUAL</operator>
          <value>
            <![CDATA[toto]]>
          </value>
        </RuleCondition>
      </conditions>
    </CustomRule>
  </data>
</ServiceResponse>
```

```

        </RuleCondition>
    </conditions>
    <action>
        <log>true</log>
        <customPage>
            <id>1401</id>
            <uuid>245b51e6-1fdf-41a1-b350-
                3b7f9c7e76ac</uuid>
            <name>
                <![CDATA[first custom page]]>
            </name>
        </customPage>
    </action>
</CustomRule>
</data>
</ServiceResponse>

```

## XSD Update:

The WAF Custom Rules XSD is updated to include the new elements for custom pages (/qps/xsd/2.0/waf/customrule.xsd).

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified">
    ...
    <!-- DATA -->
    ...
    <xs:complexType name="CustomRule">
        <xs:sequence>
            <xs:element name="id" type="xs:long" minOccurs="0" />
            <xs:element name="uuid" type="Uuid" minOccurs="0" />
            <xs:element name="action" minOccurs="0">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="log" type="xs:boolean"
                            minOccurs="0" />
                        <xs:choice>
                            <xs:sequence>
                                <xs:element name="allow" minOccurs="1"
                                    type="Empty" />
                            </xs:sequence>
                            <xs:sequence>
                                <xs:element name="block" minOccurs="1"
                                    type="Empty" />
                            </xs:sequence>
                            <xs:sequence>
                                <xs:element name="redirect" minOccurs="1"

```



```
        type="Empty" />
      <xs:element name="code" minOccurs="1">
        <xs:simpleType>
          <xs:restriction base="xs:int">
            <xs:enumeration value="301" />
            <xs:enumeration value="302" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="url" type="HttpUrl"
        minOccurs="1" />
    </xs:sequence>
  <xs:sequence>
    <xs:element name="customPage">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="id"
            type="xs:long" minOccurs="0" />
          <xs:element name="uuid"
            type="Uuid" minOccurs="0" />
          <xs:element name="name"
            type="Cdata" minOccurs="0" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:choice>
</xs:sequence>
</xs:complexType>
</xs:element>
...
</xs:sequence>
</xs:complexType>
</xs:schema>
```

## WAF - Add trusted proxies for a Cluster

APIs affected	/qps/rest/2.0/get/waf/cluster/<id> /qps/rest/2.0/search/waf/cluster /qps/rest/2.0/create/waf/cluster /qps/rest/2.0/update/waf/cluster/
New or Updated APIs	Updated
DTD or XSD changes	Yes

A new parameter is introduced to specify IP addresses of trusted proxies or load balancers in the Cluster APIs mentioned above.

Element	Description
trustedIPs.string	(Text) Provide the IP address/range/network of trusted proxies or load balancers configured in full-proxy mode. If the request is not from a trusted source the X-Forwarded-For header values are automatically discarded. Enter an IP address between 1.0.0.0 - 223.255.255.254 excluding 127.x.x.x. Optionally, you can provide a range for the IP address between 1 - 32. For example, 1 . 2 . 3 . 6 / 23

### Sample API call for creating a Cluster

#### API request:

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

Note: "file.xml" contains the request POST data.

#### Request POST data:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Cluster>
      <name>New cluster</name>
      <description>Manage all Appliances from new cluster</description>
      <errorResponse>
        <redirect>
          <url>https://www.domain.com/resturl.html</url>
          <status>302</status>
        </redirect>
      </errorResponse>
      <trustedIPs>
```

```
        <string>1.2.3.5</string>
        <string>1.2.3.6/23</string>
    </trustedIPs>
</Cluster>
</data>
</ServiceRequest>
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/qps/xsd/2.0/waf/cluster.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Cluster>
      <id>25401</id>
      <uuid>7de38215-a9e3-4855-8566-d9b369a92756</uuid>
      <name><![CDATA[New cluster]]></name>
      <description><![CDATA[Manage all Appliances from new
cluster]]></description>
      <errorResponse>
        <redirect>
          <url>https://www.domain.com/resturl.html</url>
          <status>302</status>
        </redirect>
      </errorResponse>
      <trustedIPs>
        <string>1.2.3.5</string>
        <string>1.2.3.6/23</string>
      </trustedIPs>
      <owner>
        <id>3989443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </owner>
      <created>2017-07-25T09:35:01Z</created>
      <createdBy>
        <id>3989443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
        <lastname>Doe</lastname>
      </createdBy>
      <updated>2017-07-25T09:35:01Z</updated>
      <updatedBy>
        <id>3989443</id>
        <username>john_doe</username>
        <firstname>John</firstname>
```

```

        <lastname>Doe</lastname>
    </updatedBy>
    <token><![CDATA[ C190F3A8-08FA-46DD-BB16-EB14ECC47606 ]]></token>
    <status>NO_SENSORS</status>
    <deploymentStatus>FAILURE</deploymentStatus>
    <deployed>2017-05-31T12:15:14Z</deployed>
</Cluster>
</data>
</ServiceResponse>

```

## XSD Update:

The Clusters XSD is updated to include the new element for trusted IPs (/qps/xsd/2.0/waf/cluster.xsd).

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
    <!-- REQUEST -->
    <xs:element name="ServiceRequest">
        <xs:complexType>
            <xs:all>
                <xs:element name="filters" type="ServiceRequestFilters"
                    minOccurs="0" />
                <xs:element name="preferences"
                    type="ServiceRequestPreferences" minOccurs="0" />
                <xs:element name="data" type="ServiceRequestData"
                    minOccurs="0" />
            </xs:all>
        </xs:complexType>
    </xs:element>
    ...
    <!-- DATA -->
    ...
    <xs:simpleType name="TrustedIP">
        <xs:restriction base="xs:string">
            <xs:pattern value="((1?[0-9]?[0-9]|2[0-4][0-9]|25[0-
5]).){3}(1?[0-9]?[0-9]|2[0-4][0-9]|25[0-5])/([1-9]|1[0-9]|2[0-9]|3[0-
2]))?"/>
        </xs:restriction>
    </xs:simpleType>
    ...
    <xs:element name="trustedIPs" minOccurs="0">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="string" type="TrustedIP"
                    minOccurs="0" maxOccurs="unbounded" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>

```

```
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    ...
  </xs:sequence>
</xs:complexType>
</xs:schema>
```

## AWS Asset Data Connector API - Support for EU (Paris) Region

API affected	/qps/rest/2.0/create/awsassetdataconnector /qps/rest/2.0/update/awsassetdataconnector
New or Updated API	Updated
DTD or XSD changes	No

Now you can easily scan EC2 instances included in the AWS EU (Paris) region for vulnerabilities and policy compliance using the Qualys Cloud Platform using the AWS region code “eu-west-3”. You can create/update EC2 connectors to pull instance info from the China region, activate discovered instances for the VM, PC or SCA module, and scan them using our EC2 scan workflow.

### Example

#### API request:

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

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

#### Request POST data (file.xml):

```
<?xml version="1.0" encoding="UTF-8" ?>
<ServiceRequest>
  <data>
    <AwsAssetDataConnector>
      <name>cn-north-1-conn1</name>
      <authRecord>
        <id>132601</id>
      </authRecord>
      <endpoints>
        <add>
          <AwsEndpointSimple>
            <regionCode>eu-west-3</regionCode>
          </AwsEndpointSimple>
        </add>
      </endpoints>
      <isChinaConfigured>>false</isChinaConfigured>
      <disabled>>false</disabled>
    </AwsAssetDataConnector>
  </data>
</ServiceRequest>
```

XML output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/2.0/a
m/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AwsAssetDataConnector>
      <id>136605</id>
      <name>eu-west-3-conn1</name>
      <connectorState>QUEUED</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list/>
      </defaultTags>
      <activation>
        <list/>
      </activation>
      <disabled>>false</disabled>
      <isGovCloudConfigured>>false</isGovCloudConfigured>
      <isChinaConfigured>>false</isChinaConfigured>
      <authRecord>
        <id>132601</id>
        <name>paris-auth</name>
      </authRecord>
      <endpoints>
        <list>
          <AwsEndpointSimple>
            <regionCode>eu-west-3</regionCode>
          </AwsEndpointSimple>
        </list>
      </endpoints>
      <allRegions>>false</allRegions>
    </AwsAssetDataConnector>
  </data>
</ServiceResponse>
```

**XSD update: None**