



Qualys Cloud Platform v3.x

API Release Notes

Version 3.7

July 8, 2021 (Updated July 9, 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

[WAS API: Added Support for Scanning Swagger/OpenAPI file](#)

[WAS API: Added Support for Scanning Postman Collection files](#)

[WAS API: Added Support for Parameters in Selenium Script for Authentication](#)

[AM API: Change of Behavior for Deleting Assets](#)

[AM API: Added Support for Succeeded State for Azure Instances](#)

[AM API: Added Support for Calculating Asset Criticality](#)

[CA API: Ability to Download Installer Binaries](#)

Qualys API Server URL

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.

Qualys Cloud Platform 3.7 brings you many more API improvements and updates!

[Issues Addressed](#)

WAS API: Added Support for Scanning Swagger/OpenAPI file

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

With this release, you can now scan Swagger-based REST APIs for vulnerabilities. To scan the API, you need to specify the content of the Swagger/OpenAPI file in YAML or JSON format in the new parameter “swaggerFile” when creating or updating a web application. Note that we support scanning single API at a time.

For scanning Swagger-based REST APIs, the web application URL should point to the Swagger file host or OpenAPI server URL as per the API definition. Before adding the file content, you must encode the file content into base64 format. It is your responsibility to verify that you have permission to scan APIs that you specify as a scan target.

To remove the API file that you added to the web application, add a blank “swaggerFile” tag in the update web application request.

Currently, we support:

- Swagger file with (2.0)/(3.0) in YAML or JSON format.
- Maximum file size limit of 5 MB before compression.

Permissions

- You must have the WAS module enabled.
- You must have “API access” and “Access WAS module” permissions.
- You must have “Create/Edit/View web application” permissions.

Sample: Get Swagger/OpenAPI details associated with a web application

API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"  
"https://qualysapi.qualys.com/rest/3.0/get/was/webapp/2797037"
```

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/webapp.xsd">  
  <responseCode>SUCCESS</responseCode>
```

```
<count>1</count>
<data>
  <WebApp>
    ....
    <crawlingScripts>
      <count>0</count>
    </crawlingScripts>
    <swaggerFile>
      <id>601</id>
      <name>ajax.yml</name>

<content>LS0tdQpzd2FnZ2VyOiAnMi4wJw0KaW5mbzoNCiAgZGVzY3JpcHRpb246IFRoaxMgaXMGyYSBzYWlwbGUgUkVTVCBhcGkgc2VydmVYLg0KICB2ZXJzaW9uOiAxLjAuMA0KICB0aXRzTogU3dhZ2dldciBxaXRoIFZlbg5lcmFiaWxpdkhKNCiAgdGVybnXNPz1NlcnZpY2U6IGh0dHA6Ly9zd2FnZ2VyLmlvL3Rlcm1zLw0KICBjb250YWN0Og0KICAgIGVtYWlsOiBjYXNhcmF3YWxhQHF1YWx5cy5jb2N0NCiAgbG1jZW5zZToNCiAgICBuYW1lOiBBcGFjaGUgMi4wDQogICAgdXJsOiBodHRwOi8vd3d3LmFwYWNoZS5vcmcvbjG1jZW5zZXMvTE1DRU5TRS0yLjAuaHRtbA0KaG9zdDogMTAuMTEuNjkuMjENCmJhc2VQYXR0eAiL0pTT04iDQp0YWdzOg0KLSBuYW1lOiBzZW5yY2gNCiAgZGVzY3JpcHRpb246IFNlYXJjaA0KICBleHRlcm5hbERvY3M6DQogICAgZGVzY3JpcHRpb246IEZpbmQgb3V0IG1vcmluNCiAgICB1cmw6IGh0dHA6Ly9zd2FnZ2VyLmlvDQotIG5hbWU6IHNlYXJjaDINCiAgZGVzY3JpcHRpb246IEFjY2VzcyB0byBQZXRzdG9yZSBvcmluNCiAgbG1jZW5zZToNCiAgICBkZXNjcmlwdG1vbG1jogT3B1cmF0aW9ucyBhYm91dCB1c2VyDQogIGV4dGVybnF5RG9jcz0NCiAgICBkZXNjcmlwdG1vbG1jogRmluZCBvdXQgbW9yZSBhYm91dCBvdXIgc3RvcmluNCiAgICB1cmw6IGh0dHA6Ly9zd2FnZ2VyLmlvDQp0Y2h1bWVzOg0KLSBodHRwDQp0YXRoczoNCiAgIi8yL2FqYXhfc2VhcmNoXzEucGhwIjoNCiAgICBwb3N0Og0KICAgICAgdGFnczoNCiAgICAgIC0gc2VhcmNoDQogICAgICBzdW1tYXJ5OjBTZW5yY2ggZm9yIGhpc3RvcnkNCiAgICAgICRlc2NyaXB0aW9uOiAnJw0KICAgICAgb3B1cmF0aW9uSWQ6IHNlYXJjaDENCiAgICAgICGNvbnN1bWVzOg0KICAgICAgLSBhcHBsaWNhdG1vbi9qc29uDQogICAgICBwcm9kdWNlczoNCiAgICAgIC0gdGV4dC9odG1sDQogICAgICBwYXJhbWV0ZXJzOg0KICAgICAgLSBpbjogYm9keQ0KICAgICAgICBuYW1lOiBib2R5DQogICAgICRlc2NyaXB0aW9uOiBTZW5yY2ggGfYyW1ldGVycw0KICAgICAgICByZXFlaXJlZDogdHJlZQ0KICAgICAgICBzY2h1bWE6DQogICAgICAgICAgIiRyZWYiOiAiIy9kZWZpbml0aW9ucy9TZWFyY2gyIG0KICAgICAgcmVzcG9uc2VzOg0KICAgICAgICAnMjAwJzoNCiAgICAgICAgICBkZXNjcmlwdG1vbG1jogU3VjY2Vzcw0KICAgICAgICAnNDElJzoNCiAgICAgICAgICBkZXNjcmlwdG1vbG1jogVW5zdXBwb3J0ZWQgbWVkaWENCiAgICAgICAgJzQyOSc6DQogICAgICAgICAgZGVzY3JpcHRpb246IFRvbyBtYjYw5IHJlcXVlc3RzDQogICAgICAgICRlZmF1bHQ6DQogICAgICAgICAgZGVzY3JpcHRpb246IERlZmF1bHQgZXJybj3IgcmluZG9uc2UNCiAgIi8yL2FqYXhfc2VhcmNoXzEucGhwIjoNCiAgICBwb3N0Og0KICAgICAgdGFnczoNCiAgICAgIC0gc2VhcmNoMg0KICAgICAgc3VtbW5yTogU2VhcmNoIGZvc0KICAgICAgb3B1cmF0aW9uSWQ6IHNlYXJjaDINCiAgICAgICGNvbnN1bWVzOg0KICAgICAgLSBhcHBsaWNhdG1vbi9qc29uDQogICAgICBwcm9kdWNlczoNCiAgICAgIC0gdGV4dC9odG1sDQogICAgICBwYXJhbWV0ZXJzOg0KICAgICAgLSBpbjogYm9keQ0KICAgICAgICBuYW1lOiBib2R5DQogICAgICRlc2NyaXB0aW9uOiBTZW5yY2ggGfYyW1ldGVycw0KICAgICAgICByZXFlaXJlZDogdHJlZQ0KICAgICAgICBzY2h1bWE6DQogICAgICAgICAgIiRyZWYiOiAiIy9kZWZpbml0aW9ucy9TZWFyY2gyIG0KICAgICAgcmVzcG9uc2VzOg0KICAgICAgICAnMjAwJzoNCiAgICAgICAgICBkZXNjcmlwdG1vbG1jogU3VjY2Vzcw0KICAgICAgICAnNDElJzoNCiAgICAgICAgICBkZXNjcmlwdG1vbG1jogVW5zdXBwb3J0ZWQgbWVkaWENCiAgICAgICAgJzQyOSc6DQogICAgICAgICAgZGVzY3JpcHRpb246IFRvbyBtYjYw5IHJlcXVlc3RzDQogICAgICAgICRlZmF1bHQ6DQogICAgICAgICAgZGVzY3JpcHRpb246IERlZmF1bHQgZXJybj3IgcmluZG9uc2UNCmRlZmluaXRpb25zOg0KICBTZW5yY2ggOg0KICAgIHR5cGU6IG9iamV
```

```
jdA0KICAgIHByb3BlcnRpZXM6DQogICAgICBsaW1pdDoNCiAgICAgICAgdHlwZTogaW50ZWd  
lcg0KICAgICAgICBmb3JtYXQ6IGludDY0DQogICAgICAgIG1heG1tdW06IDIwMDANCiAgICA  
gICAgbWluaW11bTogMTANCiAgICAgIG9yZGVyOg0KICAgICAgICB0eXB1OiBzdHJpbmcNCiA  
gICAgICAgZW51bToNCiAgICAgICAgLSBhc2MNCiAgICAgICAgLSBkZXNjDQogICAgICB0ZXJ  
tOg0KICAgICAgICB0eXB1OiBzdHJpbmcNCiAgICAgICAgbWluTGluZ3RoOiAxXQogICAgICA  
gIG1heExlbmd0aDogMjANCiAgICAgICAgcGF0dGVybjogIlthLXpBLVowLTLlfxSINCiAgU2V  
hcmNoMj0NCiAgICB0eXB1OiBvYmplY3QNCiAgICBwcm9wZXJ0aWVzOg0KICAgICAgbG1taXQ  
yOg0KICAgICAgICB0eXB1OiBpbmRlZ2VyDQogICAgICAgIGZvcmlhdDogaW50NjQNCiAgICA  
gICAgbWF4aW11bTogMjAwMA0KICAgICAgICBtaW5pbXVtOiAxMA0KICAgICAgb3JkZXIyOg0  
KICAgICAgICB0eXB1OiBzdHJpbmcNCiAgICAgICAgZW51bToNCiAgICAgICAgLSBhc2MNCiA  
gICAgICAgLSBkZXNjDQogICAgICB0ZXJtMj0NCiAgICAgICAgdHlwZTogaW50NjQogICAgICA  
gICAgIG1pbkxlbmd0aDogMQ0KICAgICAgICBtYXhMZW5ndGg6IDIwDQogICAgICAgIHhhdHR  
lcm46ICJbYS16QS1aMC05X10iDQogICAgICBvZmZzZXQyOg0KICAgICAgICB0eXB1OiBpbmR  
lZ2VyDQogICAgICAgIGZvcmlhdDogaW50NjQNCiAgICAgICAgbWF4aW11bTogMjAwODI0Nz  
yDQogICAgICAgIG1pbmltdW06IDENCmV4dGVybmFsRG9jcz0NCiAgZGVzY3JpcHRpb246IEZ  
pbmQgb3V0IGlvcmlvYmVudXQgU3dhZ2dlcg0KICB1cmw6IGh0dHA6Ly9zd2FnZ2VyLmlvDQo  
=</content>  
    <fileSize>2909</fileSize>  
  </swaggerFile>  
</WebApp>  
</data>  
</ServiceResponse>
```

Sample: Create a web application with Swagger/OpenAPI file

Let us associate an API file with a web application. The web application URL should point to the Swagger file host or OpenAPI server URL as per the API definition. You must encode the API file content into base64 format.

API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST" --  
data-binary @-  
"https://qualysapi.qualys.com/rest/3.0/create/was/webapp/" < file.xml  
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<ServiceRequest>  
  <data>  
    <WebApp>  
      <name><![CDATA[My Web Application]]></name>  
      <url><![CDATA[http://mywebapp.com]]></url>  
      <swaggerFile>  
        <name>ajax.yml</name>  
  
<content>LS0tdQpzd2FnZ2VyOiAnMi4wJw0KaW5mbzoNCiAgZGVzY3JpcHRpb246IFRoaxM  
gaXMgYSBzYW1wbGUgUkVTVCBhcGkge2VydmVyLg0KICB2ZXJzaW9uOiAxLjAuMA0KICB0aXR  
sZTogU3dhZ2dlciBkZXRoIFZ1bG51cmFiaWxpdkh0NCiAgdGVybmFsXNPZ1NlcnZpY2U6IGh0dHA  
6Ly9zd2FnZ2VyLmlvL3Rlcm1zLW0KICBjb250YWN0Og0KICAgIGVtYWlsOiBjYXNhc2F3YWx
```

hQHF1YwX5cy5jb20NCiAgBGljZW5zZT0NCiAgICBuYW11OiBBcGFjaGUgMi4wDQogICAgdXJ
sOiBodHRWoi8vd3d3LmFwYWN0ZS5vcmcvbg1jZW5zZXMtTElDRU5TRS0yLjAuaHRtbA0KaG9
zdDogMTAuMTEuNjkuMjENCmJhc2VQYXR0OiAiL0pTT04iDQp0YWdzOg0KLSBuYW11OiBzZW
yY2gNCiAgZGVzY3JpcHRpb246IEFNlYXJjaA0KICBleHRlcm5hbErvY3M6DQogICAgZGVzY3J
pcHRpb246IEZpbmQqb3V0IGlvcmluZC0KICB1cmw6IGh0dHA6Ly9zd2FnZ2VyLmlvdQotIG5
hbWU6IHNL1YXJjaDINCiAgZGVzY3JpcHRpb246IEFjY2VzcyB0byBQZXRzdG9yZSBvcmluZC
NCi0gZmFtZTogdXNlcg0KICBkZXNjcmlwdGlvbjogT3BlcmF0aW9ucyBhYm91dCB1c2VyDQo
gIGV4dGVybWFrRG9jcz0NCiAgICBkZXNjcmlwdGlvbjogRmluZC0KICB1cmw6IGh0dHA6Ly9zd2FnZ2VyLmlvdQpZ2h1bWVzOg0KLSBodHR
vdXJgc3RvcmluZC0KICB1cmw6IGh0dHA6Ly9zd2FnZ2VyLmlvdQpZ2h1bWVzOg0KLSBodHR
wDQpwYXRoczoNCiAgIi8yL2FqYXhfc2VhcmNoXzEucGhwIj0NCiAgICBwb3N0Og0KICAgICA
gdGFnczoNCiAgICAgIC0gc2VhcmNoDQogICAgICBzdW1tYXJ5Oj0KICAgICAgICAgICAgICAgIC
vcnkNCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC
NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
kdWNlczoNCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
pbjogYm9keQ0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
yY2ggcGFyYW1ldGVycw0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
6DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
zcw0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gbWVkaWENCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
5IHJlcXVlc3RzDQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
lZmF1bHQgZXJyY3JgcmluZC0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
wb3N0Og0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
hcmNoIGZvcjBoaXN0b3J5Mg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
vbnN1bWVzOg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
ldGVycw0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
ICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
zDQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
yb3JgcmluZC0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
jda0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
lCg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
tOg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gIG1heExlbmd0aDogMjANCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
hcmNoMj0NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
yOg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
lcm46ICJbYS16QS1aMC05X10iDQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
lZ2VyDQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg
yDQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg

```
pbmQgb3V0IG1vcuUgYwJvdXQgU3dhZ2d1cg0KICB1cmw6IGh0dHA6Ly9zd2FnZ2VyLmlvDQo
=</content>
  </swaggerFile>
</WebApp>
</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/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>87452</id>
      <name>
        <![CDATA[My Web Application]]>
      </name>
      <url>
        <![CDATA[http://mywebapp.com]]>
      </url>
      ...
      < crawlingScripts>
        <count>0</count>
      </crawlingScripts>
      <swaggerFile>
        <id>601</id>
        <name>ajax.yml</name>
      </swaggerFile>
    </WebApp>
  </data>
</ServiceResponse>
```


API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --  
data-binary @-  
"https://qualysapi.qualys.com/rest/3.0/update/was/webapp/87453" <  
file.xml  
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<ServiceRequest>  
  <data>  
    <WebApp>  
      <swaggerFile/>  
    </WebApp>  
  </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/webapp.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <WebApp>  
      <id>87453</id>  
    </WebApp>  
  </data>  
</ServiceResponse>
```

Updated XSD

<platform API server>/qps/xsd/3.0/was/webapp.xsd

We added the element "swaggerFile" in the XSD.

```
...  
    </xs:element>  
    <xs:element name="useSitemap" type="xs:boolean" default="false"  
minOccurs="0"/>  
    <xs:element name="headers" type="WebAppHeaderList"  
minOccurs="0"/>  
    <xs:element name="malwareMonitoring" type="xs:boolean"  
minOccurs="0"/>  
    <xs:element name="malwareNotification" type="xs:boolean"  
minOccurs="0"/>  
    <xs:element name="malwareTaskId" type="xs:long" minOccurs="0"/>
```



```
        <xs:element name="malwareScheduling"
type="SchedulePlanification" minOccurs="0"/>
        <xs:element name="tags" type="TagList" minOccurs="0"/>
        <xs:element name="comments" type="CommentList" minOccurs="0"/>
        <xs:element name="isScheduled" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="lastScan" type="WasScan" minOccurs="0"/>
        <xs:element name="createdBy" type="User" minOccurs="0"/>
        <xs:element name="createdDate" type="xs:dateTime"
minOccurs="0"/>
        <xs:element name="updatedBy" type="User" minOccurs="0"/>
        <xs:element name="updatedDate" type="xs:dateTime"
minOccurs="0"/>
        <xs:element name="screenshot" type="Cdata" minOccurs="0"/>
        <xs:element name="proxy" type="HttpProxy" minOccurs="0"/>
        <xs:element name="config" type="WebAppConfig" minOccurs="0"/>
        <xs:element name="crawlingScripts" type="CrawlingScriptList"
minOccurs="0"/>
        <xs:element name="lastScanStatus" type="WasLastScanStatus"
minOccurs="0"/>
        <xs:element name="removeFromSubscription" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="reactivateIfExists" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="postmanCollection"
type="WasPostmanCollection" minOccurs="0"/>
        <xs:element name="swaggerFile" type="FileData" minOccurs="0"/>
...

```

WAS API: Added Support for Scanning Postman Collection files

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

With this release, we now support scanning Postman Collection file from API. We have added new parameters to specify 1) Postman Collection File, 2) Postman Environment Variables File, and 3) Postman Global variables File when creating or updating a web application. While creating the web application, the Postman Collection File is a mandatory parameter whereas specifying the Postman Environmental Variables and Postman Global Variables files is optional.

We added 3 new parameters: “collection” for specifying Postman Collection File content, “environmentVariable” for specifying Postman Environment Variables File, and “globalVariable” for specifying Global Variables File. All these 3 tags are part of the “postmanCollection” tag.

Note that before adding the file content, you must encode the file content into base64 format.

You can remove the 3 files. To remove,

- Postman Environment Variables File, send a blank “environmentVariable” tag.
- Postman Global Variables File, send a blank “globalVariable” tag.
- Postman Collection File, send either a blank “postmanCollection” or “collection” tag. This will also remove the variables file if added.

Permissions

- You must have the WAS module enabled.
- You must have “API access” and “Access WAS module” permissions.
- You must have “Create/Edit/View web application” permissions.
- You must have the 'ENABLE_POSTMAN_COLLECTION' option enabled for your account. If this option is not enabled, contact Qualys Support to enable this option.

Sample: Get Postman Collection file details associated with a web application

API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"  
"https://qualysapi.qualys.com/rest/3.0/get/was/webapp/87452"
```


CQkJInVyBCI6ICIXMC4xMS42OC43Mjo1MDAwL3F1YWx5cy1zd2FnZ2VyLWFwaS9hcGkvYnJl
ZWRzIiwKCQkJCSJtZXRob2QiOiAiUE9TVCIsCgkJCQkiaGVhZGVyIjogWwoJCQkJCXsKCQkJ
CQkJImtleSI6ICJBdXRob3JpemF0aW9uIiwKCQkJCQkJInZhbHVlIjogImFkbWluMTIzNDU2
IiwKCQkJCQkJImRlc2NyaXB0aW9uIjogIiIKCQkJCQl9LAoJCQkJCXsKCQkJCQkJImtleSI6
ICJDb250ZW50LVR5cGUlLAoJCQkJCQkidmFsdWUiOiAiYXBwbGljYXRpb24vanNvbiIsCgk
CQkJCSJkZXNjcmlwdGlvbiI6ICIIiCgkJCQkJfQoJCQkJXSwKCQkJCSJib2R5IjogewoJCQkJ
CSJtb2RlIjogInJhdyIsCgkJCQkJInJhdyI6ICIGelxyXG4gICAgXCJicmVlZF9uYW1lXCI6
IFwiR29sZGVuIFJldHJpZXZlclwiLFxyXG4gICAgXCJzaXplXCI6IFwibGFyZ2VcIixccclu
ICAgIFwidHlwZVwiOiBcImNvbXBhbmlvblwiLFxyXG4gICAgXCJkZXNjcmlwdGlvblwiOiBc
IkFkZGluZyBmb3VydGggdHlwZSBvZiBicmVlZFWiXHJcbiAgfSIKCQkJCJX0sCgkJCQkiZGVz
Y3JpcHRpb24iOiAiQWRkIGEGbmV3IGJyZWVkiHRvIFF1YWx5c1BlDFN0b3JlIENvbGx1Y3Rp
b24iCgkJCX0sCgkJCSJyZXNwb25zZSI6IFtdCgkJfSwKCQl7CgkJCSJuYw1lIjogIkdldCBC
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```
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ontent>
```

```
    <fileSize>4473</fileSize>  
</collection>  
<environmentVariable>  
  <id>223</id>  
  <name>QPS68-  
72EnvVariable.postman_environment.json</name>
```

```
<content>ewoJImlkIjogIjcxNTBhYjIyLWE1MDQ0tNGEzNC05MTkzLWTEzMDViOTA3YTtk5YyI  
sCgkibmFtZSI6ICJRUFM2OC03MkVudlZhcmlhYm91IiwKCXJ2YWx1ZSI6ICJodHRwOi8vMTAuMTEuNjguNzI6NTAwMC9xdWF  
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kX3VzaW5nIjogIlBvc3RtYW4vNi43LjQiCn0=</content>
```

```
    <fileSize>614</fileSize>  
</environmentVariable>  
<globalVariable>  
  <id>222</id>  
  <name>globals.postman_globals.json</name>
```

```
<content>ewogICJpZCI6ICiWNTY5YzkyYS02YzRjLWVfkdItNDI3Yi0wMDU2ZjEyMjU2NjQ  
iLAogICJuYWllIjogIlBvc3RtYW4gR2xvYmFscyIsCiAgInZhbHVlcyl6IFsKICAgIHsKICA  
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gICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC  
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iYXwzIiwKCICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC  
xOTRaIiwKCICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC  
=</content>
```

```
    <fileSize>694</fileSize>
```

```
        </globalVariable>
      </postmanCollection>
    </WebApp>
  </data>
</ServiceResponse>
```

Sample: Update a web application to remove the Environment and Global Variable files

Let us remove the content of the Environment Variable and Global Variable files that are added to the web application, by sending the blank "globalVariable" and "environmentVariable" tags.

API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --
data-binary @-
"https://qualysapi.qualys.com/rest/3.0/update/was/webapp/87453" <
file.xml
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<ServiceRequest>
  <data>
    <WebApp>
      <postmanCollection>
        <globalVariable/>
        <environmentVariable/>
      </postmanCollection>
    </WebApp>
  </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/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>87453</id>
    </WebApp>
  </data>
</ServiceResponse>
```

Sample: Update the web application to remove the Postman collection files

Let us remove the entire Postman Collection and variable files by sending the blank "postmanCollection" tag.

API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --  
data-binary @-  
"https://qualysapi.qualys.com/rest/3.0/update/was/webapp/87453" <  
file.xml  
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<ServiceRequest>  
  <data>  
    <WebApp>  
      <postmanCollection/>  
    </WebApp>  
  </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/webapp.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <WebApp>  
      <id>87453</id>  
    </WebApp>  
  </data>  
</ServiceResponse>
```

Updated XSD

<platform API server>/qps/xsd/3.0/was/webapp.xsd

We added a new element <postmanCollection> in the XSD. The <postmanCollection> element contains <collection>, <environmentVariable>, and <globalVariable> elements.

```
...  
  </xs:element>  
  <xs:element name="useSitemap" type="xs:boolean" default="false"  
minOccurs="0"/>  
  <xs:element name="headers" type="WebAppHeaderList"  
minOccurs="0"/>
```

```
        <xs:element name="malwareMonitoring" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="malwareNotification" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="malwareTaskId" type="xs:long" minOccurs="0"/>
        <xs:element name="malwareScheduling"
type="SchedulePlanification" minOccurs="0"/>
        <xs:element name="tags" type="TagList" minOccurs="0"/>
        <xs:element name="comments" type="CommentList" minOccurs="0"/>
        <xs:element name="isScheduled" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="lastScan" type="WasScan" minOccurs="0"/>
        <xs:element name="createdBy" type="User" minOccurs="0"/>
        <xs:element name="createdDate" type="xs:dateTime"
minOccurs="0"/>
        <xs:element name="updatedBy" type="User" minOccurs="0"/>
        <xs:element name="updatedDate" type="xs:dateTime"
minOccurs="0"/>
        <xs:element name="screenshot" type="Cdata" minOccurs="0"/>
        <xs:element name="proxy" type="HttpProxy" minOccurs="0"/>
        <xs:element name="config" type="WebAppConfig" minOccurs="0"/>
        <xs:element name="crawlingScripts" type="CrawlingScriptList"
minOccurs="0"/>
        <xs:element name="lastScanStatus" type="WasLastScanStatus"
minOccurs="0"/>
        <xs:element name="removeFromSubscription" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="reactivateIfExists" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="postmanCollection"
type="WasPostmanCollection" minOccurs="0"/>
        <xs:element name="swaggerFile" type="FileData" minOccurs="0"/>
...
    <xs:complexType name="WasPostmanCollection">
        <xs:all>
            <xs:element name="collection" type="FileData" minOccurs="0"/>
            <xs:element name="environmentVariable" type="FileData"
minOccurs="0"/>
            <xs:element name="globalVariable" type="FileData"
minOccurs="0"/>
        </xs:all>
    </xs:complexType>
...
```

WAS API: Added Support for Parameters in Selenium Script for Authentication

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

With this release, you can now specify username and password in the authentication record for Selenium authentication type and then use them in the Selenium script. You can use these 2 placeholders: @@authusername@@ and @@authpassword@@ inside the selenium script. The names of the placeholders are case insensitive.

During the scan, we will replace @@authusername@@ and @@authpassword@@ with the username and password that you have specified in the authentication record.

Using the placeholders in the script has several advantages. It allows 1) changing the login credentials without the need to change the selenium script, 2) credentials encryption in transit for selenium authentication, and 3) masking of credentials in scan results for selenium authentication scans.

We added a new parameter “seleniumCreds” that when set to “true” allows you to add @@authusername@@ and @@authpassword@@ inside the selenium script. If you set the parameter to “false”, then adding the placeholders in the script will return an error.

Permissions

- You must have WAS module enabled.
- You must have “API Access” and “Access WAS module” permissions.
- You must have “Create/Edit/View Authentication Record” permissions.

Sample: Create an Authentication Record and add a Selenium script with placeholders

Let us create an authentication record to add @@authusername@@ and @@authpassword@@ inside the selenium script and set the parameter “seleniumCreds” to “true” in the authentication record.

API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "POST" --  
data-binary @-  
"https://qualysapi.qualys.com/rest/3.0/create/was/webappauthrecord" <  
file.xml  
Note: "file.xml" contains the request POST data.
```

Request POST data

```
<ServiceRequest>
  <data>
    <WebAppAuthRecord>
      <name><![CDATA[My auth record]]></name>
      <formRecord>
        <type>SELENIUM</type>
        <seleniumScript>
          ...
          <tr><td>type</td><td>name=username</td>
          <td>@@authusername@@</td></tr>
          <tr><td>type</td><td>name=password</td>
          <td>@@authpassword@@</td></tr>
          ...
        </seleniumScript>
        <seleniumCreds>true</seleniumCreds>
        <fields>
          <set>
            <WebAppAuthFormRecordField>
              <name>username</name>
              <value>sp2</value>
            </WebAppAuthFormRecordField>
            <WebAppAuthFormRecordField>
              <name>password</name>
              <value>secret</value>
            </WebAppAuthFormRecordField>
          </set>
        </fields>
      </formRecord>
    </WebAppAuthRecord>
  </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/webappauthrecord.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebAppAuthRecord>
      <id>804942</id>
      <name>
        <![CDATA[My auth record]]>
      </name>
      ...
    </WebAppAuthRecord>
  </data>
</ServiceResponse>
```



```

<formRecord>
<type>SELENIUM</type>
<authVault>>false</authVault>
<seleniumCreds>>true</seleniumCreds>
<seleniumScript>
  <name>
    <![CDATA[
      My Selenium Script
    ]]>
  </name>
  <data>
    ...
  </tr>
    <td>type</td>
    <td>name=username</td>
    <td>@@authusername@@</td>
  </tr>
  <tr>
    <td>type</td>
    <td>name=password</td>
    <td>@@authpassword@@</td>
  </tr>
  ...

```

Updated XSD

<platform API server>/qps/xsd/3.0/was/webappauthrecord.xsd

We added a new element “seleniumCreds” in the 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="WebAppAuthFormRecord">
      <xs:all>
        ...
        <xs:element name="seleniumCreds" type="xs:boolean"
          default="false" minOccurs="0"/>
        <xs:element name="seleniumScript" type="SeleniumScript"
          minOccurs="0"/>
        <xs:element name="authVaultDetails" type="AuthVaultDetails"
          minOccurs="0"/>
      </xs:all>
    </xs:complexType>

```

AM API: Change of Behavior for Deleting Assets

API affected	<code>/qps/rest/2.0/delete/am/hostasset/<assetId></code> <code>/qps/rest/2.0/delete/am/asset/<assetId></code> <code>/qps/rest/2.0/delete/am/hostasset/</code> <code>/qps/rest/2.0/delete/am/asset/</code>
--------------	--

Earlier, the delete asset request did not sync into the Vulnerability Management, Policy Compliance, and Security Configuration Assessment modules. Now, the delete request will delete VM-enabled assets in an asynchronous way and hence it will take some time to delete assets across all modules. It will also take time for the changes to reflect in the API response and on the UI. This change is to ensure a consistent asset count between all modules. After this change, by default, there will be a daily purge limit of deleting 50000 assets per day. However, the daily purge limit is configurable at the platform level and might change in future.

AM API: Added Support for Succeeded State for Azure Instances

API affected	/qps/rest/2.0/get/am/hostasset/ /qps/rest/2.0/search/am/hostasset
New or Updated APIs	Updated API
DTD or XSD changes	Yes

For the Get Host Assets and Search Host Assess API calls made for Azure instances, we have now added support for the Succeeded state in the responses.

Sample: Get host asset API returns succeeded state for a host asset

The Get response for a host asset also returns the succeeded state.

API Request

```
curl -n -u "USERNAME:PASSWORD" -H "content-type: text/xml"-X "GET" --  
"https://qualysapi.qualys.com/rest/2.0/get/am/hostasset//8705528"
```

XML Output

```
<?xml version="1.0" encoding="UTF-8"?>  
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/2.0/a  
m/hostasset.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <HostAsset>  
      id>8705528</id>  
      <name>vj-por-17433-wi</name>  
      <created>2021-05-20T07:53:29Z</created>  
      <modified>2021-06-24T20:45:51Z</modified>  
      <type>HOST</type>  
      <tags>  
        <list>  
          <TagSimple>  
            <id>14243045</id>  
            <name>azure</name>  
          </TagSimple>  
          <TagSimple>  
            <id>11447393</id>  
            <name>Internet Facing Assets</name>  
          </TagSimple>  
          <TagSimple>  
            <id>13208192</id>  
            <name>ip range</name>  
          </TagSimple>  
        </list>  
      </tags>  
    </HostAsset>  
  </data>  
</ServiceResponse>
```

```
    </list>
  </tags>
  ...
    <location>eastus</location>
    <vmSize>Standard_B1s</vmSize>
    <vmId>0c8205d9-2f7a-4ef9-8c0e-de784ba93983</vmId>
    <offer>WindowsServer</offer>
    <state>SUCCEDED</state>
    <publisher>MicrosoftWindowsServer</publisher>
    <version>latest</version>
    <osType>Windows</osType>
    ...
  </HostAsset>
</data>
</ServiceResponse>      </HostAsset>
</data>
</ServiceResponse>
```

Sample: Search host asset API returns succeeded state for a host asset

The Search response for a host asset also returns the succeeded state.

API Request

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

Request POST data

```
<ServiceRequest>
  <filters>
    <<Criteria field="state" operator="EQUALS">SUCCEDED</Criteria>
  </filters>
</ServiceRequest>
```

XML Output

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/2.0/a
m/hostasset.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <HostAsset>
      <id>8705528</id>
      <name>vj-por-17433-wi</name>
      <created>2021-05-20T07:53:29Z</created>
```

```
<modified>2021-06-24T20:45:51Z</modified>
<type>HOST</type>
...
  <AssetSource/>
  <AzureAssetSourceSimple>
    <assetId>8705528</assetId>
    <type>AZURE</type>
    <firstDiscovered>2021-05-20T07:53:29Z</firstDiscovered>
    <lastUpdated>2021-06-24T20:45:51Z</lastUpdated>
    <azureVmTags>
      <tags>
        <list>
          <AzureTags>
            <key>Name</key>
            <value>vj-por-17433-win-vm</value>
          </AzureTags>
        </list>
      </tags>
    </azureVmTags>
    <name>vj-por-17433-win-vm</name>
    <location>eastus</location>
    <vmSize>Standard_B1s</vmSize>
    <vmId>0c8205d9-2f7a-4ef9-8c0e-de784ba93983</vmId>
    <offer>WindowsServer</offer>
    <state>SUCCEDED</state>
    ...
  </HostAsset>
</data>
</ServiceResponse>
```

XSD update for asset.xsd file

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

We added SUCCEDED element to asset.XSD file.

```
<simpleType name="AssetSourceStateCode">
  <restriction base="string">
    <enumeration value="PENDING"/>
    <enumeration value="RUNNING"/>
    <enumeration value="SHUTTING_DOWN"/>
    <enumeration value="TERMINATED"/>
    <enumeration value="STOPPING"/>
    <enumeration value="STOPPED"/>
    <enumeration value="DEALLOCATED"/>
    <enumeration value="DEALLOCATING"/>
    <enumeration value="CREATING"/>
    <enumeration value="STARTING"/>
    <enumeration value="DELETING"/>
    <enumeration value="DELETED"/>
```

```
<enumeration value="UPDATING"/>
<enumeration value="FAILED"/>
<enumeration value="MOVING"/>
<enumeration value="PROVISIONING"/>
<enumeration value="CREATING_IMAGE"/>
<enumeration value="TERMINATING"/>
<enumeration value="SUCCEDED"/> <!--new tag added -->
<enumeration value="UNSUPPORTED"/>
</restriction>
</simpleType>
```

AM API: Added Support for Calculating Asset Criticality

API affected	qps/rest/2.0/create/am/tag qps/rest/2.0/search/am/tag qps/rest/2.0/update/am/tag qps/rest/2.0/update/am/tag/<tagid> qps/rest/2.0/search/am/hostasset qps/rest/2.0/get/am/hostasset/<hostassetid> qps/rest/2.0/search/am/asset qps/rest/2.0/get/am/asset/<assetid>
--------------	--

New or Updated APIs	Updated API
---------------------	-------------

DTD or XSD changes	Yes
--------------------	-----

With this release, you can now assign criticality to asset tags which is then assigned to assets. We have added a new parameter, Criticality Score that allows you add a criticality to asset tags. Asset Criticality score is calculated on the basis of attached tags. If multiple tags are attached to an asset, then the highest criticality value from assigned tags is considered as criticality score for an asset.

You can refer to the following sample requests, responses, and XSD updates:

[Sample: Create an asset tag and assign criticality score](#)

[Sample: Search an asset tag with criticality score](#)

[Sample: Update an asset tag with criticality score](#)

[Sample: Update an asset tag with criticality score and tag ID in URL](#)

[XSD update for tag.xsd file](#)

[Sample: Search host asset API returns criticality score for a host asset](#)

[Sample: Get host asset API returns criticality score for a host asset](#)

[Sample: Search asset API returns criticality score for an asset](#)

[Sample: Get asset API returns criticality score for an asset](#)

[XSD update for asset.xsd file](#)

Sample: Create an asset tag and assign criticality score

Let us create an asset tag and assign criticality score.

API Request

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

Request POST data

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

Sample: Search an asset tag with criticality score

Let us search an asset tag with specific criticality score.

API Request

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

Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="criticalityScore"
      operator="EQUALS">
      3</Criteria>
  </filters>
```



```
</ServiceRequest>
```

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

Sample: Update an asset tag with criticality score

Let us update an asset tag with specific criticality score.

API Request

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

Request POST data

```
<ServiceRequest>
<filters>
<Criteria field="id" operator="EQUALS">11175413</Criteria>
</filters>
<data>
  <Tag>
    <name>name change3</name>
    <criticalityScore>5</criticalityScore>
    <children>
      <remove>
        <TagSimple><id>123</id></TagSimple>
        <TagSimple><id>456</id></TagSimple>
      </remove>
    </children>
  </Tag>
```

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

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>  
  <hasMoreRecords>>false</hasMoreRecords>  
  <data>  
    <Tag>  
      <id>11175413</id>  
    </Tag>  
  </data>  
</ServiceResponse>
```

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

Let us update an asset tag with specific criticality score and tag ID in URL.

API Request

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

Request POST data

```
<ServiceRequest>  
  <data>  
    <Tag>  
      <name>name change3</name>  
      <criticalityScore>5</criticalityScore>  
      <children>  
        <remove>  
          <TagSimple><id>123</id></TagSimple>  
          <TagSimple><id>456</id></TagSimple>  
        </remove>  
      </children>  
    </Tag>  
  </data>  
</ServiceRequest
```

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>
<hasMoreRecords>>false</hasMoreRecords>
<data>
  <Tag>
    <id>11175413</id>
  </Tag>
</data>
</ServiceResponse>
```

XSD update for tag.xsd file

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

We have added criticalityScore element to the 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">

  <complexType name="TagSimple">
    <sequence>
      <element name="id" type="long" />
      <element name="name" type="string" />
    </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" />
        </sequence>
      </extension>
    </complexContent>
  </complexType>
```

```
    <element name="children" type="tns:TagSimpleQList" minOccurs="0" />
    <element name="criticalityScore" type="int" minOccurs="0" />
  </sequence>
</extension>
</complexContent>
</complexType>
</schema>
```

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

Let us search for a host asset and the response will also return the criticality score.

API Request

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

Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="name">
      operator="EQUALS">hkencrtest</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/hostasset">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>>false</hasMoreRecords>
  <data>
    <HostAsset>
      <id>3052446</id>
      <name>hkencrtest</name>
      <created>2020-02-06T09:29:23Z</created>
      <modified>2020-10-27T11:56:50Z</modified>
      <type>HOST</type>
      <tags>
        <list>
          <TagSimple>
            <id>13309029</id>
            <name>test-name-tagk8s</name>
          </TagSimple>
          ...
```

```
<name>hkencrtest</name>
<location>centralindia</location>
<vmSize>Standard_B1ls</vmSize>
<vmId>bdb01734-17de-4a8b-a846-1fdc0c4ebd90</vmId>
<offer>UbuntuServer</offer>
<state>DELETED</state>
<publisher>Canonical</publisher>
<version>latest</version>
<osType>Linux</osType>
<subnet>default</subnet>
<subscriptionId>9de9e0a7-4f67-4812-917d-
2246853844e1</subscriptionId>
<resourceGroupName>hktest10</resourceGroupName>
<macAddress>00-0D-3A-3E-2A-EE</macAddress>
<publicIpAddress>13.71.5.220</publicIpAddress>
<privateIpAddress>172.16.0.4</privateIpAddress>
</AzureAssetSourceSimple>
</list>
</sourceInfo>
<criticalityScore>2</criticalityScore>
<fqdn>hkencrtest</fqdn>
...
```

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

The Get response for a host asset also return the criticality score.

API Request

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

XML Output

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/rest/2.0/
search/am/hostasset">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <HostAsset>
      <id>3052446</id>
      <name>hkencrtest</name>
      <created>2020-02-06T09:29:23Z</created>
      <modified>2020-10-27T11:56:50Z</modified>
      <type>HOST</type>
      <tags>
        ...
      </sourceInfo>
      <criticalityScore>2</criticalityScore>
    </HostAsset>
  </data>
</ServiceResponse>
```

```
        <os>Linux</os>
        <dnsHostName>hkencrtest</dnsHostName>
        <address>13.71.5.220</address>
        <trackingMethod>VIRTUAL_MACHINE_ID</trackingMethod>
        <networkInterface>
            ...
        </networkInterface>
        <isDockerHost>>false</isDockerHost>
    </HostAsset>
</data>
</ServiceResponse>
```

Sample: Search asset API returns criticality score for an asset

Let us search for a asset and the response will also return the criticality score.

API Request

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

Request POST data

```
<ServiceRequest>
  <filters>
    <Criteria field="name"
      operator="EQUALS">hkencrtest</Criteria>
  </filters>
</ServiceRequest>
```

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

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

Sample: Get asset API returns criticality score for an asset

The Get response for a asset also return the criticality score.

API Request

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

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/sear  
ch/am/asset">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <Asset>  
      <id>3052446</id>  
      <name>hkencrtest</name>  
      <created>2020-02-06T09:29:23Z</created>  
      <modified>2020-10-27T11:56:50Z</modified>  
      <type>HOST</type>  
      <tags>  
        <list>  
          ...  
        </list>  
      </sourceInfo>  
      <criticalityScore>2</criticalityScore>  
    </Asset>  
  </data>  
</ServiceResponse>
```

XSD update for asset.xsd file

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

We added criticalityScore element to asset.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">  
  
  <include schemaLocation="tag.xsd" />
```

```
<include schemaLocation="asset_source.xsd" />

<simpleType name="AssetType">
  <restriction base="string">
    <enumeration value="UNKNOWN" />
    <enumeration value="HOST" />
    <enumeration value="SCANNER" />
    <enumeration value="WEBAPP" />
    <enumeration value="MALWARE_DOMAIN" />
  </restriction>
</simpleType>

<complexType name="Asset">
  <sequence>
    <element name="id" type="long" minOccurs="0" />
    <element name="name" type="string" minOccurs="0" />
    <element name="created" type="dateTime" minOccurs="0" />
    <element name="modified" type="dateTime" minOccurs="0" />
    <element name="type" minOccurs="0" type="tns:AssetType" />
    <element name="tags" type="tns:TagSimpleQList" minOccurs="0" />
    <element name="sourceInfo" type="tns:AssetSourceQList" minOccurs="0" />
    <element name="criticalityScore" type="int" minOccurs="0" />
  </sequence>
</complexType>
</schema>
```


CA API: Ability to Download Installer Binaries

API affected	/qps/rest/1.0/download/ca/downloadbinary/
New or Updated APIs	New
DTD or XSD changes	Yes

With this release, you can download installer binaries using API. You must provide platform and architecture parameters in the request body of the curl request.

Input Parameters

Use these parameters to download an installer binary. Depending on the availability for your platform, you will be able to download a particular installer.

Parameter	Description
platform={value}	(Required) Specify platform type. Valid values are WINDOWS, MACOSX, LINUX, AIX, LINUX_UBUNTU, BSD, SOLARIS_X_86, SOLARIS_SPARC, LINUX_PPC_64_LE, and LINUX_COREOS Platform value is case sensitive.
architecture={value}	(Required) Specify platform architecture. Valid values are X_86_64, ARM_64, X_64, POWER_5, PPC_64_LE, and SPARC Architecture value is case sensitive.

For more information on supported platform and architecture, refer to the “Cloud Agent Platform Availability Matrix” section from [Cloud Agent Getting Started Guide](#).

This document provides sample requests and responses to download agent binaries using Curl. You can also use our [Postman Collections](#) to download agent binaries.

Sample - Download Windows X86_64 Installer Binary

API request:

```
curl -u fo_username:password -X POST -H "Content-Type: text/xml" -H "X-Requested-With: curl" --data-binary @download_binary.xml "https://qualysapi.qualys.com/qps/rest/1.0/download/ca/downloadbinary/" --remote-name --remote-header-name
```

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

Contents of download_binary.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <DownloadBinary>
      <platform>WINDOWS</platform>
```

```
<architecture>X_86_64</architecture>
  </DownloadBinary>
</data>
</ServiceRequest>
```

Response:

Successful Download: Installer binary will be downloaded with Status: 200 OK

Failed Download: It will show following 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/portal-
api/xsd/1.0/ca/downloadbinary.xsd">
  <responseCode>OTHER_ERROR</responseCode>
  <responseErrorDetails>
    <errorMessage>An error occurred during request processing. Please
contact your account manager.</errorMessage>
  </responseErrorDetails>
</ServiceResponse>
```

Issues Addressed

-We improved the execution of update/am/hostasset API script, where in case of parallel request, the second and consecutive request caused a long time for asset tagging to complete.

-We fixed an issue where the Azure instances did not include the Succeeded state in the SearchHostAssets and GetHostAssets API calls and on the UI.

-We fixed an issue where the tags were not getting reevaluated if the dynamic tag rule was modified via API.