



# Qualys Cloud Platform v2.x

## API Release Notes

Version 2.32.2

April 25, 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

[AWS EC2 Connector - Support for Cross-Account Role Authentication](#)

### 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.

| Account Location              | API Server URL                        |
|-------------------------------|---------------------------------------|
| Qualys US Platform 1          | https://qualysapi.qualys.com          |
| Qualys US Platform 2          | https://qualysapi.qg2.apps.qualys.com |
| Qualys US Platform 3          | https://qualysapi.qg3.apps.qualys.com |
| Qualys EU Platform 1          | https://qualysapi.qualys.eu           |
| Qualys EU Platform 2          | https://qualysapi.qg2.apps.qualys.eu  |
| Qualys India Platform 1       | https://qualysapi.qg1.apps.qualys.in  |
| Qualys Private Cloud Platform | https://qualysapi.<customer_base_url> |

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.

## AWS EC2 Connector - Support for Cross-Account Role Authentication

Qualys now supports the creation of EC2 connectors using a cross-account access role. This allows you to grant Qualys access to your AWS EC2 instances without sharing your AWS security credentials. Qualys will access your AWS EC2 instances by assuming the IAM role that you create in your AWS account.

With this support, we are discontinuing the creation of EC2 connectors using IAM access keys. We'll help you migrate your existing EC2 connectors to now use cross-account access roles. Note that this migration to your existing EC2 connector to cross account role is unidirectional and cannot be reverted.

### Highlights

- New connectors created from the UI will only support ARN authentication
- Create connectors using CloudFormation Template
- Upgrade existing connectors from access key based authentication to ARN authentication
- Create only one connector for each unique AWS account. It's recommended that you merge multiple EC2 connectors into one by removing duplicate connectors before you upgrade to ARN.

### Connector API Updates

|                    |                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| API affected       | <code>/qps/rest/2.0/get/am/awsassetdataconnector/&lt;id&gt;</code><br><code>/qps/rest/2.0/create/am/awsassetdataconnector</code><br><code>/qps/rest/2.0/update/am/awsassetdataconnector</code> |
| New or Updated API | Updated                                                                                                                                                                                        |
| DTD or XSD changes | Yes                                                                                                                                                                                            |

[What are the steps](#) | [New API error](#) | [XSD updates](#)

### What are the steps

Here's the process for creation of new connector and updating existing connector to use the cross-account access role.

To get started you'll need an IAM role created using your AWS account.

## Create new connector

Use this method to create a new connector when you already have the ARN generated from your AWS account.

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconnector" < 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>my-aws-connector</name>
      <arn>arn:aws:iam::705355653965:role/ARN_UPGRADE</arn>
      <externalId>1234567890</externalId>
      <endpoints>
        <add>
          <AwsEndpointSimple>
            <regionCode>ap-south-1</regionCode>
          </AwsEndpointSimple>
        </add>
      </endpoints>
      <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="http://qualysapi.qualys.com/qps/xsd/2.0/am
/aws_asset_data_connector.xsd">
<responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AwsAssetDataConnector>
      <id>19803</id>
      <name>my-aws-connector</name>
      <connectorState>QUEUED</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list/>
      </defaultTags>
    </AwsAssetDataConnector>
  </data>
</ServiceResponse>
```

```
</defaultTags>
<activation>
  <list/>
</activation>
<disabled>>false</disabled>
<isGovCloudConfigured>>false</isGovCloudConfigured>
<isChinaConfigured>>false</isChinaConfigured>
<arn>arn:aws:iam::705355653965:role/ARN_UPGRADE</arn>
<externalId>1234567890</externalId>
<qualysAwsAccountId>383031258652</qualysAwsAccountId>
<authRecord/>
<endpoints>
  <list>
    <AwsEndpointSimple>
      <regionCode>ap-south-1</regionCode>
    </AwsEndpointSimple>
  </list>
</endpoints>
<allRegions>>false</allRegions>
</AwsAssetDataConnector>
</data>
</ServiceResponse>
```

### Create new connector (provide ARN later)

If you have dependencies and cannot provide the ARN at the time of creation, you could always provide the ARN at a later stage. In this case, the AWS connector is created with an INCOMPLETE state.

#### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/create/am/awsassetdataconnector" < 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>my-aws-connector</name>
      <endpoints>
        <add>
          <AwsEndpointSimple>
            <regionCode>ap-south-1</regionCode>
          </AwsEndpointSimple>
```

```
        </add>
      </endpoints>
      <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="http://qualysapi.qualys.com/qps/xsd/2.0/am
/aws_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AwsAssetDataConnector>
      <id>19201</id>
      <name>my-aws-connector</name>
      <connectorState>INCOMPLETE</connectorState>
      <type>AWS</type>
      <defaultTags>
        <list/>
      </defaultTags>
      <activation>
        <list/>
      </activation>
      <disabled>false</disabled>
      <isGovCloudConfigured>false</isGovCloudConfigured>
      <externalId>1518689351038</externalId>
      <qualysAwsAccountId>383031258652</qualysAwsAccountId>
      <endpoints>
        <list>
          <AwsEndpointSimple>
            <regionCode>ap-south-1</regionCode>
          </AwsEndpointSimple>
        </list>
      </endpoints>
      <allRegions>false</allRegions>
    </AwsAssetDataConnector>
  </data>
</ServiceResponse>
```

## Upgrade existing connector

Here's how to update an existing connector to use a cross-access account role. You'll need the ARN generated from your AWS account.

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/2.0/update/am/awsassetdataconnector/12345" < 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>
      <arn>arn:aws:iam::205767712438:role/qualys_dev_test</arn>
      <externalId>123456789</externalId>
    </AwsAssetDataConnector>
  </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/am
/aws_asset_data_connector.xsd">
<responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AwsAssetDataConnector>
      <id>19201</id>
    </AwsAssetDataConnector>
  </data>
</ServiceResponse>
```

## Get connector details

Here's how to get details on a connector using GET request. This connector is using ARN.

### API request:

```
curl -n -u "USERNAME:PASSWORD"  
"https://qualysapi.qualys.com/qps/rest/2.0/get/am/awsassetdataconn  
ector/19201"
```

### 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  
/aws_asset_data_connector.xsd"> responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <AwsAssetDataConnector>  
      <id>19201</id>  
      <name>my-aws-connector</name>  
      <lastSync>2018-02-15T12:51:00Z</lastSync>  
      <connectorState>FINISHED_SUCCESS</connectorState>  
      <type>AWS</type>  
      <defaultTags>  
        <list/>  
      </defaultTags>  
      <activation>  
        <list/>  
      </activation>  
      <disabled>false</disabled>  
      <isGovCloudConfigured>false</isGovCloudConfigured>  
      <arn>arn:aws:iam::205767712438:role/qualys_dev_test</arn>  
      <externalId>1518689351038</externalId>  
      <qualysAwsAccountId>383031258652</qualysAwsAccountId>  
      <authRecord1/>  
      <endpoints>  
        <list>  
          <AwsEndpointSimple>  
            <regionCode>ap-south-1</regionCode>  
          </AwsEndpointSimple>  
        </list>  
      </endpoints>  
      <allRegions>false</allRegions>  
    </AwsAssetDataConnector>  
  </data>  
</ServiceResponse>
```

## New API error

Conflict is present for the provided arn with connector ids[13816, 13817].

---Every ARN is unique to an account. If you associate multiple accounts with same ARN when creating or updating a connector, a conflict error message is displayed.

## XSD updates

We've added new elements and updated the connectorState element

| Element                                     | Description                                                                      | Writeable |
|---------------------------------------------|----------------------------------------------------------------------------------|-----------|
| arn                                         | Generated by AWS. Ensure that you provide the same ARN that is generated by AWS. | yes       |
| externalId                                  | Random string which is unique for each user.                                     | yes       |
| connectorState<br>(AssetDataConnectorState) | PENDING, RUNNING, SUCCESS, ERROR, DISABLED, INCOMPLETE                           | no        |

### aws\_asset\_data\_connector.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
...
  <complexType name="AwsAssetDataConnector">
    <complexContent>
      <extension base="tns:AssetDataConnector">
        <sequence>

          <element name="arn" type="string" maxOccurs="1" minOccurs="0"/>
          <element name="externalId" type="string" maxOccurs="1"
minOccurs="0"/>
          <element name="qualysAwsAccountId" type="string" maxOccurs="1"
minOccurs="0"/>

          <element name="authRecord" type="tns:AwsAuthRecordSimple" />
          <element name="endpoints" type="tns:AwsEndpointSimpleQList" />
          <element name="serviceType" type="tns:AwsServiceType" minOccurs="0"
/>

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



### asset\_data\_connector.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
...
    <enumeration value="DISABLED" />
    <enumeration value="INCOMPLETE" />

    </restriction>
  </simpleType>
...
</sequence>
</complexType>
</schema>
```