Fix Qualys Connector in Azure Subscription

Overview

Platform:	Azure
Owner of this SOP:	Fully Managed POD A
Cloud Services:	Qualys Connector for Azure Subscription

Problem

- When there is issue with Qualys connector on Azure Subscription
- Check Azure Subscription is part of Qualys

tester	Reviewer
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Process

Raise a Normal Change Request

Please open a Normal change request and get it approved before executing the activity.

Solution

- This is the new method of enabling Qualys connector for Azure Subscrpition, Provided by Qualys team. For more details refer https://www.qualys.com/docs/qualys-asset-management-tagging-api-v2-user-guide.pdf
- In either way we can fix this issue via XML or JSON
- Create either file**.xml** or file2**.json** file

file.xml

file2.json

- If **XML** download file.xml, update the below sections

```
<name>subscription name</name>
<applicationId>qualys-connector-sp-id</applicationId>
<directoryId>tenant_id</directoryId>
<subscriptionId>subscription_id</subscriptionId>
<authenticationKey>qualys-connector-sp-secret</authenticationKey>
```

- If **JSON** download file2.xml, update the below sections

```
"applicationId": "qualys-connector-sp-id", "directoryId": "tenant_id", "subscriptionId":
"subscription_id", "authenticationKey": "qualys-connector-sp-secret"
```

- Run the below curl command to enable Qualys connector for Azure Subscrpition

CURL command for XML format

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST" --
data-binary "@file.xml"
"https://qualysapi.qg2.apps.qualys.com/qps/rest/2.0/create/am/azureassetdataconnector"
```
Note: "file.xml" contains the request POST data.

CURL command for JSON format

```
curl -u "USERNAME:PASSWORD" -H "Content-Type: application/json" -X "POST" --data-binary "@qualys-
connector2.json" "https://qualysapi.qg2.apps.qualys.com/qps/rest/2.0/create/am/azureassetdataconnector"
```

USERNAME: qualys-api-username
PASSWORD: qualys-api-password

- Sample Output will be as below for XML

```
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
      <AzureAssetDataConnector>
        <id>1236803</id>
        <name>it-npe-netskope</name>
        <description>Sample Azure Connector</description>
        <connectorState>QUEUED</connectorState>
        <type>AZURE</type>
        <defaultTags>
          <list>
```

- If Qualys already enabled in Azure subscription, Sample output as below

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qual
qg2.apps.qualys.com/qps/xsd/2.0/am/azure_asset_data_connector.xsd">
  <responseCode>INVALID_REQUEST</responseCode>
  <responseErrorDetails>
    <errorMessage>name: A connector by that name already exists.</errorMessage>
  </responseErrorDetails>
</ServiceResponse>
C:\Users\914967\Downloads\qualys>
```

- *Sample Output will be as below for JSON*

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qg2.apps.qualys.com/qps/xsd/2.0/am/azure_asset_data_connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <AzureAssetDataConnector>
      <id>1242401</id>
      <name>it-npe-toolingdev</name>
      <description>Sample Azure Connector</description>
      <connectorState>QUEUED</connectorState>
      <type>AZURE</type>
      <defaultTags>
        <list>
          <TagSimple>
            <id>64031185</id>
```

```
          </id>
        </TagSimple>
      </list>
    </defaultTags>
    <disabled>false</disabled>
    <isGovCloudConfigured>false</isGovCloudConfigured>
```

- If Qualys already enabled in Azure subscription, Sample output as below
-
```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qg2.apps.qualys.com/qps/xsd/2.0/am/azure_asset_data_connector.xsd">
  <responseCode>INVALID_REQUEST</responseCode>
  <responseErrorDetails>
    <errorMessage>name: A connector by that name already exists.</errorMessage>
  </responseErrorDetails>
</ServiceResponse>
C:\Users\914967\Downloads\qualys>
```

Check Azure Subscription is part of Qualys

- Create a xml file and update the Azure subscription id
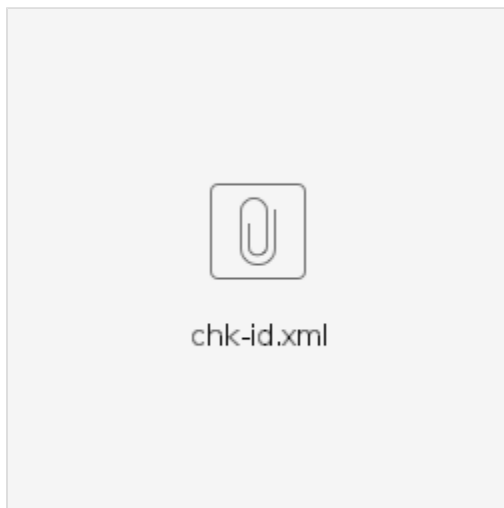
chk-id.xml

- run the curl command

```
curl -u "APIusername:password" -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.
qg2.apps.qualys.com/qps/rest/2.0/search/am/azureassetdataconnector" < chk-id.xml
```

- In the output ,if

count = 1 (It means subscription is under Qualys

count = 0 (It means subscription is NOT in Qualys

- Output of count =1

- Output of count =0

```
C:\Users\914967\Downloads\qualys>curl -u "                    " -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qg2.apps.qualys.com/qps/rest
/2.0/search/am/azureassetdataconnector" < chk-id.xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qg2.apps.qualys.com/qps/xsd/2.0/am/azure_asset_data_
connector.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>0</count>
</ServiceResponse>
C:\Users\914967\Downloads\qualys>
```

- If your get below error message, run the curl command again, you will get the count value

An error occurred during activation request processing. Module is not supported for this agent

```
C:\Users\914967\Downloads\qualys>curl -u "                    " -H "content-type: text/xml" -X "POST" --data-binary @- "https://qualysapi.qg2.apps.qualys.com/qps/rest
/2.0/search/am/azureassetdataconnector" < chk-id.xml
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="https://qualysapi.qg2.apps.qualys.com/qps/xsd/2.0/am/azure_asset_data_
connector.xsd">
  <responseCode>OTHER_ERROR</responseCode>
  <responseErrorDetails>
    <errorMessage>An error occurred during activation request processing. Module is not supported for this agent.</errorMessage>
  </responseErrorDetails>
</ServiceResponse>
```

Related articles

- AWS VPC Endpoints configuration change
- Renewal / Upload SSL certificate for existing Application
- Monitoring GitLab Access Audit Report
- Azure Storage Account Blueprint SOP - BPAZR022
- Azure App Service FTP Credential Sharing and Reset Procedure