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Introduction to Qualys FIM for QRadar

Use the Qualys FIM for QRadar to ingest your Qualys FIM Events and FIM Ignored Events into QRadar and view the data in QRadar’s Log Activity tab. All you need to do is install the app, configure the app and schedule the sync. The Qualys FIM App will continuously pull your event delta. Want to visualize historical data? Just use date-time pickers given in the QRadar’s Activity log to check the useful information.

Info: For current version of Qualys FIM for QRadar, we do not have a separate Dashboard. User can see FIM Events and FIM Ignored Events through AQL using QRadar’s Log Activity.

Features

- Fetch the FIM events and ignored events from Qualys to ingest into QRadar
- Search the ingested data in the QRadar using "Log Activity" tab

Prerequisites

Make sure you have:
- A valid Qualys subscription
- API access to Qualys FIM module
- Internet access and your Qualys API server must be reachable from QRadar

Note: This app is compatible with these versions only- QRadar 7.3.3 FP6, 7.4.1 FP2, 7.4.2GA+

Install the App

1) Log in to QRadar and go to the Admin tab > Extensions Management and click Add.
2) Select the extensions .zip file for FIM app.
   - Before installing the app, check if the Content of the app is correct.
   - Confirm whether you want to replace/skip any existing contents with those coming from the extension and click Install.
   Note: If the user is using QRadar version 7.4.x, then it is mandatory to select the Start a default instance of each app check-box before clicking the Install button.
3) Once installation is completed, refresh your QRadar user interface.
4) After installation of the app, check if all the details appear as required for the following settings:
   - Admin > Custom Event Properties
   - Admin > Log Source
   - Admin > Log Source Extensions
   - Admin > DSM Editor
5) Click
   - Admin > Advanced dropdown > Deploy Full Configuration
   - Admin > Advanced dropdown > Restart Event Collection Service
   Note: Please wait for the Event Collection Service to restart before enabling the FIM job.
6) User must perform the DSM Editor steps before configuring the App.
7) Then configure the Qualys FIM app.

DSM Editor

In Configuration tab, check if the following fields are set with values as mentioned in the following:
1) Select Log Source Type (Qualys FIM JSON) > Configuration > Log Source Autodetection Configuration > **Enable Log Source Autodetection**: enabled

2) Click **Show Advanced Options**, and set the following as mentioned:
- **Minimum Successful Events for Autodetection**: 2
- **Minimum Success Rate for Autodetection**: 100
- **Attempted Parse Limit**: as it is
- **Consecutive Failed Parse Limit**: as it is

---

**Validating Dependencies**

Please go through each of the sections listed below. You need to carry out the following steps manually, right after you install the app and before you start using it.

**Note**: Some sections may not be applicable in your case, and you may need to skip them.
Log Source Event Mapping

1) Go to Admin > DSM Editor.
2) In Select Log Source Type, search for “Qualys FIM JSON” and click Select button.

3) From the Qualys FIM JSON screen, go to Event Mappings tab. The requirement is that there should be mapping for FIM_EVENTS and FIM_IGNORED_EVENTS. If you don’t see mapping for FIM_EVENTS and FIM_IGNORED_EVENTS create new (refer below steps).
4) Click + icon to add a new mapping. The “Create a new Event Mapping” pop-up opens. Set Event ID as “FIM_EVENTS and FIM_IGNORED_EVENTS” (without quotes) and Category as “FIM_EVENTS and FIM_IGNORED_EVENTS” (without quotes).

5) Click the Choose QID link.
   - High Level Category: Any
   - Low Level Category: Any
   - Log Source Type: Any
   - QID/Name: In this text box, user must search for Qualys FIM, click Search.

<table>
<thead>
<tr>
<th>Search Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Qualys FIM Events</td>
</tr>
<tr>
<td>Qualys FIM Ignored Events</td>
</tr>
<tr>
<td>Qualys FIM JSON Message</td>
</tr>
</tbody>
</table>

Search results will be displayed based on the QID/Name entered.

6) Choose the option Qualys FIM Events/Qualys FIM Ignored Events based on your requirement.

7) Click OK. This takes you back to “Create a new Event Mapping” window.

8) Click Create. This will take you back to “Event Mappings” window. You can verify the new event mapping created.

9) Finally, click Save and close the window.

**Log Source**

When you install app, it will create a new Log Source named “QualysFimMultiline”. Please check if it is created. You can also create the custom log source for the Qualys app with following steps. Keep the configuration of custom log source same as that mentioned below.

1) Qualys FIM will send the data to QRadar console only. The user will not be able to use the app for distributed setup.

2) On your console UI, go to Admin → Data Sources → Log Sources and click Add.

3) Add the details shown below to the form to Create QualysFimMultiline Log Source. All fields marked with an asterisk (*) are mandatory. Make sure your Log Source Name and Log Source Identifier have same value.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Source Name*</td>
<td>QualysFimMultiline (Customizable)</td>
</tr>
<tr>
<td>Log Source Description</td>
<td>QualysFimMultiline</td>
</tr>
<tr>
<td>Log Source Type*</td>
<td>Qualys FIM JSON</td>
</tr>
<tr>
<td>Protocol Configuration*</td>
<td>TCP Multiline Syslog</td>
</tr>
<tr>
<td>Log Source Identifier*</td>
<td>QualysFimMultiline (Customizable, but same as Log Source Name)</td>
</tr>
</tbody>
</table>
Listen Port | 12400 (Customizable)
Aggregation Method* | Start/End Matching
Event Start Pattern* | [A-Z][a-z][a-z]\\d\\d\\d\\d:\\d\\d\\d
Event End Pattern* | qualys_event_ends
Event Formatter* | No Formatting
Show Advance Option* | Yes
Use Custom Source Name* | Unchecked
Use As A Gateway Log Source* | Checked
Flatten Multiline Events Into Single Line* | Checked
Retain Entire Lines During Event Aggregation* | Checked
Enabled* | Checked
Credibility | 5
Target Event Collector | <default/your choice>
Coalescing Events* | Unchecked
Store Event Payload* | Checked
Log Source Extension* | QualysFIMJSONCustom_ext

4) Click Save.

If you need to create this new Log Source manually, you must do a full deployment. For that, please go to Admin > Advance and click Deploy Full Configuration.

Custom Event Properties

1) Go to Admin > Log Sources and confirm that QualysFimMultiline Log Source is Enabled. If it is disabled, please enable it.
2) Go to Admin > Custom Event Properties and confirm that all 36 Qualys related properties are Enabled and are linked to “Qualys FIM JSON” log source type.

Qualys related properties are:

<table>
<thead>
<tr>
<th>Field name</th>
<th>JSON keypath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absolute File Path</td>
<td>＼“fullPath”</td>
</tr>
<tr>
<td>Absolute Process Path</td>
<td>＼“actor”＼“imagePath”</td>
</tr>
<tr>
<td>Action</td>
<td>＼“action”</td>
</tr>
<tr>
<td>Asset tags</td>
<td>＼“asset”＼“tags”</td>
</tr>
<tr>
<td>Attribute New</td>
<td>＼“attributes”＼“new”</td>
</tr>
<tr>
<td>Attribute Old</td>
<td>＼“attributes”＼“old”</td>
</tr>
<tr>
<td>Category name</td>
<td>＼“profiles”[0]＼“category”＼“name”</td>
</tr>
<tr>
<td>Event Alert</td>
<td>＼“name”</td>
</tr>
<tr>
<td>Event UUID</td>
<td>＼“id”</td>
</tr>
<tr>
<td>Event type</td>
<td>＼“type”</td>
</tr>
<tr>
<td>File Certificate Hash</td>
<td>＼“fileCertificateHash”</td>
</tr>
<tr>
<td>File Hash</td>
<td>＼“fileContentHash”</td>
</tr>
<tr>
<td>File Reputation Status</td>
<td>＼“reputationStatus”</td>
</tr>
</tbody>
</table>
For the Qualys related properties, complete these checks:

1) If any property is disabled, enable it.
2) If any property does not belong to the Qualys FIM JSON log source type, please open it to edit and select Qualys FIM JSON as the log source type.
3) Do not select any specific Log source, select All in the drop-down option.
4) Select the Category, with High Level Category as System and Low Level Category as Information.
5) Provide JSON keypath from the above table in the Extraction using section.
6) Finally, save the properties.

For any change in Custom Event Properties, it is recommended to do Deploy Full Configuration.
Configure the App

Qualys API Configurations

1) Log in to QRadar and go to the Admin tab.
2) Scroll to “Apps” section and click Qualys FIM App Settings. A pop-up window opens.

![Qualys FIM App Settings](image)

**Credentials**

QRadar Authorization token is used while interacting securely with QRadar. You can obtain this token from Admin > User Management > Authorized Service.

To generate the authentication token follow the steps:

1) Go to Authorized Services in Admin tab
2) Click Add Authorized Service.
3) Enter the desired Service Name.
4) Select User Role as Admin.
5) Select Security Profile as Admin.
6) Set the expiry date as required.
7) Click Create Service and then click Deploy changes.

After providing the Authorization Token, under the credentials tab, click Save to Proceed.

8) Use the Credentials tab to configure your Qualys credentials. Enter your Qualys API server, username and password in the appropriate fields.
Proxy Configuration

If you want Qualys app to use proxy while calling the API, configure proxy details. Select the check box to enable proxy.

Add your proxy server and proxy port in `<proxy server>:<proxy port>` format.

If your proxy needs authentication, add proxy user and proxy password along with server and port, in `<proxy user>:<proxy password>@<proxy server>:<proxy port>` format.

FIM Events

Use the FIM Events tab to configure and enable Fetch FIM Events.

1) Tick the "Enable FIM Events" checkbox to enable this data input.
2) In the "Cron Schedule" field, enter a valid cron format entry. This is a mandatory field if the "Enable FIM Events" checkbox is checked. Learn about cron expressions...

3) In the "Start Date-Time" field, enter the date-time from which you want to fetch the FIM events data from the Qualys.
   - This is an optional field.
   - The date-time format should be 'YYYY-MM-DDTHH:MM:SSZ. e.g. '2019-02-25T18:30:00Z.'
   - If the value is not provided, then FIM events will be fetched from the current date of the browser. The start date shouldn't be less than 2017-01-01T00:00:00.000Z.

4) In the "Filter" field, enter filter criteria to filter the FIM events.
   - This is an optional field.
   - The filter fields should be in Elastic Search Query format.

FIM Ignored Events

Use the FIM Ignored Events tab to configure and enable Fetch FIM Ignored Events.

1) Tick the "Enable FIM Ignored Events" checkbox to enable this data input.
2) In the "Cron Schedule" field, enter a valid cron format entry. This is a mandatory field if the "Enable FIM Ignored Events" checkbox is checked.
3) In the "Start Date-Time" field, enter the date-time from which you want to fetch the FIM Ignored events data from the Qualys.
   - This is an optional field.
   - The date-time format should be 'YYYY-MM-DDTHH:MM:SSZ. e.g. '2019-02-25T18:30:00Z.'
4) If the value is not provided, then FIM events will be fetched from the current date of the browser. The start date shouldn’t be less than 2017-01-01T00:00:00.000Z.
5) In the "Filter" field, enter extra filter criteria to filter the FIM Ignored events.
   - This is an optional field.
   - The filter fields should be in Elastic Search Query format.
Advanced

Use Advanced tab to see the last success and last failure for FIM Events and FIM Ignored Events.
How Qualys App works?

What happens after configuration?

Once you configure and enable FIM Events or Ignored Events job, the application bundled with this extension will start fetching your FIM events data. By default, it will pull 1000 events at a time. This value is set to such a small number to make sure the app can process your data without hitting the memory limit governed by QRadar. For first run, it might take some time depending on your scan volume. After that, subsequent pulls are incremental ones - fetching only new/changed data.

How does data get into QRadar?

Whenever cron runs any job (based on the cron schedule you defined), it makes outbound API call to Qualys, get the event JSON and sends it to the QRadar over socket using TCP port configured in “QualysFimMultiline” Log Source. Using DSM editor and “Qualys FIM JSON” Log Source Type provided with this extension, QRadar then puts this data into the “events” table in Ariel database.

Raw Data

There may be times when you want to see the raw data. Follow these steps:

1) Go to Log Activity tab and go to Advance Search field.
2) In the Advance Search field, post the sample AQL below. (Tip - For more AQLs please check the Troubleshooting section in this guide.)
   SELECT Username, "User ID", "Source Host Name", sourceip, sourcev6, "Event UUID", "Event Alert", severityLevel, processName, processID, "Absolute Process Path" FROM events WHERE LOGSOURCENAME(logsourceid) = 'QualysFimMultiline'
3) Select the date range for which you want to see the data.
4) Click Search.

Depending on the results, you may want to change the date-time range to widen/shorten your search span. You can also execute your own AQL queries to find more appropriate data. Please refer to fields in “Qualys FIM JSON” log source type of DSM editor to know the Qualys fields.

Input Logs

While running, host detection input sends its log to QRadar over syslog. To see them, you can use the following AQL in Log Activity > Advance Search.

Follow the same steps mentioned above with below AQL:

Content","Old Registry Value Type","New Registry Value Type","Old Registry Value Content","New Registry Value Content","qradar_event_type"
FROM events
WHERE LOGSOURCENAME(logsourceid) = 'QualysFimMultiline'

To fetch FIM Events specific data add this option at the end of the AQL:

AND qradar_event_type = 'FIM_EVENTS'

To fetch FIM Ignored Events specific data add this option at the end of the AQL:

AND qradar_event_type = 'FIM_IGNORED_EVENTS'

Uninstalling the app

1) Uninstall the FIM app from Admin > Extension management. If you are asked to Remove or Preserve, then remove everything.
2) Check if all the CEPs are deleted for "Qualys FIM JSON" log source type in Admin > Custom Event Properties.
3) Delete the FIM app related:
   - Admin > Log Source
   - Admin > Log Source Extensions
4) Open the Admin > DSM Editor
   - Then select the "Qualys FIM JSON" log source type. Check if all the custom fields are deleted and override fields are not override in the Properties tab.
   - Delete the Event mapping(s) related to the FIM app.
   - Disable:
     Configuration > Log Source Autodetection
     Configuration > Enable Log Source Autodetection.
5) Then delete the "Qualys FIM JSON" log source type in Admin > DSM Editor.
6) Log out.

While uninstalling the app in unfortunate cases, it should be done cleanly. Any leftover artifacts can potentially interfere with next installation attempt creating unstable state. When app gets installed following components will get installed in QRadar, so to uninstall completely following components also need to be removed.
Troubleshooting

If user is not able to pull data without proxy

If the user is not able to pull the data without proxy, please check with your networking team and the team responsible for providing the QRadar host machine.

If user is not able to pull data with proxy

If the user is not able to pull the data with HTTP proxy and not HTTPS proxy and vice versa, please check with your networking team and the team responsible for providing the QRadar host machine.

If Token returned is Null

If the user observes that the ETL says "Received auth token from API Gateway Server" and then the process terminates. It means the Token returned is None. Please run the curl to verify the same in the app container from /opt/app-root/app directory

- If the proxy is not needed remove the --proxy option and proxy: curl --location --request POST '<gateway api>/auth' --proxy '<proxy>' --header 'Content-Type: application/x-www-form-urlencoded' --data-urlencode 'username=<POD username>' --data-urlencode 'password=<POD password>' --data-urlencode 'token=true'
- If the JWT token is not returned please check with your networking team or the team responsible for providing the QRadar host machine for proxy or firewall-related issues.
- If the JWT token is returned, please contact Qualys support.

If Log Source error occurs

If the Log source shows this message, "This log source uses an undocumented protocol. IBM Support cannot troubleshoot problems with receiving event data. Events received by an undocumented protocol may be in a format unrecognized by the DSM. Use the DSM Editor to resolve any parsing issues." please refer to these links from IBM:


If you get errors for AQL

- If you get N/A for any field value, this means the payload which has these fields will show the data and if the fields are not present it will show N/A. N/A is provided by QRadar if the field is not available in the payload.
- If you get this error in the Activity Log tab "Field '<field name> does not exist in catalog 'events'. Please manually type the field name to get the exact match for that value.

If you get “[Errno 111] Connection refused” error

Following error messages will be displayed for different cases:
ERROR: Socket connection on port 12400 configured for 'QualysFimMultiline' log source is refused, 'Deploy Full Configuration'. Error while connecting to socket: [Errno 111] Connection refused This error occurs when the Listen port is not LISTENING. You need to do the Deploy Full Configuration on QRadar box to resolve this issue.
Verify the following points:
- https://www.ibm.com/support/pages/node/6395080 is performed or not
- Can be verified as > if the license is patched user can see Live Events under Log Activity otherwise no events are visible to the user
- Verify user performed the 'Deploy Changes' after the application installation
  This is the last step that could be authorized by QRadar Admin > Do 'Full Deployment'
- If the above steps do not work for a user then they should contact Qualys Support
Qualys Support
If you tried the troubleshooting steps but still need help, please contact Qualys Support at https://www.qualys.com/support/

Provide the following information to Qualys Support:
- Qualys App version number
- QRadar version number, including the patch number
- Steps to reproduce the issue
- Note any manual changes done to Qualys app’s code
- Note any manual changes done to Qualys app’s container
- Please download the logs from Admin > Qualys FIM App Settings page and attach them to your support case.
Appendix

User will get this information under Application Configuration → Advanced tab.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>QRFIM-100</td>
<td>The /opt/app-root/store/qradar_fim_app.db is either missing or is in read-only mode as it must have been updated by another file. In that case please provide permission to write.</td>
</tr>
<tr>
<td>QRFIM-101</td>
<td>Not able to connect to the qualys_fim_config table in The /opt/app-root/store/qradar_fim_app.db file, please check if the table is available in the db file.</td>
</tr>
<tr>
<td>QRFIM-102</td>
<td>The configuration key-value is not available in the qualys_fim_config table.</td>
</tr>
<tr>
<td>QRFIM-103</td>
<td>Some error is encountered while adding or updating the qualys_fim_checkpoint table.</td>
</tr>
<tr>
<td>QRFIM-104</td>
<td>Some error is encountered while adding or updating the qualys_fim_config table.</td>
</tr>
<tr>
<td>QRFIM-105</td>
<td>Some error is encountered while getting the data from the qualys_fim_checkpoint table.</td>
</tr>
<tr>
<td>QRFIM-106</td>
<td>Some error is encountered while adding or updating the qualys_fim_job_status table.</td>
</tr>
<tr>
<td>QRFIM-200</td>
<td>To make the REST API call to QRadar, we use HTTP headers. Some issue is encountered for creating the headers. Please check the job logs.</td>
</tr>
<tr>
<td>QRFIM-201</td>
<td>While making the QRadar REST API call we encountered an error that is not parsable. Please check the job logs.</td>
</tr>
<tr>
<td>QRFIM-202</td>
<td>We did not found the 'Qualys FIM JSON' Log source Type in the DSM Editor. Please reinstall the app.</td>
</tr>
<tr>
<td>QRFIM-203</td>
<td>We did not found the 'QualysFimMultiline' Log source Type in the DSM Editor. Please create a log source or reinstall the app.</td>
</tr>
<tr>
<td>QRFIM-204</td>
<td>We could not connect with the QRadar REST API server. Please check with IBM support. If there is an issue with the QRadar host machine.</td>
</tr>
<tr>
<td>QRFIM-205</td>
<td>While fetching the Log source information we encountered an error please check the job logs.</td>
</tr>
<tr>
<td>QRFIM-206</td>
<td>Please update a correct QRadar Auth token on Qualys FIM app settings page.</td>
</tr>
<tr>
<td>QRFIM-207</td>
<td>Got an error from QRadar REST API. Please contact IBM support.</td>
</tr>
<tr>
<td>QRFIM-208</td>
<td>No Log source information available in QRadar for a selected Log Source Id.</td>
</tr>
<tr>
<td>QRFIM-209</td>
<td>We encountered an error while validating the Qradar related settings before starting the job process. Please check the job logs for more information.</td>
</tr>
<tr>
<td>QRFIM-210</td>
<td>Connection with QRadar host machine over socket is lost. Please check if the DSM PORT is open on the QRadar host machine. Restart the job process.</td>
</tr>
<tr>
<td>QRFIM-211</td>
<td>Could not connect with QRadar host machine over the socket. Please check if the DSM PORT is open on the QRadar host machine.</td>
</tr>
<tr>
<td>QRFIM-212</td>
<td>We encountered an exception while trying a socket connection to QRadar. Please check the job logs for more information.</td>
</tr>
<tr>
<td>QRFIM-300</td>
<td>There is some error with the saved Qualys JWT Auth token. However, do not worry we will generate a new token.</td>
</tr>
<tr>
<td>QRFIM-301</td>
<td>Could not get Qualys JWT Auth token. Please check job logs for more information.</td>
</tr>
<tr>
<td>QRFIM-302</td>
<td>We were not able to get a valid response from Qualys API. Please check the job logs.</td>
</tr>
<tr>
<td>QRFIM-303</td>
<td>Qualys REST API concurrency limit reached. We will retry to fetch the data. If you need to improve the job process speed, please increase the concurrency limit for your account.</td>
</tr>
<tr>
<td>QRFIM-304</td>
<td>You are unauthorized to make Qualys JWT Auth token call. Please check with Qualys support for more information.</td>
</tr>
<tr>
<td>QRFIM-305</td>
<td>Saved Qualys JWT Auth token is expired. Do not worry we will generate a new token.</td>
</tr>
<tr>
<td>QRFIM-306</td>
<td>We got an unexpected response while getting Qualys JWT Auth token. However, do not worry we will generate a new token.</td>
</tr>
<tr>
<td>QRFIM-307</td>
<td>Invalid Qualys POD details provided. Please provide the correct information.</td>
</tr>
<tr>
<td>QRFIM-308</td>
<td>Check if Qualys POD credentials are correct.</td>
</tr>
<tr>
<td>QRFIM-309</td>
<td>Socket error during Qualys REST API request. Please check with Qualys support for more information.</td>
</tr>
<tr>
<td>QRFIM-310</td>
<td>Unknown exception during Qualys REST API request. Please check the job logs.</td>
</tr>
<tr>
<td>QRFIM-311</td>
<td>Server URL or Username or Password should not be empty. Please update them from the app settings page.</td>
</tr>
<tr>
<td>QRFIM-312</td>
<td>Exception while validating the Start Date for Job. Please provide the Date-Time format as YYYY-MM-DDTHH:MM:SS.msZ &amp; greater than 2017-01-01T00:00:00.000Z.</td>
</tr>
<tr>
<td>QRFIM-313</td>
<td>Invalid Start Date for Job. Please provide the Date-Time format as YYYY-MM-DDTHH:MM:SS.msZ &amp; greater than 2017-01-01T00:00:00.000Z.</td>
</tr>
<tr>
<td>QRFIM-314</td>
<td>We encountered an exception while validating the Qualys app configuration. Please check the job logs.</td>
</tr>
<tr>
<td>QRFIM-315</td>
<td>An invalid proxy is provided on the app settings page. Please validate if the proxy details provided are valid.</td>
</tr>
<tr>
<td>QRFIM-316</td>
<td>Got None in the API response. Qualys JWT Auth Token not received. Please check with Qualys support if the POD details are correct and authorized for FIM API.</td>
</tr>
<tr>
<td>QRFIM-400</td>
<td>We did not get any count from Qualys API for your POD. No new event in the subscription.</td>
</tr>
<tr>
<td>QRFIM-401</td>
<td>We found some errors in the JSON data we received from Qualys API. Please check the job logs and the JSON file for the API request for more information.</td>
</tr>
<tr>
<td>QRFIM-500</td>
<td>Please check the job logs for more information on which database file is required to run the job.</td>
</tr>
<tr>
<td>QRFIM-501</td>
<td>Log source not selected. Please select a valid Log source on the app settings page.</td>
</tr>
<tr>
<td>QRFIM-502</td>
<td>We were not able to decrypt the proxy password. Please check with Qualys Support.</td>
</tr>
<tr>
<td>QRFIM-503</td>
<td>Please provide a valid proxy host on the app settings page.</td>
</tr>
<tr>
<td>QRFIM-504</td>
<td>We were not able to decrypt the API password. Please check with Qualys Support.</td>
</tr>
<tr>
<td>QRFIM-505</td>
<td>Due to some exceptions, we are not able to rename the Qualys REST API response JSON file. Please check job logs for more information.</td>
</tr>
<tr>
<td>QRFIM-506</td>
<td>Due to some exceptions, we are not able to remove the Qualys REST API response JSON file. Please check job logs for more information.</td>
</tr>
<tr>
<td>QRFIM-507</td>
<td>Due to some exceptions, we are not able to save the Qualys REST API response JSON file. Please check job logs for more information.</td>
</tr>
<tr>
<td>QRFIM-508</td>
<td>You are trying to run the job which is already running. Please do not run another job manually.</td>
</tr>
<tr>
<td>QRFIM-509</td>
<td>While cleaning the JSON files we encountered an exception. Please check the job logs.</td>
</tr>
</tbody>
</table>