# Table of Contents

Introduction to Qualys App for QRadar................................................................. 5

What's New in This Release .................................................................................. 5

Prerequisites ........................................................................................................... 5

Install the App ........................................................................................................ 5

Application Dependencies ..................................................................................... 6

Configure the App .................................................................................................. 6

- Complete Verification Steps ................................................................................ 6
  - Check Log Source Event Mapping ..................................................................... 6
  - Enable "Last Scan Datetime" Parsing ................................................................. 7
  - Check Log Source ............................................................................................ 7
  - Check Custom Event Properties ....................................................................... 8

- Qualys API Configurations ............................................................................... 9
  - Qualys API ...................................................................................................... 10
  - QRadar Authorization .................................................................................... 10
  - Proxy Configuration ....................................................................................... 10
  - Download app logs ......................................................................................... 10
  - Host Detection ................................................................................................ 10
  - Knowledgebase .............................................................................................. 11

How Qualys App works? ......................................................................................... 11

- What happens after configuration? ..................................................................... 11
- How does data get into QRadar? ....................................................................... 12

Using the Qualys app ............................................................................................ 12

- Summary ........................................................................................................... 12
- Knowledgebase ................................................................................................. 13
- Search ............................................................................................................... 13
- Raw Data .......................................................................................................... 14
- Input Logs .......................................................................................................... 14
  - Host Detection ............................................................................................... 14
  - Knowledgebase .............................................................................................. 14

Uninstalling the app ............................................................................................... 15

Troubleshooting...................................................................................................... 16

- If you see no data ............................................................................................. 16
- If your host detection job is not running .......................................................... 16
- If you get “[Errno 111] Connection refused” error ........................................... 16
- If you see “HTTP Error 401: Unauthorized” error .......................................... 17
- If you see the ‘Number of host detections logged = 0’ in host detection .......... 17
- If you see “corresponding record not found in KB” message ......................... 17
- If you see “Internal Server Error” while saving settings .................................. 17
- DSM editor doesn’t show Tags or DNS properties and you can’t add them ...... 18
- If you need to delete and recreate Log Source Type “Qualys LEEF” ............... 18
- Helpful AQLs to check VM Detection Logs and Events ................................... 20
  - To check the logs ......................................................................................... 20
  - To check the event data payload ................................................................. 20

Known Issues .......................................................................................................... 21
Previous Releases ............................................................................................................. 21
  1.1.1 ........................................................................................................................................ 21
  1.1.2 ........................................................................................................................................ 21
Qualys Support ................................................................................................................. 22
Introduction to Qualys App for QRadar

Use the Qualys App for QRadar to ingest your Qualys VM detections into QRadar and visualize them on a single page. All you need to do is install the app, configure the app and schedule the sync. The Qualys App will continuously pull your detection delta so you always see updated reports. Want to visualize historical data? Just use date-time pickers given in the Qualys App and see useful reports.

What’s New in This Release

Features / Improvements:
- Improved fetching search results to have it incremental for Reports and Search
- We have improved loading of the knowledgebase data table
- You’ll be able to provide QRadar authentication token for better security while interacting with QRadar
- You’ll see query progress percentage on dashboard widget, reports, and search
- Only potential and confirmed vulnerabilities will be fetched by default. If user need Information Gathered vulnerabilities, that can be configured from Settings page

Fixed Issues:
- We have fixed widget reloading issue and now loading speed of Summary dashboard AQLs for rendering widgets is improved
- You’ll be able to download logs from Qualys App Settings page

Prerequisites

Make sure you have:
- A valid Qualys subscription
- API access to Qualys VM module
- Knowledgebase API access, if you want to enable Knowledgebase input
- Internet access and your Qualys API server must be reachable from QRadar

Install the App

Note
- Changes made for AQL are not compatible with QRadar 7.2.8 if your Qualys App version is 1.1.0 or later.
- Uninstall older version of Qualys App for QRadar before installing latest version(1.1.x.)

1) Log in to QRadar and go to the Admin tab.
2) Click on Extensions Management.
3) Click the Add button and upload the extensions .zip file. Don’t have it? Click here to download Qualys App for QRadar
4) Confirm whether you want to replace/skip any existing contents with those coming from the extension, and click the Install button.
5) Once installation is completed, refresh your QRadar user interface.
6) You should see the tab **Qualys App for QRadar** in the top menu.
7) You can enable the Listen Port (default 12468) or any configuration in the Log source, full deployment is recommended. After installation of the Qualys App, choose “Deploy Full Configuration” to get all the required configurations properly enabled.

---

**Application Dependencies**

This application has the following dependencies. These are installed by QRadar’s application management while spinning up the application container.

- vixie-cron
- python-crontab-2.1.1.tar.gz
- pycrypto-2.6.1.tar.gz

The vixie-cron is installed by installing the rpm of cronie-anacron-1.4.4-16.el6_8.2.x86_64 & cronie-1.4.4-16.el6_8.2.x86_64, whereas python-crontab-2.1.1 is installed locally using pip command.

Starting from version 1.1.0, all application dependencies are bundled with the application itself.

---

**Configure the App**

**Complete Verification Steps**

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. Some sections may not be applicable in your case, and you may need to skip them.

**Check Log Source Event Mapping**

1) Go to **Admin > DSM Editor**.
2) In **Select Log Source Type**, search for “Qualys LEEF” and click **Select** button.
3) From the Qualys LEEF screen, go to Event Mappings tab. The requirement is that there should be mapping for QualysMultiline and not for Qualys. If you see mapping for Qualys, delete it and if you don’t see mapping for QualysMultiline, 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 “QualysMultiline” (without quotes) and Category as “QualysMultiline” (without quotes).

5) Click the Choose Event link. In the “Event Categorizations” pop-up that opens, click the Create New button. Set the values as follows:
   - Name: QualysMultiline Information
   - Description: QualysMultiline Information
   - Log Source Type: Qualys LEEF
   - High Level Category: System
   - Low Level Category: Information
   - Severity: 2

6) Click Save. This will take you back to “Event Categorizations”.

7) Click and select the newly created entry, which is shown in the “Search Results” table.

8) Click Ok. This takes you back to “Create a new Event Mapping”.

9) Click Create. This takes you back to “Qualys LEEF” pop-up - Event Mappings tab.

10) Confirm that you now have 3 entries, including Event ID “QualysMultiline” - Category “QualysMultiline”.

11) Finally, click Save and close the window.

Enable “Last Scan Datetime” Parsing

1) Go to Admin > DSM Editor.

2) In Select Log Source Type, search and select “Qualys LEEF”.

3) In the pop-up that opens, go to Properties. In the list of properties, search and open “Last Scan Datetime”.

4) In the Property Configuration > Expression section, click Edit.

5) Notice the Enabled field. This field may be in disabled state (grayed out). If disabled, select the Enabled field. It changes color.

6) Click OK in the Expression section.

7) Click Save and close the window.

Check Log Source

When you install app, it will create a new Log Source named “QualysMultiline”. Please check if it is created. If you see it is created, you should skip this section. Otherwise, please follow the steps below to create a new Log Source with the same name.
1) On your console UI, go to **Admin > Data Sources > Log Sources** and click the **Add** button.
2) Add the details shown below to the form to Create QualysMultiline Log Source. All fields marked with an asterisk (*) must match exactly.
3) 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**.

<table>
<thead>
<tr>
<th>Log Source Name</th>
<th>QualysMultiline</th>
<th>*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Source Description</td>
<td>QualysMultiline</td>
<td></td>
</tr>
<tr>
<td>Log Source Type</td>
<td>Qualys LEEF</td>
<td>*</td>
</tr>
<tr>
<td>Protocol Configuration</td>
<td>TCP Multiline Syslog</td>
<td>*</td>
</tr>
<tr>
<td>Log Source Identifier</td>
<td>QualysMultiline</td>
<td>*</td>
</tr>
<tr>
<td>Listen Port</td>
<td>12468</td>
<td></td>
</tr>
<tr>
<td>Aggregation Method</td>
<td>Start/End Matching</td>
<td>*</td>
</tr>
<tr>
<td>Event Start Pattern</td>
<td>[A-Z][a-z]\d\d\d\d\d\d</td>
<td></td>
</tr>
<tr>
<td>Event End Pattern</td>
<td>qualys_event_ends</td>
<td>*</td>
</tr>
<tr>
<td>Event Formatter</td>
<td>No Formatting</td>
<td>*</td>
</tr>
<tr>
<td>Show Advance Option</td>
<td>Yes</td>
<td>*</td>
</tr>
<tr>
<td>Use Custom Source Name</td>
<td>Unchecked</td>
<td>*</td>
</tr>
<tr>
<td>Use As A Gateway Log Source</td>
<td>Checked</td>
<td>*</td>
</tr>
<tr>
<td>Flatten Multiline Events Into Single Line</td>
<td>Checked</td>
<td>*</td>
</tr>
<tr>
<td>Retain Entire Lines During Event Aggregation</td>
<td>Checked</td>
<td>*</td>
</tr>
<tr>
<td>Enabled</td>
<td>Checked</td>
<td>*</td>
</tr>
<tr>
<td>Credibility</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Target Event Collector</td>
<td>&lt;default/your choice&gt;</td>
<td></td>
</tr>
<tr>
<td>Coalescing Events</td>
<td>Unchecked</td>
<td>*</td>
</tr>
<tr>
<td>Store Event Payload</td>
<td>Checked</td>
<td>*</td>
</tr>
<tr>
<td>Log Source Extension</td>
<td>QualysLEEFCustom_ext</td>
<td>*</td>
</tr>
</tbody>
</table>

### Check Custom Event Properties

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

Qualys related properties are:

- App Version
- PCI Flag
- Qualys QID
- Severity Level
- QID Category
- CVE
- Last Fixed Datetime
- Operating System
- Qualys Host ID
- Tracking Method
- First Found Datetime
- Qualys Severity
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 LEEF log source type, please open it to edit and select Qualys LEEF as the log source type.
3) If any property does not belong to QualysMultiline log source, open it to edit and select QualysMultiline as log source.
4) Please check if all Custom Event Properties have Event Name as QualysMultiline Information. If not, select Event Name as QualysMultiline Information.
5) Finally, save the properties.

If you do not see the properties, please refer to the Troubleshooting section in this document to learn how to delete and recreate Log Source Type “Qualys LEEF”.

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

**Qualys API Configurations**

Complete the following steps once you configure the app.

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

Use the Qualys API tab to configure your Qualys credentials. Enter your Qualys API server, username and password in the appropriate fields.

QRadar Authorization

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

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.

Download app logs

You can download app logs from Qualys App container. Go to Qualys API tab and click Download app logs.

Host Detection

Use the Host Detection tab to configure and enable Host Detection input.

You must enable this input in order to use this extension. To enable this input, select the checkbox in front of Enable Host Detection fetch.
In the **Host Detection Cron Schedule** field, write a valid cron entry (time part only). Your input will run according to this schedule. This is a mandatory field. It’s advised that you keep the cron schedule in sync with your scanning schedule. For example, if you run scans once a day, schedule this input to run once a day. Learn about cron expressions...

(Optional) In the “Start Date-Time” field, enter the date from which you wish to fetch the VM detection data. The date/time is specified in `YYYY-MM-DD[THH:MM:SSZ]` format (UTC/GMT), like “2007-01-25T23:12:00Z”. This field is optional and may be left blank. When left blank, it defaults to `1999-01-01T00:00:00Z`.

(Optional) If you want to provide any extra parameters for the Host Detection API, set them in the **Extra API Parameters** field, in valid JSON format. Please refer to the Qualys API (VM, PC) User Guide for a list of API input parameters. This field is optional and may be left blank.

(Optional) If you want to get Tags in VM detection data, select the “Add Tags to Events” option.

Report and Search table batch size defines how many records to load in Report and Search table at a time.

**Knowledgebase**

Use Knowledgebase tab to configure and enable Knowledgebase input.

A copy of Qualys knowledgebase is bundled with this extension. To keep it up-to-date, please enable this input. It is advised that you update your knowledgebase copy at least once a week.

To enable this input, select the checkbox in front of **Enable Knowledgebase fetch**.

In the **Knowledgebase Cron Schedule** field, write a valid cron entry (time part only). Your input will run according to this schedule. This is a mandatory field. You might not want to run this every day. Once a week is also OK. Learn about cron expressions...

(Optional) If you want to provide any extra parameters for the Knowledgebase API, set them in the **Extra API Parameters** field, in valid JSON format. Please refer to the Qualys API (VM, PC) User Guide for a list of API input parameters. This field is optional and may be left blank.

You can specify **KB table batch size** to define the number of records to be pulled for faster loading.

---

### How Qualys App works?

**What happens after configuration?**

Once you configure and enable Host Detection input, the application bundled with this extension will start fetching your VM detection data. By default, it will pull detection data for 10 hosts 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, transforms the XML response it receives into LEEF format and sends it to the QRadar over socket using TCP port configured in “QualysMultiline” Log Source. Using DSM editor and “QualysLEEF” Log Source Type provided with this extension, QRadar then puts this data into the “events” table in Ariel database.

Using the Qualys app

Summary

When you click the Qualys App for QRadar tab in the top menu, you’ll see a summary dashboard provided by the app. It renders the following reports:

- Count of Active Hosts
- Detections by Severity
- Detections by Status
- Detections by Type
- Hosts Not Scanned in Last 30 Days
- Top 10 Vulnerabilities

By default, these reports are based on detection data in the last 20 days. To change this date-time range, use “Start Date-Time” and “End Date-Time” and click the Search button. When you click Search, all the reports are updated according to the new date-time range that you’ve defined.
Knowledgebase

The application has a default copy of knowledgebase bundled with it. This menu shows you some visualizations about current knowledgebase copy. If you enabled knowledgebase input, this copy will be kept up to date. It also shows knowledgebase in tabular format.

Search

You can search for vulnerabilities in **Search** tab by QID or CVE or by IP address. **Search by IP Address:**
Search by QID or CVE:

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 "Qualys Host Id", "Operating System", "Last Scan Datetime", "Tracking Method", "Qualys QID", "Qualys Severity", "Detection Type", "Status" from events where LOGSOURCENAME(logsourceid) = 'Qualys' OR LOGSOURCENAME(logsourceid) = 'QualysMultiline'
```
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 LEEF” log source 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.

Host Detection

```
SELECT UTF8(payload) as utf8_payload from events where utf8_payload ILIKE '%Qualys:HostDetection%' ORDER BY utf8_payload ASC
```

Knowledgebase

```
SELECT UTF8(payload) as utf8_payload from events where utf8_payload ILIKE '%Qualys:Knowledgebase%' ORDER BY utf8_payload ASC
```
Uninstalling the app

1) Uninstall the app from Admin > Extensions Management.

2) Delete saved searches for this app (in case of Qualys App version 1.0.1 or lower):
   a. Go to Log Activity > Search > New Search.
   b. In Available Saved Searches, find saved searches starting with “Qualys” and delete it.

3) Delete custom events for this app:
   a. Go to Admin > Custom Event Properties.
   b. Search and delete all entries associated with Qualys LEEF log source type. (How to do?
      Just search “qualys” and delete all the entries that displayed in search results).

4) Delete Log Source extension:
   a. Go to Admin > Log Source Extensions.
   b. Delete entries with extension “QualysLEEFCustom_ext”.

5) Delete Log Source:
   a. Go to Admin > Log Sources.
   b. Delete log source named “Qualys” or “QualysMultiline”.

6) Delete custom event mapping from Qualys LEEF:
   a. Go to Admin > DSM Editor.
   b. Search and open Qualys LEEF and go to Event Mappings tab.
   c. Delete the entry with Event ID / Category “Qualys” or “QualysMultiline”.
   d. Click Save button and close the tab.

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 you see no data

If the application isn’t bringing in your VM detection data, please go through the list below:

1) Check the data whether data indexing is happening properly with the help of AQL.
2) Check the app configuration.
   - Check host detection ETL is enabled in Qualys App Settings.
   - Check cron jobs scheduled properly. For more information about cron jobs scheduling, refer https://crontab.guru/.
   - Make sure you have the correct API and access permissions.
   - Make sure your credentials are correct.
   - If you set start date-time, make sure it complies with Qualys required format.
   - If you added extra API parameters, make sure the JSON is valid and that all the extra parameters listed are valid.
3) Make sure application dependencies were installed correctly.
4) Make sure you have done Deploy Full Configurations and your TCP port in listening.
5) Make sure QRadar has Internet access and is able to reach your Qualys API server.
6) Make sure your host detection ETL is running:
   Login to Qualys App container and run below commands:
   ```bash
   ps aux | grep python
   ```
   If your host detection job is not running
   To run the host detection ETL, run the following command:
   ```bash
   python /app/etl_host_detection.py -d
   ```
   Once you run above command, make sure you can see screen like –
   ```bash
   2020-05-19T10:29:30Z PID=27451 Qualys:HostDetection etl_host_detection INFO: Will be sending LEEF data to over socket
   ```
   If you get “[Errno 111] Connection refused” error
   Following error messages will be displayed for different cases:
   
   Case 1
   ERROR: Socket connection on port 12468 configured for 'QualysMultiline' 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.
   
   Case 2
request to https://qualysapi.qualys.com/msp/about.php:<urlopen error [Errno 111] Connection refused>
This error occurs if the proxy settings are not configured on Qualys App Settings page. You need to configure proxy setup in Qualys App Settings.

**If you see “HTTP Error 401: Unauthorized” error**

This error occurs if you provide invalid credentials. To resolve this issue, check the API server url and credentials.

**If you see the ‘Number of host detections logged = 0’ in host detection**

This can be due to following reasons:

- No scan was performed on the POD in the given period of time.
- No vulnerabilities are detected for the scan.
- If the API parameters are incorrect.
  For Example the 'vm_processed_after': '1999-01-01 00:00' is wrong in following API Request.
  https://qualysapi.qualys.com/api/2.0/fo/asset/host/vm/detection/ with
  PARAM: {'truncation_limit': 10, 'show_results': 0, 'show_igs': 1, 'output_format': 'XML', 'show_tags': 0, 'action': 'list', 'vm_processed_after': '1999-01-01 00:00'}

**If you see “corresponding record not found in KB” message**

The following message may appear in Host Detection logs:

A record for QID QID-Number found on Host %s, but its corresponding record not found in KB. May be KB is not updated.

This means you have some detections of given QID, but since your knowledgebase is not up-to-date, the app could not enrich the event data with QID details (like title, category, CVEs, patchable etc.). Maybe you have not enabled the Knowledgebase input in Qualys App Settings. Enable it and schedule it to run at least once a week.

**If you see “Internal Server Error” while saving settings**

1) This error occurs if Log Source ‘QualysMultiline’ is not configured. You need to complete Log Source configurations.

2) This error occurs if ‘Deploy Full Configuration’ is not done before configuring Qualys App for QRadar.

3) Log source TCP port is not listening. To check, run the following command on QRadar box.
netstat -tulpn | grep LISTEN
To enable TCP listen port, you need to Deploy Full Configurations. Even after the Deploy Full Configuration, please contact IBM Support.

4) There might be some issue with cron service. Please follow the steps given below to identify the issue.
- Go to QRadar terminal and connect to Qualys app’s container. Check if cron service is up and running, if it is not running, start it.

- If you do not find cron service, that means QRadar did not install cron while installing Qualys app. You will have to manually install the cron service and start it. You can confirm the issue from /store/log/startup.log file as well. It should indicate that cron installation failed.

**DSM editor doesn't show Tags or DNS properties and you can't add them**

After installation of Qualys App, if DSM editor does not show TAGS and DNS properties, you can try adding them manually. If you are unable to add them manually, please follow these steps:

1) Check if "QualysMultiline" Log Source has correct Log Source Type. If it is not correct, delete the log source.
2) From DSM editor, delete the “Qualys LEEF” entry and create a new one. Add appropriate event mappings as mentioned in the Check Log Source Event Mapping section of this document.
3) Create a new Log Source using newly created “Qualys LEEF” as Log Source Type.
4) Complete Deploy Full Configurations step.
5) Go through the Check Custom Event Properties section of this document to make sure event mappings are all correct.

**If you need to delete and recreate Log Source Type “Qualys LEEF”**

Add the following custom event properties to newly created Log Source Type. For each property in the table below, Type should be “Regex”.

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Log Source Type</th>
<th>Log Source</th>
<th>Event Name</th>
<th>Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>App Version</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>app_version=[^\t]+</td>
</tr>
<tr>
<td>CVE</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>cves=[^\t]+</td>
</tr>
<tr>
<td>DNS</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>dns=[^\t]+</td>
</tr>
<tr>
<td>Detection Type</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>detection_type=[^\t]+</td>
</tr>
<tr>
<td>First Found Datetime</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>first_found_datetime=[^\t]+</td>
</tr>
<tr>
<td>Host IP</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>ip=[^\t]+</td>
</tr>
<tr>
<td>Last Fixed Datetime</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>last_fixed_datetime=[^\t]+</td>
</tr>
<tr>
<td>Last Found Datetime</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>last_found_datetime=[^\t]+</td>
</tr>
<tr>
<td>Last Scan Datetime</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>last_scan_datetime=[^\t]+</td>
</tr>
<tr>
<td>Last Test Datetime</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>last_test_datetime=[^\t]+</td>
</tr>
<tr>
<td>Last Update Datetime</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>last_update_datetime=[^\t]+</td>
</tr>
<tr>
<td>Network ID</td>
<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
<td>network_id=[^\t]+</td>
</tr>
<tr>
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<td>QualysMultiline Information</td>
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<td>QualysMultiline Information</td>
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<td>QualysMultiline Information</td>
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<tr>
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<td>Qualys LEEF</td>
<td>QualysMultiline</td>
<td>QualysMultiline Information</td>
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Helpful AQLs to check VM Detection Logs and Events

Use the following AQLs to check VM detection data and perform troubleshooting.

To check the logs

Get the PID (process id) of either etl_host_detection or etl_knowledgebase using the below command inside the container:

```
cat app/host_detection.pid

cat app/etl_knowledgebase.pid
```

On the Log Activity search following queries under Advance Search. It will show you the log for the particular PID (replace the <PID> with the appropriate process id):

```
SELECT UTF8(payload) as utf8_payload from events where utf8_payload ILIKE '%PID=<PID>%' ORDER BY utf8_payload ASC

SELECT UTF8(payload) as utf8_payload from events where utf8_payload ILIKE '%Qualys:HostDetection%' ORDER BY utf8_payload ASC

SELECT UTF8(payload) as utf8_payload from events where utf8_payload ILIKE '%Qualys:Knowledgebase%' ORDER BY utf8_payload ASC

SELECT UTF8(payload) as utf8_payload from events where utf8_payload ILIKE '%detections =%' ORDER BY utf8_payload ASC

SELECT UTF8(payload) as utf8_payload from events where LOGSOURCENAME(logsourceid) = 'Qualys' OR LOGSOURCENAME(logsourceid) = 'QualysMultiline'
```

To check the event data payload

```
SELECT LOGSOURCENAME(logsourceid) as logsourceids, UTF8(payload) as utf8_payload from events where LOGSOURCENAME(logsourceid) = 'Qualys' OR LOGSOURCENAME(logsourceid) = 'QualysMultiline'

SELECT "Qualys Host Id", "Operating System", "Last Scan Datetime", "Tracking Method", "Qualys QID", "Qualys Severity", "Detection Type", "Status" from events where LOGSOURCENAME(logsourceid) = 'Qualys' OR LOGSOURCENAME(logsourceid) = 'QualysMultiline'
```
Known Issues

1. Reports and search table rendering happens after all the records for search results are fetched. Sometime it is observed that reports rendering breaks for huge data while processing and loading data table.
2. For Active Host widgets on Summary dashboard, the aggregate AQL returns maximum 1000001 hosts.

Previous Releases

Following were the updates from previous releases:

1.1.1

- We have fixed an issue where 'Internal Server Error - 500' message was displayed on Settings page. This was occurring due to the App was not able to fetch DSM Port which is need for TCP Multiline Socket Connection.
- We have fixed an issue where '[Errno 111] Connection refused' message occurs if the DSM port is not listening and when the user tries to fetch Host Detection or Knowledgebase Data. For more details, refer Troubleshooting section.
- From Qualys App for QRadar version 1.1.1, API Password and Proxy Server Password is encrypted.
- From Qualys App for QRadar version 1.1.1, the proxy server password is masked while configuring proxy.
- While using the HTTPS in proxy URL, app uses ca-bundle.crt file. By default, IBM QRadar provides this file. If the user wants to use their CA certificate file, they should follow the steps given in the link: https://www.ibm.com/support/knowledgecenter/en/SS42VS_7.3.2/com.ibm.qradar.doc/t_qradar_adm_updates_proxy.html

1.1.2

- If the KB file is not updated then NA will be provided for the QIDs in the host information.
- Updated the configuration missing warning on Qualys App dashboard. If any data pull is not enabled then it will show data pull specific warning.
- Updated the reports and search data tables to show the row details. The outer row will show important information and the inner rows will show associated rows.
- Jquery updated to 3.5.1 version.
- Using (\^[\t]+) in all the custom event properties regex.
- If the data feed is running for HD or KB it will update the setting page tabs accordingly with the process ID.
- Non-Admin users can access the Qualys app for QRadar.
- How to manage user roles?
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 App Settings page, and attach them to your support case.