

ThreatQuotient

A Securonix Company



ThreatQ Task Alerts Connector

Version 1.1.0

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ThreatQuotient

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 **ThreatQ Supported**

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.1.0
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Compatible with ThreatQ Versions	>= 5.11.0
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Python Version	3.6
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Support Tier	ThreatQ Supported
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Introduction

The ThreatQ Task Alerts Connector for ThreatQuotient enables users to be alerted via email when they are assigned to new/updated tasks.

Prerequisites

Review the following requirements before attempting to install the connector.

Email Inbox

The connector requires an email inbox that can be authenticated with and accessed via SMTP.

Time Zone

 The time zone steps are for ThreatQ v5 only. ThreatQ v6 users should skip these steps.

You should ensure all ThreatQ devices are set to the correct time, time zone, and date (UTC is recommended), and using a clock source available to all.

To identify which time zone is closest to your present location, use the `timedatectl` command with the `list-timezones` command line option.

For example, enter the following command to list all available time zones in Europe:

```
timedatectl list-timezones | grep Europe
Europe/Amsterdam
Europe/Athens
Europe/Belgrade
Europe/Berlin
```

Enter the following command, as root, to change the time zone to UTC:

```
timedatectl set-timezone UTC
```

Integration Dependencies

 The integration must be installed in a python 3.6 environment.

The following is a list of required dependencies for the integration. These dependencies are downloaded and installed during the installation process. If you are an Air Gapped Data Sync (AGDS) user, or run an instance that cannot connect to network services outside of your infrastructure, you will need to download and install these dependencies separately as the integration will not be able to download them during the install process.

 Items listed in bold are pinned to a specific version. In these cases, you should download the version specified to ensure proper function of the integration.

DEPENDENCY	VERSION	NOTES
threatqsdk	>=1.8.0	N/A
threatqcc	>=1.4.0	N/A
six	N/A	N/A
jinja2	N/A	N/A
python-dateutil	N/A	N/A

Installation

⚠ Upgrading Users - Review the [Change Log](#) for updates to configuration parameters before updating. If there are changes to the configuration file (new/removed parameters), you must first delete the previous version's configuration file before proceeding with the install steps listed below. Failure to delete the previous configuration file will result in the connector failing.

ThreatQ v6 Process

1. Download the connector integration file from the ThreatQ Marketplace.
2. Transfer the connector whl file to the `/tmp/` directory on your instance.
3. SSH into your instance.
4. Move the connector whl file from its `/tmp/` location to the following directory: `/opt/tqenv`
5. Navigate to the custom connector container:

```
kubectl exec -n threatq -it deployments/custom-connectors  
-- /bin/bash
```

6. Create your python 3 virtual environment:

```
python3.6 -m venv /opt/tqenv/<environment_name>
```

7. Active the new environment:

```
source /opt/tqenv/<environment_name>/bin/activate
```

8. Run the pip upgrade command:

```
pip install --upgrade pip
```

9. Install the required dependencies:

```
pip install threatqsdk threatqcc python-dateutil setuptools==59.6.0
```

10. Install the connector:

```
pip install /opt/tqenv/tq_conn_task_alerts-<version>-py3-none-any.whl
```

11. Perform an initial run of the connector:

```
/opt/tqenv/<environment_name>/bin/tq-conn-task-alerts -ll /var/log/tq_labs/ -c /etc/tq_labs/ --cron="0 */2 * * *"
```



The `--cron` argument above is used to generate a cron job for the connector. After running the command above, the cronjob will be created under the `/etc/cron.d/` directory. This entry will initially be commented out upon creation - see the [CRON](#) chapter for more details.

12. Enter the following parameters when prompted:

PARAMETER	DESCRIPTION
ThreatQ Host	Leave this field blank as it will be set dynamically.
ThreatQ Client ID	This is the OAuth id that can be found at Settings Gear → User Management → API details within the user's details.
ThreatQ Username	This is the Email Address of the user in the ThreatQ System for integrations.
ThreatQ Password	The password for the above ThreatQ account.
Status	This is the default status for objects that are created by this Integration.

Example Output

```
/opt/tqvenv/<environment_name>/bin/tq-conn-task-alerts --cron="0 */2 *
* *"
ThreatQ Host:
ThreatQ Client ID: <ClientID>
ThreatQ Username: <EMAIL ADDRESS>
ThreatQ Password: <PASSWORD>
Status: Review
Connector configured. Set information in UI
```

You will still need to [configure and then enable the connector](#).

ThreatQ v5 Process

1. Navigate to the ThreatQ Marketplace and download the .whl file for the integration.
2. Create the following directory:

```
mkdir /opt/tqvenv/
```

3. Install python 3.6:

```
sudo yum install -y python36 python36-libs python36-devel
python36-pip
```

4. Create a virtual environment:

```
python3.6 -m venv /opt/tqvenv/<environment_name>
```

5. Activate the virtual environment:

```
source /opt/tqvenv/<environment_name>/bin/activate
```

6. Run the pip upgrade command:

```
pip install --upgrade pip
```

7. Install the required dependencies:

```
pip install threatqsdk threatqcc python-dateutil setuptools==59.6.0
```

8. Transfer the whl file to the /tmp directory on your ThreatQ instance.

9. Install the connector on your ThreatQ instance:

```
pip install /tmp/tq_conn_task_alerts-<version>-py3-none-any.whl
```



A driver called tq-conn-task-alerts will be installed. After installing, a script stub will appear in /opt/tqenv/<environment_name>/bin/tq-conn-task-alerts.

10. Once the application has been installed, a directory structure must be created for all configuration, logs and files, using the mkdir -p command. Use the commands below to create the required directories:

```
mkdir -p /etc/tq_labs/ mkdir -p /var/log/tq_labs/
```

11. Perform an initial run using the following command:

```
/opt/tqenv/<environment_name>/bin/tq-conn-task-alerts -ll /var/log/tq_labs/ -c /etc/tq_labs/ -v3
```

12. Enter the following parameters when prompted:

PARAMETER	DESCRIPTION
ThreatQ Host	This is the host of the ThreatQ instance, either the IP Address or Hostname as resolvable by ThreatQ.
ThreatQ Client ID	This is the OAuth id that can be found at Settings Gear → User Management → API details within the user's details.
ThreatQ Username	This is the Email Address of the user in the ThreatQ System for integrations.

PARAMETER	DESCRIPTION
ThreatQ Password	The password for the above ThreatQ account.
Status	This is the default status for objects that are created by this Integration.

Example Output

```
/opt/tqvenv/<environment_name>/bin/tq-conn-task-alerts -ll /var/
log/tq_labs/ -c /etc/tq_labs/ -v3
ThreatQ Host: <ThreatQ Host IP or Hostname>
ThreatQ Client ID: <ClientID>
ThreatQ Username: <EMAIL ADDRESS>
ThreatQ Password: <PASSWORD>
Status: Review
Connector configured. Set information in UI
```

You will still need to [configure and then enable the connector](#).

Configuration



ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other integration-related credentials.

To configure the integration:

1. Navigate to your integrations management page in ThreatQ.
2. Select the **Labs** option from the *Category* dropdown (optional).
3. Click on the integration entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

PARAMETER	DESCRIPTION
Sender Email	The email that will be used to send reports.
Sender Password	The password for the Sender Email.
SMTP Server	The SMTP Server used by your email provider.
SMTP Port	The port used by your SMTP server.
Use SSL	Select whether or not you want to connect to your SMTP server using SSL.
Assignees to Alert	Enter a line-separated list of assignee emails to receive email reports.
ThreatQ Hostname/IP	Your ThreatQ instance's hostname or IP. This will allow reports to link back to your ThreatQ instance.
Email Theme	Select the theme you want to use for the email's HTML. Options include Light mode and Dark mode .

< ThreatQ Task Alerts



Disabled
☒
Enabled

Additional Information

Integration Type: Connector

Configuration

Sender Email
 xxxxxxx@gmail.com

Enter the email that you want the reports to be sent from

Sender Password

Enter the password for the sender email

SMTP Server
 smtp.gmail.com

Enter the SMTP Server used by your email provider

SMTP Port
 465

Enter the port used by your SMTP server

☒ Use SSL

Whether or not you want to connect to your SMTP server using SSL or not.

Assignees To Alert
 analyst@threatq.com

Enter a line-separated list of assignee emails to send alert emails to

ThreatQ Hostname/IP
 threatq.local

Enter your ThreatQ instance's hostname or IP so we can link back to it.

Email Theme
 Dark

Select the theme you want to use for the email's HTML

Save

5. Review any additional settings, make any changes if needed, and click on **Save**.
6. Click on the toggle switch, located above the *Additional Information* section, to enable it.

Usage

Use the following command to execute the driver:

ThreatQ v6 Driver Command

```
/opt/tqvenv/<environment_name>/bin/tq-conn-task-alerts -ll /var/log/tq_labs/ -c /etc/tq_labs/
```

ThreatQ v5 Driver Command

```
/opt/tqvenv/<environment_name>/bin/tq-conn-task-alerts -v3 -ll /var/log/tq_labs/ -c /etc/tq_labs/
```

Command Line Arguments

This connector supports the following custom command line arguments:

ARGUMENT	DESCRIPTION
<code>-h, --help</code>	Review all additional options and their descriptions.
<code>-ll LOGLOCATION, --loglocation LOGLOCATION</code>	Sets the logging location for the connector. The location should exist and be writable by the current. A special value of 'stdout' means to log to the console (this happens by default).
<code>-c CONFIG, --config CONFIG</code>	This is the location of the configuration file for the connector. This location must be readable and writable by the current user. If no config file path is given, the current directory will be used. This file is also where some information from each run of the connector may be put (last run time, private oauth, etc.)

ARGUMENT	DESCRIPTION
<code>-v {1,2,3}, --verbosity {1,2,3}</code>	This is the logging verbosity level where 3 means everything.
<code>-hist, --historical {DATE}</code>	This allows you to use to manually set the start date for the Threat Library search.
<code>-retry, --retry-alerts</code>	By default, alerts are cached so assignees do not receive duplicate emails. This means that if you run historically, alerts won't be sent out for tasks that have already been alerted to an assignee. However, using this flag, you can re-send those alert emails.
<code>--cron</code>	ThreatQ v6 Only - creates a CRON entry for the connector based on a pre-loaded ThreatQ template. See the CRON section for more details.

Accessing Connector Logs

ThreatQ v6

ThreatQ version 6 aggregates the logs for all custom connectors to its output container. You can access the container's log using the following command:

```
kubect1 logs -n threatq deployments/custom-connectors
```

ThreatQ v5

The connector log directory was created in 10 of the installation process and is identified using the `-ll` argument flag when executing the driver.

Accessing Connector Configuration

ThreatQ v6

The custom connector configuration file can be found in the following directory: `/etc/tq_labs/`.

ThreatQ v5

The custom connector configuration file was created in step 10 of the install process and identified using the `-c` argument flag when executing the driver.

CRON

ThreatQ v6 CRON

The addition of the `--cron` argument in the initial run of connector, performed during the install process, resulted in the creation of a cron job file for the connector in the following directory: `/etc/cron.d/`. The contents of the file will resemble the following structure:

```
{schedule} root /bin/bash -c "source /etc/env-vars.sh;  
{venv_path}/bin/{executable} --config=/etc/tq_labs > /proc/1/fd/1  
2>/proc/1/fd/2"
```

The `{schedule}` will be replaced with the cron settings you entered with the `--cron` flag and the `{executable}` will be replaced for with the connector's driver command.

You will also see a `#` at the beginning of the file. This comments out the job. This allows you to configure the custom connector in the ThreatQ UI first. After you have configured the connector in ThreatQ, you can remove the `#` from the file content's in order to activate the cron job.

To summarize this process:

1. Install the connector and perform an initial run using the `--cron` argument to create the cron job.
2. Complete the connector's configuration settings in the ThreatQ UI.
3. Access the connector's cron file in the `/etc/cron.d/` directory and remove the `#` from the beginning of the file.

ThreatQ v5 CRON

Automatic CRON configuration has been removed from this script. To run this script on a recurring basis, use CRON or some other jobs scheduler. The argument in the CRON script must specify the config and log locations.

Add an entry to your Linux crontab to execute the connector at a recurring interval. Depending on how quickly you need updates, this can be run multiple times a day (no more than once an hour) or a few times a week.

In the example below, the command will execute the connector every two hours.

1. Log into your ThreatQ host via a CLI terminal session.

2. Enter the following command:

```
crontab -e
```

This will enable the editing of the crontab, using vi. Depending on how often you wish the cronjob to run, you will need to adjust the time to suit the environment.

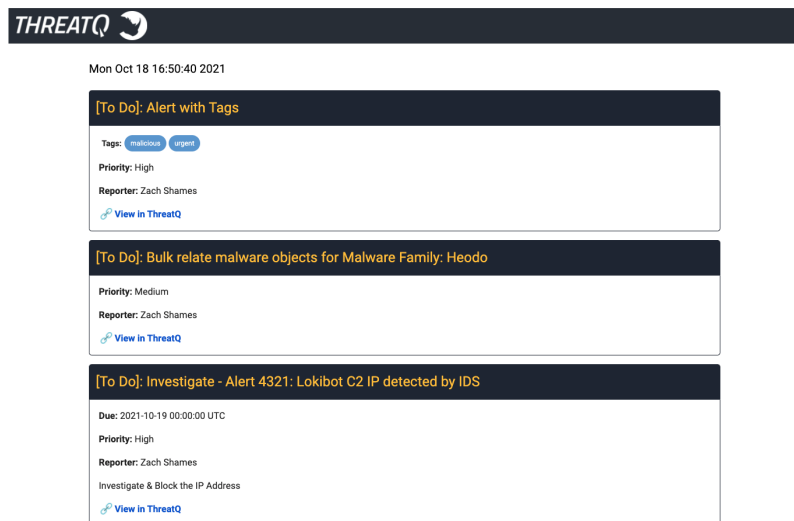
3. Enter the commands below:

Every 2 Hours Example

```
0 */2 * * * /opt/tqenv/<environment_name>/bin/tq-conn-task-alerts -c /etc/tq_labs/ -ll /var/log/tq_labs/ -v3
```

4. Save and exit CRON.

Example Email - Light Mode



Mon Oct 18 16:50:40 2021

[To Do]: Alert with Tags

Tags: malicious urgent

Priority: High

Reporter: Zach Shames

[View in ThreatQ](#)

[To Do]: Bulk relate malware objects for Malware Family: Heodo

Priority: Medium

Reporter: Zach Shames

[View in ThreatQ](#)

[To Do]: Investigate - Alert 4321: Lokibot C2 IP detected by IDS

Due: 2021-10-19 00:00:00 UTC

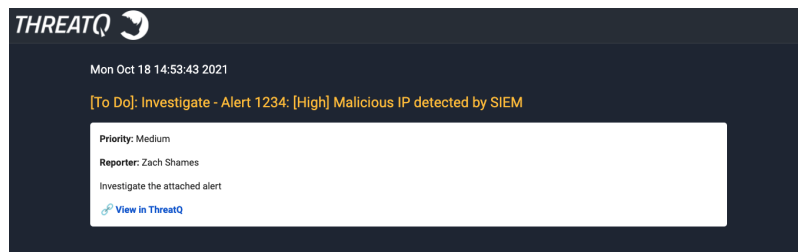
Priority: High

Reporter: Zach Shames

Investigate & Block the IP Address

[View in ThreatQ](#)

Example Email - Dark Mode



Mon Oct 18 14:53:43 2021

[To Do]: Investigate - Alert 1234: [High] Malicious IP detected by SIEM

Priority: Medium

Reporter: Zach Shames

Investigate the attached alert

[View in ThreatQ](#)

Change Log

- **Version 1.1.0**
 - Added support for configurable SMTP security modes, including **SSL**, **STARTTLS**, and **plaintext**, providing greater compatibility with a wider range of mail server configurations.
- **Version 1.0.1**
 - Removed groups from the `/api/users` request to prevent execution failures and improve request reliability.
 - Updated the minimum ThreatQ version to 5.11.0.
- **Version 1.0.0 rev-a**
 - Guide Update - added ThreatQ v6 documentation.
- **Version 1.0.0**
 - Initial release