

ThreatQuotient



Bulk Apply Attributes Connector User Guide

Version 1.1.0

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ThreatQuotient

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Integration Details

ThreatQuotient provides the following details for this integration:

| | |
|-----------------------------|-------|
| Current Integration Version | 1.1.0 |
|-----------------------------|-------|

| | |
|-------------------------------------|-----------|
| Compatible with ThreatQ Versions | >= 4.34.0 |
|-------------------------------------|-----------|

| | |
|----------------|-----|
| Python Version | 3.6 |
|----------------|-----|

| | |
|--------------|-------------------|
| Support Tier | ThreatQ Supported |
|--------------|-------------------|

Introduction

The Bulk Apply Attributes connector allows a ThreatQ user to apply attributes (with a custom source/TLP) to any objects in a data collection.

Prerequisites

Review the following requirements before attempting to install the connector.

Time Zone

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 |

| DEPENDENCY | VERSION | NOTES |
|------------|---------|-------|
| threatqcc | >=1.3.1 | N/A |

Installation

The following provides you with steps on installing a Python 3 Virtual Environment and installing the connector.

Creating a Python 3.6 Virtual Environment

Run the following commands to create the virtual environment:

```
mkdir /opt/tqvenv/  
sudo yum install -y python36 python36-libs python36-devel python36-pip  
python3.6 -m venv /opt/tqvenv/<environment_name>  
source /opt/tqvenv/<environment_name>/bin/activate  
pip install --upgrade pip  
pip install threatqsdk threatqcc setuptools==59.6.0
```

Proceed to [Installing the Connector](#).

Installing the Connector

⚠ 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.

1. Navigate to the ThreatQ Marketplace and download the .whl file for the integration.
2. Activate the virtual environment if you haven't already:

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

3. Transfer the whl file to the /tmp directory on your ThreatQ instance.
4. Install the connector on your ThreatQ instance:

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



A driver called tq-conn-bulk-apply-attributes will be installed. After installing, a script stub will appear in /opt/tqvenv/<environment_name>/bin/tq-conn-bulk-apply-attributes.

5. 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/
```

6. Perform an initial run using the following command:

```
/opt/tqvenv/<environment_name>/bin/tq-conn-bulk-apply-attributes -ll /  
var/log/tq_labs/ -c /etc/tq_labs/ -v3
```

7. 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. |

| PARAMETER | DESCRIPTION |
|------------------|---|
| 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-bulk-apply-attributes -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 |
|-------------------------|---|
| Data Collection Name | Enter the name of your ThreatQ Threat Library Data Collection. |
| Attributes to Apply | A list of attributes to add to the objects. These entries must be entered one per line and are equals-separated. Example: Share=Yes |
| Custom Source Name | Enter the source name to give to the objects and attributes. This parameter is optional. |
| TLP Source | The TLP designation to apply to the objects and attributes. This setting will be ignored if the TLP visibility setting in ThreatQ is disabled. |
| Apply to All Objects | Enabling this will apply the attributes to all objects from the data collection. |
| Apply to Object Subsets | If you did not use the Apply to All Objects checkbox, you can use the multi-list box to select specific objects types. |

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:

```
/opt/tqvenv/<environment_name>/bin/tq-conn-bulk-apply-attributes -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.) |
| <code>-v {1,2,3}, --verbosity {1,2,3}</code> | This is the logging verbosity level where 3 means everything. |
| <code>-n, --name</code> | Optional - Name of the connector (Option used in order to allow users to configure multiple Intelligence Mailbox connector instances on the same TQ box). |

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.

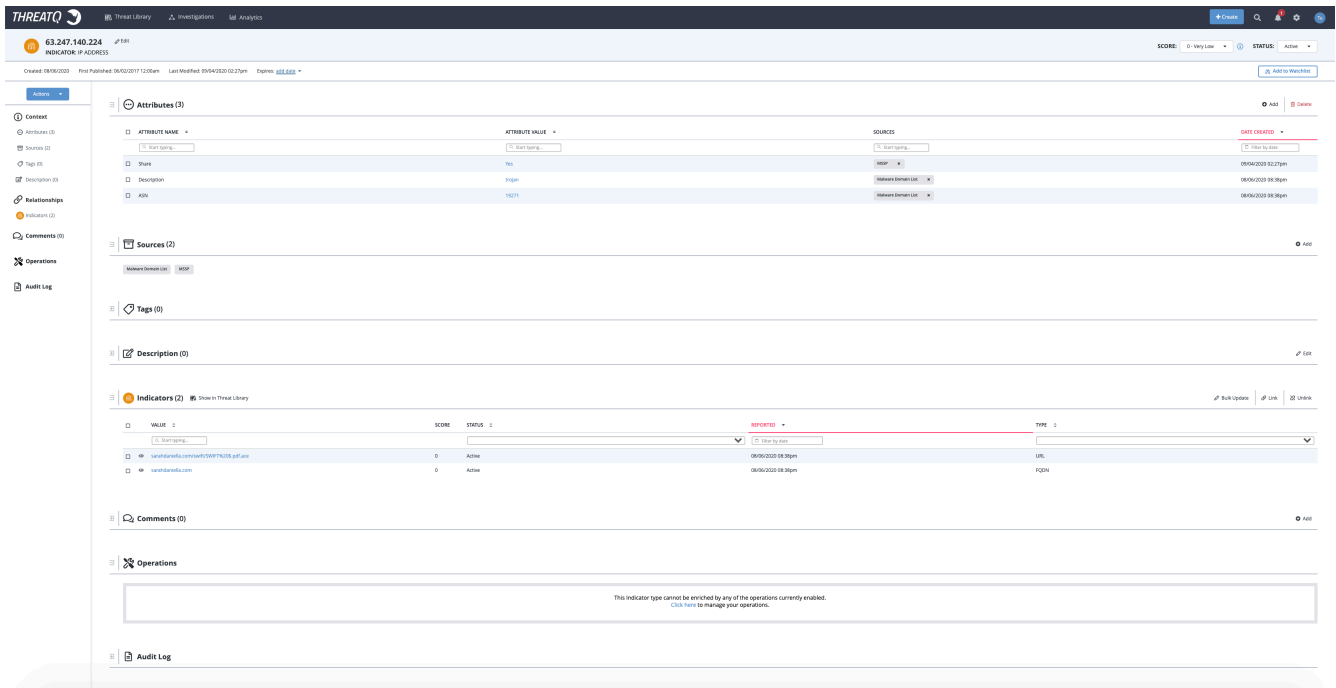
3. Enter the commands below:

Every 2 Hours Example

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

4. Save and exit CRON.

Example Results



The screenshot displays the THREATQ interface for an indicator with ID 63.247.140.224. The interface includes a sidebar with navigation options: Context, Attributes (3), Sources (2), Tags (0), Description (0), Indicators (2), Comments (0), Operations, and Audit Log. The main content area shows the following sections:

- Attributes (3):** A table with columns for Attribute Name, Attribute Value, and Sources.

| Attribute Name | Attribute Value | Sources |
|----------------|-----------------|----------------|
| Start Spang | 11 Start Spang | 11 Start Spang |
| Share | Yes | 11 Start Spang |
| Description | 11 Start Spang | 11 Start Spang |
| ASN | 15071 | 11 Start Spang |
- Sources (2):** A table with columns for Source Name, Source Type, and Date Created.

| Source Name | Source Type | Date Created |
|----------------|----------------|--------------------|
| 11 Start Spang | 11 Start Spang | 08/06/2023 02:27pm |
| 11 Start Spang | 11 Start Spang | 08/06/2023 02:27pm |
- Tags (0):** No tags are present.
- Description (0):** No description is present.
- Indicators (2):** A table with columns for Value, Score, Status, Type, and Date Created.

| Value | Score | Status | Type | Date Created |
|----------------|-------|--------|------|--------------------|
| 63.247.140.224 | 0 | Active | URL | 08/06/2023 02:27pm |
| 63.247.140.224 | 0 | Active | URL | 08/06/2023 02:27pm |
- Comments (0):** No comments are present.
- Operations:** A message stating: "This indicator type cannot be enriched by any of the operations currently enabled. Click here to manage your operations."
- Audit Log:** No audit log entries are present.

Change Log

- **Version 1.1.0**
 - Added functionality to allow the program to run in Python 3.
 - Migrated the Threat Library to using the new module in the TQ SDK.
- **Version 1.0.0**
 - Initial Release