# **ThreatQuotient**



## **Proofpoint TAP Connector Guide**

Version 1.3.2

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### **ThreatQuotient**

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# **Integration Details**

ThreatQuotient provides the following details for this integration:

**Current Integration** 

Version

Compatible with ThreatQ

**Versions** 

>= 4.50.0

1.3.2

**Python Version** 3.6

**Support Tier** 

ThreatQ Supported

ThreatQ Marketplace

https://

marketplace.threatq.com/ details/proofpoint-tap



## Introduction

Proofpoint TAP is a service that analyzes, detects and helps mitigate attacks that target people via email. The analysis data for each email that has been flagged as malicious by TAP is available via their API. The API provides multiple endpoints, of which we use the following:

#### **SIEM**

The SIEM endpoint allows integration with these solutions by giving administrators the ability to periodically download detailed information about several types of TAP events in a SIEM-compatible, vendor-neutral format. Currently, the following event types are exposed:

- Blocked or permitted clicks to threats recognized by URL Defense
- Blocked or delivered messages that contain threats recognized by URL Defense or Attachment Defense

#### Campaign

The Campaign endpoint allows administrators to pull specific details about campaigns, including:

- · Their description
- The actor, malware family, and techniques associated with the campaign
- The threat variants which have been associated with the campaign

#### **Forensics**

The Forensics endpoint allows administrators to pull detailed forensic evidences about individual threats or campaigns observed in their environment. These evidences could be used as indicators of compromise to confirm infection on a host, as supplementary data to enrich and correlate against other security intelligence sources, or to orchestrate updates to security endpoints to prevent exposure and infection.



## **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**



1 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	>=1.8.1	N/A
threatqcc	>=1.4.1	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
pip install 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_proofpoint_tap-<version>-py3-none-
any.whl
```



A driver called tq-conn-proofpoint-tap will be installed. After installing, a script stub will appear in /opt/tqvenv/<environment\_name>/bin/tq-conn-proofpoint-tap.

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:

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.



PARAMETER	DESCRIPTION
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**

 $/opt/tqvenv/<environment\_name>/bin/tq-conn-proofpoint-tap -ll /var/log/tq\_labs/ -c /etc/tq\_labs/ -v3$ 

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
Hostname	Hostname or IP address of the Proofpoint TAP API.
API Principal	The principal provided for the API.
API Secret	The secret provided for the API.
Number of Hours to Pull Data from History	An integer representing a historical time window in hours to pull data from the SIEM all endpoint.  The max historical timeframe is 48 hours.
Do you want to create an Incident in ThreatQ if Proofpoint TAP Reports tha a User has clicked on a URL?	Proofpoint TAP returns data if it has detected that a user has clicked on a malicious URL. If this flag is set to Yes, the integration will automatically create incidents in ThreatQ.

- 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-proofpoint-tap -v3
    -ll /var/log/tq_labs/ -c /etc/tq_labs/
```

## **Command Line Arguments**

This connector supports the following custom command line arguments:

ARGUMENT	DESCRIPTION
-h,help	Shows this help message and exits.
-11 LOGLOCATION,loglocation LOGLOCATION	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).
-c CONFIG, config CONFIG	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.)
-v {1,2,3}, verbosity {1,2,3}	This is the logging verbosity level where <b>3</b> means everything. The default setting is <b>1</b> (Warning).
-ep,external- proxy	This allows you to use the proxy that is specified in the ThreatQ UI.
-ds,disable- ssl	Adding this flag will disable SSL verification when contacting the Metron API.



### **ARGUMENT**

#### **DESCRIPTION**

-dp, --disableproxy This flag will allow the connector to bypass the proxy when running.



### **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/tqvenv/<environment_name>/bin/tq-conn-
proofpoint-tap -c /etc/tq_labs/ -ll /var/log/tq_labs/ -v3
```

4. Save and exit CRON.



# Change Log

- Version 1.3.2
  - Added improved error handling for the integration.
- Version 1.3.1
  - Added a flag, -dp, that allows the connector to bypass proxy when running.
  - Added new configuration parameter for creating incidents.
- Version 1.3.0
  - Added Python 3 support.
- Version 1.2.0
  - Added the ability to open incident response tickets if the user has requested it via the ThreatQ UI.
- Version 1.1.0
  - · Improved exception handling
  - Optimized API calls to Proofpoint TAP
- Version 1.0.0
  - · Initial Release