ThreatQuotient

Extrahop Connector Guide

Version 1.2.0

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Contents

Versioning

- Current integration version: `1.2.0`
- Supported on ThreatQ versions >= `4.34.0`

There are two versions of this integration:

- Python 2 version
- Python 3 version

Introduction

The Extrahop Connector allows a user to export indicators directly to Extrahop via Extrahop's REST API.

The indicator types pushed to Extrahop are:

- FQDN
- URL
- IP Address
- IPv6 Address

The Extrahop Connector creates a new Extrahop Collection whose name is the same as the configured ThreatQ data collection. Every time the connector runs, this Extrahop Collection is overwritten.

Installation

The connector can be installed from the ThreatQuotient repository with YUM credentials or offline via a .whl file.

> **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. Install the connector using one of the following methods:

   ThreatQ Repository

   a. Run the following command:

   ```
   <> pip install tq_conn_extrahop
   ```

   Offline via .whl file

   To install this connector from a wheel file, the wheel file (.whl) will need to be copied via SCP into your ThreatQ instance.

   a. Download the connector whl file with its dependencies:

   ```
   <> mkdir /tmp/tq_conn_extrahop

      pip download tq_conn_extrahop -d

      /tmp/tq_conn_extrahop/
   ```

   b. Archive the folder with the .whl files:

   ```
   <> tar -czvf tq_conn_extrahop.tgz /tmp/ tq_conn_extrahop/
   ```

   c. Transfer all the whl files, the connector and all the dependencies, to the ThreatQ instance.

   d. Open the archive on ThreatQ:

   ```
   <> tar -xvf tq_conn_extrahop.tgz
   ```

   e. Install the connector on the ThreatQ instance.

The example assumes that all the whl files are copied to `/tmp/conn` on the ThreatQ instance.

```
<> pip install /tmp/conn/ tq_conn_extrahop-<version>-<python
   version>-none-any.whl --no-index --find-links /tmp/conn/
```

pip install /tmp/conn/ tq_conn_extrahop-1.1.0-py2-none-any.whl --no-index --find-links /tmp/conn/

A driver called `tq-conn-extrahop` will be installed. After installing with `pip` or `setup.py`, a script stub will appear in `/usr/bin/tq-conn-extrahop`.

2. 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
```

3. Perform an initial run using the following command:

```
<> tq-conn-extrahop -v3 -ll /var/log/tq_labs/ -c /etc/tq_labs/
```

4. 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.
Client ID	This is the OAuth id that can be found at Settings Gear → User Management → API details within the user's details.
Email Address	This is the User in the ThreatQ System for integrations.
Password	The password for the above ThreatQ account.

PARAMETER	DESCRIPTION
Status	This is the default status for objects that are created by this Integration.

Example Output

```
tq-conn-extrahop -v3 -ll /var/log/tq_labs/ -c /etc/tq_labs/
ThreatQ Host: <ThreatQ Host IP or Hostname>
Client ID: <ClientID>
E-Mail Address: <EMAIL ADDRESS>
Password: <PASSWORD>
Status: Review
Connector configured. Set information in UI
```

You will still need to configure and then enable the connector.

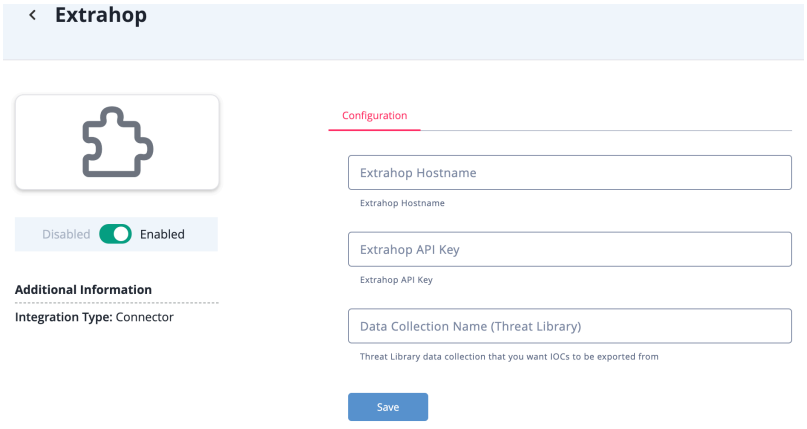
Configuration

> 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 to open its details page.
4. Enter the following parameters under the **Configuration** tab:

PARAMETER	DESCRIPTION
Extrahop Hostname	The Extrahop instance hostname or IP address.
Extrahop API Key	Extrahop API Key - found on Extrahop instance under user (in top right) > API Access.
Data Collection Name (Threat Library)	The Threat Library data collection that you want IoCs to be exported from.



5. Review any additional settings available, 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:

```
<> tq-conn-extrahop -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.
`-ll 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 **3** means everything. The default setting is **1** (Warning).
`-ep, --external-proxy`	This allows you to use the proxy that is specified in the ThreatQ UI. This specifies an internet facing proxy, NOT a proxy to the TQ instance.
`-n NAME, --name NAME`	This sets the name for this connector. In some cases, it is useful to have multiple connectors of the same type executing against a single TQ instance. For example, the Syslog Exporter can be run

ARGUMENT	DESCRIPTION
	against multiple target and multiple exports, each with their own name and configuration.
`-d, --no-differential`	If exports are used in this connector, this will turn 'off' the differential flag for the execution. This allows debugging and testing to be done on export endpoints without having to rebuild the exports after the test. THIS SHOULD NEVER BE USED IN PRODUCTION.

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 * * * tq-conn-extrahop -c /etc/tq_labs/ -ll /var/log/
      tq_labs/ -v3
   ```

4. Save and exit CRON.

Change Log

- **Version 1.2.0**
  - Added Python 3 support.
  - Updated integration to use latest ThreatQ SDK.
- **Version 1.1.0**
  - Added support for Unicode characters.
- **Version 1.0.0**
  - Initial Release