# **ThreatQuotient**



### **Extrahop Connector Guide**

Version 1.3.1

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## **Integration Details**

ThreatQuotient provides the following details for this integration:

**Current Integration** 

Version

Compatible with ThreatQ

**Versions** 

>= 5.6.0

1.3.1

Third-Party Application

**Hosting Type** 

Cloud, On-Prem

Python Version

3.6

**Support Tier** 

ThreatQ Supported



### 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.



## **Prerequisites**

Review the following requirements before attempting to install the connector.

#### **Extrahop Credentials**

The following credentials are required based on your Extrahop hosting method:

- Reveal(x) 360
  - Extrahop Reveal(x) 360 Hostname
  - Extrahop Reveal(x) 360 Client ID
  - Extrahop Reveal(x) 360 Client Secret
- Reveal(x) Enterprise
  - Extrahop Reveal(x) Enterprise Hostname
  - Extrahop Reveal(x) Enterprise API Key

#### 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 timedatect1 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	>=1.8.1	N/A
threatqcc	>=1.4.1	N/A
tqTaxiiExport	>=2.1.1	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_extrahop-<version>-py3-none-any.whl
```



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

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-extrahop -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.



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**

 $\label{local-connext} $$ \operatorname{local-conn-extra} -11 / \operatorname{local-conn-extra} -11 / \operatorname{local-conn-extra} -12 / \operatorname{local-conn-extra} -12 / \operatorname{local-conn-extra} -13 / \operatorname{local-conn-extr$ 

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
Select the type of deployment to use	Select your Extrahop deployment type. Options include:  • Extrahop Reveal(x) 360  • Extrahop Reveal(x) Enterprise
Data Collection Name (Threat Library)	The Threat Library data collection that you want loCs to be exported from.
Extrahop Reveal(x) 360 Hostname (360 Deployment Only)	Your Extrahop Reveal(x) 360 Hostname.
Extrahop Reveal(x) 360 Client ID (360 Deployment Only)	Your Extrahop Reveal(x) 360 Client ID.
Extrahop Reveal(x) 360 Client Secret (360 Deployment Only)	Your Extrahop Reveal(x) 360 Client Secret.



PARAMETER	DESCRIPTION
Extrahop Reveal(x) Enterprise Hostname (Enterprise Deployment Only)	Your Extrahop Reveal(x) Enterprise instance hostname or IP address.
Extrahop Reveal(x) Enterprise API Key (Enterprise Deployment Only)	Your Extrahop Reveal(x) Enterprise API Key. This can be found on your Extrahop instance under user (in top right) > API Access.

- 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-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 <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. This specifies an internet facing proxy, NOT a proxy to the TQ instance.
-n 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



ARGUMENT	DESCRIPTION
	single TQ instance. For example, the Syslog Exporter can be run 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 * * * /opt/tqvenv/<environment_name>/bin/tq-conn-
extrahop -c /etc/tq_labs/ -ll /var/log/tq_labs/ -v3
```

4. Save and exit CRON.



## **Change Log**

- Version 1.3.1
  - Updated the naming of deployment methods in the configuration page: Online is now Reveal(x) 360 and On-Prem is now Reveal(x) Enterprise.
- Version 1.3.0
  - Added support for Extrahop Cloud deployments.
  - Add new configuration option to allow you to select your deployment methods.
  - Added additional configuration fields for Online Deployment method: Online Hostname, Online Client ID, and Online Client Secret.
  - Updated minimum ThreatQ version to 5.6.0.
- 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