## **ThreatQuotient**

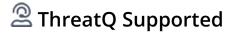


# Digital Shadows Intelligence Connector User Guide Version 1.4.0

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#### **ThreatQuotient**

20130 Lakeview Center Plaza Suite 400 Ashburn, VA 20147



#### **Support**

Email: support@threatq.com

Web: support.threatq.com

Phone: 703.574.9893



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Support Email: support@threatg.com Support Web: https://support.threatq.com

**Support Phone**: 703.574.9893

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## **Integration Details**

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.4.0
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Compatible with ThreatQ >= 4.45.0

Python Version 3.6

Versions

Support Tier ThreatQ Supported



### Introduction

The Digital Shadows Intelligence connector enables the ingestion of threat intelligence, such as actors, indicators, incidents, etc. from the Digital Shadows API into the ThreatQ platform.



## **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	>=1.8.1	N/A



DEPENDENCY	VERSION	NOTES
threatqcc	>=1.1.1	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 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_dsi-<version>-py3-none-any.whl
```



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

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-dsi -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 $\rightarrow$ User Management $\rightarrow$ 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-dsi -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
API Key	The API Key used to access Digital Shadows Intelligence.
API Key Secret	The API Key Secret used to access Digital Shadows Intelligence.
Intelligence Feeds	Enter feeds to pull from. Leave the field as is for all feeds.
Severities	The severities to fetch. Leave the field as is for all severities.
Threat Levels	The default expiration for exported IOCs. This is used when an indicator has no expiration.
Historical Timeframe	This must be an integer determining how many 'days ago' to pull historical data from.
Consecutive Timeframe	The value must be either 'last' or an integer determining how many 'hours ago' to pull data from AFTER the initial historical pull. This is customizable so it can be synced with your CRON job. If you choose 'last' it will pull data since the last time the integration was run.

- 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-dsi -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).



#### **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-dsi -c /etc/tq_labs/ -ll /var/log/tq_labs/ -v3
```

4. Save and exit CRON.



## **Change Log**

- Version 1.4.0
  - Added Python 3 support.
  - Updated packaging name to tq\_conn\_dsi.
- Version 1.3.0
  - Fixed an issue with event search.
  - The connector now pulls all the pages of results opposed to just the results.
- Version 1.2.3
  - Updated integration to reflect Digital Shadows API change.
- Version 1.2.0
  - Last value is now available for Consecutive timeframe configuration option.
- Version 1.1.0
  - Fixed an issue with adversaries failing to upload.
- Version 1.0.0
  - Initial release