# **ThreatQuotient**



#### OpenIOC File Export Connector Guide

Version 1.0.1

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# **Contents**

ntegration Details	5
ntroduction	6
Prerequisites	7
Time Zone	7
Integration Dependencies	8
nstallation	9
Creating a Python 3.6 Virtual Environment	9
Installing the Connector	. 10
Configuration	
Jsage	. 13
Command Line Arguments	. 13
Known Issues / Limitations	
Change Log	



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# **Integration Details**

ThreatQuotient provides the following details for this integration:

**Current Integration** 

Version

Compatible with ThreatQ

**Versions** 

>= 4.57.3

1.0.1

**Python Version** 3.6

Support Tier ThreatQ Supported

ThreatQ Marketplace https://

marketplace.threatq.com/

details/openioc-file-

export-custom-connector



## Introduction

OpenIOC File Export custom connector allows you to export Data Collections from ThreatQ into OpenIOC 1.1 and OpenIOC 1.0 formats.

Current Supported IOC Types include:

#### OpenIOC 1.1 OpenIOC 1.0

- IPv4 Addresses
- IP Address
- MD5
- MD5
- SHA-1
- SHA-1
- SHA-256
- SHA-256
- Email Address
- Email Address
- FQDN
- FQDN

• URL

- URL
- File Path
- File Path
- Registry Key
- Registry Key



## **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	>=1.8.2	N/A
threatqcc	>=1.4.1	N/A
ioc_writer	>=0.3.3	N/A
python-dateutil	N/A	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_<wheel_name>-<version>-py3-none-
any.whl
```



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

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**

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

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:

# Data Collections List of Data Collections to be exported in OpenIOC format. Export Destination for the OpenIOC Files The filepath on the hosted TQ instance where the openIOC files will be exported to. Also Export Data Collection as OpenIOC 1.0 Format Enable export of Data Collections as OpenIOC 1.0 format.

5. Review any additional settings, make any changes if needed, and click on Save.

Also export data collection as OpenIOC 1.0 format?

6. Click on the toggle switch, located above the Additional Information section, to enable it.

Integration Type: Connector



## Usage

Use the following command to execute the driver:

```
<> /opt/tqvenv/<environment_name>/bin/tq-conn-openioc-export -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	Review all additional options and their descriptions.
-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.
-n,name	Optional - Name of the connector (Option used in order to allow users to configure multiple Intelligence Mailbox connector instances on the same TQ box).



## **Known Issues / Limitations**

- Exported files get saved to hosted TQ instance and must then be moved out.
- Only limited IOCs are supported currently.



# Change Log

- Version 1.0.1
  - Added FQDNs as a supported indicator type for OpenIOC 1.0 documents
- Version 1.0.0
  - Initial release