ThreatQuotient



Devo IOC Exporter Connector Guide

Version 1.0.0

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ThreatQuotient

20130 Lakeview Center Plaza Suite 400 Ashburn, VA 20147





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Support

This integration is designated as **Not Actively Supported**.

Integrations, apps, and add-ons designated as **Not Actively Supported** are not supported by ThreatQuotient's Customer Support team.

While you can report issues to ThreatQ's Customer Support team regarding the integration/app/add-on, you are solely responsible for ensuring proper functionality and version compatibility of Not Supported designations with the applicable ThreatQuotient software.

If unresolvable functional or compatibility issues are encountered, you may be required to uninstall the integration/app/add-on from your ThreatQuotient environment in order for ThreatQuotient to fulfill support obligations.



For ThreatQuotient Hosted instance customers, the Service Level Commitment and Service Level Credit in the ThreatQuotient Service Level Schedule will not apply to issues caused by Not Actively Supported integrations/apps/add-ons.



Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration

Version

Compatible with ThreatQ

Versions

>= 4.40.0

1.0.0

Python Version 3.6

Support Tier ThreatQ Supported

` ' ' '

ThreatQ Marketplace https://

marketplace.threatq.com/details/devo-ioc-exporter-

connector



Introduction

The Devo IOC Exporter Connector for ThreatQ enables the automatic dissemination of IOCs from a ThreatQ data collection to a Devo Lookup List. The connector utilizes Devo's Python SDK, devo-sdk to make calls to the Devo API via their load balancers.



This connector does not ingest any data back into ThreatQ.



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 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

Devo API Certificate, Private Key, 509 Chain CA

The integration requires your Devo API Certificate, Private Key, and 509 Chain CA. These items has be obtained by going to Administration -> Credentials -> X.509 Certificates on your Devo instance.



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
python-dateutil	>=2.8.2	N/A
dev-sdk	>=3.6.4	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_devp_ioc_exporter<version>-py3-none-
any.whl
```



A driver called tq-conn-devo-ioc-exporter will be installed. After installing, a script stub will appear in /opt/tqvenv/<environment_name>/bin/tq-conn-devo-ioc-exporter.

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

Example Output

 $/opt/tqvenv/<environment_name>/bin/tq-conn-devo-ioc-exporter -ll /var/log/tq_labs/ -c /etc/tq_labs/ -v3$

ThreatQ Host: <ThreatQ Host IP or Hostname>

ThreatQ Client ID: <ClientID>
ThreatQ Username: <EMAIL ADDRESS>
ThreatQ Password: <PASSWORD>

ThreatQ 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
Devo API Region	Select which API region to connect to when communicating with Devo.
Devo X.509 Certificate	Copy & Paste your Devo X.509 Certificate into this field. Open it in a text editor to copy the certificate. This can be downloaded via Administration -> Credentials -> X.509 Certificates.
Devo X.509 Private Key	Copy & Paste your Devo X.509 Private Key into this field. Open it in a text editor to copy the private key. This can be downloaded via Administration -> Credentials -> X.509 Certificates.
Devo X.509 Chain CA	Copy & Paste your Devo X.509 Chain CA into this field. Open it in a text editor to copy the chain certificate. This can be downloaded via Administration -> Credentials -> X.509 Certificates.
Lookup Table Name	Enter the name of the Lookup Table you want this integration to push IOCs to.



PARAMETER	DESCRIPTION
ThreatQ Data Collection Name	Enter the name of a data collection, containing the intelligence you want to be exported to Devo.
ThreatQ Hostname	Enter your ThreatQ instance's Hostname or IP. This is used to link back to the ThreatQ instance.

- 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-devo-ioc-exporter -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.
-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 3 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).



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-devo-
ioc-exporter -c /etc/tq_labs/ -ll /var/log/tq_labs/ -v3
```

4. Save and exit CRON.



Known Issues / Limitations

• Lists and IOCs in deployed by this integration may take around 10 minutes to be viewable in the Devo platform.



Clearing your browser cache and/or logging out and back in may speed up this process.

• Certificates required for configuration are only for write access to the lookup lists



Change Log

- Version 1.0.0
 - Initial release