

ThreatQuotient



Silobreaker Connector

Version 1.1.1

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ThreatQuotient

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 **ThreatQ Supported**

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.1.1
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Compatible with ThreatQ Versions	>= 4.57.3
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Python Version	3.6
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Support Tier	ThreatQ Supported
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Introduction

The Silobreaker for ThreatQ integration allows a user to ingest reports and other context from Silobreaker.

Prerequisites

Review the following requirements before attempting to install the connector.

Third-Party Credentials

Silobreaker API key and Shared 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 `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	>=1.8.0	N/A
threatqcc	>=1.4.0	N/A
python-dateutil	>=2.8.1	N/A
pytz	>=2023.3	N/A
requests	>=2.25.1	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_silobreaker-<version>-py3-none-any.whl
```



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

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-silobreaker -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 → User Management → API details within the user's details.

PARAMETER	DESCRIPTION
ThreatQ Username	This is the Email Address of the user in the ThreatQ System that will manage integrations.
ThreatQ Password	The password for the above ThreatQ account.

Example Output

```
/opt/tqvenv/<environment_name>/bin/tq-conn-silobreaker -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	Your Silobreaker API Key.
Shared Secret	Your Silobreaker Shared Secret Key.
Search Queries (1 Per Line)	<p>Enter a line-separated list of search queries that you want to use to ingest reports.</p> <div>  Enter search query per line. </div> <p>Example: `Malware:"NanoCore RAT" AND NOT doctype:"Paste" AND fromdate:"-24h" entitytype:"ThreatActor" AND entitytype:"AttackType" AND fromdate:"-24h" AND NOT doctype:"Paste"`</p>
Language Filter	<p>Comma-separated list of language codes to ingest reports in. If left blank, reports with any language will be ingested.</p> <p>Example: en, fr, de, sp</p>
Ingest CVEs As	Select the object type you would like CVEs to be ingested as.

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-silobreaker -v3 -ll /var/log/tq_labs/ -c /etc/tq_labs/
```

Command Line Arguments

This connector supports the following custom command line arguments:

ARGUMENT	DESCRIPTION
<code>-h, --help</code>	Review all additional options and their descriptions.
<code>-ll LOGLOCATION, --loglocation LOGLOCATION</code>	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).
<code>-c CONFIG, --config CONFIG</code>	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.)
<code>-v {1,2,3}, --verbosity {1,2,3}</code>	This is the logging verbosity level where 3 means everything.
<code>-n, --name</code>	Optional - Name of the connector (Option used in order to allow users to configure multiple connector instances on the same TQ box).
<code>-hist, --historical</code>	Allows you to set a historical date to import context since.

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/tqenv/<environment_name>/bin/tq-conn-silobreaker -  
c /etc/tq_labs/ -ll /var/log/tq_labs/ -v3
```

4. Save and exit CRON.

Average Connector Run

METRIC	RESULT
Run Time	6 minutes
Reports	1,575
Report Attributes	18,900
Adversaries	18
Adversary Attributes	18
Attack Patterns	74
Attack Pattern Attributes	74
Identity	350
Identity Attributes	350
Indicators	2
Indicator Attributes	2
Vulnerabilities	256
Vulnerability Attributes	256

Result Example

The following example displays how the Report Details will look in ThreatQ.

THREATQ

Threat Library

Investigation

Lat Analytics

Create

Search

Settings

Help

How Iran's Military Outsources Its Cyberthreat Forces

Report

Created: 01/22/2020

First Seen: 01/22/2020 02:13pm

Add to Watchlist

Actions

Context

Attributes (17)

Sources (1)

Tags (0)

Description (0)

Relationships

Adversaries (1)

Attack Patterns (1)

Malware (1)

Comments (0)

Operations

Audit Log

Attributes (17)

Attribute Type

Attribute Value

Sources

Date Created

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Keyphrase	Killing	Skidreaver	01/22/2020 07:22pm
Keyphrase	Military/Veteran Forces	Skidreaver	01/22/2020 07:22pm
Keyphrase	Cyber Threat	Skidreaver	01/22/2020 07:22pm
Skidreaver Link	https://tiny.skidreaver.com/5_2274427536548742402	Skidreaver	01/22/2020 07:22pm
Reference	http://feedproxy.google.com/~r/newsstory/gpo/~SIPT/QJGLD3N3W	Skidreaver	01/22/2020 07:22pm
First Reported	2020-01-22 14:13:56	Skidreaver	01/22/2020 07:22pm
Publisher	Raw Story	Skidreaver	01/22/2020 07:22pm
Keyphrase	Computer Hacker	Skidreaver	01/22/2020 07:22pm
Keyphrase	Iranians	Skidreaver	01/22/2020 07:22pm
Country	iran	Skidreaver	01/22/2020 07:22pm
Skidreaver Link	https://tiny.skidreaver.com/5_2274427554151358466	Skidreaver	01/22/2020 07:22pm
Publisher Type	Public	Skidreaver	01/22/2020 07:22pm
Document Type	Blog	Skidreaver	01/22/2020 07:22pm
Language	en	Skidreaver	01/22/2020 07:22pm
Reference	https://uknowandsecurity.com/how-irans-military-outsour-its-cyberthreat-forces/	Skidreaver	01/22/2020 07:22pm
First Reported	2020-01-22 14:30:47	Skidreaver	01/22/2020 07:22pm
Publisher	In Homeland Security	Skidreaver	01/22/2020 07:22pm

Rows per page: 50

Sources (1)

Skidreaver

Tags (0)

Type here and press enter

Description (0)

Format

Save

Cancel

Adversaries (1)

Show in Threat Library

Link

Unlink

APT33

Skidreaver threat on 01/22/2020 07:22pm

Confidence

0%

Add Comment

Attack Patterns (1)

Show in Threat Library

Link

Unlink

VALUE

REPORTED

Website Defacement

01/22/2020 07:22pm

Malware (1)

Show in Threat Library

Link

Unlink

VALUE

REPORTED

Shamoon Virus

01/22/2020 07:22pm

Comments (0)

No comments have been added.

Click the Add button to add a comment to this object.

Operations

This Report type can not be enriched by any of the operations currently enabled.

Click here to manage your operations.

Audit Log

Change Log

- **Version 1.1.1**
 - Updated to Python 3.
 - Removed support for Python 2.
- **Version 1.1.0**
 - Fixed an issue with date-util dependency.
 - Queries with the `fromdate` parameter ignore the last-run date.
 - Last-run date now is compared to `CreatedDate` instead of `PublicationDate`.
 - Added support for Cyber Attribution tags.
 - Added UI config option to ingest CVEs as indicators or vulnerabilities.
 - Fixed an authentication issue with API.
 - Added Python 3 support.
- **Version 1.0.0**
 - Initial release