ThreatQuotient



ThreatQuotient for Exploit DB Connector

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1 Introduction

1.1 Application Function

The ThreatQuotient for Exploit DB Connector imports Exploit DB exploits into ThreatQ. Included with the exploit are any related CVE indicators, as well as any vulnerable applications.

1.2 Preface

This guide provides the information necessary to implement the ThreatQuotient for Exploit DB Connector. This document is not specifically intended as a site reference guide. It is assumed that the implementation engineer has experience installing and commissioning the ThreatQuotient Apps and integrations covered within the document, as well as experience necessary to troubleshoot at a basic level.

1.3 Audience

This document is intended for use by the following parties:

- 1. ThreatQ Security/Engineers.
- 2. ThreatQuotient Professional Services Project Team & Engineers.

1.4 Scope

This document covers the implementation of the ThreatQuotient for Exploit DB Connector only.

Table 1: ThreatQuotient Software & App Version Information

Software/App Name	File Name	Version
ThreatQ	Version 3.6.x or greater	
ThreatQuotient for Exploit DB Connector	1.0.0	

1.5 Assumptions

The following criteria is assumed to be in place and functional to allow the implementation of the ThreatQuotient for Exploit DB Connector into the managed estate:

- All ThreatQuotient equipment is online and in service.
- All required firewall ports have been opened.

2 Implementation Overview

This document explains how to install the ThreatQuotient for Exploit DB Connector.

2.1 Prerequisites

Throughout this implementation document, we will refer to several files and directories, some of which will be symbolic, and others may change depending on specifics of the environmental setup.

Ensure all ThreatQ devices are set to the correct time, time zone and date, 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, to list all available time zones in Europe, type:

Figure 1: Time Zone List Example

timedatectl list-timezones | grep Europe Europe/Amsterdam Europe/Athens Europe/Belgrade Europe/Berlin

To change the time zone to UTC, type as root:

Figure 2: Time Zone Change Example

timedatectl set-timezone UTC

2.2 Security and Privacy

For ThreatQuotient Professional Services engineers to configure the system, local network access is required to connect to the managed estate. Therefore, the implementation must occur at an office or data center location.

Passwords have not been provided in this document. Please contact your project team for this information, if required or applicable.

All engineers are reminded that all data belonging and pertaining to the business is confidential and should not be disclosed to any unauthorized parties.

The data held within this document is classed as confidential due to its nature.

3 ThreatQuotient for Exploit DB Connector Installation

3.1 Setting up the Integration

From the ThreatQuotient Repository

To install this ThreatQuotient for Exploit DB Connector from the ThreatQuotient repository with YUM credentials:

1. Install the ThreatQuotient for Exploit DB Connector by using the following commands:

Figure 3: Installing from the ThreatQuotient Repository (Example Output)

```
$> pip install tq-conn-exploit-db
Collecting tq-conn-exploit-db
Downloading https://extensions.threatq.com/threatq/integrations-
dev/+f/e7b/7112897638161/ tq-conn-exploit-db-1.0.0-py2-none-any.whl
Requirement already satisfied: jinja2==2.8 in /usr/lib/python2.7/site-packages
(from threatqcc>=1.3.0-> tq-conn-exploit-db) (2.8)
Collecting pyasn1>=0.3.7 (from python-ldap==3.2.0-> tq-conn-exploit-db)
Downloading https://extensions.threatq.com/root/pypi/+f/da6/b43a8c9ae93bc/pyasn1-
0.4.5-py2.py3-none-any.whl (73kB)
100% | 81kB 1.0MB/s
Collecting pyasn1_modules>=0.1.5 (from python-ldap==3.2.0-> tq-conn-exploit-db)
Downloading
Running setup.py install for python-ldap ... done
Successfully installed pyasn1-0.4.5 pyasn1-modules-0.2.5 python-ldap-3.2.0 tq-conn-exploit-db-1.0.0
```

Offline from the .whl File

To install this ThreatQuotient for Exploit DB Connector from a wheel file, the wheel file (.whl) file tq-conn-exploit-db -<version>-py2-none-any.whl will need to be copied via SCP into your ThreatQ instance.

1. Install the .whl file using the following command.

Figure 4: Installing .whl File (Inc Example Output)

```
$> sudo pip install /file/path/to/app/tq-conn-exploit-db-<version>-py2-none-any.whl
Requirement already satisfied (use --upgrade to upgrade): urllib3<1.25,>=1.21.1 in
/usr/lib/python2.7/site-packages (from requests>=2.9.1->threatqsdk>=1.6.7-> tq-conn-exploit-db)
Requirement already satisfied (use --upgrade to upgrade): chardet<3.1.0,>=3.0.2 in
/usr/lib/python2.7/site-packages (from requests>=2.9.1->threatqsdk>=1.6.7-> tq-conn-exploit-db)
Requirement already satisfied (use --upgrade to upgrade): idna<2.9,>=2.5 in
/usr/lib/python2.7/site-packages (from requests>=2.9.1->threatqsdk>=1.6.7-> tq-conn-exploit-db)
Installing collected packages: tq-conn-exploit-db
Successfully installed tq-conn-exploit-db-1.0.0
```

Once the application has been installed, you must create a directory structure for all configuration, logs and files, using the mkdir -p command. See the example below:

Figure 5: Creating Integration Directories (Example)

```
mkdir -p /etc/tq labs/
```

A driver called tq-conn-exploit-db is installed.

2. Issue the following commands to initialize the integration.

You will be asked the following questions:

- a. **ThreatQ Host:** This is the host of the ThreatQ instance, either the IP Address or Hostname as resolvable by ThreatQ.
- Client ID: This refers to the API credentials that can be found at the User icon > My Account.
- c. **E-mail Address:** This is the <u>User in the ThreatQ System</u> for integrations.
- d. Password: The password for the above ThreatQ account
- e. **Status:** This is the default status for loCs that are created by this integration. It is common to set this to "Review", but Organization SOPs should be respected when setting this status.

Figure 6: Running the Integration

```
$> tq-conn-exploit-db -v 3 -11 /path/to/log/dir -c /path/to/config/dir
ThreatQ Host: <ThreatQ Host IP or Hostnme >
Client ID: <ClientID>
E-Mail Address: <EMAIL ADDRESS>
Password: <PASSWORD>
Status: Review
Connector configured. Set information in UI
```

The driver will run once, where it will connect to the ThreatQ instance and install the user interface component of the connector.

```
Connector configured. Set information in UI
```

3.2 Configuring the connector

To configure the application, navigate in the ThreatQ user interface to the **Settings icon** > **Incoming Feeds** > **Labs** and find the Exploit DB feed.

- Expand the Feed Settings for the Exploit DB section.
 - Import Unverified Exploits: Setting this to 'Yes' will import exploits that are not verified.
 - Import Vulnerable Apps: Setting this to 'Yes' will import any vulnerable apps related to the exploit.
 - The uploaded apps' type will be 'Malware Sample'

Once all the relevant information has been entered, click Save Changes.

Figure 7: UI Configuration



Once completed, the integration is now ready for operation.

3.3 CRON

To run this script on a reoccurring basis, use CRON or some other system schedule. The argument in the cron script *must* specify the config and log locations.

This can be run multiple times a day and can be run as often as required.

3.3.1 Setting Up the CRONJOB

- 1. Login via a CLI terminal session to you ThreatQ host.
- 2. Input the commands below.

Figure 8: Command Line Crontab 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. Input the commands below - this example shows every 4 Hours.

Figure 9: Command Line Crontab Command

```
0 */4 * * * tq-conn-exploit-db -v 3 -ll /path/to/log/dir -c /path/to/config/dir --cache /path/to/cache/dir
```

Figure 10: Command Line Crontab Command (Bespoke Name)

```
0 */4 * * * tq-conn-exploit-db -n <Bespoke_Name> -v 3 -ll /path/to/log/dir -c /path/to/config/dir --cache /path/to/cache/dir
```

To run this script on a re-occurring basis use CRON or some other on system schedule. CRON is displayed here.



The argument in the cron script *must* specify the config and log locations.

For further reference, see the ThreatQ Help Center.

Appendix A: Supplementary Information

Uninstalling the Connector

sudo pip uninstall tq-conn-exploit-db

Driver command line options

The tq-conn-exploit-db driver has several command line arguments that will help you and your customers execute this. They are listed below. You can see these by executing: /usr/bin/tq-conn-exploit-db --help.

```
usage: tq-conn-exploit-db [-h] [-ll LOGLOCATION][-c CONFIG] [-v VERBOSITY]
optional arguments:
```

-h, --help

Shows the help message and exit.

```
-11 LOGLOCATION, --loglocation LOGLOCATION
```

This sets the logging location for this connector. The location should exist and be writable by the current user. 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 have read and write permissions for the current user. If no config file is given, the current directory will be used. This file is also where some information from each run of the connector may be stored (e.g. last run time, private OAuth, etc).

```
-cache, --cache
```

(required): The path to the directory where you want to store your cache.

```
-v {1,2,3}, --verbosity {1,2,3}
```

This is the logging verbosity level. The Default is 1 (Warning).

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