ThreatQuotient



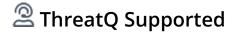
Netscout AED Connector User Guide

Version 1.0.0

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.0.1
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Compatible with ThreatQ >= 4.45.0

Versions

Python Version 3.6

Support Tier ThreatQ Supported



Introduction

The Netscout Arbor Edge Defense (AED) connector ingests alerts from Netscout 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 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
more-itertools	5.0.0	Pinned
six	1.13.0	Pinned
stix2	2.0.2	Pinned
stix2_patterns	2.0.0	Pinned
taxii2-client	2.2.2	Pinned
threatqcc	>=1.3.1	N/A
threatqsdk	>=1.8.0	N/A
wheel	N/A	N/A
pytz	N/A	N/A
tzlocal	N/A	N/A
dateparser	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 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_netscount_aed-<version>-py3-none-any.whl
```



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

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-netscout-aed -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.
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-netscout-aed -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
Hostname	The hostname or IP address of the Arbor Edge Defense appliance.
API Token	The API Token from Arbor Edge Defense.
STIX Client Username	The username configured in the Arbor EdgeDefense appliance configured to ingest threat intelligence.
STIX Client Password	The password associated with the username provided above.
ThreatQ Data Collection	The name of the data collection in ThreatQ in which to pull data from.
AES STIX Collection Name	The collection name in AED that is configured to store threat intelligence.
Relationship Depth	This is how many relationship "levels" you want to fetch. (Max of 3)
Default Indicator Labels	The default labels given to the indicator, assuming no matching label is present in the attributes.
Default Threat Actor Labels	The default labels given to a related threat actor, assuming no matching label is present in the attributes.



PARAMETER	DESCRIPTION
Default Malware Labels	The default labels given to a related malware, assuming no matching label is present in the attributes.
Default Tool Labels	The default labels given to a related tool, assuming no matching label is present in the attributes.
Default Report Labels	The default labels given to a related report, assuming no matching label is present in the attributes.
Alert Severity	The severity of alerts ti import from AED.
Query Keywords	A comma-delimited "," list of search strings to filter alerts on.

- 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-netscout-aed -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.)
-d,disable-ssl	This argument will allow you to disable SSL verification when making requsts to the AED appliance.
-i,import	This argument will allow you to run the import-only portion of the application. This will import events from AED into ThreatQ.
-e,export	This argument will allow you to run the export-only portion of the application. This will export threat intelligence from ThreatQ to AED.
-n,name (connector name)	This argument allows you to install the connector with a custom name. This argument is mainly used when you want to install multiple instances of the connector. For instance, if you have multiple saved



ARGUMENT

DESCRIPTION

searches that you want exported. You can simply setup anew instance of this connector with a new name, for a new saved search.



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-netscout-aed -
c /etc/tq_labs/ -ll /var/log/tq_labs/ -v3
```

4. Save and exit CRON.



Change Log

- Version 1.0.1
 - Added support for library dependencies to prevent possible initial run errors.
 - Added python 3 support.
- Version 1.0.0
 - Initial release