# ThreatQuotient

## ThreatQuotient for Qualys Scanner Connector Guide

Version 1.0.0

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# Contents

# Versioning

- Integration Version: 1.0.0
- ThreatQ Version: 4.34.0 or greater

| Operating System | OS Version | Python Version | Notes |
|---|---|---|---|
| RedHat/CentOS | 7 | 2.7.12 | N/A |
| Ubuntu | 16.04 | 2.7.12 | This has not been tested. |
| Windows | 2012R2/10 | 2.7.12 | This has not been tested. |

# Introduction

The Qualys Scanner connector integrates ThreatQ with a Qualys appliance, either cloud-based or on-prem. The vulnerabilities scanner connector collects information about Qualys scans executed in the past days, collects all CVEs related to those vulnerabilities and ingests them in ThreatQ.

The configuration of the connector in the ThreatQ UI gives the user the ability to define the number of historical days for the first run, and every consecutive run searches only for vulnerabilities in scans executed after the last run of the connector.

Additionally, the user can provide the following parameters to filter down the assets found in Qualys scans – Range, or a list, of IP addresses to search for, Asset group IDs, and minimum severity of vulnerability scans.

# Installation

This package is available in `.tar.gz` and `.whl` formats, and can be installed from the ThreatQ integrations repository.

To install the `.tar.gz` or `.whl` formats:

```
pip install tq_conn_qualys_scanner
```

## Executing the Driver

This package comes with a driver called `tq-conn-qualys-scanner`. After installing with `pip` or `setup.py`, a script stub will appear in `/usr/bin/tq-conn-qualys-scanner`.

To execute the feed just use:

```
tq-conn-qualys-scanner -c /path/to/config/directory/ -ll

/path/to/log/directory/ -v VERBOSITY_LEVEL
```

The driver will run once, where it will connect to the TQ instance and will install the UI component of the connector. After installation, the user will need to go into the connector UI and configure the required fields.

# Configuration

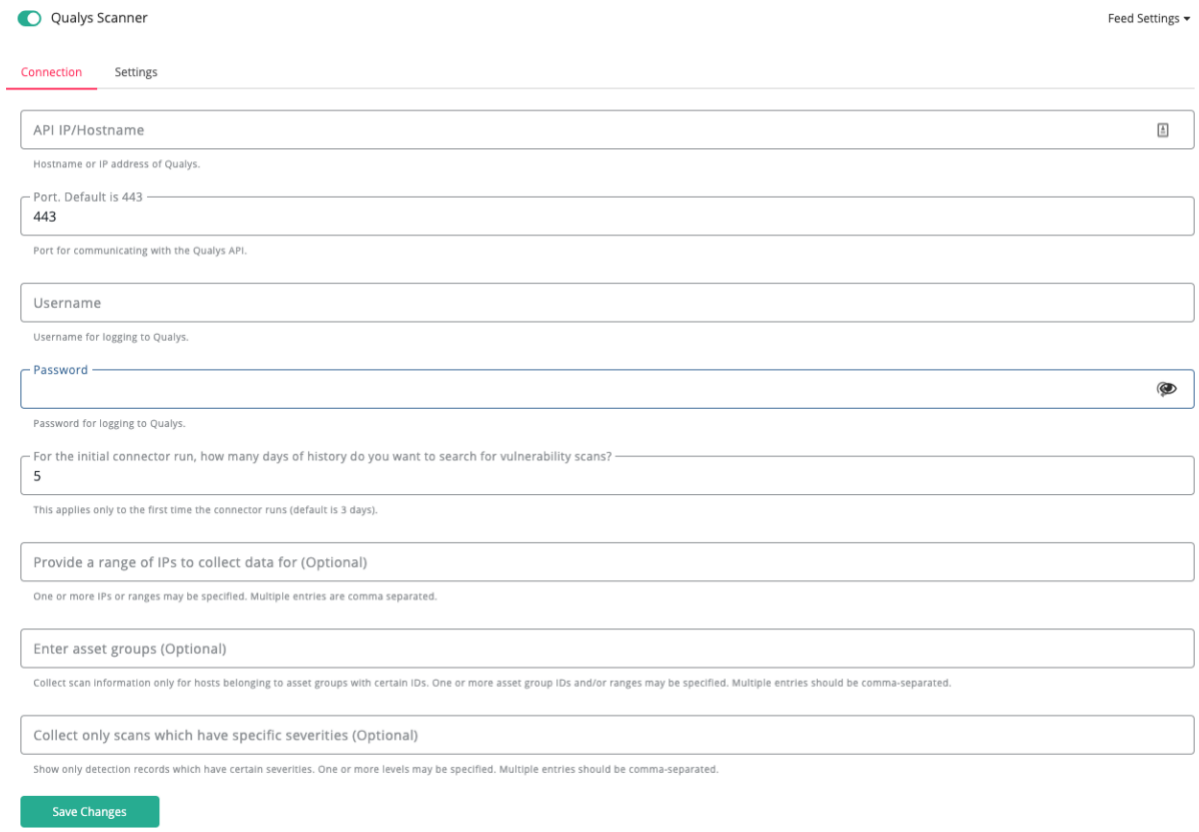
***Note:*** *ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other feed-related credentials.*

**To configure the connector:**

1. Click on the **Settings** icon and select **Incoming Feeds**.
2. Locate the connector under the **Labs** tab.
3. Click on the **Feed Settings** link for the connector.
4. Under the Connection tab, enter the following configuration parameters:

| Parameter | Description |
|---|---|
| IP/Hostname | Hostname or IP address of the Qualys API. To get the hostname, login to the Qualys UI, click on the *Help* dropdown from the main page, and on the *General Information* tab find the hostname that contains API in the path |
| Port | Port number the Qualys API is listening on. The default port is 443. |
| Username | The provided username for Qualys |
| Password | The password for logging to Qualys |
| Number of days for the initial run | For the initial connector run, how many days of history do you want to search for vulnerability scans? |
| Provide a range of IPs to collect data for (Optional) | Search only for hosts with certain IPs. Multiple IPs or ranges should be comma-separated (e.g. 172.26.12.13, 172.26.12.14, 172.26.12.14-172.26.12.20) |
| Enter asset groups (Optional) | Collect scan information only for hosts belonging to asset groups with certain IDs. One or more asset group IDs and/or ranges may be specified. Multiple entries should be comma-separated. |

| Parameter | Description |
|---|---|
| Enter the minimum severity of discovered vulnerabilities to search for (Optional) | Search only for vulnerability scans with a severity equal to, or above, a minimum value. |




5. Click on **Save Changes**.
6. Click on the toggle switch to the left of the connector name to enable the connector.

# 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 at the top of every hour.

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. To execute the connector at a scheduled frequency, you can configure a CRON entry to run the connector. Depending on how quickly you want updates, this can be run multiple times a day (no more than once an hour) or a few times a week.

   **Hourly Example**

```
 0 * * * * /usr/bin/tq-conn-qualys-scanner -c

/path/to/config/directory/ -ll /path/to/log/directory/ -v

VERBOSITY_LEVEL
```

4. Save and exit cron.

# 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.) |
| `-v {1,2,3}, --verbosity {1,2,3}` | This is the logging verbosity level. The default is 1 (Warning). Recommended value is 3 (Debug). |
| `-ep, --external-proxy` | This allows you to use the proxy that is specified in the ThreatQ UI |
| `-ds, --disable-ssl` | Adding this flag will disable SSL verification when contacting the 3rd party API |

# Change Log

| Version | Details |
|---|---|
| 1.0.0 | • Initial Release |