ThreatQuotient



Events Builder Connector Guide

Version 1.0.2

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ThreatQuotient

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2 ThreatQ Supported

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Versioning

- Current integration version: 1.0.2
- Compatible with ThreatQ versions >= 4.34.0

There are two versions of this integration:

- Python 2 version
- Python 3 version



Introduction

The Events Builder Connector accepts a provided payload, parses it, and creates an event object in ThreatQ with attributes and related indicators. The events ingested into ThreatQ can include related objects such as Sources, Targets, Identities, and Assets.

The payload is defined in the command used to execute the driver. See the Usage chapter for more information regarding the payload flag.

You can identify your private IP Addresses in the connector's UI configuration page in ThreatQ to prevent them from being added as Indicators.



Prerequisites

Review and confirm that you have fulfilled the connectors prerequisites before proceeding with installation/upgrading.

Files and Directories

Throughout this guide there will be referrals to several files and directories, some which will be symbolic, while others may change depending on the specifics of the environmental setup.

Timezone

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



Installation

The connector can be installed from the ThreatQuotient repository with YUM credentials or offline via a .whl file.



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. Install the connector using one of the following methods:

ThreatQ Repository

a. Run the following command:

```
<> pip install tq_conn_events_builder
```

Offline via .whl file

To install this connector from a wheel file, the wheel file (.whl) will need to be copied via SCP into your ThreatQ instance.

a. Download the connector whl file with its dependencies:

```
<> mkdir /tmp/tq_conn_events_builder

pip download tq_conn_events_builder -d /tmp/
   tq_conn_events_builder/
```

b. Archive the folder with the .whl files:

```
<> tar -czvf tq_conn_events_builder.tgz /tmp/
   tq_conn_events_builder/
```

- c. Transfer all the whl files, the connector and all the dependencies, to the ThreatQ instance.
- d. Open the archive on ThreatQ:

```
<> tar -xvf tq_conn_events_builder.tgz
```

e. Install the connector on the ThreatQ instance.





The example assumes that all the whl files are copied to /tmp/conn on the ThreatQ instance.



A driver called tq-conn-events-builder will be installed. After installing with pip or setup.py, a script stub will appear in /usr/bin/tq-conn-events-builder.

2. 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
```

3. Perform an initial run using the following command:

```
<> tq-conn-events-builder -v3 -ll /var/log/tq_labs/ -c /etc/
tq_labs/
```

4. 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.
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.
Email Address	This is the User in the ThreatQ System for integrations.
Password	The password for the above ThreatQ account.
Status	This is the default status for objects that are created by this Integration.



Example Output

tq-conn-events-builder -v3 -ll /var/log/tq_labs/ -c /etc/tq_labs/

ThreatQ Host: <ThreatQ Host IP or Hostname>

Client ID: <ClientID>

E-Mail Address: <EMAIL ADDRESS>

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:

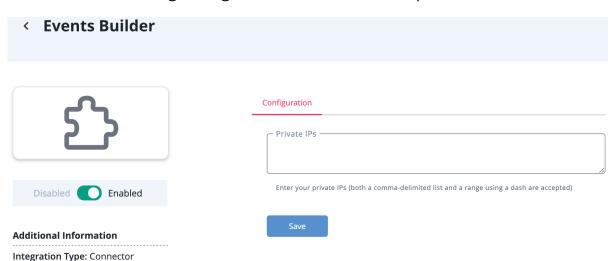
- 1. Navigate to your integrations management page in ThreatQ.
- 2. Select the Labs option from the Category dropdown (optional).
- 3. Click on the integration to open its details page.
- 4. Enter the following parameter under the **Configuration** tab:

PARAMETER

DESCRIPTION

Private IPs

Enter your private IPs so that IP Addresses will not be added as Indicators if they are private. Both, a comma-delimited list and a range using a dash, formats are accepted.



- 5. Review any additional settings available, 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:

```
<> tq-conn-events-builder -v3 -ll /var/log/tq_labs/ -c /etc/tq_labs/
   -p <JSON payload>
```

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 where 3 means everything. The default setting is 1 (Warning).
-n,name	This allows you to change the name of the connector.
-d,no- differential	If exports are used in this connector, this will turn 'off' the differential flag for the execution. This allows debugging and testing to be done on export endpoints without having to rebuild the



ARGUMENT	DESCRIPTION
	exports after the test. THIS SHOULD NEVER BE USED IN PRODUCTION.
-ep,external- proxy	This enables a proxy to be used to connect to the internet for the data required by this connector. This specifies an internet facing proxy, NOT a proxy to the TQ instance.
-p PAYLOAD, payload PAYLOAD	Dictionary with data needed to create events in ThreatQ - event name, IOCs, attributes, etc.



Payload Example

The following is an example of a payload that could be passed with the connector. This example is from NiFi's source: AmazonUserAddDetection.

```
{
    "event_type": "Sighting",
    "malware":null,
    "identity": "user@co.com",
    "uri_target":null,
    "uri target attributes":null,
    "event_name": "AWS User Add Detection: CreateUser from 1.2.3.4 to random.random.com",
    "event_source": "AWS User Add Detection",
    event_attributes":"Event Domain<|random.random.com~|Target Domain<|rando-rando-1~|User-Agent<|
console.random.com",
    "uri_source":"IP Address:1.2.3.4",
    "syslog_message":{
        "eventVersion": "1.08",
        "userIdentity":{
            "type": "AssumedRole",
            "principalId": "ABCDE6FGHI7JKLM: user@co.com",
            "arn": "arn: aws: sts::123456789: test-role/UserName/user@co.com",
            "accountId": "123456789",
            "accessKeyId": "ZYXWVUT",
            "sessionContext":{
                "sessionIssuer":{
                     "type": "Role",
                     "principalId": "ABCDE6FGHI7JKLM",
                     "arn":"arn:aws:iam::123456789:role/UserName",
                     "accountId": "123456789",
                     "userName":"UserName"
                },
                "webIdFederationData":{},
                "attributes":{
                     "creationDate": "2021-10-05T18:32:56Z",
                     "mfaAuthenticated":"false"
                }
            }
        },
        "eventTime": "2021-10-05T19:01:02Z",
        "eventSource":"random.random.com",
        "eventName": "CreateUser",
        "awsRegion": "rando-rando-1",
        "sourceIPAddress": "1.2.3.4",
        "userAgent": "console.random.com",
        "requestParameters":{
            "userName": "this_username",
            "tags":[
                {
                     "key": "ProductName",
                     "value":"this_username"
                },
                     "key":"Owner",
                     "value": "user@co.com"
                },
```



```
"key":"Team",
                 "value":"My_Team"
            },
            {
                "key": "BusinessUnit",
                 "value":"IT"
    },
    "responseElements":{
        "user":{
            "path":"/",
            "userName":"this_username",
            "userId":"AAABBBCCCDDDEEE1223",
            "arn":"arn:aws:iam::123456789:user/this_username",
            "createDate":"Oct 5, 2021 7:01:02 PM",
            "tags":[
                {
                     "key":"ProductName",
                     "value":"this_username"
                },
                     "key":"Owner",
                     "value":"user@co.com"
                },
                     "key":"Team",
                     "value":"My_Team"
                },
                     "key": "BusinessUnit",
                     "value":"IT"
                }
            ]
        }
    "requestID": "111222-a333444-ds555-ab667899",
    "eventID": "1a2b3c-456f7g-890j1",
    "readOnly":false,
    "eventType":"AwsApiCall",
    "managementEvent":true,
    "recipientAccountId": "123456789",
    "eventCategory": "Management",
    "sessionCredentialFromConsole":"true"
},
"uri_source_attributes":null,
"event_happened_at":"2021-10-05T19:01:02Z"
```



Change Log

- Version 1.0.2
 - 。 Initial Release