ThreatQuotient

abuse.ch ThreatFox CDF

Version 1.1.0

May 05, 2025

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ThreatQ Supported

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Support Email: support@threatq.com
Support Web: https://support.threatq.com
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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.1.0
Compatible with ThreatQ Versions	>= 5.5.0
Support Tier	ThreatQ Supported

Introduction

ThreatFox is a project of **abuse.ch** with the goal of sharing indicators of compromise (IOCs) associated with malware with the infosec community, AV vendors and threat intelligence providers.

The integration provides the following feed:

- **abuse.ch ThreatFox** - retrieves a copy of the current IOC dataset from ThreatFox.

The integration ingests indicator type system objects.

Prerequisites

The following is required in order to use the integration:

- An Abuse.ch ThreatFox API Key. You can create one for free by signing up at https://auth.abuse.ch/.

Installation

Perform the following steps to install the integration:

> The same steps can be used to upgrade the integration to a new version.

1. Log into https://marketplace.threatq.com/.
2. Locate and download the integration file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration file using one of the following methods:
   - Drag and drop the file into the dialog box
   - Select **Click to Browse** to locate the integration file on your local machine

   > ThreatQ will inform you if the feed already exists on the platform and will require user confirmation before proceeding. ThreatQ will also inform you if the new version of the feed contains changes to the user configuration. The new user configurations will overwrite the existing ones for the feed and will require user confirmation before proceeding.

6. If prompted, select the individual feeds to install and click **Install**. The feed will be added to the integrations page.

You will still need to configure and then enable the feed.

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 **OSINT** option from the *Category* dropdown (optional).

   > If you are installing the integration for the first time, it will be located under the **Disabled** tab.

3. Click on the integration entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

PARAMETER	DESCRIPTION
Auth Key	Your Abuse.ch ThreatFox Auth Key.
Context Selection	Select which pieces of context to ingest into ThreatQ with each indicator. Options include: ◦ Tags ◦ Confidence ◦ Reporter ◦ Port ◦ Threat Type ◦ Malware Family ◦ Malware Alias
Normalize Confidence Score	Enable this option to normalize the numeric confidence score from the API to a friendly value which you can use within your ThreatQ Scoring Policy. > When disabled, the numeric confidence score will be used as is.
Confidence Score Normalization Mapping	A mapping to normalize the numeric confidence score values to the scorable attribute, `Normalized Confidence`. The numeric Confidence itself will be ingested if checked. This mapping should

contain a line-separated CSV formatted string with the following columns: Minimum, Maximum, Normalized Value.

Example:

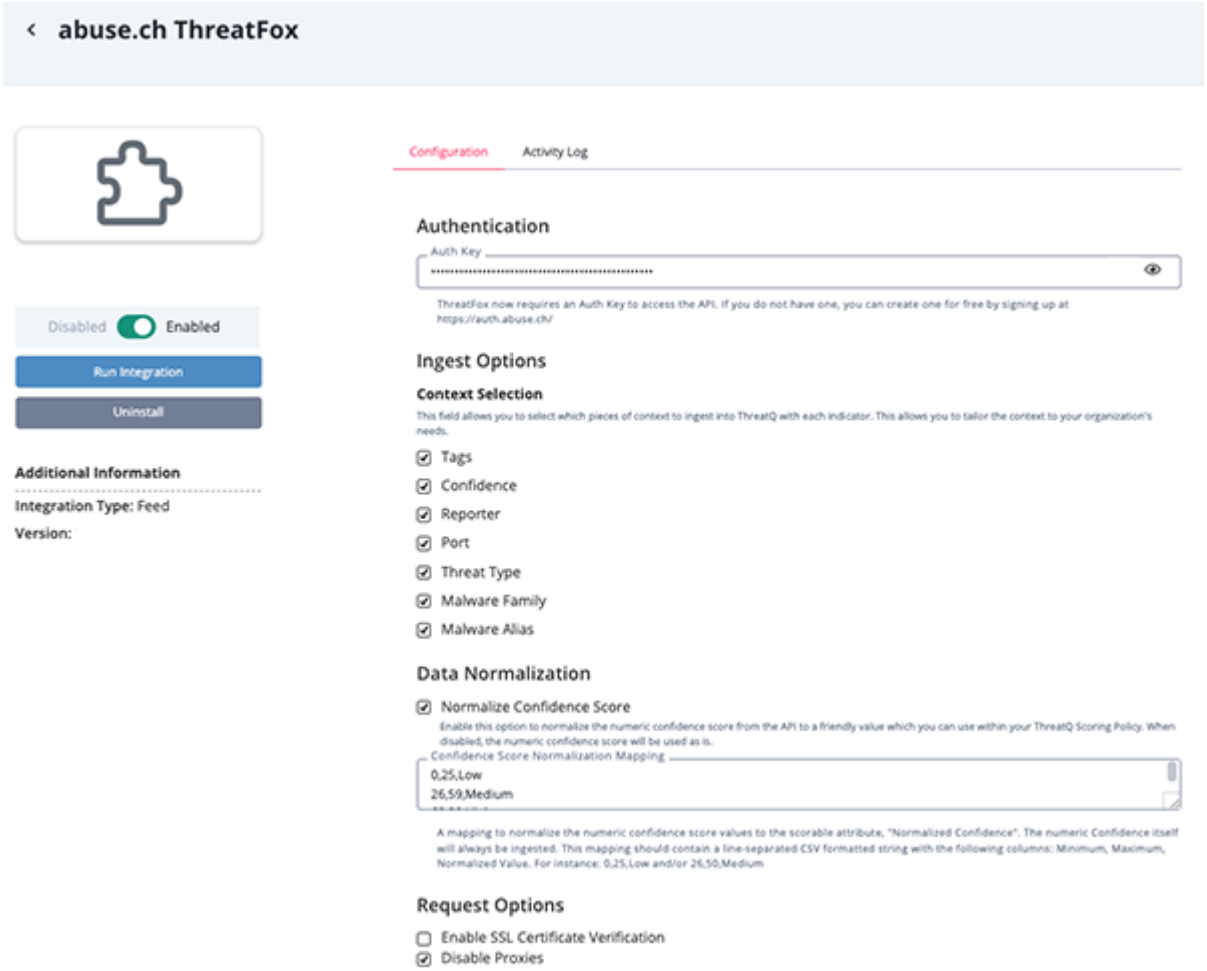
```
0,25,Low
```

The default values for this parameter are:

```
0,25,Low
26,59,Medium
60,89,High
90,100,Critical
```

> This parameter is only accessible if the **Normalize Confidence Score** parameter is enabled.

Enable SSL Certificate Verification	Enable this parameter if the feed should validate the host-provided SSL certificate.
Disable Proxies	Enable this parameter if the feed should not honor proxies set in the ThreatQ UI.



5. Review all 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.

ThreatQ Mapping

abuse.ch ThreatFox

The abuse.ch ThreatFox feed retrieves a copy of the current IOC dataset from ThreatFox.

`POST https://threatfox-api.abuse.ch/api/v1/`

Sample Request:

```
{
    "query": "get_iocs",
    "days": 1
}
```

Sample Response:


```
{
   "data":[
      {
         "id":"1020675",
         "ioc":"http://116.202.5.101/1679",
         "threat_type":"botnet_cc",
         "threat_type_desc":"Indicator that identifies a botnet command&control
server (C&C)",
         "ioc_type":"url",
         "ioc_type_desc":"URL that is used for botnet Command&control (C&C)",
         "malware":"win.vidar",
         "malware_printable":"Vidar",
         "malware_alias":null,
         "malware_malpedia":"https://malpedia.caad.fkie.fraunhofer.de/details/
win.vidar",
         "confidence_level":100,
         "first_seen":"2022-11-18 07:48:30 UTC",
         "last_seen":null,
         "reference":null,
         "reporter":"crep1x",
         "tags":[
            "Vidar"
         ]
      },
      {
         "id":"1020674",
         "ioc":"185.132.53.205:1312",
         "threat_type":"botnet_cc",
         "threat_type_desc":"Indicator that identifies a botnet command&control
server (C&C)",
         "ioc_type":"ip:port",
         "ioc_type_desc":"ip:port combination that is used for botnet
```

```
Command&control (C&C)",
         "malware":"elf.mirai",
         "malware_printable":"Mirai",
         "malware_alias":"Katana",
         "malware_malpedia":"https://malpedia.caad.fkie.fraunhofer.de/details/
elf.mirai",
         "confidence_level":75,
         "first_seen":"2022-11-18 06:50:05 UTC",
         "last_seen":null,
         "reference":"https://bazaar.abuse.ch/sample/
b0aed60367755280b88f0efd6d64083ac5d29ac095851ab0f013a6397ec5bcad/",
         "reporter":"abuse_ch",
         "tags":[
            "Mirai"
         ]
      }
   ]
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].ioc	Indicator Value	See Indicator Type Map	`.data[].first_seen`	185.132.53.205	IOC value depends on type. Check Indicator Type Map
.data[].tags	Indicator Tag	N/A	N/A	"dll", "QakBot", "qbot", "SilentBuilder", "TR"	User-Configurable
.data[].threat_type_desc	Indicator Description	N/A	`.data[].first_seen`	Indicator that identifies a malware distribution server (payload delivery)	Describes Indicator
.data[].id	Indicator Description	N/A	N/A	`https://threatfox.abuse.ch/ioc/1000/`	Formatted into the HTML description as "View Indicator in ThreatFox" link constructed from: https://threatfox.abuse.ch/ioc/ + .data[].id
.data[].reference	Indicator Description	N/A	N/A	`https://twitter.com/JAMESWT_MHT/status/1336229725082177536`	Formatted into the HTML description
.data[].malware_malpedia	Indicator Description	N/A	N/A	`https://malpedia.caad.fkie.fraunhofer.de/details/win.qakbot`	Formatted into the HTML description
.data[].reporter	Indicator Attribute	Reporter	`.data[].first_seen`	abuse_ch	User-Configurable
.data[].confidence_level	Indicator Attribute	Confidence	`.data[].first_seen`	100	Value between 0-100. Updatable. User-Configurable
.data[].confidence_level	Indicator Attribute	Normalized Confidence	`.data[].first_seen`	Critical	Normalised value based on `Confidence Score Normalization Mapping` user field, ingested when `Confidence` is checked. Updatable. User-Configurable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].ioc	Indicator Attribute	Port	`.data[].first_seen`	4003	If IOC type is `ip:port`. Indicates port for server payload. Split ip and port on condition ioc_type is "ip:port". User-Configurable
.data[].threat_type	Indicator Attribute	Threat Type	`.data[].first_seen`	payload_delivery	Describes the delievery method of the threat. User-Configurable
.data[].malware_printable	Indicator Attribute	Malware Family	`.data[].first_seen`	QakBot	User-Configurable
.data[].malware_alias	Indicator Attribute	Malware Alias	`.data[].first_seen`	Katana	User-Configurable

Indicator Type Mapping

The following table shows abuse.ch to ThreatQ indicator mapping:

ABUSE.CH VALUE	THREATQ VALUE
URL	URL
ip:port	IP Address
domain	URL
sha1_hash	SHA-1
sha3_384_hash	SHA-384
sha256_hash	SHA-256
sha512_hash	SHA-512
md5_hash	MD5
envelope_from	Email Address
body_from	Email Address

Average Feed Run

Object counts and Feed runtime are supplied as generalities only - objects returned by a provider can differ based on credential configurations and Feed runtime may vary based on system resources and load.

METRIC	RESULT
Run Time	3 min
Indicators	2,275
Indicator Attributes	20,521

Known Issues / Limitations

- API data fetching is restricted from 1 to 7 days with the time unit of 1 day.

Change Log

- **Version 1.1.0**
  - Added support for authenticating with the API.
  - Added the following configuration parameters:
    - **Auth Key** - authenticate with the abuse.ch ThreatFox API using an Auth Key.
    - **Context Selection** - select which pieces of context to ingest into ThreatQ with each indicator.
    - **Normalize Confidence Score** - normalize the confidence score to a "friendly" value for the ThreatQ Scoring Policy.
    - **Confidence Score Normalization Mapping** - allows you to provide normalization mapping if utilizing the **Normalize Confidence Score** parameter.
    - **Disable Proxies** - determine if the feed should not honor proxies set in the ThreatQ UI.
    - **Enable SSL Certificate Verification** - determine if the feed should validate the host-provided SSL certificate.
  - Added the ability to update attributes instead of duplicating them.
  - The following fields have been moved from attributes to the indicator description:
    - Description (attribute)
    - ThreatFox Link
    - Reference
    - Malpedia Reference
  - Resolved an error that caused the malware aliases to be ingested as a comma-separated list.
  - Updated the minimum ThreatQ version to 5.5.0.
- **Version 1.0.2**
  - Resolved a date parsing issue that customers on ThreatQ version 5.26 experienced when running the CDF.
- **Version 1.0.1**
  - The Attribute Confidence is now updated when a new value is ingested.
- **Version 1.0.0**
  - Initial release