ThreatQuotient

abuse.ch ThreatFox Action Guide

Version 1.0.0

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.0.0
Compatible with ThreatQ Versions	>= 5.6.0
ThreatQ TQO License Required	Yes
Support Tier	ThreatQ Supported
ThreatQ Marketplace	https://marketplace.threatq.com/details/abuse-ch-threatfox-cdf

Introduction

The abuse.ch ThreatFox Action submits a collection of indicators to the abuse.ch ThreatFox API in the form of individual HTTP requests. The returning response will provide additional contextual information for every indicator submitted.

The action can perform the following function:

- **abuse.ch ThreatFox** - enriches supported objects with attributes and related objects describing the IOC.

The action is compatible with the following indicator types:

- MD5
- SHA-1
- SHA-256
- FQDN
- IP
- URL
- SHA-256
- SHA-1
- MD5
- Email Address

The action returns the following enriched system objects:

- Indicators
- Malware

This action is intended for use with ThreatQ TDR Orchestrator (TQO). An active TQO license is required for this feature.

Prerequisites

- An active ThreatQ TDR Orchestrator (TQO) license.
- A data collection containing at least one of the following indicator types:
  - MD5
  - SHA-1
  - SHA-256
  - FQDN
  - IP
  - URL
  - SHA-256
  - SHA-1
  - MD5
  - Email Address

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 action file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the action 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 action already exists on the platform and will require user confirmation before proceeding. ThreatQ will also inform you if the new version of the action contains changes to the user configuration. The new user configurations will overwrite the existing ones for the action and will require user confirmation before proceeding.

You will still need to configure the action.

Configuration

> ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other integration-related credentials.

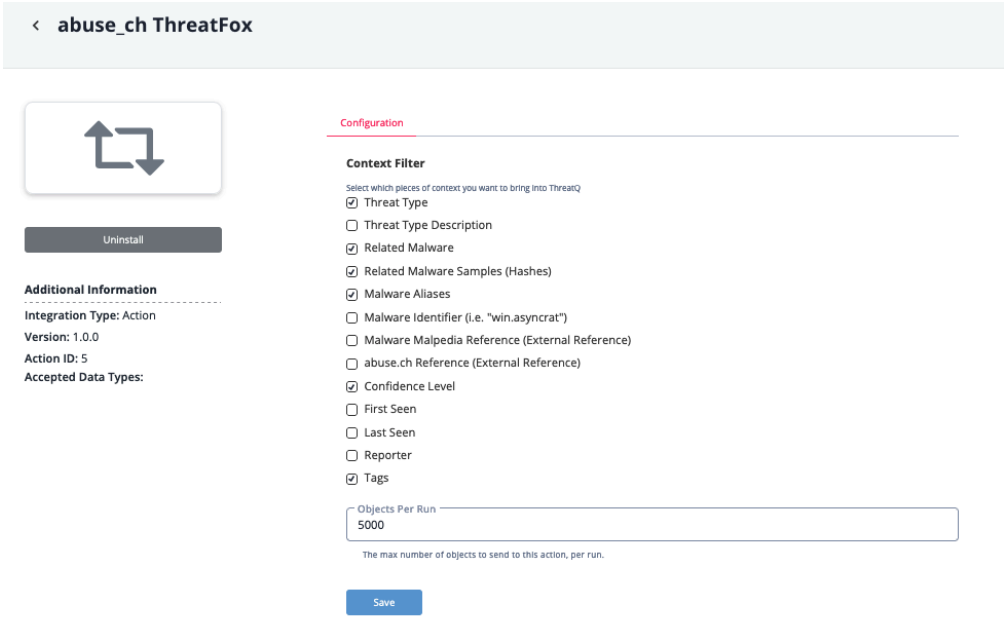
To configure the integration:

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

> The configurations set on this page will be used as the default settings when inserting this action into a new workflow. Updating the configurations on this page will not update any instances of this action that have already been deployed to a workflow. In that scenario, you must update the action's configurations within the workflow itself.

PARAMETER	DESCRIPTION
Supporting Context	Select the context you want to ingest into ThreatQ. Options include: • Threat Type (default) • Threat Type Description • Related Malware (default) • Related Malware (default) Samples (Hashes) • Malware Aliases (default) • Malware Malpedia Reference (External Reference) • abuse.ch Reference (External Reference) • Confidence Level (default) • First Seen • Last Seen • Reporter

PARAMETER	DESCRIPTION
	• Malware Identifier (i.e. "win.asyncrat") • Tags (default)
Objects Per Run	The maximum number of objects to send to this action, per run. The maximum value for this parameter is 50,000.



5. Review any additional settings, make any changes if needed, and click on **Save**.

Action Functions

The action provides the following function:

FUNCTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
abuse_ch ThreatFox	Queries ThreatFox API for context	Indicators	MD5, SHA-1, SHA-256, FQDN, IP, URL, SHA-256, SHA-1, MD5, Email Address

abuse_ch ThreatFox

The abuse_ch ThreatFox function enriches supported indicators by using the ThreatFox API.

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

Sample Body:

```
{
  "query": "search_ioc",
  "search_term": "<ioc_value>"
}
```

Sample Response:

```
{
    "query_status": "ok",
    "data": [
        {
            "id": "1035527",
            "ioc": "https://xoopscube.xyz/vema/index.php?QBOT.zip",
            "threat_type": "payload_delivery",
            "threat_type_desc": "Indicator that identifies a malware distribution server
(payload delivery)",
            "ioc_type": "url",
            "ioc_type_desc": "URL that delivers a malware payload",
            "malware": "win.qakbot",
            "malware_printable": "QakBot",
            "malware_alias": "Oakboat,Pinkslipbot,Qbot,Quakbot",
            "malware_malpedia": "https://malpedia.caad.fkie.fraunhofer.de/details/
win.qakbot",
            "confidence_level": 100,
           "first_seen": "2022-12-07 18:58:08 UTC",
           "last_seen": null,
```

```
            "reference": null,
             "reporter": "Cryptolaemus1",
             "tags": [
                 "BB09",
                 "QakBot",
                 "qbot",
                 "Quakbot",
                 "TR",
                 "U12",
                 "vhd",
                 "zip"
             ],
             "malware_samples": []
         }
    ]
}
```


ThreatQuotient provides the following default mapping for this function:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.data[].malware_printable`	malware.value	n/a	.data[].first_seen	`QakBot`	If enabled
`.data[].malware_alias`	malware.attribute	Alias	.data[].first_seen	`[Oakboat, Pinkslipbot, Qbot, Quakbot]`	If enabled
`.data[].malware_malpedia`	malware.attribute	External Reference	.data[].first_seen	`https://malpedia.caad.fkie.fraunhofer.de/details/win.qakbot`	If enabled
`.data[].malware`	malware.attribute	Malware Identifier	.data[].first_seen	`win.qakbot`	If enabled
`.data[].malware_samples[].md5_hash`	indicator.value	MD5	.data[].malware_samples[].time_stamp	n/a	If enabled
`.data[].malware_samples[].sha256_hash`	indicator.value	SHA-256	.data[].malware_samples[].time_stamp	n/a	If enabled
`.data[].first_seen`	indicator.attribute	First Seen	.data[].first_seen	`2022-12-07 18:58:08 UTC`	If enabled
`.data[].last_seen`	indicator.attribute	Last Seen	.data[].first_seen	n/a	If enabled
`.data[].reporter`	indicator.attribute	Reporter	.data[].first_seen	`Cryptolaemus1`	If enabled
`.data[].reference`	indicator.attribute	External Reference	.data[].first_seen	n/a	If enabled
`.data[].confidence_level`	indicator.attribute	Confidence Level	.data[].first_seen	`100`	If enabled
`.data[].threat_type_description`	indicator.attribute	Threat Type Description	.data[].first_seen	`Indicator that identifies a malware distribution server (payload delivery)`	If enabled
`.data[].threat_type`	indicator.attribute	Threat Type	.data[].first_seen	`payload_delivery`	If enabled
`.data[].ioc`	indicator.attribute	n/a	.data[].first_seen	n/a	n/a

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.data[].tags`	Indicator.tag	N/A	.data[].first_seen	`['BB09', 'QakBot', 'qbot', 'Quakbot', 'TR', 'U12', 'vhd', 'zip']`	If enabled

Enriched Data

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

METRIC	RESULT
Run Time	1 minute
Indicators	4
Indicator Attributes	25
Malware	3
Malware Attributes	11

Use Case Example

1. A Threat Analyst identifies a collection of supported objects they would like to enrich.
2. The Threat Analyst adds the abuse.ch ThreatFox Action to a workflow.
3. The Threat Analyst configures the action with the desired parameters and enables the workflow.
4. The workflow executes all actions in the graph, including the abuse.ch ThreatFox action.
5. The action returns the documented objects from the provider, ingesting them into the ThreatQ platform.

Change Log

- **Version 1.0.0**
  - Initial release