

ThreatQuotient



Spamhaus CDF Guide

Version 1.1.0

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ThreatQuotient

11400 Commerce Park Dr., Suite 200
Reston, VA 20191

 ThreatQ Supported

Support

Email: support@threatq.com

Web: support.threatq.com

Phone: 703.574.9893

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Versioning

- Current integration version 1.1.0
- Compatible with ThreatQ versions $\geq$ 4.35.0

Introduction

The Spamhaus CDF for ThreatQ enables users to ingest CIDR Block indicators, along with attributes and tags, allocated from compromised or known cyber-crime operations.

The integration provides the following feeds:

- **Spamhaus DROP List** - ingests CIDR Block indicators from netblocks allocated directly by an established Regional Internet Registry (RIR) or National Internet Registry (NIR) that are "hijacked" or leased by professional spam or cyber-crime operations (used for dissemination of malware, trojan downloaders, botnet controllers).
- **Spamhaus EDROP List** - an extension of the DROP list that includes sub-allocated netblocks controlled by spammers or cyber criminals.
- **Spamhaus eXBL** - enables the automatic ingestion of the eXBL dataset that Spamhaus offers (typically downloaded using rsync)

The integration ingests the following system objects:

- Indicators
 - Indicator Attributes

Prerequisites

The Spamhaus CDF integration requires access to Spamhaus' eXBL dataset via rsync.

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:



The Spamhaus DROP List and EDROP List will be located under the OSINT category and does not require you to set additional parameters. You must still enable these feeds. The Spamhaus eXBL entry will be located under the Commercial category and will require the completion of three parameters.

1. Navigate to your integrations management page in ThreatQ.
2. Select the **OSINT** option from the *Category* dropdown (optional).
3. Click on the **Spamhaus DROP List** and **EDROP List** entries and enable the feeds.
4. Select the **Commercial** option from the *Category* dropdown (optional).
5. Click on the Spamhaus eXML entry to open its details page.
6. Enter the following parameters under the **Configuration** tab:

PARAMETER	DESCRIPTION
Absolute File Path	Enter the absolute path to the Spamhaus eXBL JSON data-set, on the ThreatQ instance.
Attributes to Ingest	Select one or more attributes to bring into ThreatQ with the IOC record. Options include: ◦ Detection (default) ◦ Rule (default) ◦ Destination Port (default) ◦ Source Port (default) ◦ Destination IP Address (default) ◦ Source IP Address (default)

- Latitude
- Longitude
- Country Code (default)
- Heuristic (default)
- Protocol (default)
- Subject (default)
- HELO Sender
- Bot Name (default)

Ingest Bot Name As

Select the entities you want Bot Names to be ingested as into the ThreatQ platform.

Options include

- Attributes (default)
- Tags

< Spamhaus eXBL



Disabled ☒ Enabled

Uninstall

Additional Information

Integration Type: Feed

Version: 1.1.0

Configuration Activity Log

Absolute File Path

Enter the absolute path to the Spamhaus eXBL (JSON) dataset, on the ThreatQ instance

Context Filter

Select one or more pieces of context to bring into ThreatQ with the IOC record

☒ Detection

☒ Rule

☒ Destination Port

☒ Source Port

☒ Destination IP Address

☒ Source IP Address

☐ Latitude

☐ Longitude

☐ Country Code

☐ Heuristic

☐ Protocol

☐ Subject

☐ HELO Sender

☐ Bot Name

Ingest Bot Name As...

Select the entities you want Bot Names to be ingested as. You may select one or more

☒ Attributes

☐ Tags

7. Review any additional settings, make any changes if needed, and click on **Save**.
8. Click on the toggle switch, located above the *Additional Information* section, to enable it.

ThreatQ Mapping

Spamhaus DROP List

The Spamhaus Don't Route Or Peer List (DROP) feed allows a user to ingest CIDR Block indicators from netblocks allocated directly by an established Regional Internet Registry (RIR) or National Internet Registry (NIR) that are "hijacked" or leased by professional spam or cyber-crime operations (used for dissemination of malware, trojan downloaders, botnet controllers).

```
GET http://www.spamhaus.org/drop/drop.txt
```

Sample Response:

```
; Spamhaus DROP List 2020/07/30 - (c) 2020 The Spamhaus Project
; https://www.spamhaus.org/drop/drop.txt
; Last-Modified: Sat, 25 Jul 2020 08:39:55 GMT
; Expires: Thu, 30 Jul 2020 16:52:29 GMT
1.10.16.0/20 ; SBL256894
1.19.0.0/16 ; SBL434604
1.32.128.0/18 ; SBL286275
2.56.255.0/24 ; SBL444288
2.59.200.0/22 ; SBL463003
5.134.128.0/19 ; SBL270738
5.183.60.0/22 ; SBL463004
5.188.10.0/23 ; SBL402741
23.92.80.0/20 ; SBL372561
23.239.64.0/19 ; SBL372562
24.233.0.0/19 ; SBL210084
27.126.160.0/20 ; SBL257064
27.146.0.0/16 ; SBL326434
36.0.8.0/21 ; SBL225949
36.37.48.0/20 ; SBL258006
36.116.0.0/16 ; SBL303895
36.119.0.0/16 ; SBL303894
37.252.220.0/22 ; SBL461634
41.77.240.0/21 ; SBL478585
41.93.128.0/17 ; SBL464277
```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	CIDR Block	N/A	223.254.0.0/16	
1 (second token)	Indicator.Attribute	SBL ID	N/A	SBL212803	
1 (second token)	Indicator.Attribute	SBL Link	N/A	https://www.spamhaus.org/sbl/query/SBL212803	The base url https://www.spamhaus.org/sbl/query/ is always prepended to the second token value

Spamhaus EDROP List

Spamhaus Extended DROP List (EDROP) is an extension of the DROP list that includes suballocated netblocks controlled by spammers or cyber criminals.

GET <http://www.spamhaus.org/drop/edrop.txt>

Sample Response:

```
; Spamhaus EDROP List 2020/07/30 - (c) 2020 The Spamhaus Project
; https://www.spamhaus.org/drop/edrop.txt
; Last-Modified: Sat, 04 Jul 2020 01:32:55 GMT
; Expires: Fri, 31 Jul 2020 15:00:38 GMT
5.188.11.0/24 ; SBL402809
27.112.32.0/19 ; SBL237955
31.184.237.0/24 ; SBL419884
37.9.42.0/24 ; SBL394633
38.39.160.0/20 ; SBL460585
42.140.0.0/17 ; SBL253830
43.57.0.0/16 ; SBL271294
43.181.0.0/16 ; SBL271295
45.190.220.0/24 ; SBL487277
46.148.112.0/24 ; SBL394634
46.148.120.0/24 ; SBL394635
46.148.127.0/24 ; SBL394636
58.2.0.0/17 ; SBL249532
59.254.0.0/15 ; SBL230802
62.112.16.0/21 ; SBL237227
```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	CIDR Block	N/A	62.112.16.0/21	
1 (second token)	Indicator.Attribute	SBL ID	N/A	SBL230802	
1 (second token)	Indicator.Attribute	SBL Link	N/A	https://www.spamhaus.org/sbl/query/SBL230802	The base url https://www.spamhaus.org/sbl/query/ is always prepended to the second token value

Spamhaus eXBL

The Spamhaus eXBL will automatically ingest a Spamhaus eXBL JSON file into ThreatQ. This does not hit an API endpoint as the data is typically rsync'd to the host machine from the Spamhaus' servers.



It's advised/recommended that you setup a scheduled CRON-job to automatically rsync the data to the file that can be read by the CDF.

Sample Response:

```
{
  "type": "metadata",
  "timestamp": 1639409701,
  "rsync": [50,60,10,1,512,65536],
  "message": ""
}
{
  "ipaddress": "99.99.6.12",
  "botname": "unknown",
  "seen": 1639052434,
  "firstseen": 1639012462,
  "listed": 1639052542,
  "valid_until": 1639657234,
  "detection": "SMTP protocol violation",
  "rule": "05d0018d",
  "dstport": 25,
  "helo": "127.0.0.1",
  "heuristic": "INVALID",
  "asn": "7018",
  "lat": 26.718,
  "lon": -80.0989,
  "cc": "US",
  "srcip": "99.99.6.12"
}
{
  "ipaddress": "99.99.233.76",
  "botname": "zloader",
  "seen": 1639347086,
  "firstseen": 1633108277,
  "listed": 1639347131,
  "valid_until": 1639951886,
  "rule": "0ba70226",
  "dstip": "87.106.18.125",
  "dstport": 443,
  "heuristic": "SINKHOLE",
  "asn": "7018",
  "lat": 30.0516,
  "lon": -95.4707,
  "cc": "US",
  "protocol": "tcp",
  "srcip": "99.99.233.76",
  "srcport": 54172,
  "domain": "yuidskadjna.com"
}
{
  "ipaddress": "99.99.233.188",
  "botname": "gozi",
  "seen": 1639403174,
  "firstseen": 1636738290,
  "listed": 1639403294,
  "valid_until": 1640007974,
  "rule": "0b990220",
  "dstip": "87.106.18.141",
  "dstport": 80,
  "heuristic": "SINKHOLE",
  "asn": "7018",
  "lat": 30.0516,
  "lon": -95.4707,
  "cc": "US",
  "protocol": "tcp",
  "srcip": "99.99.233.188",
  "srcport": 56135,
  "domain": "vv.malorun.at"
}
{
  "ipaddress": "99.99.229.29",
  "botname": "zloader",
  "seen": 1639230958,
  "firstseen": 1632223600,
  "listed": 1639230967,
  "valid_until": 1639835758,
  "rule": "0ba70226",
  "dstip": "87.106.18.125",
  "dstport": 443,
  "heuristic": "SINKHOLE",
  "asn": "7018",
  "lat": 29.7912,
  "lon": -95.4182,
  "cc": "US",
  "protocol": "tcp",
  "srcip": "99.99.229.29",
  "srcport": 51493,
  "domain": "yuidskadjna.com"
}
{
  "ipaddress": "99.99.229.187",
  "botname": "zloader",
  "seen": 1639339532,
  "firstseen": 1639162100,
  "listed": 1639339570,
  "valid_until": 1639944332,
  "rule": "0ba70226",
  "dstip": "87.106.18.125",
  "dstport": 443,
  "heuristic": "SINKHOLE",
  "asn": "7018",
  "lat": 29.7912,
  "lon": -95.4182,
  "cc": "US",
  "protocol": "tcp",
  "srcip": "99.99.229.187",
  "srcport": 49428,
  "domain": "yuidskadjna.com"
}
```

ThreatQ provides the following default mapping for the feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	NORMALIZATION	PUBLISHED DATE	EXAMPLES	NOTES
.ipaddress	Indicator Value	IP Address	N/A	.firstseen	N/A	N/A
.domain	Indicator Value	FQDN	N/A	.firstseen	N/A	N/A
.botname	Indicator Tag	N/A	N/A	.firstseen	zloader	N/A
.detection	Attributes	Detection	N/A	.firstseen	multiple personalities observed in SMTP traffic data	N/A
.rule	Attributes	Rule	N/A	.firstseen	1a5803d0	N/A
.dstport	Attributes	Destination Port	N/A	.firstseen	N/A	N/A
.srcport	Attributes	Source Port	N/A	.firstseen	N/A	N/A
.dstip	Attributes	Destination IP Address	N/A	.firstseen	N/A	N/A
.srcip	Attributes	Source IP Address	N/A	.firstseen	N/A	N/A
.lat	Attributes	Latitude	N/A	.firstseen	N/A	N/A
.lon	Attributes	Longitude	N/A	.firstseen	N/A	N/A
.cc	Attributes	Country Code	N/A	.firstseen	CN	N/A
.heuristic	Attributes	Heuristic	N/A	.firstseen	N/A	INVALID is ignored
.protocol	Attributes	Protocol	N/A	.firstseen	tcp	N/A
.subject	Attributes	Subject	N/A	.firstseen	Patricia found the meaning of life in a bowl of Cheerios. HAYM6LYMONF6	N/A
.helo[]	Attributes	HELO Sender	N/A	.firstseen	newsblaze.com	N/A
.botname	Attributes	Bot Name	N/A	.firstseen	zloader	N/A

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.

Spamhaus DROP List

METRIC	RESULT
Run Time	1 minute
Indicators	777
Indicator Attributes	1,554

Spamhaus EDROP List

METRIC	RESULT
Run Time	1 minute
Indicators	87
Indicator Attributes	178

Spamhaus eXBL

METRIC	RESULT
Run Time	7 minutes
Indicators	4,216
Indicator Attributes	31,922



This test was done against a subset of the eXBL dataset. The eXBL dataset is extremely large, and full ingestion times can vary.

Known Issues / Limitations

- The eXBL dataset is incredibly large and can get up to millions and millions of indicators. As a result, this feed may take a very long time to run. It's advised you utilize the attribute filters to make sure you are only ingesting the context you need.
- Spamhaus does not offer a feed for the eXBL dataset. The file needs to be rsync'd from Spamhaus' servers, to ThreatQ, on a schedule.

Change Log

- **Version 1.1.0**
 - Added new eXBL feed.
- **Version 1.0.1**
 - Updated the `namespace`, `category`, and `default_indicator_status` fields.
- **Version 1.0.0**
 - Initial release