

ThreatQuotient



Hybrid Analysis CDF Guide

Version 1.1.0

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Support

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Support Email: support@threatq.com

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Versioning

- Current integration version: 1.1.0
- Compatible with ThreatQ versions $\geq$ 4.30.0

Introduction

The Hybrid Analysis CDF for ThreatQ allows a ThreatQ user to ingest sample reports from the public feed, as well as automatically ingest reports for samples submitted through ThreatQ, via the Hybrid Analysis Operation.

The CDF provides the following feeds:

- **Hybrid Analysis Public Feed** - enables the ingestion of public reports from Hybrid Analysis using their public feed.
- **Hybrid Analysis Submissions Feed** - enables the ingestion of reports from samples submitted through the Hybrid Analysis Operation from the ThreatQ platform.

The CDF ingests the following system objects:

- Attack Patterns
 - Attack Pattern Attributes
- Indicators
 - Indicator Attributes

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 to open its details page.
4. Enter the following parameters under the **Configuration** tab:

PARAMETER	DESCRIPTION
API Key	Your Hybrid Analysis API Key for authentication.
User Agent	The User-agent for the API. The default setting is Falcon Sandbox.

< Hybrid Analysis Public Feed



Disabled ☒ Enabled

Uninstall

Additional information
Integration Type: Feed
Version: 1.1.0

Configuration Activity Log

Domain

hybrid-analysis.com

Enter the domain for your Hybrid Analysis instance.

API Key

Enter your Hybrid Analysis API key for authentication.

User Agent

Falcon Sandbox

Enter a user-agent for the API (default: Falcon Sandbox)

How frequent should we pull information from this feed?

Every Day

Set indicator status to...

Active

☒ Send a notification when this feed encounters issues.

☐ Debug Option: Save the raw data response files.
We recommend leaving this disabled unless actively troubleshooting an issue because it utilizes a lot of disk space.

Save

5. Review any additional 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

ThreatQuotient provides section provides feed urls, sample responses, and default ThreatQ mapping.

Hybrid Analysis Public Feed

The Hybrid Analysis Public Feed enables the ingestion of public reports from Hybrid Analysis using their public feed.

GET <https://hybrid-analysis.com/api/v2/feed/latest>

Sample Response:

```
{
  "count": 174,
  "status": "ok",
  "data": [
    {
      "job_id": "5ebeb84be7702b60fe113eeb",
      "md5": "3e7488819b26ac88e372ac19d415d445",
      "sha1": "f5d5ad71a231afe21f5ba045ec5b597ebdcc4786",
      "sha256": "b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440",
      "interesting": false,
      "analysis_start_time": "2020-05-15 15:42:09",
      "threat_score": 18,
      "threat_level": 1,
      "threat_level_human": "suspicious",
      "unknown": true,
      "submit_name": "https://medium.com/@kopapic176/watch-britains-got-talent-season-14-episodes-6-6b83e2bce89e",
      "url_analysis": true,
      "domains": [
        "a16180790160.cdn.optimizely.com",
        "cdn-client.medium.com",
        "cdn-static-1.medium.com",
        "cdn.optimizely.com",
        "glyph.medium.com",
        "logx.optimizely.com",
        "medium.com",
        "miro.medium.com",
        "ocsp.pki.goog"
      ],
      "hosts": [
        "104.16.123.127",
        "104.16.120.145",
        "104.16.119.145",
        "104.16.118.145",
        "172.217.7.174",
        "172.217.15.99",
        "34.199.177.216"
      ]
    }
  ],
}
```

```
"hosts_geolocation": [
  {
    "ip": "104.16.123.127",
    "latitude": "37.7621",
    "longitude": "-122.3971",
    "country": "USA"
  },
  {
    "ip": "104.16.120.145",
    "latitude": "37.7621",
    "longitude": "-122.3971",
    "country": "USA"
  },
  {
    "ip": "104.16.119.145",
    "latitude": "37.7621",
    "longitude": "-122.3971",
    "country": "USA"
  }
],
"environment_id": 100,
"environment_description": "Windows 7 32 bit",
"shared_analysis": false,
"reliable": true,
"report_url": "/sample/
b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440/5eb8b84be7702b60fe113eeb",
"extracted_files": [
  {
    "name": "urlblockindex_1_.bin",
    "file_size": 16,
    "sha1": "e4f30e49120657d37267c0162fd4a08934800c69",
    "sha256": "775853600060162c4b4e5f883f9fd5a278e61c471b3ee1826396b6d129499aa7",
    "md5": "fa518e3dfae8ca3a0e495460fd60c791",
    "type_tags": ["data"],
    "description": "data",
    "threat_level": 0,
    "threat_level_readable": "no specific threat",
    "av_matched": 0,
    "av_total": 70,
    "file_available_to_download": false
  },
  {
    "name": "en-US.2",
    "file_path": "%LOCALAPPDATA%\\Microsoft\\Internet Explorer\\DomainSuggestions\\en-US.2",
    "file_size": 18176,
    "sha1": "3c96c993500690d1a77873cd62bc639b3a10653f",
    "sha256": "c6a5377cbc07eece33790cfc70572e12c7a48ad8296be25c0cc805a1f384dbad",
    "md5": "5a34cb996293fde2cb7a4ac89587393a",
    "type_tags": ["data"],
    "description": "data",
    "runtime_process": "iexplore.exe",
    "threat_level": 0,
    "threat_level_readable": "no specific threat",
    "file_available_to_download": false
  }
],
"processes": [
  {
    "uid": "562548150-00001272",
    "name": "rundll32.exe",
    "normalized_path": "%WINDIR%\\System32\\rundll32.exe",
```

```
      "command_line": "\"%WINDIR%\\System32\\ieframe.dll\",OpenURL C:\\
\b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440.url",
      "sha256": "3fa4912eb43fc304652d7b01f118589259861e2d628fa7c86193e54d5f987670"
    },
    {
      "uid": "562548293-00001964",
      "parentuid": "562548150-00001272",
      "name": "iexplore.exe",
      "normalized_path": "%PROGRAMFILES%\\Internet Explorer\\iexplore.exe",
      "command_line": "https://medium.com/@kopapic176/watch-britains-got-talent-season-14-
episodes-6-6b83e2bce89e",
      "sha256": "8abc7daa81c8a20bfd88b6a60ecc9ed1292fbb6cedbd6f872f36512d9a194bba"
    },
    {
      "uid": "562548314-00001712",
      "parentuid": "562548293-00001964",
      "name": "iexplore.exe",
      "normalized_path": "%PROGRAMFILES%\\Internet Explorer\\iexplore.exe",
      "command_line": "SCODEF:1964 CREDAT:275457 /prefetch:2",
      "sha256": "8abc7daa81c8a20bfd88b6a60ecc9ed1292fbb6cedbd6f872f36512d9a194bba"
    }
  ]
}
```

Hybrid Analysis Submissions

The Hybrid Analysis Submissions Feed enables the ingestion of reports from samples submitted through the Hybrid Analysis Operation from the ThreatQ platform.

GET <https://hybrid-analysis.com/api/v2/report/{sha256}:{environmentId}/summary>

Sample Response:

```
{
  "job_id": "5ebeb84be7702b60fe113eeb",
  "md5": "3e7488819b26ac88e372ac19d415d445",
  "sha1": "f5d5ad71a231afe21f5ba045ec5b597ebdcc4786",
  "sha256": "b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440",
  "interesting": false,
  "analysis_start_time": "2020-05-15 15:42:09",
  "threat_score": 18,
  "threat_level": 1,
  "threat_level_human": "suspicious",
  "unknown": true,
  "submit_name": "https://medium.com/@kopapic176/watch-britains-got-talent-season-14-episodes-6-6b83e2bce89e",
  "url_analysis": true,
  "domains": [
    "a16180790160.cdn.optimizely.com",
    "cdn-client.medium.com",
    "cdn-static-1.medium.com",
    "cdn.optimizely.com",
    "glyph.medium.com",
    "logx.optimizely.com",
    "medium.com",
    "miro.medium.com",
    "ocsp.pki.goog"
  ],
  "hosts": [
    "104.16.123.127",
    "104.16.120.145",
    "104.16.119.145",
    "104.16.118.145",
    "172.217.7.174",
    "172.217.15.99",
    "34.199.177.216"
  ],
  "hosts_geolocation": [
    {
      "ip": "104.16.123.127",
      "latitude": "37.7621",
      "longitude": "-122.3971",
      "country": "USA"
    },
    {
      "ip": "104.16.120.145",
      "latitude": "37.7621",
      "longitude": "-122.3971",
      "country": "USA"
    }
  ]
}
```

```
    "ip": "104.16.119.145",
    "latitude": "37.7621",
    "longitude": "-122.3971",
    "country": "USA"
  }
],
"environment_id": 100,
"environment_description": "Windows 7 32 bit",
"shared_analysis": false,
"reliable": true,
"report_url": "/sample/
b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440/5eb84be7702b60fe113eeb",
"extracted_files": [
  {
    "name": "urlblockindex_1_.bin",
    "file_size": 16,
    "sha1": "e4f30e49120657d37267c0162fd4a08934800c69",
    "sha256": "775853600060162c4b4e5f883f9fd5a278e61c471b3ee1826396b6d129499aa7",
    "md5": "fa518e3dfe8ca3a0e495460fd60c791",
    "type_tags": ["data"],
    "description": "data",
    "threat_level": 0,
    "threat_level_readable": "no specific threat",
    "av_matched": 0,
    "av_total": 70,
    "file_available_to_download": false
  },
  {
    "name": "en-US.2",
    "file_path": "%LOCALAPPDATA%\Microsoft\Internet Explorer\DomainSuggestions\en-US.2",
    "file_size": 18176,
    "sha1": "3c96c993500690d1a77873cd62bc639b3a10653f",
    "sha256": "c6a5377cbc07eece33790cfc70572e12c7a48ad8296be25c0cc805a1f384dbad",
    "md5": "5a34cb996293fde2cb7a4ac89587393a",
    "type_tags": ["data"],
    "description": "data",
    "runtime_process": "iexplore.exe",
    "threat_level": 0,
    "threat_level_readable": "no specific threat",
    "file_available_to_download": false
  }
],
"processes": [
  {
    "uid": "562548150-00001272",
    "name": "rundll32.exe",
    "normalized_path": "%WINDIR%\System32\rundll32.exe",
    "command_line": "\"%WINDIR%\System32\ieframe.dll\",OpenURL C:\
b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440.url",
    "sha256": "3fa4912eb43fc304652d7b01f118589259861e2d628fa7c86193e54d5f987670"
  },
  {
    "uid": "562548293-00001964",
    "parentuid": "562548150-00001272",
    "name": "iexplore.exe",
    "normalized_path": "%PROGRAMFILES%\Internet Explorer\iexplore.exe",
    "command_line": "https://medium.com/@kopapic176/watch-britains-got-talent-season-14-episodes-6-6b83e2bce89e",
    "sha256": "8abc7daa81c8a20bfd88b6a60ecc9ed1292fbb6cedbd6f872f36512d9a194bba"
  },
  {
    "uid": "562548314-00001712",
```

```
"parentuid": "562548293-00001964",  
"name": "iexplore.exe",  
"normalized_path": "%PROGRAMFILES%\\Internet Explorer\\iexplore.exe",  
"command_line": "SCODEF:1964 CREDAT:275457 /prefetch:2",  
"sha256": "8abc7daa81c8a20bfd88b6a60ecc9ed1292fbb6cedbd6f872f36512d9a194bba"  
}  
]
```

Default Mapping

ThreatQuotient provides the following default mapping for the Hybrid Analysis Public Feed & Hybrid Analysis Submissions feeds.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
data[].mitre_attcks[].attck_id/technique	Related Attack Pattern	N/A	data[].analysis_start_time	T100 - Some MITRE Technique	Formatted string
data[].processes[].normalized_path	Indicator Value	File Path	data[].analysis_start_time	N/A	N/A
data[].domains[]	Indirect Indicator Value	FQDN	data[].analysis_start_time	blahblah.google.com	Indirect because they may be common hosts
data[].hosts_geolocation[].ip	Indirect Indicator Value	IP Address	data[].analysis_start_time	N/A	Indirect because they may be common host IPs
data[].extracted_files[].file_path	Indicator Value	File Path	data[].analysis_start_time	N/A	N/A
data[].extracted_files[].md5	Indicator Value	MD5	data[].analysis_start_time	N/A	N/A
data[].extracted_files[].name	Indicator Value	Filename	data[].analysis_start_time	N/A	N/A
data[].extracted_files[].sha256	Indicator Value	SHA-256	data[].analysis_start_time	N/A	N/A
data[].submit_name	Indicator Value	Filename/URL	data[].analysis_start_time	N/A	Type depends on 'url_analysis' flag
data[].compromised_hosts[]	Indicator Value	IP Address	data[].analysis_start_time	N/A	N/A
data[].md5	Indicator Value	MD5	data[].analysis_start_time	N/A	N/A
data[].sha1	Indicator Value	SHA-1	data[].analysis_start_time	N/A	N/A
data[].sha256	Indicator Value	SHA-256	data[].analysis_start_time	N/A	N/A
data[].sha512	Indicator Value	SHA-512	data[].analysis_start_time	N/A	N/A
data[].threat_score	Indicator Attribute	Threat Score	data[].analysis_start_time	65	N/A
data[].threat_level	Indicator Attribute	Threat Level	data[].analysis_start_time	2	Numerical representation of "verdict"
data[].verdict	Indicator Attribute	Verdict	data[].analysis_start_time	Malicious	Readable representation of "threat_level"
data[].environment_description	Indicator Attribute	Scan Environment	data[].analysis_start_time	Windows 7 32 bit	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
data[].av_detect	Indicator Attribute	Detection Rate	data[].analysis_start_time	22%	Percentage
data[].vx_family	Indicator Attribute	Malware Family	data[].analysis_start_time	Trojan.RP.Generic	N/A
data[].type_short[]	Indicator Attribute	File Type	data[].analysis_start_time	peexe	N/A
data[].size	Indicator Attribute	File Size	data[].analysis_start_time	100020	N/A
data[].extracted_files[].description	Indicator Attribute	Description	data[].analysis_start_time	N/A	N/A
data[].extracted_files[].threat_level	Indicator Attribute	Threat Level	data[].analysis_start_time	1	Numerical representation of "threat_level_readable"
data[].extracted_files[].threat_level_readable	Indicator Attribute	Verdict	data[].analysis_start_time	Suspicious	Readable representation of "threat_level"
data[].extracted_files[].av_label	Indicator Attribute	AV Label	data[].analysis_start_time	Unrated site	N/A
data[].extracted_files[].av_matched/av_total	Indicator Attribute	Detections	data[].analysis_start_time	22 / 84	Formatted string
data[].extracted_files[].file_size	Indicator Attribute	File Size	data[].analysis_start_time	123455	N/A
data[].hosts_geolocation[].country	Indicator Attribute	Country	data[].analysis_start_time	USA	N/A
data[].mitre_attcks[].tactic	Attack Pattern Attribute	Tactic	data[].analysis_start_time	N/A	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.

Hybrid Analytics Public Feed

METRIC	RESULT
Run Time	2 minutes
Indicators	1,200
Indicator Attributes	4,800
Attack Patterns	20
Attack Pattern Attributes	25

Hybrid Analytics Submissions

Average Feed Run results for Hybrid Analytics Submissions will vary depending on operation usage.

Known Issues / Limitations

- API usage is subject to Hybrid Analysis' rate limiting per-API-key. You should stagger feed runs to reduce API usage.

Change Log

- **Version 1.1.0**
 - Fixed a filter mapping bug.
- **Version 1.0.0**
 - Initial release