

ThreatQuotient



Hybrid Analysis CDF

Version 1.2.3

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ThreatQuotient

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 ThreatQ Supported

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version 1.2.3

**Compatible with ThreatQ
Versions** $\geq 5.11.0$

Support Tier ThreatQ Supported

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.
- **Hybrid Analysis Quick Scans** - ingests quick scan results and sandbox reports for samples or URLs submitted by the Hybrid Analysis Operation.

The CDF ingests the following system objects:

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

Prerequisites

The following is required to use the integration:

- A Hybrid Analysis domain name and API Key.

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 yaml file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the yaml file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the file on your local machine
6. Select the feed(s) to install when prompted and click on **Install**.



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.

7. The feed(s) will be added to the integrations page. You will still need to [configure and then enable](#) the feed(s).

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:

Public Feed and Submissions Parameters

PARAMETER	DESCRIPTION
Domain	The domain of your Hybrid Analysis instance.
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

Run Integration

Uninstall

Additional Information

Integration Type: Feed
Version:

Configuration

Activity Log

Domain

Enter the domain for your Hybrid Analysis instance

API Key

Enter your Hybrid Analysis API Key for authentication.

User Agent

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

Set indicator status to...

Active

Run Frequency

Every 24 Hours

Next scheduled run:
2024-07-02 07:14am (-04:00)

Quick Scans Parameters

PARAMETER	DESCRIPTION
Domain	The domain of your Hybrid Analysis instance
API Key	Your Hybrid Analysis API Key for authentication.
User Agent	The User-agent for the API. The default setting is Falcon Sandbox.
Quick Scan Context	Select the pieces of information about a quick to bring in from Hybrid Analysis.
Ingest Sandbox Report	Ingest the Sandbox Report associated with the quick scan.
	 Each report will add +1 API calls per quick scan.

< Hybrid Analysis Quick Scans



Disabled ☒ Enabled

Run Integration

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration

Activity Log

Connection & Authentication

Configure the connection and authentication settings for your Hybrid Analysis instance.

Domain

Enter the domain for your Hybrid Analysis instance.

API Key

Enter your Hybrid Analysis API Key for authentication.

User Agent

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

Ingest Options

Use the following options to select which information to bring into ThreatQ.

Quick Scan Context

Select the quick scan context to bring in from Hybrid Analysis.

- ☐ Scanner Disposition
- ☐ Scanner Detection Rate
- ☒ Scanner Detections
- ☐ Whitelist Information
- ☐ Ingest Sandbox Report

Ingest the Sandbox Report associated with the quick scan. Each report will add +1 API calls per quick scan.

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 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": "5eb84be7702b60fe113eeb",
      "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/
b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440/5ebeb84be7702b
60fe113eeb",
  "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 within ThreatQ. In order for this feed to ingest data, it is mandatory that ThreatQ Threat Library to contain indicators that have the Hybrid Analysis Verdict and Scan Link attributes. These attributes can be added using the Hybrid Analysis ThreatQ Operation. The feed will retrieve all the indicators having these attributes and queries Hybrid Analysis to get Sandbox reports.

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

Sample Response:

```
{
  "job_id": "5eb84be7702b60fe113eeb",
  "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/
b71f228ade7b30e6e431c872a53b007d6bf7ff8604255c4e6a9276ca13651440/5eb84be7702b
60fe113eeb",
"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"
    }
    ]
}

```

Public Feed and Submissions Mapping

The Hybrid Analysis Public Feed and Submissions feed share the same mapping table listed below.

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	If the attribute already exists, the value will be updated
data[].threat_level	Indicator Attribute	Threat Level	data[].analysis_start_time	2	Numerical representation of "verdict"
data[].verdict	Indicator Attribute	Hybrid Analysis Verdict	data[].analysis_start_time	Malicious	Readable representation of "threat_level", if the attribute already exists, the value will be updated
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	Hybrid Analysis Verdict	data[].analysis_start_time	Suspicious	Readable representation of "threat_level", if the attribute already exists, the value will be updated
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

Hybrid Analysis Quick Scans

The Hybrid Analysis Quick Scans Feed enables the ingestion of quick scan results and sandbox reports for samples or URLs submitted through the Hybrid Analysis Operation within ThreatQ. For this feed to ingest data it is mandatory that ThreatQ Library contains indicators having the attribute `Hybrid Analysis Quick Scan ID`. This attribute can be added using the Hybrid Analysis ThreatQ Operation. The feed gets all the indicators having this attribute and queries Hybrid Analysis to get quick scan results.

GET https://hybrid-analysis.com/api/v2/quick-scan/{hybrid_analysis_quick_scan_id}

Sample Response:

```
{
  "id": "667d15f7e46d689e7e0ac4b6",
  "sha256": "a2a28705f577b928c211130f2d779604c58c7ea82a25dfae7f29308d0e166d69",
  "scanners": [
    {
      "name": "Metadefender",
      "status": "clean",
      "error_message": null,
      "progress": 100,
      "total": 23,
      "positives": 0,
      "percent": 0,
      "anti_virus_results": []
    }
  ],
  "scanners_v2": {
    "crowdstrike_ml": null,
    "virustotal": null,
    "metadefender": {
      "name": "Metadefender",
      "status": "clean",
      "error_message": null,
      "progress": 100,
      "total": 23,
      "positives": 0,
      "percent": 0,
      "anti_virus_results": []
    }
  },
  "whitelist": [
    {
      "id": "internal",
      "value": false
    }
  ],
  "reports": [
```

```
"5b8413ab7ca3e13e5c4aece3"
],
"finished": true
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.scanners_v2[].{SCANNER_NAME}.status	Indicator.Attribute	{SCANNER_NAME} Disposition	N/A	Clean	Mapped using the table Hybrid Analysis Scan Status. If enabled in used config.
.scanners_v2[].{SCANNER_NAME}.percent	Indicator.Attribute	{SCANNER_NAME} Detection Rate	N/A	0%	% is appended. If enabled in used config.
.scanners_v2[].{SCANNER_NAME}.positives, .scanners_v2[].{SCANNER_NAME}.total	Indicator.Attribute	{SCANNER_NAME} Detections	N/A	0/23	Concatenated using /. If enabled in used config.
.whitelist[].id, .whitelist[].value	Indicator.Attribute	{WHITELIST_ID} Whitelisted	N/A	No	Mapped to Yes or No.
.sha256	Related Indicator.Value	SHA-256	N/A	a2a28705 f577b928 c211130f 2d779604 c58c7ea8 2a25dfae 7f29308d 0e166d69	N/A



If the **Ingest Sandbox Report** configuration option is enabled, .sha256 is used to get the Sandbox Report. The SandBox Report has the same mapping as **Hybrid Analysis Submissions** feed.

Hybrid Analysis Scan Status Mapping

The following table outlines the Hybrid Analysis Scan Status to ThreatQ Disposition Attribute mapping.

HYBRID ANALYSIS SCAN STATUS	THREATQ DISPOSITION ATTRIBUTE
no-result	No Result
no-classification	No Classification
in-queue	In Queue
clean	Clean
malicious	Malicious
unsure	Unsure

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

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

Hybrid Analytics Quick Scans

METRIC	RESULT
Run Time	2 minutes
Indicators	500
Indicator Attributes	7,00

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 1.2.3**
 - Added a new feed: Hybrid Analysis Quick Scans.
- **Version 1.2.2**
 - Added ingest rules for the Hybrid Analysis Verdict and Threat Score attributes.
 - Rename the Verdict attribute to Hybrid Analysis Verdict.
- **Version 1.2.1**
 - Upgraded the integration for compatibility with ThreatQ version 5.22.0 and later.
 - Updated the minimum ThreatQ version to 5.11.0.
- **Version 1.2.0**
 - Fixed a bug that that would result in calling an endpoint without the required query parameters.
 - Added improvement safeguards for the integration.
- **Version 1.1.0**
 - Fixed a filter mapping bug.
- **Version 1.0.0**
 - Initial release