

ThreatQuotient



VirusTotal LiveHunt CDF Guide

Version 2.1.0

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ThreatQuotient

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ThreatQ Supported

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Contents

Integration Details..... 5

Introduction 6

Installation..... 7

Configuration 8

ThreatQ Mapping 10

Average Feed Run..... 17

 VirusTotal LiveHunt..... 17

Known Issues / Limitations 18

Change Log..... 19

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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	2.1.0
Compatible with ThreatQ Versions	>= 4.43.0
Support Tier	ThreatQ Supported
ThreatQ Marketplace	https:// marketplace.threatq.com/ details/virustotal-livehunt- feed

Introduction

The VirusTotal LiveHunt CDF ingests and enriches Incident type Events and related indicators into your ThreatQ platform from your VirusTotal LiveHunt environment.

 ThreatQ recommends using this integration in conjunction with VirusTotal LiveHunt Operation. The Operation will push YARA Signatures from ThreatQ to VirusTotal LiveHunt, and the CDF will ingest data related to each signature from VirusTotal LiveHunt back into ThreatQ.

The integration provides the following endpoint:

- **VirusTotal LiveHunt** - ingests incident type Events that can be enriched with attributes and related Indicators.

The integration ingests the following system object types:

- Events
 - Event Attributes
- Indicators

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 **Commercial** 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
API Key	VirusTotal LiveHunt API Key to be used in HTTP headers for accessing feed data.
Ingest Attributes	Use this parameter to select whether to ingest attributes.



Disabled
☒
Enabled

Uninstall

Additional Information

Integration Type: Feed

Version: 2.0.0

Configuration

Activity Log

API Key

API Key

☐ Ingest Attributes

Choose whether to ingest or not the attributes.

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

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

ThreatQ Mapping

VirusTotal LiveHunt

The VirusTotal LiveHunt feed creates and enriches incident type events with attributes and related indicators.

GET https://www.virustotal.com/api/v3/intelligence/hunting_notification_files

Sample Response:

```
{
  "data": [
    {
      "attributes": {
        "androguard": {
          "Activities": [

            "com.google.android.gms.auth.api.signin.internal.SignInHubActivity",
            "com.google.android.gms.common.api.GoogleApiActivity"

          ],
          "AndroguardVersion": "3.0-dev",
          "AndroidApplication": 1,
          "AndroidApplicationError": false,
          "AndroidApplicationInfo": "APK",
          "AndroidVersionCode": "71000222",
          "AndroidVersionName": "3.41.1",
          "Libraries": [
            "org.apache.http.legacy"
          ],
          "MinSdkVersion": "17",
          "Package": "com.b2w.soubarato",
          "Providers": [
            "com.b2w.main.providers.SoubAutoCompleteSuggestionProvider",
            "com.imagepicker.FileProvider"
          ],
          "Receivers": [
            "com.facebook.CurrentAccessTokenExpirationBroadcastReceiver",
            "com.google.android.gms.measurement.AppMeasurementReceiver",

            "com.google.android.datatransport.runtime.scheduling.jobscheduling.AlarmManagerSchedulerBroadcastReceiver"

          ],
          "RiskIndicator": {
            "APK": {
              "DEX": 3
            },
            "PERM": {
              "DANGEROUS": 3,
              "INTERNET": 1,
              "NORMAL": 9,
              "PRIVACY": 3,
              "SIGNATURE": 1
            }
          }
        }
      }
    }
  ]
}
```

```
},
"Services": [
  "com.google.android.datatransport.runtime.backends.TransportBackendDiscovery",
  "com.google.android.datatransport.runtime.scheduling.jobscheduling.JobInfoSchedulerService"
],
"StringsInformation": [
  "http://",

  "https://www.example.com/"
],
"TargetSdkVersion": "29",
"VTAndroidInfo": 1.41,
"certificate": {
  "Issuer": {
    "C": "55",
    "CN": "Francisco Cavedon",
    "DN": "C:55, CN:Francisco Cavedon, L:Rio de Janeiro, O:Ideais, ST:RJ, OU:Mobile",
    "L": "Rio de Janeiro",
    "O": "Ideais",
    "OU": "Mobile",
    "ST": "RJ"
  },
  "Subject": {
    "C": "55",
    "CN": "Francisco Cavedon",
    "DN": "C:55, CN:Francisco Cavedon, L:Rio de Janeiro, O:Ideais, ST:RJ, OU:Mobile",
    "L": "Rio de Janeiro",
    "O": "Ideais",
    "OU": "Mobile",
    "ST": "RJ"
  },
  "serialnumber": "737736f4",
  "thumbprint": "486454815aa53bd3182797f507ed6f58fe9af772",
  "validfrom": "2014-02-05 13:37:21",
  "validto": "2039-01-30 13:37:21"
},
"intent_filters": {
  "Activities": {
    "com.b2w.main.activity.account.manager.MyAccountActivity": {
      "action": [
        "android.intent.action.VIEW"
      ],
      "category": [
        "android.intent.category.DEFAULT",
        "android.intent.category.BROWSABLE"
      ]
    },
    "com.facebook.CustomTabActivity": {
      "action": [
        "android.intent.action.VIEW"
      ],
      "category": [
        "android.intent.category.DEFAULT",
        "android.intent.category.BROWSABLE"
      ]
    }
  }
},
"Receivers": {
  "com.pushio.manager.PushIOBroadcastReceiver": {
    "action": [
      "com.google.android.c2dm.intent.RECEIVE",
```

```
        "com.google.android.c2dm.intent.REGISTRATION"
    ],
    "category": [
        "com.b2w.soubarato"
    ]
},
"Services": {
    "com.b2w.main.push.SoubaratoFCMService": {
        "action": [
            "com.google.firebase.MESSAGING_EVENT"
        ]
    },
    "com.pushio.manager.PIOFCMIntentService": {
        "action": [
            "com.google.firebase.MESSAGING_EVENT",
            "com.google.firebase.INSTANCE_ID_EVENT"
        ]
    }
},
"main_activity": "com.b2w.main.activity.MainActivity",
"permission_details": {
    "me.everything.badger.permission.BADGE_COUNT_READ": {
        "full_description": "Unknown permission from android reference",
        "permission_type": "normal",
        "short_description": "Unknown permission from android reference"
    },
    "me.everything.badger.permission.BADGE_COUNT_WRITE": {
        "full_description": "Unknown permission from android reference",
        "permission_type": "normal",
        "short_description": "Unknown permission from android reference"
    }
},
"bundle_info": {
    "extensions": {
        "bin": 1,
        "cer": 1,
        "crt": 1,
        "dex": 3,
        "gz": 1,
        "jpg": 3,
        "js": 1,
        "otf": 1,
        "png": 255,
        "ttf": 2,
        "txt": 1,
        "xml": 592
    },
    "file_types": {
        "DEX": 3,
        "JPG": 4,
        "Java Bytecode": 1,
        "PNG": 255,
        "XML": 592,
        "unknown": 145
    },
    "highest_datetime": "1980-00-00 00:00:00",
    "lowest_datetime": "1980-00-00 00:00:00",
    "num_children": 1238,
```

```
    "type": "APK",
    "uncompressed_size": 45875567
  },
  "capabilities_tags": [],
  "downloadable": true,
  "exiftool": {
    "FileType": "ZIP",
    "FileTypeExtension": ".zip",
    "MIMEType": "application/zip",
    "ZipBitFlag": "0",
    "ZipCRC": "0x0f0d5329",
    "ZipCompressedSize": "11703",
    "ZipCompression": "Deflated",
    "ZipFileName": "AndroidManifest.xml",
    "ZipModifyDate": "1980:00:00 00:00:00",
    "ZipRequiredVersion": "0",
    "ZipUncompressedSize": "70984"
  },
  "first_submission_date": 1601777166,
  "last_analysis_date": 1604478567,
  "last_analysis_results": {
    "ALYac": {
      "category": "undetected",
      "engine_name": "ALYac",
      "engine_update": "20201104",
      "engine_version": "1.1.1.5",
      "method": "blacklist",
      "result": null
    },
    "APEX": {
      "category": "type-unsupported",
      "engine_name": "APEX",
      "engine_update": "20201104",
      "engine_version": "6.94",
      "method": "blacklist",
      "result": null
    },
    "eGambit": {
      "category": "type-unsupported",
      "engine_name": "eGambit",
      "engine_update": "20201104",
      "engine_version": null,
      "method": "blacklist",
      "result": null
    },
    "Bkav": {
      "category": "malicious",
      "engine_name": "Bkav",
      "engine_update": "20201117",
      "engine_version": "1.3.0.9899",
      "method": "blacklist",
      "result": "W32.AIDetectVM.malware2"
    },
    "Cylance": {
      "category": "malicious",
      "engine_name": "Cylance",
      "engine_update": "20201124",
      "engine_version": "2.3.1.101",
      "method": "blacklist",
      "result": "Unsafe"
    }
  }
}
```

```
    },
    "last_analysis_stats": {
      "confirmed-timeout": 0,
      "failure": 1,
      "harmless": 0,
      "malicious": 0,
      "suspicious": 0,
      "timeout": 3,
      "type-unsupported": 12,
      "undetected": 60
    },
    "last_modification_date": 1604478749,
    "last_submission_date": 1604478567,
    "magic": "Zip archive data",
    "main_icon": {
      "dhash": "d4c8e8e8e8e8b2cc",
      "raw_md5": "76b13404cbc08c06a46cf6b1c1c9e937"
    },
    "md5": "0a33341ab24baddf443a890f8b815e0f",
    "meaningful_name": "com.b2w.soubarato",
    "names": [
      "yMNMxqjSgnmm55zzyax120201004-118624-sxoqgo"
    ],
    "reputation": 0,
    "sha1": "f4b1f470b1cee686d97602e7d6e51d43d6bef1de",
    "sha256": "c3e6aa52d926d0d00e89d8ba09fa21ef95c63fba9cfbf3d4217891fa27230394",
    "size": 18080108,
    "ssdeep":
"393216:JaqZ7bmEMEtSf7AdB4KICa5ZicJZ6+HgDjvTYV5NBbRJSJMcqg8gdrv3JZh7:cqhMED8famCajicH6+HgDjvs5N4yg88j",
    "tags": [
      "apk",
      "android"
    ],
    "times_submitted": 2,
    "tlsh": "T15B073394F368E41BC9BBA43399A6036226421D8585C2EF532558F34CAEF7E844F59FCC",
    "total_votes": {
      "harmless": 0,
      "malicious": 0
    },
    "trid": [
      {
        "file_type": "VYM Mind Map",
        "probability": 9.0
      }
    ],
    "type_description": "Android",
    "type_tag": "android",
    "unique_sources": 2,
    "vhash": "edafd3c0e528684be1d6409852ab8eb3"
  },
  "context_attributes": {
    "match_in_subfile": false,
    "notification_date": 1604478761,
    "notification_id": "1695784045420398-5121460817657856-9ce413deb7042fede0817960b939fa4b",
    "notification_snippet": "16 41 4C 54 45 52 41 52 20 45 4D 41 49 4C 20 4F .ALTERAR EMAIL",
    "notification_source_country": "LU",
    "notification_source_key": "83276777",
    "notification_tags": [
      "c3e6aa52d926d0d00e89d8ba09fa21ef95c63fba9cfbf3d4217891fa27230394",
      "banbra",
      "banker"
    ]
  }
}
```

```

    ],
    "rule_name": "banbra",
    "rule_tags": [
        "banker"
    ],
    "ruleset_id": "5121460817657856",
    "ruleset_name": "banbra"
  },
  "id": "c3e6aa52d926d0d00e89d8ba09fa21ef95c63fba9c9cfbf3d4217891fa27230394",
  "links": {
    "self": "https://www.virustotal.com/api/v3/files/c3e6aa52d926d0d00e89d8ba09fa21ef95c63fba9c9cfbf3d4217891fa27230394"
  },
  "type": "file"
}
],
"links": {
  "self": "https://www.virustotal.com/api/v3/users/tis.threatq/hunting_notification_files?limit=10"
},
"meta": {
  "count": 1
}
}

```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].context_attributes.ruleset_name	Event.Attribute	Ruleset Name	.data[].attributes.first_submission_date	'banker'	The attributes will only be ingested if the user select this option
.data[].context_attributes.notification_source_country	Event.Attribute	Source Country	.data[].attributes.first_submission_date	'US'	The attributes will only be ingested if the user select this option
.data[].attributes.magic	Event.Attribute	Magic	.data[].attributes.first_submission_date	'Dalvik dex file version 035'	The attributes will only be ingested if the user select this option
.data[].attributes.meaningful_name	Event.Attribute	Meaningful Name	.data[].attributes.first_submission_date	'classes.dex'	The attributes will only be ingested if the user select this option
.data[].attributes.reputation	Event.Attribute	Reputation	.data[].attributes.first_submission_date	'0'	The attributes will only be ingested if the user select this option
.data[].attributes.trid.file_type	Event.Attribute	File Type	.data[].attributes.first_submission_date	'Dalvik Dex class'	The attributes will only be ingested if the user select this option
.data[].attributes.trid.probability	Event.Attribute	Probability	.data[].attributes.first_submission_date	'100'	The attributes will only be ingested if the user select this option
.data[].attributes.type_description	Event.Attribute	Description Type	.data[].attributes.first_submission_date	'Android'	The attributes will only be ingested if the user select this option
.data[].attributes.type_tag	Event.Attribute	Tag Type	.data[].attributes.first_submission_date	'android'	The attributes will only be ingested if the user select this option

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attributes.exiftool. FileTypeExtension	Event.Attribute	File Extension	.data[].attributes.first _submission_date	'DEX'	The attributes will only be ingested if the user select this option
.data[].attributes.last_ analysis_results.(key).result	Event.Attribute	(key) Analysis Result	.data[].attributes.first _submission_date	'Unsafe'	The name of this attribute is dynamically set with the value found on (key). We only add this attribute if the value is not null.
.data[].attributes.md5	Related.Indicator	MD5	.data[].attributes.first _submission_date	'52c5d34ffcf797f5d8de9fb 8ae9120c8'	N/A
.data[].attributes.sha1	Related.Indicator	SHA-1	.data[].attributes.first _submission_date	'552eb372553ee115b8871 4180513da44cce748da'	N/A
.data[].attributes.sha256	Related.Indicator	SHA-256	.data[].attributes.first _submission_date	'8775216e22c6501fc65042c 8c3a984fce0c20b27bdd17c 28493c2318d7bb5cc9'	N/A
.data[].attributes.ssdeep	Related.Indicator	Fuzzy Hash	.data[].attributes.first _submission_date	'49152:vaMqTZeWWZsKWQf g+sbwUt1pdV/eTETEmvHN gYjkGKeQU6/7knE5KS:iMooT sAmMoHe7beQES'	N/A
.data[].context_attributes. rule_name	Event.Type	Incident	.data[].attributes.first _submission_date	'banbra'	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.

VirusTotal LiveHunt

METRIC	RESULT
Run Time	2 minutes
Events	1
Event Attributes	333
Indicators	6

Known Issues / Limitations

- Due to the limitation in the API, the manual run will fetch all the data - not just the one for the selected interval.

Change Log

- **Version 2.1.0**
 - Added the ability to perform a manual run.
 - Added new issue to Known Issues / Limitations chapter.
- **Version 2.0.1**
 - Fixed an issue where indicators were not ingested into the ThreatQ platform.
- **Version 2.0.0**
 - The integration now ingests Incident type Events objects instead of Signatures. The ingestion of Malware types has also been removed from the integration.
 - Added a new configuration parameter that allows users to select whether or not to ingest attributes.
- **Version 1.1.0**
 - Fixed issue for objects that were not being ingested.
- **Version 1.0.0**
 - Initial release