

ThreatQuotient



abuse.ch MalwareBazaar Action Guide

Version 1.0.0

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ThreatQuotient

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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- malwarebazaar-action

Introduction

The abuse.ch Malwarebazaar action submits data collection containing MD5, SHA-1 and SHA-256 IOCs to abuse.ch MalwareBazaar and returns Indicators, TTPs and Malware. The abuse.ch MalwareBazaar queries the submitted objects for enrichment and returns related threat intelligence to be ingested into the ThreatQ library.

The action can perform the following function:

- **abuse.ch MalwareBazaar** - submits indicators to abuse.ch MalwareBazaar to be enriched with related threat intelligence.

The action is compatible with the following indicator types:

- MD5
- SHA-1
- SHA-256

The action returns the following enriched system objects:

- Indicators
 - Indicator Attributes
- Indicator Tags
- Malware
- TTP



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

Prerequisites

The action requires the following:

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

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
Ingest MalwareBazaar Tags As	Select how to ingest tags returned by the action. Options include: ◦ Tags (default) ◦ Attributes ◦ Both
Context Filter	Select the pieces of context to bring into ThreatQ. Options include: ◦ Fuzzy Hash ◦ SHA-256 Hash ◦ SHA-384 Hash ◦ SHA1 Hash ◦ File type ◦ Reporter ◦ Country Code

PARAMETER	DESCRIPTION
	◦ MD5 Hash ◦ Last Seen ◦ First Seen ◦ Malware sample's file name ◦ File size in bytes ◦ MIME Type ◦ Related Malware ◦ Tags ◦ Delivery Method ◦ Reference ◦ YARA Rule Name ◦ Related C2 Servers ◦ Related TTP
Objects Per Run	The max number of objects per run to send to this action. The max value for this parameter is 50,000.

< abuse_ch MalwareBazaar



Uninstall

Additional Information

Integration Type: Action

Version: 1.0.0

Action ID: 6

Accepted Data Types:

Configuration

Ingest MalwareBazaar Tags As:

Tags

Ingest tags as tags, attributes, or both

Context Filter

Select which pieces of context you want to bring into ThreatQ

- ☐ Fuzzy Hash
- ☒ SHA-256 Hash
- ☐ SHA3-384 Hash
- ☐ SHA1 Hash
- ☐ MD5 Hash
- ☒ Last Seen
- ☒ First Seen
- ☒ Malware sample's file name
- ☐ File size in bytes
- ☐ MIME Type
- ☐ File type
- ☐ Reporter
- ☐ Country Code
- ☐ Related Malware
- ☐ Tags
- ☒ Delivery Method
- ☐ Reference
- ☐ YARA Rule Name
- ☒ Related C2 Servers
- ☐ Related TTP

Objects Per Run

10000

The max number of objects to send to this action, per run.

Save

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

Action Functions

The action provides the following functions

FUNCTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
abuse_ch MalwareBazaar	Enriches IOCs using MalwareBazaar's API	Indicators	MD5, SHA-1, SHA-256

abuse_ch MalwareBazaar

The abuse_ch MalwareBazaar function enriches MD5, SHA-1 and SHA-256 IOCs using MalwareBazaar's API.

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

Sample Body:

Form URL-Encoded

query=get_info&hash=9cee5522a7ca2bfca7cd3d9daba23e9a30deb6205f56c12045839075f7627297

Sample Response:

```
{
  "query_status": "ok",
  "data": [
    {
      "sha256_hash": "9cee5522a7ca2bfca7cd3d9daba23e9a30deb6205f56c12045839075f7627297",
      "sha3_384_hash": "0896178675b3349f6890ac1a270c185ca8d2ced319768f8922e9d6b967239704fa6579d61251f3b00b01d4baaf0e9d74",
      "sha1_hash": "d1dfe82775c1d698dd7861d6dfa1352a74551d35",
      "md5_hash": "f87a2e1c3d148a67eaeb696b1ab69133",
      "first_seen": "2020-11-25 13:05:56",
      "last_seen": "2021-05-01 01:07:44",
      "file_name": "9cee5522a7ca2bfca7cd3d9daba23e9a30deb6205f56c12045839075f7627297",
      "file_size": 17408,
      "file_type_mime": "application\\x-dosexec",
      "file_type": "exe",
      "reporter": "JAMESWT_MHT",
      "origin_country": "IT",
      "anonymous": 0,
      "signature": "DarkSide",
      "imphash": "6ed4f5f04d62b18d96b26d6db7c18840",
      "tlsh": "BB72C049536D3522D20B3D36CDA29C25B086D661CB9A6DCF384EDA9DBC71D84CF7A700",
      "telfhash": null,
      "ssdeep": "384:SGyUrEk\\yEoQE+yckIYN\\pBa3AWK3T2oTboHb1KR\\:l4klFypIYFpB\\x9ngb",
      "dhash_icon": null,
      "comment": null,
      "tags": [
        "DarkSide",
        "Ransomware"
      ],
      "code_sign": null,
      "delivery_method": null,
      "intelligence": {
        "clamav": null,
        "downloads": "232",
        "uploads": "2",
        "mail": null
      },
      "file_information": null,
      "ole_information": [],
      "yara_rules": [
```

```
{
  "rule_name": "RANSOM_darkside",
  "author": "Marc Rivero | McAfee ATR Team",
  "description": "Rule to detect packed and unpacked samples of DarkSide",
  "reference": null
},
{
  "rule_name": "suspicious_packer_section",
  "author": "@j0sm1",
  "description": "The packer\\protector section names\\keywords",
  "reference": "http:\\\\www.hexacorn.com\\blog\\2012\\10\\14\\random-stats-
from-1-2m-samples-pe-section-names\\"
}
],
"vendor_intel": {
  "CERT-PL_MWDB": {
    "detection": null,
    "link": "https:\\\\mwdb.cert.pl\\sample\\
9cee5522a7ca2bfca7cd3d9daba23e9a30deb6205f56c12045839075f7627297\\"
  },
  "YOROI_YOMI": {
    "detection": "XPACK",
    "score": "1.00"
  },
  "vxCube": {
    "verdict": "malware2",
    "maliciousness": "100",
    "behaviour": [
      {
        "threat_level": "neutral",
        "rule": "Sending a UDP request"
      },
      {
        "threat_level": "neutral",
        "rule": "Creating a file"
      },
      {
        "threat_level": "neutral",
        "rule": "Launching a process"
      },
      {
        "threat_level": "neutral",
        "rule": "Using the Windows Management Instrumentation requests"
      },
      {
        "threat_level": "neutral",
        "rule": "Launching a service"
      },
      {
        "threat_level": "neutral",
        "rule": "Adding an access-denied ACE"
      },
      {
        "threat_level": "neutral",
        "rule": "Reading critical registry keys"
      },
      {
        "threat_level": "neutral",
        "rule": "Changing a file"
      }
    ]
  }
}
```

```
        "threat_level": "neutral",
        "rule": "Delayed writing of the file"
    },
    {
        "threat_level": "malicious",
        "rule": "Forced shutdown of a browser"
    },
    {
        "threat_level": "malicious",
        "rule": "Encrypting user's files"
    },
    {
        "threat_level": "suspicious",
        "rule": "Stealing user critical data"
    },
    {
        "threat_level": "suspicious",
        "rule": "Creating a file in the mass storage device "
    }
]
},
"InQuest": {
    "verdict": "MALICIOUS",
    "url": null,
    "details": [
        {
            "category": "info",
            "title": "Windows PE Executable",
            "description": "Found a Windows Portable Executable (PE) binary. Depending
on context, the presence of a binary is suspicious or malicious."
        }
    ]
},
"Triage": {
    "malware_family": "darkside",
    "score": "10",
    "link": "https://\\trیا.ge\\reports\\201125-ed59r1jx9j\\",
    "tags": [
        "family:darkside",
        "ransomware",
        "spyware",
        "upx"
    ],
    "signatures": [
        {
            "signature": "DarkSide",
            "score": "10"
        },
        {
            "signature": "Modifies extensions of user files",
            "score": "8"
        },
        {
            "signature": "Reads user\\profile data of web browsers",
            "score": "7"
        },
        {
            "signature": "Suspicious behavior: EnumeratesProcesses",
            "score": null
        }
    ]
}
```

```
        "signature": "Suspicious use of AdjustPrivilegeToken",
        "score": null
    },
    {
        "signature": "Suspicious use of WriteProcessMemory",
        "score": null
    }
],
"malware_config": []
},
"ReversingLabs": {
    "threat_name": "Win32.Ransomware.DarkSide",
    "status": "MALICIOUS",
    "first_seen": "2020-08-08 20:29:27",
    "scanner_count": "29",
    "scanner_match": "28",
    "scanner_percent": "96.55"
},
"Spamhaus_HBL": [
    {
        "detection": "suspicious",
        "link": "https://www.spamhaus.org/hbl/"
    }
],
"UnpacMe": [
    {
        "sha256_hash":
"9cee5522a7ca2bfca7cd3d9daba23e9a30deb6205f56c12045839075f7627297",
        "md5_hash": "f87a2e1c3d148a67eae6b696b1ab69133",
        "sha1_hash": "d1dfe82775c1d698dd7861d6dfa1352a74551d35",
        "detections": [],
        "link": "https://www.unpac.me/results/
bbccb33d-6054-4c50-970f-7e24d606e0e1/"
    },
    {
        "sha256_hash":
"1667e1635736f2b2ba9727457f995a67201ddcd818496c9296713ffa18e17a43",
        "md5_hash": "1a700f845849e573ab3148daef1a3b0b",
        "sha1_hash": "c91ff86a88038b00d9190ebb01e6f8c94b0c83e0",
        "detections": [],
        "link": "https://www.unpac.me/results/
bbccb33d-6054-4c50-970f-7e24d606e0e1/"
    }
],
"VMRay": {
    "verdict": "malicious",
    "malware_family": "",
    "report_link": "https://www.vmrays.com/analyses/9cee5522a7ca/report/
overview.html"
},
"comments": null
}
]
```

ThreatQuotient provides the following default mapping for this function:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	NORMALIZATION	PUBLISHED DATE	EXAMPLES	
.tags	Indicator.Tag	N/A	N/A	N/A	Emotet	If enabled and 'tag' selected
.tags	Indicator.Attribute	Tag	N/A	.first_seen	Emotet	If enabled and 'attribute' selected
.first_seen	Indicator.Attribute	First Seen	N/A	.first_seen	2021-01-22 15:23:01	If enabled
.last_seen	Indicator.Attribute	Last Seen	N/A	.first_seen	2021-05-01 01:07:44	If enabled
.file_size	Indicator.Attribute	File Size (bytes)	N/A	.first_seen	177664	If enabled
.file_type_mime	Indicator.Attribute	MIME Type	N/A	.first_seen	application\msword	If enabled
.file_type	Indicator.Attribute	File Type	N/A	.first_seen	docx	If enabled
.reporter	Indicator.Attribute	Reporter	N/A	.first_seen	Cryptolaemus1	If enabled
.origin_country	Indicator.Attribute	Origin Country	N/A	.first_seen	FR	If enabled
.delivery_method	Indicator.Attribute	Delivery Method	N/A	.first_seen	Web Download	If enabled
.file_information	Indicator.Attribute	Reference	N/A	.first_seen	https://urlhaus.abuse.ch/url/972626/	If enabled
.yara_rules	Indicator.Attribute	Rule Name	N/A	.first_seen	SUSP_X0Red_URL_in_EXE	If enabled
.c2	Indicator.Attribute	Port	Split by :	.first_seen	N/A	If enabled, when context is 'c2'
.md5_hash	Related Indicator.Value	MD5	N/A	.first_seen	f87a2e1c3d148a67e aeb696b1ab69133	If enabled
.sha1_hash	Related Indicator.Value	SHA-1	N/A	.first_seen	d1dfe82775c1d698d d7861d6dfa1352a74 551d35	If enabled
.sha256_hash	Related Indicator.Value	SHA-256	N/A	.first_seen	9cee5522a7ca2bfc a7cd3d9daba23e9a3 0deb6205f56c120458 39075f7627297	If enabled
.sha3_384_hash	Related Indicator.Value	SHA-384	N/A	.first_seen	0896178675b3349f 6890ac1a270c185ca8 d2ced319768f8922e9d 6b967239704fa6579d6 1251f3b00b01d4baaf0	If enabled

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	NORMALIZATION	PUBLISHED DATE	EXAMPLES	
					e9d74	
.file_name	Related Indicator.Value	Filename	N/A	.first_seen	emotet_e2_9e2c5e3ffc4db3771082aa0ed3a6c30821f0545c540f6541d087d1e65e733cde_2021	If enabled
.c2	Related Indicator.Value	URL	N/A	.first_seen	N/A	If enabled, when context is 'dropper'
.c2	Related Indicator.Value	Ip Address	Split by :	.first_seen	N/A	If enabled, when context is 'c2'
.triage_ttp	Related TTP.Value	N/A	N/A	.first_seen	Process spawned unexpected child process	If enabled
.signature	Related Malware.Value	N/A	N/A	.first_seen	Heodo	If enabled
.ssdeep	Related Indicator.Value	Fuzzy Hash	N/A	.first_seen	384:SGyUrEk\yEoQE+ycKIYN\pBa3AWK3T2oTboHb1KR\:/:14k1FypIYFpB\ /x9ngb	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 Feed runtime may vary based on system resources and load.

METRIC	RESULT
Run Time	2 minute
Indicators	150
Indicator Attributes	1,456
Indicator Tags	25
Malware	76
TTP	35

Use Case Example

1. A user submits a data collection using the abuse.ch MalwareBazaar action to the abuse.ch MalwareBazaar with a data collection containing 350 system objects (100 MD5, 75 SHA-1, 75 SHA-256).
2. The abuse.ch MalwareBazaar queries the submitted data.
3. The action returns the submitted data collection enriched with the following:
 - 99 Indicators
 - 30 Indicator Attributes
 - 20 Indicator Tags
 - 3 Malware
 - 5 TTP

Change Log

- Version 1.0.0
 - Initial release