

ThreatQuotient



MISP Import Feeds Guide

Version 2.1.0

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Versioning

- Current integration version: 2.1.0
- Supported on ThreatQ versions >= 4.31.0

Introduction

The MISP threat sharing platform is free and open source software that enables sharing of threat intelligence represented in the MISP data model format. The MISP Import integration ingests published MISP events from a user-provided, self-hosted MISP server instance via its POST {{user_fields.domain_name}}/events/restSearch endpoint (note: {{user_fields.domain_name}} must contain the protocol, like https://).

This integration fetches MISP events differently based on the feed run type:

- Scheduled runs will retrieve all MISP events that were published within the last day.
- Manual historic runs will retrieve MISP events published within the provided time constraints.

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 |
|-------------------------------|--|
| MISP Domain Name | The MISP server instance domain name (or IP address) preceded by the protocol it uses, such as <code>https://my-misp-server.org</code> . The provided domain name or IP address must be reachable from the ThreatQ instance. |
| Authorization | The MISP account API key. |
| Save Intrusion Sets as | The ThreatQ MITRE ATT&CK feeds can be configured to ingest Threat Actor data as Intrusion Sets or Adversaries. If the user intends to ingest MISP events that are related to any MITRE MISP galaxies, please use the same configuration as the ThreatQ MITRE ATT&CK feeds. By default, Threat Actors are ingested as Adversaries . |

Disable Proxies If True, specifies that this feed should not honor any proxies setup in ThreatQuotient.

The default setting is **False**.

| | |
|--------------------------------|--|
| Enable SSL Verification | If True, specifies that this feed should verify SSL connections with the provider. |
|--------------------------------|--|

The default setting is **True**.

5. Review the any additional feed settings and click on **Save**.
6. Click on the toggle switch, located above the *Additional Information* section, to enable it.

ThreatQ Mapping

```
POST {{user_fields.domain_name}}/events/restSearch
```

JSON response sample:

```
{
  "response": [
    {
      "Event": {
        "id": "1",
        "orgc_id": "1",
        "org_id": "1",
        "date": "2018-12-14",
        "threat_level_id": "2",
        "info": "EVENT1",
        "published": false,
        "uuid": "5c142f52-5ad0-4c04-8069-03c8ac107221",
        "attribute_count": "4",
        "analysis": "1",
        "timestamp": "1545256410",
        "distribution": "1",
        "proposal_email_lock": false,
        "locked": false,
        "publish_timestamp": "1544827221",
        "sharing_group_id": "0",
        "disable_correlation": false,
        "extends_uuid": "",
        "event_creator_email": "admin@admin.test",
        "Org": {
          "id": "1",
          "name": "ORGNAME",
          "uuid": "5bd7a775-1d18-4fd7-b2f4-08b52dc69e54"
        },
        "Orgc": {
          "id": "1",
          "name": "ORGNAME",
          "uuid": "5bd7a775-1d18-4fd7-b2f4-08b52dc69e54"
        },
        "Attribute": [
          {
            "id": "1",
            "type": "link",
            "category": "Antivirus detection",
            "to_ids": false,
            "uuid": "5c17ccfe-3c1c-4f47-9a9f-38f6ac107221",
            "event_id": "1",
            "distribution": "3",
            "timestamp": "1545063678",
            "comment": "",
            "sharing_group_id": "0",
            "deleted": false,
            "disable_correlation": false,
            "object_id": "0",
            "object_relation": null,
            "value": "https://www.virustotal.com/#/file/17a0d59255046ed2cff22cd5980fcc86c69e059839fec07d705051ac2e178693/details",
            "value_type": "link"
          }
        ]
      }
    }
  ]
}
```

```
        "Galaxy": [],
        "ShadowAttribute": []
    },
    {
        "id": "1259319",
        "type": "filename|md5",
        "category": "Payload installation",
        "to_ids": false,
        "uuid": "5fffc9a4f-7ef0-4077-b278-30a5ac107221",
        "event_id": "104",
        "distribution": "5",
        "timestamp": "1610390095",
        "comment": "",
        "sharing_group_id": "0",
        "deleted": false,
        "disable_correlation": false,
        "object_id": "0",
        "object_relation": null,
        "value": "bunnyhop.exe|31f3720bef6bb3e2953d9ea2238e0580",
        "Galaxy": [],
        "ShadowAttribute": []
},
{
    "id": "477506",
    "type": "attachment",
    "category": "Payload delivery",
    "to_ids": false,
    "uuid": "5dde5554-6320-4647-baa8-26d3ac107221",
    "event_id": "75",
    "distribution": "5",
    "timestamp": "1574851924",
    "comment": "sample.pdf",
    "sharing_group_id": "0",
    "deleted": false,
    "disable_correlation": false,
    "object_id": "0",
    "object_relation": null,
    "value": "sample.pdf",
    "Galaxy": [],
    "data": "JVBERi0xLjMNCiXi48TDQoNCjEgMCBvYmo8DQovVHlwZS..."
},
{
    "id": "1",
    "type": "comment",
    "category": "Payload delivery",
    "to_ids": false,
    "uuid": "5e81aec6-5af0-498c-9826-7a63ac107122",
    "event_id": "1",
    "distribution": "5",
    "timestamp": "1585562438",
    "comment": "not applicable",
    "sharing_group_id": "0",
    "deleted": false,
    "disable_correlation": false,
    "object_id": "0",
    "object_relation": null,
    "first_seen": null,
    "last_seen": null,
    "value": "sample comment",
    "Galaxy": [],
    "ShadowAttribute": []
},
{
```

```
        "id": "3",
        "type": "snort",
        "category": "Network activity",
        "to_ids": false,
        "uuid": "5e81c3d7-d310-4344-bfe9-7805ac107122",
        "event_id": "1",
        "distribution": "5",
        "timestamp": "1585562583",
        "comment": "",
        "sharing_group_id": "0",
        "deleted": false,
        "disable_correlation": false,
        "object_id": "0",
        "object_relation": null,
        "first_seen": null,
        "last_seen": null,
        "value": "alert tcp $HOME_NET any -> any 3306 (msg: \\\"mysql general_log write file\\\"; ...)"
    },
],
"Object": [
{
    "id": "1",
    "name": "file",
    "meta-category": "file",
    "description": "File object describing a file with meta-information",
    "template_uuid": "688c46fb-5edb-40a3-8273-1af7923e2215",
    "template_version": "15",
    "event_id": "1",
    "uuid": "5c1abdda-4cb8-427c-97d5-71c9ac107221",
    "timestamp": "1545256410",
    "distribution": "5",
    "sharing_group_id": "0",
    "comment": "dnsrslvr.dll",
    "deleted": false,
    "ObjectReference": [],
    "Attribute": [
        {
            "id": "26131",
            "type": "md5",
            "category": "Payload delivery",
            "to_ids": true,
            "uuid": "5c1abdda-0960-4530-a4e4-71c9ac107221",
            "event_id": "1",
            "distribution": "5",
            "timestamp": "1545256410",
            "comment": "",
            "sharing_group_id": "0",
            "deleted": false,
            "disable_correlation": false,
            "object_id": "1",
            "object_relation": "md5",
            "value": "44d88612fea8a8f36de82e1278abb02f"
        }
    ]
},
{
    "id": "1",
    "name": "yara",
    "meta-category": "misc",
    "description": "An object describing a YARA rule (or a YARA rule name) along with its version.",
    "template_uuid": "b5acf82e-ecca-4868-82fe-9dbdf4d808c3",
    "template_version": "4",
    "event_id": "1",
}
```

```
"uuid": "5e81cab1-5f2c-4350-8ed0-7b28ac107122",
"timestamp": "1585564479",
"distribution": "5",
"sharing_group_id": "0",
"comment": "",
"deleted": false,
"first_seen": null,
"last_seen": null,
"ObjectReference": [],
"Attribute": [
{
    "id": "4",
    "type": "yara",
    "category": "Payload installation",
    "to_ids": true,
    "uuid": "5e81cab1-58d4-4155-a691-7b28ac107122",
    "event_id": "1",
    "distribution": "5",
    "timestamp": "1585564470",
    "comment": "",
    "sharing_group_id": "0",
    "deleted": false,
    "disable_correlation": false,
    "object_id": "1",
    "object_relation": "yara",
    "first_seen": null,
    "last_seen": null,
    "value": "rule Contains_VBA_macro_code\r\n{\r\n\tmeta:\r\n\t\tauthor = ..."
}
],
"Galaxy": [
{
    "id": "3",
    "uuid": "698774c7-8022-42c4-917f-8d6e4f06ada3",
    "name": "Threat Actor",
    "type": "threat-actor",
    "description": "Threat actors are characteristics of malicious actors (or adversaries) representing a cyber attack threat including presumed intent and historically observed behaviour.",
    "version": "3",
    "icon": "user-secret",
    "namespace": "misp",
    "GalaxyCluster": [
{
        "id": "5401",
        "collection_uuid": "7cdff317-a673-4474-84ec-4f1754947823",
        "type": "threat-actor",
        "value": "Keyhole Panda",
        "tag_name": "misp-galaxy: threat-actor=\"Keyhole Panda\"",
        "description": "no description",
        "galaxy_id": "3",
        "source": "MISP Project",
        "authors": [
            "Alexandre Dulaunoy",
            "Florian Roth",
            "Thomas Schreck",
            "Timo Steffens",
            "Various"
        ],
        "version": "75",
        "uuid": "ad022538-b457-4839-8ebd-3fdcc807a820",
        "tag_id": "77",
        "order": 1
}
]
}
```

```
"meta": {
    "country": [
        "CN"
    ],
    "synonyms": [
        "temp.bottle"
    ]
}
}
]
},
{
    "id": "4",
    "uuid": "1fb6d5b4-1708-11e8-9836-8bbc8ce6866e",
    "name": "Pre Attack - Intrusion Set",
    "type": "mitre-pre-attack-intrusion-set",
    "description": "Name of ATT&CK Group",
    "version": "4",
    "icon": "user-secret",
    "namespace": "mitre-attack",
    "GalaxyCluster": [
        {
            "id": "5614",
            "collection_uuid": "1fdc8fa2-1708-11e8-99a3-67b4efc13c4f",
            "type": "mitre-pre-attack-intrusion-set",
            "value": "APT16 - G0023",
            "tag_name": "misp-galaxy:mitre-pre-attack-intrusion-set=\"APT16 - G0023\"",
            "description": "APT16 is a China-based threat group that has launched spearphishing campaigns targeting Japanese and Taiwanese organizations. (Citation: FireEye EPS Awakens Part 2)",
            "galaxy_id": "4",
            "source": "https://github.com/mitre/cti",
            "authors": [
                "MITRE"
            ],
            "version": "6",
            "uuid": "d6e88e18-81e8-4709-82d8-973095da1e70",
            "tag_id": "97",
            "meta": {
                "external_id": [
                    "G0023"
                ],
                "refs": [
                    "https://attack.mitre.org/wiki/Group/G0023",
                    "https://www.fireeye.com/blog/threat-research/2015/12/the-eps-awakens-part-two.html"
                ],
                "synonyms": [
                    "APT16"
                ]
            }
        }
    ]
},
"Tag": [
    {
        "id": "11",
        "name": "tlp:red",
        "colour": "#CC0033",
        "exportable": true,
        "user_id": "0",
        "hide_tag": false,
        "numerical_value": null
    }
]
```

```
        }
    ]
}
]
}
```

ThreatQ provides the following default mapping:

| FEED DATA PATH | THREATQ ENTITY | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES | NOTES |
|--|---|--------------------------------------|-------------------------------------|--|--|
| .response[].Event.info | Event.Title / Event.Description | MISP | .response[].Event.publish_timestamp | EVENT1 | N/A |
| .response[].Event.date | Event.Happened At | N/A | N/A | 2018-12-14T00:00:00 | N/A |
| .response[].Event.Orgc.name | Event.Attribute | Source Organization | .response[].Event.publish_timestamp | ORGNAME | N/A |
| .response[].Event.Org.name | Event.Attribute | Member Organization | .response[].Event.publish_timestamp | ORGNAME | N/A |
| .response[].Event.id | Event.Attribute | ID | .response[].Event.publish_timestamp | 1 | N/A |
| .response[].Event.uuid | Event.Attribute | UUID | .response[].Event.publish_timestamp | 5c142f52-5ad0-4c04-8069-03c8ac107221 | N/A |
| .response[].Event.threat_level_id | Event.Attribute | MISP Threat Level | .response[].Event.publish_timestamp | Medium | Maps an integer ID to a string based on the Threat Level Mapping below. If no match is found, this attribute is not ingested. |
| .response[].Event.analysis | Event.Attribute | Analysis | .response[].Event.publish_timestamp | Ongoing | Maps an integer ID to a string based on the Analysis Mapping below. If no match is found, this attribute is not ingested. |
| .response[].Event.distribution | Event.Attribute | Distribution | .response[].Event.publish_timestamp | This community only | Maps an integer ID to a string based on the Distribution Mapping below. If no match is found, this attribute is not ingested. |
| .response[].Event.sharing_group_id | Event.Attribute | Sharing Group | .response[].Event.publish_timestamp | 0 | N/A |
| .response[].Event.disable_correlation | Event.Attribute | Disable Correlation | .response[].Event.publish_timestamp | False | Title-cased |
| .response[].Event.id | Event.Attribute | External MISP | .response[].Event.publish_timestamp | {{user_fields.domain_name}} /events/view/{{id}} | Value created from the template: {{user_fields.domain_name}} /events/view/{{id}} |
| .response[].Event.Object[].Attribute[].value | Event.Attribute | YARA Rule Name | .response[].Event.publish_timestamp | My YARA Rule | Based on the jq expression: .response[].Event.Object[] select(.name == "yara") .Attribute[] select(.type == "yara-rule-name") .value |
| .response[].Event.Tag[].name | Event.Attribute / Related Indicator.Attribute | Tag | .response[].Event.publish_timestamp | tlp:red | N/A |
| .response[].Event.Tag[].name | Event.TLP / Related Indicator.TLP | N/A | N/A | RED | TLP value is extracted from MISP tags whose name starts with either tlp: or iep:traffic-light-protocol=. |
| .response[].Event.Attribute[].value | Event.Attribute | Category | .response[].Event.publish_timestamp | https://www.virustotal.com/#/file/17a0d59255046ed2cff22cd5980f | Based on the jq expression: .response[].Event.Attribute[] select(.type == "link") .value |

| FEED DATA PATH | THREATQ ENTITY | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES | NOTES |
|---|-----------------------------|--------------------------------------|---|---|--|
| | | | | cc86c69e0598 39fec07 d705051ac2e 178693/ details | |
| .response[].Event.Attribute[].value | Event.Attribute | Comment | .response[].Event.publish_timestamp | sample comment | Based on the jq expression: <pre>.response[] .Event. Attribute[] select(.type == "comment") .value</pre> |
| | | | | bunnyhop.exe 31f3720 be6bb3e2953 d9ea2238 e0580 (creates two indicators: the Filename bunnyhop.exe and the MD5 31f3720be6b b3e2953 d9ea2238e0580) | MISP composite attributes have a value and type that are pipe-separated (" "); an indicator is created for each element in the split list. Only applicable if .response[].Event.Attribute[].type has a match in the MISP Attribute Type to ThreatQ Indicator Type Mapping below. |
| .response[].Event.Attribute[].category | Related Indicator.Attribute | Category | .response[].Event.Attribute[].timestamp | Payload installation | N/A |
| .response[].Event.Attribute[].to_ids | Related Indicator.Attribute | To IDS | .response[].Event.Attribute[].timestamp | False | Title-cased |
| .response[].Event.Attribute[].distribution | Related Indicator.Attribute | Distribution | .response[].Event.Attribute[].timestamp | All communities | Maps an integer ID to a string based on the Attribute Distribution Mapping below. If no match is found, this attribute is not ingested. |
| .response[].Event.Attribute[].timestamp | Related Indicator.Attribute | Timestamp | .response[].Event.Attribute[].timestamp | 2019-04-08 09: 27:58-00:00 | N/A |
| .response[].Event.Attribute[].comment | Related Indicator.Attribute | Comment | .response[].Event.Attribute[].timestamp | sample comment | This attribute is created only if the comment does not contain the substring "Pertinence". |
| .response[].Event.Attribute[].comment | Related Indicator.Attribute | Pertinence | .response[].Event.Attribute[].timestamp | sample comment | This attribute is created only if "Pertinence" appears in the comment value. The attribute's value is the text after "Pertinence:". |
| .response[].Event.Attribute[].sharing_group_id | Related Indicator.Attribute | Sharing Group | .response[].Event.Attribute[].timestamp | 0 | N/A |
| .response[].Event.Attribute[].deleted | Related Indicator.Attribute | Deleted | .response[].Event.Attribute[].timestamp | False | Title-cased |
| .response[].Event.Attribute[].disable_correlation | Related Indicator.Attribute | Disable Correlation | .response[].Event.Attribute[].timestamp | False | Title-cased |
| .response[].Event.Attribute[].object_relation | Related Indicator.Attribute | Object Relation | .response[].Event.Attribute[].timestamp | N/A | Title-cased |
| .response[].Event.Attribute[].Tag[].name | Related Indicator.Attribute | Tag | .response[].Event.Attribute[].timestamp | N/A | N/A |
| .response[].Event.Attribute[].type | Related Indicator.Attribute | IP Type | .response[].Event.Attribute[].timestamp | ip-dst | The attribute value is "ip-dst" if "ip-dst" is in the type value. Else, the attribute value is "ip-src" if "ip-src" is in the type value. |

| FEED DATA PATH | THREATQ ENTITY | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES | NOTES |
|---|--|--|---|--|---|
| .response[].Event.Object[].Attribute[].value | Related Indicator.Value | The indicator's type is derived from .response[].Event.Object[].Attribute[].type (see MISP Attribute Type to ThreatQ Indicator Type Mapping below) | N/A | 44d88612fea 8a8f3 6de82e1278a bb02f | If neither of the aforementioned cases are true, this attribute is not created. |
| .response[].Event.Object[].Attribute[].category | Related Indicator.Attribute | Category | N/A | Payload delivery | N/A |
| .response[].Event.Object[].Attribute[].to_ids | Related Indicator.Attribute | To IDS | N/A | False | Title-cased |
| .response[].Event.Object[].Attribute[].distribution | Related Indicator.Attribute | Distribution | N/A | All communities | Maps an integer ID to a string based on the Attribute Distribution Mapping below. If no match is found, this attribute is not ingested. |
| .response[].Event.Object[].Attribute[].sharing_group_id | Related Indicator.Attribute | Sharing Group | N/A | 0 | N/A |
| .response[].Event.Object[].Attribute[].comment | Related Indicator.Attribute | Comment | N/A | sample comment | N/A |
| .response[].Event.Object[].Attribute[].type | Related Indicator.Attribute | IP Type | N/A | ip-dst | The attribute value is "ip-dst" if "ip-dst" is in the type value. Else, the attribute value is "ip-src" if "ip-src" is in the type value. If neither of the aforementioned cases are true, this attribute is not created. |
| .response[].Event.Attribute[].value | Related Attachment.Name / Related Attachment.Title | MISP Attachment | .response[].Event.Attribute[].timestamp | sample.pdf | Based on the jq expression: .response[].Event.Attribute[] select(.type == "attachment") .value |
| .response[].Event.Attribute[].data | Related Attachment.Content | N/A | N/A | JVBERi0xLjMN CiXi4 8TDQoNCjEg MCBv Ymo8DQovV HlwZS... | N/A |
| .response[].Event.Attribute[].id | Related Attachment.Attribute | ID | .response[].Event.Attribute[].timestamp | 477506 | N/A |
| .response[].Event.Attribute[].category | Related Attachment.Attribute | Category | .response[].Event.Attribute[].timestamp | Payload delivery | N/A |
| .response[].Event.Attribute[].to_ids | Related Attachment.Attribute | To IDS | .response[].Event.Attribute[].timestamp | True | Title-cased |
| .response[].Event.Attribute[].uuid | Related Attachment.Attribute | UUID | .response[].Event.Attribute[].timestamp | 5dde5554-6320 -464 7-baa8-26d3ac1 07221 | N/A |

| FEED DATA PATH | THREATQ ENTITY | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES | NOTES |
|--|------------------------------|--------------------------------------|--|---|--|
| .response[].Event.Attribute[0].distribution | Related Attachment.Attribute | Distribution | .response[].Event.Attribute[0].timestamp | All communities | Maps an integer ID to a string based on the Attribute Distribution Mapping below. If no match is found, this attribute is not ingested. |
| .response[].Event.Attribute[0].comment | Related Attachment.Attribute | Comment | .response[].Event.Attribute[0].timestamp | sample comment | N/A |
| .response[].Event.Attribute[0].sharing_group_id | Related Attachment.Attribute | Sharing Group | .response[].Event.Attribute[0].timestamp | 0 | N/A |
| .response[].Event.Attribute[0].deleted | Related Attachment.Attribute | Deleted | .response[].Event.Attribute[0].timestamp | False | Title-cased |
| .response[].Event.Attribute[0].disable_correlation | Related Attachment.Attribute | Disable Correlation | .response[].Event.Attribute[0].timestamp | False | Title-cased |
| .response[].Event.Attribute[0].value | Related Signature.Value | YARA | N/A | import "pe"\n\nrule OceanLotus_Steganography_Loader {\n\n\tmeta:... | Based on the jq expression: .response[] .Event.Attribute[] select(.type == "yara") .value. Unicode characters "LEFT DOUBLE QUOTATION MARK" (\u201c) and "RIGHT DOUBLE QUOTATION MARK" (\u201d) are normalized to ASCII double quotations ("). Unicode character "HYPHEN" (\u2010) is normalized to the ASCII hyphen (-). |
| .response[].Event.Attribute[0].value | Related Signature.Name | N/A | N/A | OceanLotus_Steganography_Loader | Rule name extracted from the YARA parser. |
| .response[].Event.Object[0].Attribute[0].value | Related Signature.Value | YARA | N/A | rule Contains_VBA_macro_code {\n\n\tmeta:... | Based on the jq expression: .response[] .Event.Object[] select(.name == "yara") .Attribute[] select(.type == "yara") .value. Unicode characters "LEFT DOUBLE QUOTATION MARK" (\u201c) and "RIGHT DOUBLE QUOTATION MARK" (\u201d) are normalized to ASCII double quotations ("). Unicode character "HYPHEN" (\u2010) is normalized to the ASCII hyphen (-). |
| .response[].Event.Object[0].Attribute[0].value | Related Signature.Name | N/A | N/A | Contains_VBA_macro_code | Rule name extracted from the YARA parser. |
| .response[].Event.Attribute[0].value | Related Signature.Value | Snort | N/A | alert tcp \$HOME_NET any -> any 3306 (msg: "mysql general_log write file"; ...) | Based on the jq expression: .response[] .Event.Attribute[] select(.type == "snort") .value. Unicode characters "LEFT DOUBLE QUOTATION MARK" (\u201c) and "RIGHT DOUBLE QUOTATION MARK" (\u201d) are normalized to ASCII double quotations ("). Unicode character "HYPHEN" (\u2010) is normalized to the ASCII hyphen (-). |
| .response[].Event.Attribute[0].value | Related Signature.Name | N/A | N/A | mysql general_log write file | Name extracted from Snort msg option if available; else, defaults to "Snort Rule". Leading or trailing whitespace is trimmed. |

| FEED DATA PATH | THREATQ ENTITY | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES | NOTES |
|---|-----------------------------|--------------------------------------|----------------------------|---|---|
| .response[].Event.Object[].Attribute[].value | Related Signature.Value | Snort | N/A | alert tcp \$HOME_NET any -> any 3306 (msg: "mysql general_log write file"; ...) | Based on the jq expression: .response[].Event.Object[] select(.name == "suricata") .Attribute[] select(.type == "snort") .value.unicode characters "LEFT DOUBLE QUOTATION MARK" (\u201c) and "RIGHT DOUBLE QUOTATION MARK" (\u201d) are normalized to ASCII double quotations (""). Unicode character "HYPHEN" (\u2010) is normalized to the ASCII hyphen (-). |
| .response[].Event.Object[].Attribute[].value | Related Signature.Name | N/A | N/A | mysql general_log write file | Name extracted from Snort msg option if available; else, defaults to "Snort Rule". Leading or trailing whitespace is trimmed. |
| .response[].Event.Galaxy[].GalaxyCluster[].value / .response[].Event.Galaxy[].GalaxyCluster[].meta.synonyms[] | Related Adversary.Name | N/A | Keyhole Panda, temp.bottle | N/A | Based on the jq expression: .response[].Event.Galaxy[] select(.type == "threat-actor") (.GalaxyCluster[].value, .GalaxyCluster[]).meta.synonyms[] |
| .response[].Event.Galaxy[].GalaxyCluster[].id | Related Adversary.Attribute | ID | N/A | 5401 | N/A |
| .response[].Event.Galaxy[].GalaxyCluster[].type | Related Adversary.Attribute | Type | N/A | threat-actor | N/A |
| .response[].Event.Galaxy[].GalaxyCluster[].description | Related Adversary.Attribute | Description | N/A | no description | N/A |
| .response[].Event.Galaxy[].GalaxyCluster[].galaxy_id | Related Adversary.Attribute | Galaxy ID | N/A | 3 | N/A |
| .response[].Event.Galaxy[].GalaxyCluster[].version | Related Adversary.Attribute | Version | N/A | 75 | N/A |
| .response[].Event.Galaxy[].GalaxyCluster[].tag_id | Related Adversary.Attribute | Tag ID | N/A | 77 | N/A |
| .response[].Event.Galaxy[].GalaxyCluster[].meta."cfr-suspected-state-sponsor"[] | Related Adversary.Attribute | Suspected State Sponsor | N/A | China | N/A |
| .response[].Event.Galaxy[].GalaxyCluster[].meta."cfr-suspected-victims"[] | Related Adversary.Attribute | Suspected Victims | N/A | Japan | N/A |

| FEED DATA PATH | THREATQ ENTITY | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES | NOTES |
|--|---|--------------------------------------|----------------|--|--|
| .response[].Event. Galaxy[]. GalaxyCluster[]. meta."cfr-target-category"[] | Related Adversary.Attribute | Target Category | N/A | Private sector | N/A |
| .response[].Event. Galaxy[]. GalaxyCluster[]. meta."cfr-type-of-incident"[] | Related Adversary.Attribute | Type of Incident | N/A | Espionage | N/A |
| .response[].Event. Galaxy[]. GalaxyCluster[]. meta.country[] | Related Adversary.Attribute | Country | N/A | CN | N/A |
| .response[].Event. Galaxy[]. GalaxyCluster[]. meta.refs[] | Related Adversary.Attribute | References | N/A | http://intelreport.mandiant.com/Mandiant_APT1_Report.pdf | N/A |
| .response[].Event. Galaxy[]. GalaxyCluster[]. .value | Related Adversary.Name / Related Attack Pattern.Value / Related Course of Action.Value / Related Intrusion Set.Value / Related Malware.Value / Related Tool.Value | N/A | N/A | N/A | Attempts to map .response[].Event.Galaxy[].GalaxyCluster[].type to a ThreatQ Object Type based on the MISP Galaxy Cluster Type to ThreatQ Object Type Mapping below. |

Threat Level Mapping

| MISP THREAT LEVEL ID | THREATQ ATTRIBUTE VALUE |
|----------------------|-------------------------|
| 1 | High |
| 2 | Medium |
| 3 | Low |
| 4 | Undefined |

Distribution Mapping

| MISP DISTRIBUTION ID | THREATQ ATTRIBUTE VALUE |
|----------------------|-------------------------|
| 0 | Your organization only |
| 1 | This community only |
| 2 | Connected communities |
| 3 | All communities |
| 4 | Sharing Group |

Attribute Distribution Mapping

| MISP ATTRIBUTE DISTRIBUTION ID | THREATQ ATTRIBUTE VALUE |
|--------------------------------|-------------------------|
| 0 | Your organization only |
| 1 | This community only |
| 2 | Connected communities |
| 3 | All communities |
| 4 | Sharing Group |
| 5 | Inherit event |

Analysis Mapping

| MISP ANALYSIS ID | THREATQ ATTRIBUTE VALUE |
|------------------|-------------------------|
| 0 | Initial |
| 1 | Ongoing |
| 2 | Completed |

MISP Attribute Type to ThreatQ Indicator Type Mapping

| MISP ATTRIBUTE TYPE | THREATQ INDICATOR TYPE |
|---------------------|------------------------|
| md5 | MD5 |
| sha1 | SHA-1 |
| sha256 | SHA-256 |
| sha384 | SHA-384 |
| sha512 | SHA-512 |
| filename | Filename |
| ip | IP Address |
| ip-src | IP Address |
| ip-dst | IP Address |
| hostname | FQDN |
| domain | FQDN |
| email-subject | Email Subject |
| email-attachment | Email Attachment |
| email-src | Email Address |

| MISP ATTRIBUTE TYPE | THREATQ INDICATOR TYPE |
|---------------------|------------------------|
| email-x-mailer | X-Mailer |
| ssdeep | Fuzzy Hash |
| regkey | Registry Key |
| user-agent | User-Agent |
| mutex | Mutex |
| url | URL |
| vulnerability | CVE |
| uri | URL Path |

MISP Galaxy Cluster Type to ThreatQ Object Type Mapping

| MISP GALAXY CLUSTER TYPE | THREATQ OBJECT TYPE |
|--|--|
| mitre-mobile-attack-malware | Malware |
| mitre-enterprise-attack-malware | Malware |
| mitre-malware | Malware |
| mitre-enterprise-attack-tool | Tool |
| mitre-mobile-attack-tool | Tool |
| mitre-tool | Tool |
| mitre-enterprise-attack-course-of-action | Course of Action |
| mitre-mobile-attack-course-of-action | Course of Action |
| mitre-course-of-action | Course of Action |
| mitre-pre-attack-intrusion-set | Intrusion Set / Adversary (depends on value of the "Save Intrusion Sets as" configuration parameter) |
| mitre-intrusion-set | Intrusion Set / Adversary (depends on value of the "Save Intrusion Sets as" configuration parameter) |
| mitre-enterprise-attack-intrusion-set | Intrusion Set / Adversary (depends on value of the "Save Intrusion Sets as" configuration parameter) |

| MISP GALAXY CLUSTER TYPE | THREATQ OBJECT TYPE |
|--|--|
| mitre-mobile-attack-intrusion-set | Intrusion Set / Adversary (depends on value of the "Save Intrusion Sets as" configuration parameter) |
| mitre-enterprise-attack-attack-pattern | Attack Pattern |
| mitre-attack-pattern | Attack Pattern |
| mitre-mobile-attack-attack-pattern | Attack Pattern |
| mitre-pre-attack-attack-pattern | Attack Pattern |

Average Feed Run

MISP server instances vary widely in their setup and the data stored within them. Due to this, average feed run results cannot be confidently provided.

Known Issues / Limitations

- MISP does not verify whether a Snort or YARA rule entered into it is valid. However, the Snort and YARA parsers used by this feed depend on the Snort or YARA rules being well-formed. Please refer to the following noncomprehensive list to aid in making sure that the Snort or YARA rules stored in your MISP server instance are valid so that they can be properly ingested by this feed.
 - Snort:
 - Each rule option must be terminated with a semicolon (;).
 - Offending Snort rule: `alert tcp $HOME_NET any -> $EXTERNAL_NET [80,443,8080,7080,21,50000,995] (msg:"BDS MALICIOUS Emotet Worming Traffic Likely";content:"d29ybSBzdGFydgVk";content:"POST";http_method;classy pe:spreader;sid:7;rev:1)`
 - Correction needed: `rev:1` should be `rev:1;`
 - Rule option values must be valid. For instance, options like `rev`, `sid`, and `gid` must have base 10 integers as their value.
 - Offending Snort option: `sid:#####;`
 - Correction needed: Either remove `sid` if the value is not known or replace the value with a valid ID, like `sid:7;`.
 - The value of the `snort` MISP attribute must contain at least one entire Snort rule. Multiple Snort rules can be provided in a single value if separated by newlines. The value must not contain any excess text, such as a header like `Snort rule::`
 - YARA:
 - The value of the `yara` MISP attribute must contain at least one entire YARA rule. Multiple YARA rules can be provided in a single value if separated by newlines. The value must not contain any excess text, such as a header like `YARA rule::`
 - Make sure that any text that is not valid YARA syntax is either removed or commented out.

Change Log

• Version 2.1.0

- Normalized Unicode double quotations to ASCII double quotations in YARA and Snort signature values
- Normalized Unicode hyphens to ASCII hyphens in YARA and Snort signature values
- Adjusted logic used to derive a YARA rule from MISP Object Attributes. Previously, the logic depended on a MISP YARA Object having both `yara` and `yara-rule-name` attributes, in which it derived a YARA rule based on the template `rule {{yara_rule_name}} {{yara}}` before passing the derived rule through the YARA parser. This was not often seen in the wild; the MISP `yara` attribute usually contains the entire YARA rule. Even the documentation for the MISP YARA Object suggests that these attributes be used in a mutually exclusive manner: use the `yara` attribute if the user has the entire YARA rule to provide to MISP; else, reference a YARA rule using the `yara-rule-name` attribute. As a result, the following changes are in this version of the CDF:
 - Ingest the `yara-rule-name` MISP Object Attribute as a ThreatQ Attribute of the MISP Event object
 - Ingest the `yara` MISP Object Attribute as a ThreatQ YARA Signature
- Parse MISP Suricata Objects in order to ingest its Snort Object Attributes as ThreatQ Snort Signatures.
- Although well-formed Snort rules should contain a `msg` option, which is used to derive the ThreatQ Snort Signature's Name, account for a Snort rule not containing a `msg` option by defaulting the ThreatQ Snort Signature's Name to "Snort Rule".

• Version 2.0.0

- Add configuration parameter "Enable SSL Verification"
- Change behavior of scheduled feed runs such that it only fetches data published within the last day
- Add support for parsing MISP YARA Objects
- Add support for parsing MISP Snort Attributes
- Add additional key-value pairs to the MISP Galaxy Cluster Type to ThreatQ Object Type Mapping
- Change the value of `happened_at` for ingested events by using `date` instead of `timestamp`

• Version 1.0.4

- Ingest MISP Attachment Attributes as ThreatQ Attachments

- **Version 1.0.3**
 - Add configuration parameter "Disable Proxies"
- **Version 1.0.0**
 - Initial release