

ThreatQuotient



MISP Connector Implementation Guide

Version 2.0.0

Wednesday, April 1, 2020

ThreatQuotient

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Last Updated: Wednesday, April 1, 2020

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Versioning

- Current integration version: 2.0.0
- Supported on ThreatQ versions: 4.31.0 or higher

Introduction

The MISP feed retrieves data from a user configurable MISP instance, using the following endpoint: `http://{{user_fields.domain_name}}/events/restSearch`.

- The API uses HTTP api key based authentication.
- Requests are made one page at a time (JSON responses).
- Time constrained events fetching is possible.
- Scheduled runs will retrieve all events with a **published_at** timestamp within the last day.



MITRE feeds need to run prior to running the MISP feed.

Installation

Perform the following steps to install the feed:



The same steps can be used to upgrade the feed to a new version.

1. Log into <https://marketplace.threatq.com/>.
2. Locate and download the **MISP** feed file.

3. Navigate to your ThreatQ instance.
4. Click on the **Settings** icon and select **Incoming feeds**.
5. Click on the **Add New Feed** button.
6. Upload the feed file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the feed 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.

The feed will be added to the **OSINT** tab for Incoming Feeds. 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 feed-related credentials.

To configure the feed:

1. Click on the **Settings** icon and select **Incoming Feeds**.
2. Locate the feed under the **OSINT** tab.
3. Click on the **Feed Settings** link for the feed.
4. Under the **Connection** tab, enter the following configuration parameters:

Parameter	Description
MISP Domain Name	The MISP instance domain.
Authorization	The MISP account API key.

5. Click on **Save Changes**.
6. Click on the toggle switch next to the feed name to enable it.

MISP Trimmed Sample

JSON

```
{
  "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.virus-
total.com\\#\\file\\17a0d59255046ed2cff22cd5980fcc86c69e059839fec07d705051ac2e178693\\details",
    "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\";
established; content:\"|03|\"; depth: 5; content:\"|67 65 6e 65 72 61 6c 5f 6c 6f 67 5f 66 69 6c
65|\"; distance:0; classtype:trojan-activity; sid: 3013005; rev: 1; metadata:created_at 2018_11_
20,by al0ne;)\",
```

```
    }  
  ],  
  "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": "dnssrslvr.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": "{\r\n    meta:\r\n        Author = \"Robert\"\r\n..."}",
    },
    {
        "id": "5",
        "type": "text",
        "category": "Other",
        "to_ids": true,
```

```
        "uuid":"5e81cab1-13d4-452b-9752-7b28ac107122",
        "event_id":"1",
        "distribution":"5",
        "timestamp":"1585564479",
        "comment":"",
        "sharing_group_id":"0",
        "deleted":false,
        "disable_correlation":false,
        "object_id":"1",
        "object_relation":"yara-rule-name",
        "first_seen":null,
        "last_seen":null,
        "value":"silent_yara"
    }
]
}
],
"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",
    "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 Mapping

threat level map

```
'1': High
'2': Medium
```

```
'3': Low
'4': Undefined
```

distribution map

```
'0': Your organization only
'1': This community only
'2': Connected communities
'3': All communities
'4': Sharing Group
```

attribute distribution map

```
'0': Your organization only
'1': This community only
'2': Connected communities
'3': All communities
'4': Sharing Group
'5': Inherit event
```

analysis map

```
'0': Initial  
'1': Ongoing  
'2': Completed
```

indicator type map

```
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  
email-x-mailer: X-Mailer  
ssdeep: Fuzzy Hash
```

```
regkey: Registry Key
user-agent: User-Agent
mutex: Mutex
url: URL
vulnerability: CVE
uri: URL Path
```

taxonomy map

```
veris:action:malware:variety="Adware": Adware
malware_classification:malware-category="Adware": Adware
ms-caro-malware:malware-type="Adware": Adware
ecsirt:intrusion-attempts="brute-force": Brute Force
veris:action:malware:variety="Brute force": Brute Force
europol-event:brute-force-attempt: Brute Force
enisa:nefarious-activity-abuse="brute-force": Brute Force
ecsirt:availability="ddos": DDoS
europol-incident:availability="dos-ddos": DDoS
ms-caro-malware:malware-type="DDoS": DDoS
circl:incident-classification="denial-of-service": DDoS
enisa:nefarious-activity-abuse="denial-of-service": DDoS
veris:action:malware:variety="Downloader": Downloader
```

```
malware_classification:malware-category="Downloader": Downloader
Remote Access Tool: Downloader
enisa:nefarious-activity-abuse="remote-access-tool": Downloader
ms-caro-malware:malware-type="RemoteAccess": Downloader
circl:incident-classification="sql-injection": SQLi
veris:action:malware:variety="SQL injection": SQLi
veris:action:hacking:variety="SQLi": SQLi
enisa:nefarious-activity-abuse="web-application-attacks-injection-attacks-code-injection-SQL-
XSS": SQLi
europol-event:sql-injection: SQLi
veris:action:malware:variety="Spyware/Keylogger": Spyware
malware_classification:malware-category="Spyware": Spyware
ms-caro-malware:malware-type="Spyware": Spyware
enisa:nefarious-activity-abuse="spyware-or-deceptive-adware": Spyware
malware_classification:malware-category="Trojan": Trojan
ms-caro-malware:malware-type="Trojan": Trojan
ecsirt:malicious-code="trojan": Trojan
malware_classification:malware-category="Virus": Virus
ms-caro-malware:malware-type="Virus": Virus
ecsirt:malicious-code="virus": Virus
veris:action:malware:variety="Worm": Worm
```

```
malware_classification:malware-category="Worm": Worm
ms-caro-malware:malware-type="Worm": Worm
ecsirt:malicious-code="worm": Worm
ecsirt:intrusions="backdoor": Backdoor
veris:action:malware:variety="Backdoor": Backdoor
ms-caro-malware:malware-type="Backdoor": Backdoor
ecsirt:malicious-code="c&c": C&C
europol-incident:malware="c&c": C&C
europol-event:c&c-server-hosting: C&C
veris:action:malware:variety="C2": C&C
veris:action:malware:variety="Exploit vuln": Exploit
ecsirt:intrusion-attempts="exploit": Exploit
europol-event:exploit: Exploit
europol-incident:intrusion="exploitation-vulnerability": Exploit
ms-caro-malware:malware-type="Exploit": Exploit
ecsirt:malicious-code="malware": Malware
circl:incident-classification="malware": Malware
circl:incident-classification="phishing": Phishing
ecsirt:fraud="phishing": Phishing
veris:action:social:variety="Phishing": Phishing
europol-incident:information-gathering="phishing": Phishing
```

```
enisa:nefarious-activity-abuse="phishing-attacks": Phishing
ecsirt:malicious-code="ransomware": Ransomware
enisa:nefarious-activity-abuse="ransomware": Ransomware
malware_classification:malware-category="Ransomware": Ransomware
ms-caro-malware:malware-type="Ransom": Ransomware
veris:action:malware:variety="Ransomware": Ransomware
veris:action:malware:variety="Rootkit": Rootkit
enisa:nefarious-activity-abuse="rootkits": Rootkit
malware_classification:malware-category="Rootkit": Rootkit
circl:incident-classification="scan": Scan
ecsirt:information-gathering="scanner": Scan
europol-incident:information-gathering="scanning": Scan
veris:action:malware:variety="Scan network": Scan Network
europol-event:network-scanning: Scan Network
circl:incident-classification="spam": Spam
ecsirt:abusive-content="spam": Spam
enisa:nefarious-activity-abuse="spam": Spam
europol-event:spam: Spam
europol-incident:abusive-content="spam": Spam
veris:action:malware:variety="Spam": Spam
veris:action:social:variety="Spam": Spam
```

```
tlp:amber: TLP-Amber
iep:traffic-light-protocol="AMBER": TLP-Amber
tlp:green: TLP-Green
iep:traffic-light-protocol="GREEN": TLP-Green
tlp:red: TLP-Red
iep:traffic-light-protocol="RED": TLP-Red
tlp:white: TLP-White
iep:traffic-light-protocol="WHITE": TLP-White
circl:incident-classification="XSS": XSS
europol-event:xss: XSS
```

mitre_object_types_list

```
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
mitre-mobile-attack-course-of-action: course
mitre-course-of-action: course
```

```
mitre-pre-attack-intrusion-set: intrusion
mitre-intrusion-set: intrusion
mitre-enterprise-attack-intrusion-set: intrusion
mitre-mobile-attack-intrusion-set: intrusion
mitre-enterprise-attack-attack-pattern: pattern
mitre-attack-pattern: pattern
mitre-mobile-attack-attack-pattern: pattern
mitre-pre-attack-attack-pattern: pattern
```

ThreatQ provides the following default mapping for the connector:

Feed Data Path (response.Event.)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.info	event.title	Title	.publish_ timestamp	"info":"EVENT1"	
.Orgc.name	event.attribute	Source Organization	.publish_ timestamp	"Orgc":{"name":"ORGNAME", ...}	
.Org.name	event.attribute	Member Organization	.publish_ timestamp	"Org":{"name":"ORGNAME", ...}	
.id	event.attribute	ID	.publish_ timestamp	"id":"1"	
.uuid	event.attribute	UUID	.publish_ timestamp	"uuid":"5c142f52-5ad0-4c04- 8069-03c8ac107221"	
.threat_level_id	event.attribute	MISP Threat Level	.publish_ timestamp	"threat_level_id":"2"	threat level map
.date	event.happened_ at	Event Timestamp		"date":"2018-12-14"	formatted

Feed Data Path (response.Event.)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.publish_timestamp	event.attribute	Published At	.publish_timestamp	"publish_timestamp":"1544827221"	formatted
.analysis	event.attribute	Analysis	.publish_timestamp	"analysis":"1"	analysis map
.distribution	event.attribute	Distribution	.publish_timestamp	"distribution":"1"	distribution map
.sharing_group_id	event.attribute	Sharing Group	.publish_timestamp	"sharing_group_id":"0"	
.disable_correlation	event.attribute	Disable Correlation	.publish_timestamp	"disable_correlation":false	
.id *	event.attribute	External MISP	.publish_timestamp	"https://{user_fields.domain_name}}/events/view/1"	*
* https://{user_fields.domain_name}}/events/view/{event_id} where event_id is <code>.id</code>					

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.type	indicator.type	Type	.timestamp	"type": "filename"	"link"
.value	indicator.value	Value	.timestamp	"value": "file.dll"	"www.virustotal.com/#!/file..."
.category	indicator.attribute	Category	.timestamp	"category": "Antivirus detection"	
.to_ids	indicator.attribute	To IDS	.timestamp	"to_ids": false	
.distribution	indicator.attribute	Distribution	.timestamp	"distribution": "3"	attribute distribution map
.timestamp	indicator.attribute	Published At	.timestamp	"timestamp": "1545063678"	formatted
.comment	indicator.attribute	Comment	.timestamp	"comment": "dummy comment"	*
.comment	indicator.attribute	Pertinence	.timestamp	"comment": "Pertinence: dummy pertinence"	**
.sharing_group_id	indicator.attribute	Sharing Group	.timestamp	"sharing_group_id": "0"	
.deleted	indicator.attribute	Deleted	.timestamp	"deleted": false	

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.disable_correlation	indicator.attribute	Disable Cor- relation	.timestamp	"disable_correlation":false	
.object_relation	indicator.attribute	Object Rela- tion	.timestamp	"object_relation":null	
.type	indicator.attribute	IP Type	.timestamp	"type":"filename"	"link"
*'Comment' attribute is created only if "Pertinence" does not appear in the .comment value. ** 'Pertinence' attribute is created only if "Pertinence" appears in the .comment value and the value of the new attribute will be everything after 'Pertinence:' *** Attribute present only if .type in ['ip-src', 'ip-dst']. Possible values 'ip-src' / 'ip-dst'.					

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.value	event.attribute	Category		"value": "http://link.- com"	where .type == 'link'

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.value	event.attribute	Comment		"value": "sample comment"	where .type == 'comment'

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.name	signature.name	Name		"HexExample"	Extracted from value key
.value	signature.value	Value		"value": "rule HexExample {\r\n\tstrings:\r\n\t\t..."	
.type	signature.type	Type		"YARA"	

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.name	signature.name	Name		"mysql general_log write file"	Extracted from .value->msg

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.value	signature.value	Value		"value": alert tcp \$HOME_NET any -> any 3306 (msg:..."	
.type	signature.type	Type		"SNORT"	

Feed Data Path (response.Event.At- tribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Pub- lished Date	Examples	Notes
.timestamp	attach- ment.published_at	Attach- ment Pub- lished At	.timesta- mp	"timestamp": "1574851924"	formatted
.data	attachment.content	Attach- ment Content	.timesta- mp	"data": "JVBERi0xLjMNCiXi48TDQoNCjEgMCBvYmo8- DQovV..."	
.value	attachment.value &	Attach-	.timesta-	"value": "sample.pdf"	

Feed Data Path (response.Event.At-tribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Pub- lished Date	Examples	Notes
	name	ment Value & Name	mp		
.id	attach- ment.attribute	ID	.timesta- mp	"id": "477506"	
.category	attach- ment.attribute	Category	.timesta- mp	"category": "Payload delivery"	
.to_ids	attach- ment.attribute	To IDS	.timesta- mp	"to_ids": false	
.uuid	attach- ment.attribute	UUID	.timesta- mp	"uuid": "5dde5554-6320-4647-baa8-26d3ac107221"	
.distribution	attach- ment.attribute	Dis- tribution	.timesta- mp	"distribution": "5"	attribute dis- tribution

Feed Data Path (response.Event.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
					map
.comment	attachment.attribute	Comment	.timestamp	"comment":"A sample pdf file"	
.sharing_group_id	attachment.attribute	Sharing Group	.timestamp	"sharing_group_id":"0"	
.deleted	attachment.attribute	Deleted	.timestamp	"deleted":false	
.disable_correlation	attachment.attribute	Disable Correlation	.timestamp	"disable_correlation":false	



The ingested attachments will be added under the "MISP Attachment" category.

Feed Data Path (response.Event.Object)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.comment	indicator.attribute	Comment	.timestamp	"comment": "dnrsrslvr.dll"	*
* Added to the response.Event.Object.Attribute indicators					

Feed Data Path (response.Event.Object)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.Attribute[].value	signature.name	Name		"silent_yara"	where .Attribute[].object_relation = "yara-rule-name"
Attribute[].value	signature.value	Value		"value": "{\r\n meta:\r\n Author = \"Robert\"\r\n..."	where .Attribute[].object_relation = "yara"
.type	signature.type	Type		"YARA"	

Feed Data Path (response.Event.Object.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.type	indicator.type	Type	.timestamp	"type":"md5"	indicator type map
.value	indicator.value	Value	.timestamp	"value":"44d88612fea8a8f36de82e1278abb02f"	
.category	indicator.attribute	Category	.timestamp	"category":"Payload delivery"	
.to_ids	indicator.attribute	To IDS	.timestamp	"to_ids":true	
.distribution	indicator.attribute	Distribution	.timestamp	"distribution":"5"	attribute distribution map
.sharing_group_id	indicator.attribute	Sharing Group	.timestamp	"sharing_group_id":"0"	

Feed Data Path (response.Event.Object.Attribute)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.type	indicator.attribute	IP Type	.timestamp	"type": "md5"	*
* Attribute present only if .type in ['ip-src', 'ip-dst']. Possible values 'ip-src' / 'ip-dst'.					

Feed Data Path (response.Event.Object.Galaxy.GalaxyCluster**)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.value + .meta.synonyms	adversary.name	Name		"value":["Keyhole Panda","temp.bottle"]	
.id	adversary.attribute	ID		"id": "5401",	
.type	adversary.attribute	Type		"type": "threat-actor"	
.description	adversary.attribute	Description		"description": "no description"	

Feed Data Path (response.Event.Object.Galaxy.GalaxyCluster**)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.galaxy_id	adversary.attribute	Galaxy ID		"galaxy_id"."3"	
.version	adversary.attribute	Version		"version"."75"	
.tag_id	adversary.attribute	Tag ID		"tag_id"."77"	
.meta.cfr-suspected-state-sponsor	adversary.attribute	Suspected State Sponsor		meta["cfr-suspected-state-sponsor"]: ["dummy"]	
.meta.cfr-suspected-victims	adversary.attribute	Suspected Victims		meta["cfr-suspected-victims"]: ["dummy"]	
.meta.cfr-target-category	adversary.attribute	Target Category		meta["cfr-target-category"]: ["dummy"]	
.meta.cfr-type-of-incident	adversary.attribute	Type of Incident		meta["cfr-type-of-incident"]: ["dummy"]	
.meta.country	adversary.attribute	Country		meta["country"]: ["CN"]	
.meta.refs	adversary.attribute	References		meta["refs"]: ["www.-dummy.com"]	

Feed Data Path (response.Event.Object.Galaxy.GalaxyCluster**)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
** Where GalaxyCluster["type"] == "threat-actor"					

Feed Data Path (response.Event.Object.Galaxy.GalaxyCluster**)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.value	STIX2 object***	Value****		"value": "APT16 - G0023"****	mitre_object_types_list
** Where GalaxyCluster["type"] in mitre_object_types_list. *** STIX2 objects are created based on the '.type' mapped through mitre_object_types_list. **** The value suffers some changes in order to match the already created STIX2 objects ingested by the MITRE feeds.					

Feed Data Path (response.Event.Tag)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.name	event.attribute	Tag	.publish_timestamp	"malware_classification:malware-category="Downloader""	taxonomy map

Feed Data Path (response.Event.Tag)	ThreatQ Entity	ThreatQ Object Type or Attribute Key	Published Date	Examples	Notes
.name	indicator & event attributes	Tag		"malware_classification:malware-category="Downloader""	
 TLPs assigned to each object if the response.Event.Tag array contains a dictionary item with the key 'name' and one of the two values 'tlp:tlp_value' / 'iep:traffic-light-protocol="tlp_value"' (ex: "name": "tlp:red" / 'iep:traffic-light-protocol="RED"')					