ThreatQuotient

A Securonix Company

MITRE ATT&CK ICS CDF

Version 1.0.1

July 20, 2026

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ThreatQ Supported

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Contents

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Support

This integration is designated as **ThreatQ Supported**.

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Integrations/apps/add-ons designated as **ThreatQ Supported** are fully supported by ThreatQuotient's Customer Support team.

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> ⚠ ThreatQuotient does not provide support or maintenance for integrations, apps, or add-ons published by any party other than ThreatQuotient, including third-party developers.

Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.0.1
Compatible with ThreatQ Versions	>= 4.35.0
Support Tier	ThreatQ Supported

Introduction

The MITRE ATT&CK ICS CDF for ThreatQuotient enables the automatic ingestion of Common Weakness Enumerations, distributed by MITRE.

The integration provides the following feed:

- **MITRE ATT&CK ICS** - brings Attack Patterns, Course of Actions, Intrusion Sets and Malware distributed by MITRE.

The integration ingests the following objects:

- Attack Pattern
  - Attack Pattern Attributes
- Courses of Action
  - Courses of Action Attributes
- Malware
  - Malware Attributes
- Intrusion Set
  - Intrusion Set Attributes

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. 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 entry to open its details page.
4. Review any additional settings, make any changes if needed, and click on **Save**.
5. Click on the toggle switch, located above the *Additional Information* section, to enable it.

ThreatQ Mapping

MITRE ATT&CK ICS

The MITRE ATT&CK ICS feed brings Attack Patterns, Course of Actions, Intrusion Sets and Malware distributed by MITRE.

`https://raw.githubusercontent.com/mitre/cti/master/ics-attack/ics-attack.json`

Sample Response:


```
{
    "objects": [
        {
            "type": "attack-pattern",
            "name": "Block Command Message",
            "description": "Adversaries may block a command message
from reaching its intended target to prevent command execution.",
            "kill_chain_phases": [
                {
                    "kill_chain_name": "mitre-ics-attack",
                    "phase_name": "execution-ics"
                },
                {
                    "kill_chain_name": "mitre-ics-attack",
                    "phase_name": "evasion-ics"
                }
            ],
            "x_mitre_platforms": [
                "Field Controller/RTU/PLC/IED",
                "Device Configuration/Parameters"
            ],
            "external_references": [
                {
                    "url": "https://collaborate.mitre.org/attackics/
index.php/Technique/T0803",
                    "source_name": "mitre-ics-attack",
                    "external_id": "T0803"
                }
            ],
            "object_marking_refs": [
```

```
                "marking-definition--fa42a846-8d90-4e51-
bc29-71d5b4802168"
            ],
            "created": "2020-05-21T17:43:26.506Z",
            "created_by_ref": "identity--c78cb6e5-0c4b-4611-8297-
d1b8b55e40b5",
            "x_mitre_data_sources": [
                "Network Traffic: Network Traffic Flow",
                "Network Traffic: Network Connection Creation",
                "Operational Databases: Process/Event Alarm"
            ],
            "x_mitre_contributors": [
                "Dragos Threat Intelligence"
            ],
            "modified": "2021-10-08T13:04:01.612Z",
            "id": "attack-pattern--008b8f56-6107-48be-
aa9f-746f927dbb61",
            "x_mitre_deprecated": "true"
        },
        {
            "id": "course-of-action--059ba11e-
e3dc-49aa-84ca-88197f40d4ea",
            "type": "course-of-action",
            "labels": [
                "NIST SP 800-53 Rev. 4 - SI-3",
                "IEC 62443-3-3:2013 - SR 5.4",
                "IEC 62443-4-2:2019 - CR 5.4"
            ],
            "object_marking_refs": [
                "marking-definition--fa42a846-8d90-4e51-
bc29-71d5b4802168"
            ],
            "created": "2019-06-11T17:06:56.230Z",
            "created_by_ref": "identity--c78cb6e5-0c4b-4611-8297-
d1b8b55e40b5",
            "external_references": [
                {
                    "source_name": "mitre-ics-attack",
                    "url": "https://collaborate.mitre.org/attackics/
index.php/Mitigation/M0948",
                    "external_id": "M0948"
                }
```

```
            ],
            "description": "Restrict execution of code to a virtual
environment on or in transit to an endpoint system.",
            "x_mitre_version": "1.0",
            "modified": "2021-04-10T14:17:03.851Z",
            "name": "Application Isolation and Sandboxing"
        },
        {
            "aliases": [
                "ALLANITE",
                "Palmetto Fusion"
            ],
            "type": "intrusion-set",
            "name": "ALLANITE",
            "description": "[ALLANITE](https://collaborate.mitre.org/
attackics/index.php/Group/G0009) is a suspected Russian cyber
espionage group.",
            "external_references": [
                {
                    "external_id": "G1000",
                    "source_name": "mitre-ics-attack",
                    "url": "https://collaborate.mitre.org/attackics/
index.php/Group/G0009"
                },
                {
                    "description": "(Citation: Dragos ALLANITE)",
                    "source_name": "ALLANITE"
                },
                {
                    "source_name": "Dragos ALLANITE",
                    "description": "Dragon. (n.d.). Allanite.
Retrieved October 27, 2019",
                    "url": "https://www.dragos.com/threat/allanite/"
                }
            ],
            "created_by_ref": "identity--c78cb6e5-0c4b-4611-8297-
d1b8b55e40b5",
            "created": "2017-05-31T21:31:57.307Z",
            "id": "intrusion-set--190242d7-73fc-4738-
af68-20162f7a5aae",
            "modified": "2020-01-05T23:05:19.419Z",
            "object_marking_refs": [
```

```
                "marking-definition--fa42a846-8d90-4e51-
bc29-71d5b4802168"
            ],
            "x_mitre_contributors": [
                "Edward Millington"
            ],
            "x_mitre_version": "1.0"
        },
        {
            "modified": "2021-10-13T21:54:51.532Z",
            "x_mitre_version": "1.0",
            "id": "malware--00e7d565-9883-4ee5-b642-8fd17fd6a3f5",
            "type": "malware",
            "description": "[EKANS](https://attack.mitre.org/
software/S0605) is ransomware variant that first appeared in mid-
December 2019.",
            "created_by_ref": "identity--c78cb6e5-0c4b-4611-8297-
d1b8b55e40b5",
            "labels": [
                "malware"
            ],
            "external_references": [
                {
                    "external_id": "S0605",
                    "url": "https://attack.mitre.org/software/S0605",
                    "source_name": "mitre-attack"
                },
                {
                    "source_name": "EKANS",
                    "description": "(Citation: Dragos EKANS)
(Citation: Palo Alto Unit 42 EKANS)(Citation: FireEye Ransomware Feb
2020)"
                }
            ],
            "name": "EKANS",
            "object_marking_refs": [
                "marking-definition--fa42a846-8d90-4e51-
bc29-71d5b4802168"
            ],
            "x_mitre_aliases": [
                "EKANS",
                "SNAKEHOSE"
```

```
            ],
            "x_mitre_platforms": [
                "Windows"
            ],
            "created": "2021-02-12T20:07:42.883Z",
            "x_mitre_contributors": [
                "Edward Millington"
            ]
        }
    ]
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.objects[].external_references[].external_id - .objects[].name	Attack Pattern.Value	N/A	.objects[].created	T0803 - Block Command Message	If .objects[].external_references[].source_name is mitre-ics-attack. .objects[].external_references[].external_id is the value for .objects[].external_references[].source_name = mitre-ics-attack
.objects[].description	Attack Pattern.Description	N/A	.objects[].created	Adversaries may block a command message from reaching..	If .objects[].external_references[].source_name is mitre-ics-attack
.objects[].kill_chain_phases[].phase_name	Attack Pattern.Attribute	Kill Chain: mitre-ics-attack	.objects[].created	execution-ics	If .objects[].kill_chain_phases[].kill_chain_name is mitre-ics-attack. Attribute value is .objects[].kill_chain_phases[].phase_name
.objects[].x_mitre_platforms[]	Attack Pattern.Attribute	MITRE Platform	.objects[].created	Field Controller/ RTU/PLC/IED	If .objects[].external_references[].source_name is mitre-ics-attack
.objects[].x_mitre_data_sources[]	Attack Pattern.Attribute	Data Source	.objects[].created	Network Traffic: Network Traffic Flow	If .objects[].external_references[].source_name is mitre-ics-attack
.objects[].x_mitre_deprecated	Attack Pattern.Attribute	Deprecated	.objects[].created	true	If .objects[].external_references[].source_name is mitre-ics-attack
.objects[].x_mitre_contributors	Attack Pattern.Attribute	Contributor	.objects[].created	Dragos Threat Intelligence	If .objects[].external_references[].source_name is mitre-ics-attack
.objects[].external_references[].external_id - .objects[].name	Course Of Action.Value	N/A	.objects[].created	M0801 - Application Isolation and Sandboxing	If .objects[].external_references[].source_name is course-of-action. .objects[].external_references[].external_id is the value for .objects[].external_references[].source_name = mitre-ics-attack
.objects[].description	Course Of Action.Description	N/A	.objects[].created	Restrict execution of code to a virtual environment	If .objects[].external_references[].source_name is course-of-action
.objects[].labels	Course Of Action.Attribute	Label	.objects[].created	NIST SP 800-53 Rev. 4 - SI-3	If .objects[].external_references[].source_name is course-of-action
.objects[].external_references[].external_id	Intrusion Set.Value	N/A	.objects[].created	G1000 - ALLANITE	If .objects[].external_references[].source_name is intrusion-set. .objects[].external_references[].ex

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
- .objects[].name					ternal_id is the value for .objects[].external_references[].source_name = mitre-ics-attack
.objects[].description	Intrusion Set.Description	N/A	.objects[].created	[ALLANITE](https://collaborate.mitre.org/attackics/index.php/Group/G0009) is a suspected	If .objects[].external_references[].source_name is intrusion-set
.objects[].aliases	Intrusion Set.Attribute	Alias	.objects[].created	Palmetto Fusion	If .objects[].external_references[].source_name is intrusion-set
.objects[].x_mitre_contributors	Intrusion Set.Attribute	Contributor	.objects[].created	Dragos Threat Intelligence	If .objects[].external_references[].source_name is intrusion-set
.objects[].external_references[].external_id - .objects[].name	Malware.Value	N/A	.objects[].created	S0605 - EKANS	If .objects[].external_references[].source_name is malware. .objects[].external_references[].external_id is the value for .objects[].external_references[].source_name = mitre-ics-attack
.objects[].description	Malware.Description	N/A	.objects[].created	[EKANS](https://attack.mitre.org/software/S0605) is ransomware..	If .objects[].external_references[].source_name is malware
.objects[].x_mitre_aliases	Malware.Attribute	Alias	.objects[].created	SNAKEHOSE	If .objects[].external_references[].source_name is malware
.objects[].x_mitre_platforms[]	Malware.Attribute	MITRE Platform	.objects[].created	Windows	If .objects[].external_references[].source_name is malware
.objects[].x_mitre_contributors	Malware.Attribute	Contributor	.objects[].created	Edward Millington	If .objects[].external_references[].source_name is malware

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.

METRIC	RESULT
Run Time	1 minute
Attack Pattern	90
Attack Pattern Attributes	559
Course Of Action	50
Course Of Action Attributes	111
Malware	50
Malware Attributes	111
Intrusion Set	2
Intrusion Set Attributes	4

Change Log

- **Version 1.0.1**
  - Updated the ICS Cyber Kill Chain phase attribute ingestion to use the standardized kill chain attribute mapping, ensuring kill chain phases are consistently ingested and represented in ThreatQ.
- **Version 1.0.0**
  - Initial release