

ThreatQuotient



McAfee MVISION CDF Guide

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ThreatQuotient
20130 Lakeview Center Plaza Suite 400
Ashburn, VA 20147

 ThreatQ Supported

Support
Email: support@threatq.com
Web: support.threatq.com
Phone: 703.574.9893

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Support Email: support@threatq.com

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Support Phone: 703.574.9893

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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
ThreatQ Marketplace	https://marketplace.threatq.com/details/mcafee-mvision-cdf

Introduction

The McAfee MVISION CDF for ThreatQ enables analysts to automatically ingest campaigns provided by McAfee MVISION Cloud.

The McAfee MVISION CDF integration for ThreatQ provides the following feeds:

- **McAfee MVISION Insights Campaigns** - brings in campaigns & related context from the McAfee MVISION Insights App.
- **McAfee Insights IOC Data (Supplemental)** - fetches related IOCs to a given Campaign.
- **McAfee Insights Galaxies Data (Supplemental)** - fetches related Galaxy Data to a given Campaign.
- **McAfee MVISION ePO Events** - brings in assets (hosts/devices) with threat events from McAfee MVISION ePO.
- **McAfee ePO Device by Agent ID (Supplemental)** - fetches a single device by its' ID, from McAfee MVISION via the ePO endpoint.
- **McAfee MVISION Insights Events** - ingests assets (hosts/devices) with threat events relating to a campaign within the McAfee MVISION Insights App.
- **McAfee Insights Campaign by ID (Supplemental)** - fetches a single campaign by its' ID, from McAfee MVISION via the Insights endpoint.
- **McAfee MVISION Threat Research** - brings in reports from McAfee's Threat Research RSS feed.

The integration ingests the following system objects:

- Adversaries
- Assets
- Campaigns
- Events
- Indicators
- Malware
- Reports
- Tools

Prerequisites

Review and complete the following prerequisites before installing the McAfee MVISION CDF integration.

Asset Object

The integration requires the Asset object. The Asset installation files are included with the integration download on the ThreatQ Marketplace. The Asset object must be installed prior to installing the integration.

A You do not have to install the Asset object if you are running ThreatQ version 5.10.0 or greater as the object has been seeded as a default system object.

Use the steps provided to install the xxx custom object.

A When installing the custom objects, be aware that any in-progress feed runs will be cancelled, and the API will be in maintenance mode.

1. Download the custom object zip file from the ThreatQ Marketplace and unzip its contents.
2. SSH into your ThreatQ instance.
3. Navigate to tmp directory:

```
<> cd /tmp/
```

4. Create a new directory:

```
<> mkdir mcafee_mvvision_cdf
```

5. Upload the **asset.json** and **install.sh** script into this new directory.
6. Create a new directory called **images** within the **mcafee_mvvision_cdf** directory.
7. Upload the **asset.svg**.
8. Navigate to the **/tmp/mcafee_mvvision_cdf**.

The directory should resemble the following:

- tmp
 - mcafee_mvvision_cdf
 - asset.json
 - install.sh
 - images
 - asset.svg

9. Run the following command to ensure that you have the proper permissions to install the custom object:

```
<> chmod +x install.sh
```

10. Run the following command:

```
<> sudo ./install.sh
```



You must be in the directory level that houses the install.sh and json files when running this command.

The installation script will automatically put the application into maintenance mode, move the files to their required directories, install the custom object, update permissions, bring the application out of maintenance mode, and restart dynamo.

Installing Custom Objects – Step 1 of 5 (Entering Maintenance Mode)

Application is now in maintenance mode.

Installing Custom Objects – Step 2 of 5 (Installing the Asset Custom Object)

Installing Custom Objects – Step 3 of 5 (Configuring image for Asset Custom Object)

Installing Custom Objects – Step 4 of 5 (Updating Permissions in ThreatQ)

Installing Custom Objects – Step 5 of 5 (Exiting Maintenance Mode)

Application is now live.

–

11. Remove the temporary directory, after the custom object has been installed, as the files are no longer needed:

```
<> rm -rf mcafee_mvvision_cdf
```

Client ID / Secret Credentials Access

Confirm that your Client ID/Secret Credentials have access to the following scopes:

- ins.user
- ins.suser
- ins.ms.r
- epo.device.r
- epo.device.w
- epo.tags.r
- epo.tags.w
- epo.evt.r
- epo.taggroup.r

Generating MVISION Client Credentials (API Keys)

Client Credentials (API Keys) are obtained via McAfee's MVISION Marketplace, found here:

<https://www.mcafee.com/enterprise/en-us/solutions/mvision/marketplace.html>

 As of the date of this publication, ThreatQuotient does not have a configurable entry on the MVISION Marketplace. You can use the FireEye Helix to generate the Client Credentials that are required to use ThreatQ integrations.

Perform the following steps to generate these Client Credentials using FireEye Helix:

1. Navigate to the McAfee MVISION Marketplace:
<https://www.mcafee.com/enterprise/en-us/solutions/mvision/marketplace.html>.
2. Enter **FireEye Helix** in the search bar and select the auto-completed entry.
3. Click on the **Configure** button for the marketplace entry.
4. Complete the **Instance URL** field.

 The URL can be any value as you are not actually connecting to a FireEye instance.

Recommendation: Enter `https://127.0.0.1` if you do not have a FireEye instance.

5. Click on the **Refresh** button located above the Client Credential fields.
6. Use the checkboxes to agree to McAfee's user-agreements.
7. Click the **Connect** button to save the configuration.
8. Copy your **McAfee API Key**, **Cloud Client ID**, and **Cloud Client Secret**, and store them in a safe location.

Installation

 The CDF requires the installation of a custom object before installing the actual CDF if you are on ThreatQ version 5.9.0 or earlier. See the [Prerequisites](#) chapter for more details. The custom object must be installed prior to installing the CDF. Attempting to install the CDF without the custom object will cause the CDF install process to fail.

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).

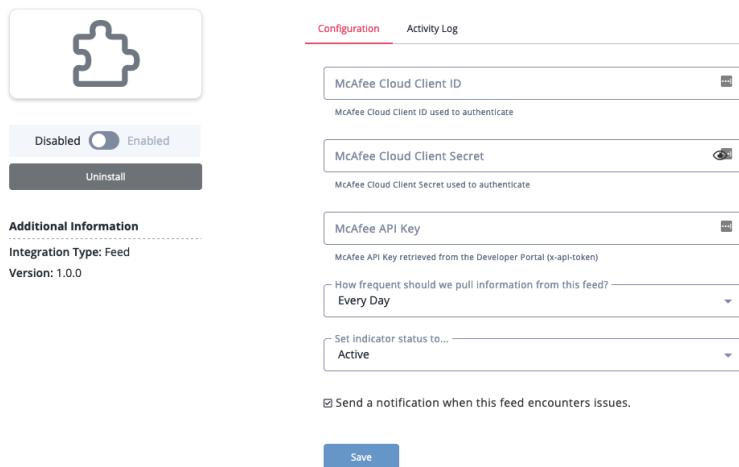


If you are installing the integration for the first time, it will be located under the **Disabled** tab.

3. Click on the integration entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

PARAMETER	DESCRIPTION
McAfee API Key	Your McAfee API Key retrieved from the Developer Portal (x-api-token).
McAfee Cloud Client ID	Your McAfee Cloud Client ID used to authenticate. See the Generating MVISION Client Credentials (API Keys) section of the Prerequisites chapter for steps to obtain McAfee Cloud credentials.
McAfee Cloud Client Secret	Your McAfee Cloud Client Secret used to authenticate. See the Generating MVISION Client Credentials (API Keys) section of the Prerequisites chapter for steps to obtain McAfee Cloud credentials.

< McAfee MVISION Insights Campaigns



The screenshot shows the 'Configuration' tab of the McAfee MVISION Insights Campaigns integration. It includes the following fields:

- McAfee Cloud Client ID:** A text input field with a help link.
- McAfee Cloud Client Secret:** A text input field with a help link.
- McAfee API Key:** A text input field with a help link.
- How frequent should we pull information from this feed?**: A dropdown menu set to "Every Day".
- Set indicator status to...**: A dropdown menu set to "Active".

Below these fields is a checkbox for "Send a notification when this feed encounters issues." At the bottom is a blue "Save" button.

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

ThreatQ Mapping

McAfee MVISION Insights Campaigns

The McAfee MVISION Insights Campaigns feed brings in campaigns & related context from the McAfee MVISION Insights App.

```
GET https://api.mvision.mcafee.com/insights/v2/campaigns
```

Sample Response:

```
{
  "links": {
    "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e?
include=prevalence,last_detected_on&page[limit]=1000&page[sort]=updated-on"
  },
  "data": [
    {
      "type": "campaigns",
      "id": "0026519b-ad7b-11ea-9477-02d538d9640e",
      "links": {
        "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e"
      },
      "attributes": {
        "name": "The Stealthy Email Stealer in the TA505 Arsenal",
        "description": "The TA505 threat group targeted the banking sector with spear-phishing emails that contained a malicious attachment and installed the FlawedAmmyy remote access trojan. The RAT was used to drop an email stealer to harvest credentials from multiple software applications.",
        "threat-level-id": 2,
        "kb-article-link": null,
        "coverage": {
          "dat_version": {
            "min": 4388
          }
        },
        "updated-on": "2021-05-07T09:35:25.000Z",
        "external-analysis": {
          "links": [
            "https://blog.yoroi.company/research/the-stealthy-email-stealer-in-the-ta505-arsenal/"
          ]
        },
        "is-coat": 1,
        "prevalence": {
          "nodes": 4.53,
          "events": 10.5,
          "sectors": [
            {
              "sector": "Unknown",
              "affected": 19.76,
              "events": 45.81,
              "total": 1000000
            }
          ],
        }
      }
    }
  ]
}
```

```

        "countries": [
            {
                "iso_code": "IT",
                "affected": 94.31,
                "events": 270.24,
                "total": 1000000
            }
        ],
        "countriesTotalDevices": 1000000
    },
    "relationships": {
        "iocs": {
            "links": {
                "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/relationships/iocs",
                "related": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/iocs"
            }
        },
        "galaxies": {
            "links": {
                "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/relationships/galaxies",
                "related": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/galaxies"
            }
        }
    }
}
]
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
data[].attributes.name	Campaign.Value	N/A	.data[].attributes.created-on	The Stealthy Email Stealer in the TA505 Arsenal	N/A
.data[].attributes.description	Campaign.Description	N/A	N/A	The TA505 threat group targeted the banking sector..	Gets the first 64000 characters of the description and adds .data[].attributes.kb-article-link
.data[].attributes.updated-on	Campaign.Ended_at	N/A	N/A	2021-05-07T09:35:25	N/A
.data[].attributes.kb-article-link	Campaign.Attribute	Knowledgebase Article Link	.data[].attributes.created-on	https://kc.mcafee.com/corporate/index?page=content&id=KB93433	N/A
.data[].attributes.threat-level-id	Campaign.Attribute	Threat Level	.data[].attributes.created-on	1	Mapped by using the Threat Level mapping table below
.data[].attributes.prevalence.countries[].iso_code	Campaign.Attribute	Affected Country Code	.data[].attributes.created-on	IT	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attributes.external-analysis.links[]	Campaign.Attribute	External Analysis	.data[].attributes.created-on	N/A	N/A
.data[].attributes.is-coat	Campaign.Attribute	Analysed by Coat Team	.data[].attributes.created-on	0	Mapped to bool (1 => True, 0 => False)



The feed calls the McAfee Insights IOC Data and McAfee Insights Galaxies Data supplemental feeds using .data[].id as campaign_id parameter.

McAfee Threat Level to ThreatQ Mapping

The Threat Level (as found in `.data[] .attributes .threat .severity`) to ThreatQ Type mapping is as follows:

MCAFEE THREAT LEVEL	THREATQ SCORE CATEGORY
1	Unverified
2	Low
3	Medium
4	High
5	Very High

McAfee Insights IOC Data (Supplemental)

The McAfee Insights IOC Data feed fetches related IOCs to a given Campaign.

```
GET https://api.mvision.mcafee.com/insights/v2/campaigns/{{campaign_id}}/iocts
```

Sample Response:

```
{
  "links": {
    "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/iocts",
    "first": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/iocts?page[limit]=500&page[offset]=0",
    "last": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/iocts?page[limit]=500&page[offset]=0",
    "prev": null,
    "next": null
  },
  "data": [
    {
      "type": "iocts",
      "id": "00936f77-ad7b-11ea-9477-02d538d9640e",
      "links": {
        "self": "https://api.mvision.mcafee.com/insights/v2/iocts/00936f77-ad7b-11ea-9477-02d538d9640e"
      },
      "attributes": {
        "type": "ip",
        "value": "178.48.154.38",
        "coverage": null,
        "uid": "32aa0246-385d-4aae-b4f7-3bf68c1620a9",
        "is-coat": 0,
        "is-sdb-dirty": 0,
        "category": "Network activity",
        "comment": "",
        "lethality": null,
        "determinism": null,
        "created-on": "2020-06-13T13:37:19.000Z"
      },
      "relationships": {
        "campaigns": {
          "links": {
            "self": "https://api.mvision.mcafee.com/insights/v2/iocts/00936f77-ad7b-11ea-9477-02d538d9640e/relationships/campaigns",
            "related": "https://api.mvision.mcafee.com/insights/v2/iocts/00936f77-ad7b-11ea-9477-02d538d9640e/campaigns"
          }
        }
      }
    }
  ]
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attributes.value	Indicator.Value	N/A	.data[].attributes.created-on	4746854f043cdde 2d28420e3d733f5 d916bef929	N/A
.data[].attributes.type	Indicator.Type	N/A	N/A	sha1	Mapped by using the IOC Type mapping table below
.data[].attributes.is-sdb-dirty	Indicator.Attribute	Potentially Malicious	.data[].attributes.created-on	1	Mapped to bool (1 => True, 0 => False)
.data[].attributes.lethality	Indicator.Attribute	Lethality	.data[].attributes.created-on	20	N/A
.data[].attributes.comment	Indicator.Attribute	Comment	.data[].attributes.created-on	RIG EK redirecting host	N/A
.data[].attributes.category	Indicator.Attribute	Category	.data[].attributes.created-on	Network activity	N/A
.data[].attributes.is-coat	Indicator.Attribute	Analysed by Coat Team	.data[].attributes.created-on	0	Mapped to bool (1 => True, 0 => False)
.data[].attributes.threat.name	Indicator.Attribute	Threat Name	.data[].attributes.created-on	pinksbot-hn	N/A
.data[].attributes.threat.classification	Indicator.Attribute	Classification	.data[].attributes.created-on	Trojan	N/A
.data[].attributes.threat.severity	Indicator.Attribute	Severity	.data[].attributes.created-on	1	Mapped by using the Threat Severity mapping table below

McAfee IOC Type to ThreatQ Mapping

The IOC Type (as found in `.data[] .attributes .type`) to ThreatQ Type mapping is as follows:

MCAFEE INDICATOR TYPE	THREATQ INDICATOR TYPE
sha1	SHA-1
sha256	SHA-256
sha384	SHA-384
sha512	SHA-512
ip	IP Address
md5	MD5
fqdn	FQDN
url	URL

McAfee Threat Severity to ThreatQ Mapping

The Threat Severity (as found in `.data[].attributes.threat.severity`) to ThreatQ Type mapping is as follows:

MCAFEE THREAT SEVERITY	THREATQ SCORE CATEGORY
1	Unverified
2	Low
3	Medium
4	High
5	Very High

McAfee Insights Galaxies Data (Supplemental)

The McAfee Insights Galaxies Data feed fetches related Galaxy Data to a given Campaign.

```
GET https://api.mvision.mcafee.com/insights/v2/campaigns/{{campaign_id}}/galaxies
```

Sample Response:

```
{
  "data": [
    {
      "attributes": {
        "category": "mcafee-tool",
        "description": "The RIG exploit kit (EK) has been in operation since at least 2013. The EK directs users from legitimate sites to the actor's landing page using malicious iframes or malvertising campaigns. Adobe Flash and Microsoft Internet Explorer vulnerabilities are targeted and used to drop ransomware, botnets, trojans, loaders, stealers, and crypto miners. Use of RIG started to decline in 2017 but is still used in campaigns throughout the world.",
        "name": "Rig Exploit Kit"
      },
      "id": "05b53e57-b97a-11eb-9d72-02d538d9640e",
      "links": {
        "self": "https://api.mvision.mcafee.com/insights/v2/galaxies/05b53e57-b97a-11eb-9d72-02d538d9640e"
      },
      "relationships": {
        "campaigns": {
          "links": {
            "related": "https://api.mvision.mcafee.com/insights/v2/galaxies/05b53e57-b97a-11eb-9d72-02d538d9640e/campaigns",
            "self": "https://api.mvision.mcafee.com/insights/v2/galaxies/05b53e57-b97a-11eb-9d72-02d538d9640e/relationships/campaigns"
          }
        }
      },
      "type": "galaxies"
    }
  ]
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
data[].attributes.name	Adversary.Name	N/A	N/A	UNC2452	Ingested if .data[].attributes.category contains threat-actor
.data[].attributes.description	Adversary.Description	N/A	N/A	Has been in operation since at least 2013	Ingested if .data[].attributes.category contains threat-actor
.data[].attributes.name	Malware.Value	N/A	N/A	KhRAT	Ingested if .data[].attributes.category ends with malware or is one of: rat, tool, malpedia
.data[].attributes.description	Malware.Description	N/A	N/A	Has been in operation since at least 2013	Ingested if .data[].attributes.category ends with malware or is one of: rat, tool, malpedia
.data[].attributes.name	Tool.Value	N/A	N/A	Campo Loader	Ingested if .data[].attributes.category is mcafee-tool
.data[].attributes.description	Tool.Description	N/A	N/A	Has been in operation since at least 2013	Ingested if .data[].attributes.category is mcafee-tool
.data[].attributes.name	Campaign.Attribute	Affected Sector	N/A	Political party	Ingested if .data[].attributes.category is sector
.data[].attributes.name	Value	Attack Pattern	N/A	Exploitation for Privilege Escalation	Ingested if .data[].attributes.category is mcafee-attack-pattern

McAfee MVISION ePO Events

The McAfee MVISION ePO Events feed brings in assets (hosts/devices) with threat events from McAfee MVISION ePO.

```
GET https://api.mvision.mcafee.com/epo/v2/events
```

Sample Response:

```
{
  "data": [
    {
      "agent_id": "be3879aa-2836-4901-a016-dd40316e9094",
      "attributes": {
        "agentguid": "be3879aa-2836-4901-a016-dd40316e9094",
        "analyzer": "ENDP_AM_1070",
        "analyzerdataversion": "4519.0",
        "analyzedetectionmethod": "On-Access Scan",
        "analyzerengineversion": "6300.9389",
        "analyzerhostname": "DESKTOP-RIS67BS",
        "analyzeripv4": "192.168.15.128",
        "analyzeripv6": "/0:0:0:0:ffff:c0a8:f80",
        "analyzermac": "000c29960917",
        "analyzername": "McAfee Endpoint Security",
        "analyzerversion": "10.7.0.2787",
        "autoguid": "bc4fddc4-a679-491a-bd0b-fa552f6db45c",
        "detectedutc": "1629466300000",
        "nodepath": "1\\970278\\970481",
        "receivedutc": "1629466357375",
        "sourcefilepath": null,
        "sourcehostname": null,
        "sourceipv4": "192.168.15.128",
        "sourceipv6": "/0:0:0:0:ffff:c0a8:f80",
        "sourcemac": null,
        "sourceprocesshash": null,
        "sourceprocessname": "C:\\Windows\\explorer.exe",
        "sourceprocesssigned": null,
        "sourceprocesssigner": null,
        "sourceurl": null,
        "sourceusername": null,
        "targetfilename": "C:\\\\Users\\\\Admin\\\\Downloads\\\\Keylogger.Ardamax\\
\\ArdamaxKeylogger_E33AF9E602CBB7AC3634C2608150DD18",
        "targethash": "e33af9e602cbb7ac3634c2608150dd18",
        "targethostname": null,
        "targetipv4": "192.168.15.128",
        "targetipv6": "/0:0:0:0:ffff:c0a8:f80",
        "targetmac": null,
        "targetport": null,
        "targetprocessname": null,
        "targetprotocol": null,
        "targetusername": null,
        "threatactiontaken": "IDS_ALERT_ACT_TAK_DEL",
        "threatcategory": "av.detect",
        "threateventid": 1027,
        "threathandled": true,
        "threatname": "Spy-Agent.cv",
      }
    }
  ]
}
```

```

        "threatseverity": "2",
        "threattype": "trojan",
        "timestamp": "2021-08-20T13:32:37.376Z"
    },
    "id": "59974a79-f887-47eb-ae22-52ca30e47a6f",
    "links": {
        "self": "/epo/v2/events/59974a79-f887-47eb-ae22-52ca30e47a6f"
    },
    "type": "MVEvents"
}
],
"links": {
    "next": "/epo/v2/events?page[limit]=1&page[cursor]=514aa1b5-3303-4be8-
ae76-7904b2810bc3_%3A_2021-08-04T04%3A15%3A03.648Z&filter[timestamp][GT]=2021-05-07T09%3A35%3A25.000Z"
}
}
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[],attributes,[analyzername, threatname, threatseverity, analyzeripv4]	Event.Title	Sighting	.data[],attributes.detectedutc	McAfee Endpoint Security detected a threat - None (Severity: Info) - 172.16.113.58	N/A
.data[],attributes.agentguid	Event.Attribute	Agent GUID	.data[],attributes.timestamp	be3879aa-2836-4901-a016-dd40316e9094	N/A
.data[],attributes.analyzername	Event.Attribute	Analyzer	.data[],attributes.timestamp	McAfee Endpoint Security	N/A
.data[],attributes.analyzerdetectionmethod	Event.Attribute	Analyzed Detection Method	.data[],attributes.timestamp	On-Access Scan	N/A
.data[],attributes.threatactiontaken	Event.Attribute	Action Taken	.data[],attributes.timestamp	IDS_ALERT_ACT_TAK_DEL	N/A
.data[],attributes.targetusername	Event.Attribute	Target Username	.data[],attributes.timestamp	root	N/A
.data[],attributes.targetport	Event.Attribute	Target Port	.data[],attributes.timestamp	21	N/A
.data[],attributes.targetfilename	Indicator.Value	File Path	.data[],attributes.timestamp	C:\Users\Admin\Downloads\Keylogger	N/A
.data[],attributes.targethash	Indicator.Value	MD5	.data[],attributes.timestamp	e33af9e602ccb7ac3634c2608150dd18	N/A
.data[],attributes.sourceipv4	Indicator.Value	IP Address	.data[],attributes.timestamp	192.168.15.128	As long as it's not the same as the device IP
.data[],attributes.targetipv4	Indicator.Value	IP Address	.data[],attributes.timestamp	192.168.15.128	As long as it's not the same as the device IP
.data[],attributes.targetprocessname	Indicator.Value	Filename	.data[],attributes.timestamp	Keylogger	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attributes.threatname	Event.Attribute, Indicator.Attribute	Threat Name	.data[].attributes.timestamp	Spy-Agent.cv	N/A
.data[].attributes.threatcategory	Event.Attribute, Indicator.Attribute	Threat Category	.data[].attributes.timestamp	av.detect	N/A
.data[].attributes.threattype	Event.Attribute, Indicator.Attribute	Threat Type	.data[].attributes.timestamp	trojan	N/A
.data[].attributes.threatseverity	Event.Attribute, Indicator.Attribute	Severity	.data[].attributes.timestamp	2	Mapped by using the Threat Severity mapping table below



The feed calls the McAfee ePO Device by Agent ID supplemental feed using .data[] .attributes.agentguid parameter.

McAfee Threat Severity to ThreatQ Mapping

The Threat Severity (as found in `.data[].attributes.threatseverity`) to ThreatQ Type mapping is as follows:

MCAFEE THREAT SEVERITY	THREATQ
1	Alert
2	Critical
3	Warning
4	Unknown
5	Notice
6	Info

McAfee ePO Device by Agent ID (Supplemental)

The McAfee ePO Device by Agent ID feed fetches a single device by its' ID, from McAfee MVISION via the ePO endpoint.

```
GET https://api.mvision.mcafee.com/epo/v2/devices
```

Sample Response:

```
{
  "data": [
    {
      "attributes": {
        "agentGuid": "77B72506-C48A-11EB-2B4F-000C29960917",
        "agentPlatform": "Windows 10:10:0:0",
        "agentState": 0,
        "agentVersion": "5.7.2.162",
        "computerName": "DESKTOP-RIS67BS",
        "cpuSpeed": 2304,
        "cpuType": "Intel(R) Core(TM) i9-9880H CPU @ 2.30GHz",
        "domainName": "WORKGROUP",
        "excludedTags": "",
        "ipAddress": "192.168.15.128",
        "ipHostName": "DESKTOP-RIS67BS.localdomain",
        "isPortable": "portable",
        "lastUpdate": "2021-06-03T18:15:54.533+00:00",
        "macAddress": "000C29960917",
        "managed": "1",
        "managedState": 1,
        "name": "DESKTOP-RIS67BS",
        "nodeCreatedDate": "2021-06-03T17:13:34.347+00:00",
        "nodePath": null,
        "numOfCpu": 4,
        "osPlatform": "Workstation",
        "osType": "Windows 10",
        "osVersion": "10.0",
        "parentId": 113382,
        "tags": "Escalated, Workstation",
        "tenantId": 5643,
        "totalPhysicalMemory": 8588865536,
        "userName": "Admin"
      },
      "id": "180385",
      "links": {
        "self": "https://api.mvision.mcafee.com/epo/v2/devices/180385"
      },
      "relationships": {
        "assignedTags": {
          "links": {
            "related": "https://api.mvision.mcafee.com/epo/v2/devices/180385/assignedTags",
            "self": "https://api.mvision.mcafee.com/epo/v2/devices/180385/relationships/assignedTags"
          }
        },
        "epoGroup": {
          "links": {
            "related": "https://api.mvision.mcafee.com/epo/v2/devices/180385/epoGroup",
          }
        }
      }
    }
  ]
}
```

```

        "self": "https://api.mvision.mcafee.com/epo/v2/devices/180385/relationships/epoGroup"
    },
},
"installedProducts": {
    "links": {
        "related": "https://api.mvision.mcafee.com/epo/v2/devices/180385/installedProducts",
        "self": "https://api.mvision.mcafee.com/epo/v2/devices/180385/relationships/
installedProducts"
    }
}
},
"type": "devices"
}
]
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attributes.domainName + '/' + .data[].attributes.name]	Asset.Value	N/A	.data[].attributes.nodeCreatedAt	WORKGROUP/DESKTOP-RIS67BS	Keys concatenated together
.data[].attributes.tags	Asset.Tag	N/A	N/A	Workstation, Escalated	N/A
.data[].attributes.agentGuid	Asset.Attribute	Agent GUID	.data[].attributes.nodeCreatedAt	N/A	N/A
.data[].attributes.agentPlatform	Asset.Attribute	Agent Platform	.data[].attributes.nodeCreatedAt	Windows 10:10:0:0	N/A
.data[].attributes.agentState	Asset.Attribute	Agent State	.data[].attributes.nodeCreatedAt	0	online if .data[].attributes.agentState = 1, else is offline
.data[].attributes.computerName	Asset.Attribute	Computer Name	.data[].attributes.nodeCreatedAt	DESKTOP-RIS67BS	N/A
.data[].attributes.cpuType	Asset.Attribute	CPU Type	.data[].attributes.nodeCreatedAt	Intel(R) Core(TM) i9-9880H CPU @ 2.30GHz	N/A
.data[].attributes.domainName	Asset.Attribute	Domain Name	.data[].attributes.nodeCreatedAt	WORKGROUP	N/A
.data[].attributes.ipAddress	Asset.Attribute	IP Address	.data[].attributes.nodeCreatedAt	192.168.15.102	N/A
.data[].attributes.numOfCpu	Asset.Attribute	Number of CPUs	.data[].attributes.nodeCreatedAt	4	N/A
.data[].attributes.osPlatform	Asset.Attribute	OS Platform	.data[].attributes.nodeCreatedAt	Workstation	N/A
.data[].attributes.osType	Asset.Attribute	Operating System	.data[].attributes.nodeCreatedAt	Windows 10	N/A
.data[].attributes.userName	Asset.Attribute	Username	.data[].attributes.nodeCreatedAt	Admin	N/A
.data[].attributes.managedState	Asset.Attribute	Is Managed	.data[].attributes.nodeCreatedAt	True	bool -> string

McAfee MVISION Insights Events

The McAfee MVISION Insights Events feed ingests assets (hosts/devices) with threat events relating to a campaign within the McAfee MVISION Insights App.

GET <https://api.mvision.mcafee.com/insights/v2/events>

Sample Response:

```
{
  "data": [
    {
      "attributes": {
        "campaign-id": "df7a511d-ad7a-11ea-9477-02d538d9640e",
        "customer-details": {
          "epo_server_id": null,
          "epo_tenant_id": "6c9e422fae3d45089d772838daab4142",
          "ma_id": "77b72506c48a11eb2b4f000c29960917"
        },
        "exec-uid": "992b96c2c48f11eba49706354c5c4b89",
        "md5": "84c82835a5d21bbcf75a61706d8ab549",
        "timestamp": "2021-06-03T17:17:33.000Z"
      },
      "links": {},
      "type": "events"
    }
  ]
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
data[].attributes.md5	Indicator.Value	MD5	.data[].attributes.timestamp	84c82835a5d21bbcf75a61706d8ab549	N/A
.data[].attributes.sha1	Indicator.Value	SHA-1	.data[].attributes.timestamp	61c65d46eb23d8064692865f80e02f1b3bdac245	N/A
.data[].attributes.sha256	Indicator.Value	SHA-256	.data[].attributes.timestamp	3ce665e28a4626973d252af6d1a6d969f378e2d9aaf120c0f862061fd6384b5e	N/A



The feed calls the McAfee Insights Campaign by ID supplemental feed using .data[] .attributes['campaign-id'] as campaign_id parameter.

McAfee Insights Campaign by ID (Supplemental)

The McAfee Insights Campaign by ID feed fetches a single campaign by its' ID, from McAfee MVISION via the Insights endpoint.

```
GET https://api.mvision.mcafee.com/insights/v2/campaigns/{{campaign_id}}
```

Sample Response:

```
{
  "links": {
    "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e"
  },
  "data": {
    "type": "campaigns",
    "id": "0026519b-ad7b-11ea-9477-02d538d9640e",
    "links": {
      "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e"
    },
    "attributes": {
      "name": "The Stealthy Email Stealer in the TA505 Arsenal",
      "description": "The TA505 threat group targeted the banking sector with spear-phishing emails that contained a malicious attachment and installed the FlawedAmmyy remote access trojan. The RAT was used to drop an email stealer to harvest credentials from multiple software applications.",
      "threat-level-id": 2,
      "kb-article-link": null,
      "coverage": {
        "dat_version": {
          "min": 4388
        }
      },
      "updated-on": "2021-05-07T09:35:25.000Z",
      "external-analysis": {
        "links": [
          "https://blog.yoroi.company/research/the-stealthy-email-stealer-in-the-ta505-arsenal/"
        ]
      },
      "is-coat": 1,
      "created-on": "2020-06-13T13:37:18.000Z"
    },
    "relationships": {
      "iocts": {
        "links": {
          "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/relationships/iocts",
          "related": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/iocts"
        }
      },
      "galaxies": {
        "links": {
          "self": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/relationships/galaxies",
          "related": "https://api.mvision.mcafee.com/insights/v2/campaigns/0026519b-ad7b-11ea-9477-02d538d9640e/galaxies"
        }
      }
    }
  }
}
```

```

        }
    }
}
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data.attributes.name	Campaign.Value	N/A	.data.attributes.created-on	WannaCry Ransomware	N/A
.data.attributes.description	Campaign.Description	N/A	N/A	Over the course of Friday, May 12, 2017 McAfee received reports ..	N/A
.data.attributes.kb-article-link	Campaign.Attribute	Knowledgebase Article Link	.data.attributes.created-on	https://kc.mcafee.com/corporate/index?page=content&id=KB93433	N/A
.data.attributes.threat-level-id	Campaign.Attribute	Threat Level	.data.attributes.created-on	1	Mapped by using the Threat Level mapping table below
.data.attributes.external-analysis.links[]	Campaign.Attribute	External Analysis	.data.attributes.created-on	N/A	N/A
.data.attributes.is-coat	Campaign.Attribute	Analyzed by Coat Team	.data.attributes.created-on	1	N/A

McAfee Threat Level to ThreatQ Type Mapping

The Threat Level (as found in `.data[] .attributes .threat-level-id`) to ThreatQ Type mapping is as follows:

MCAFEE THREAT SEVERITY	THREATQ INDICATOR TYPE
1	Unverified
2	Low
3	Medium
4	High
5	Very High

McAfee MVISION Threat Research

The McAfee MVISION Threat Research feed brings in reports from McAfee's Threat Research RSS feed.

```
GET https://ui-mcafee.mvision.mcafee.com/rest/contentfeed/v1/mcafeelabs
```

Sample Response:

```
[  
  {  
    "link": "https://www.mcafee.com/blogs/other-blogs/mcafee-labs/the-rise-of-deep-learning-for-detection-and-classification-of-malware/",  
    "dc:creator": "McAfee Labs",  
    "guid": {  
      "isPermaLink": false,  
      "content": "/blogs/?p=126041"  
    },  
    "description": "<div><img width=\"300\" height=\"200\" src=\"https://www.mcafee.com/wp-content/uploads/2021/08/300x200_RiseofDeepLearning.jpg\" class=\"attachment-medium size-medium wp-post-image\" alt=\"\" loading=\"lazy\" style=\"margin-bottom: 15px;\" srcset=\"https://www.mcafee.com/wp-content/uploads/2021/08/300x200_RiseofDeepLearning.jpg 300w, https://www.mcafee.com/wp-content/uploads/2021/08/300x200_RiseofDeepLearning-194x129.jpg 194w\" sizes=\"(max-width: 300px) 100vw, 300px\" /></div>\n<p>Co-written by Catherine Huang, Ph.D. and Abhishek Karnik Artificial Intelligence (AI) continues to evolve and has made huge progress over the last decade. AI shapes our daily lives. Deep learning is a subset of techniques in AI that...</p>\n<p>The post <a rel=\"nofollow\" href=\"https://www.mcafee.com/blogs/other-blogs/mcafee-labs/the-rise-of-deep-learning-for-detection-and-classification-of-malware/\">The Rise of Deep Learning for Detection and Classification of Malware</a> appeared first on <a rel=\"nofollow\" href=\"https://www.mcafee.com/blogs/\">McAfee Blogs</a>. </p>\n",  
    "title": "The Rise of Deep Learning for Detection and Classification of Malware",  
    "category": "McAfee Labs",  
    "content:encoded": "<div><img width=\"300\" height=\"200\" src=\"https://www.mcafee.com/wp-content/uploads/2021/08/300x200_RiseofDeepLearning.jpg\" class=\"attachment-medium size-medium wp-post-image\" alt=\"\" loading=\"lazy\" style=\"margin-bottom: 15px;\" srcset=\"https://www.mcafee.com/wp-content/uploads/2021/08/300x200_RiseofDeepLearning.jpg 300w, https://www.mcafee.com/wp-content/uploads/2021/08/300x200_RiseofDeepLearning-194x129.jpg 194w\" sizes=\"(max-width: 300px) 100vw, 300px\" /></div><p><span data-contrast=\"auto\">C</span><span data-contrast=\"auto\">o-written by Catherine Huang, Ph.D. and Abhishek Karnik</span><span data-ccp-props=\"{}\"> </span></p>\n<p><span data-contrast=\"auto\">Artificial Intelligence (AI) continues to evolve and has made huge progress over the last decade. AI shapes our daily lives. Deep learning is a subset of techniques in AI that extract patterns from data using neural networks. Deep learning has been applied to image segmentation, protein structure, machine translation, speech recognition and robotics. It has outperformed human champions in the game of </span><i><span data-contrast=\"auto\">Go</span></i><span data-contrast=\"auto\">.</span><span data-contrast=\"auto\">In recent years, deep learning has been applied to malware analysis. Different types of deep learning algorithms, such as convolutional neural networks (CNN), recurrent neural networks and Feed-Forward networks, have been applied to a variety of use cases in malware analysis using bytes sequence, gray-scale image, structural entropy, API call sequence, HTTP traffic and network behavior. </span><span data-ccp-props=\"{}\"> </span></p>\n<p><span data-contrast=\"auto\">Most traditional machine learning malware classification and detection approaches rely on handcrafted features. These features are selected based on experts with domain knowledge. Feature engineering can be a very time-consuming process, and handcrafted features may not generalize well to novel malware. In this blog, we briefly describe how we apply CNN on raw bytes for malware detection and classification in real-world data.</span><span data-ccp-props=\"{}\"> </span></p>\n<ol>\n- 

```

[300w](http://www.mcafee.com/wp-content/uploads/2021/08/Figure-1-CNNs-on-raw-bytes-for-malware-detection-and-classification-300x85.png), [768w](http://www.mcafee.com/wp-content/uploads/2021/08/Figure-1-CNNs-on-raw-bytes-for-malware-detection-and-classification-768x219.png), [205w](http://www.mcafee.com/wp-content/uploads/2021/08/Figure-1-CNNs-on-raw-bytes-for-malware-detection-and-classification-205x58.png)" sizes="(max-width: 846px) 100vw, 846px" /></p>\n<p>The motivation for applying deep learning is to identify new patterns in raw bytes. The novelty of this work is threefold. First, there is no domain-specific feature extraction and pre-processing. Second, it is an end-to-end deep learning approach. It can also perform end-to-end classification. And it can be a feature extractor for feature augmentation. Third, the explainable AI (XAI) provides insights on the CNN decisions and help human identify interesting patterns across malware families. As shown in Figure 1, the input is only raw bytes and labels. CNN performs representation learning to automatically learn features and classify malware. </p>\n<h4 style="padding-left: 40px; ">2. Experimental Results </h4>\n<p>For the purposes of our experiments with malware detection, we first gathered 833,000 distinct binary samples (Dirty and Clean) across multiple families, compilers and varying \u201cfirst-seen\u201d time periods. There were large groups of samples from common families although they did utilize varying packers, obfuscators. Sanity checks were performed to discard samples that were corrupt, too large or too small, based on our experiment. From samples that met our sanity check criteria, we extracted raw bytes from these samples and utilized them for conducting multiple experiments. The data was randomly divided into a training and a test set with an 80% / 20% split. We utilized this data set to run the three experiments. </p>\n<p>One observation with the initial run was that, after raw byte extraction from the 833,000 unique samples, we did find duplicate raw byte entries. This was primarily due to malware families that utilized hash-busting as an approach to polymorphism. Therefore, in our second experiment, we deduplicated the extracted raw byte entries. This reduced the raw byte input vector count to 262,000 samples. The test area under ROC was 0.9920. </p>\n<p>In our third experiment, we attempted multi-family malware classification. We took a subset of 130,000 samples from the original set and labeled 11 categories \u2013 the 0th were bucketed as Clean, 1-9 of which were malware families, and the 10th were bucketed as Others. Again, these 11 buckets contain samples with varying packers and compilers. We performed another 80 / 20% random split for the training set and test set. For this experiment, we achieved a test accuracy of 0.9700. The training and test time on one GPU was 26 minutes. </p>\n<h4 style="padding-left: 40px; ">3. Visual Explanation </h4>\n<figure id="attachment_126047" aria-describedby="caption-attachment-126047" style="width: 928px;" class="wp-caption aligncenter"><figcaption id="caption-attachment-126047" class="wp-caption-text">Figure 2: A visual explanation using T-SNE and PCA before and after the CNN training</figcaption>\n<p>To understand the CNN training process, we performed a visual analysis for the CNN training. Figure 2 shows the t-Distributed Stochastic Neighbor Embedding (t-SNE) and Principal Component Analysis (PCA) for before and after CNN training. We can see that after training, CNN is able to extract useful representations to capture characteristics of different types of malware as shown in different clusters. There was a good separation for most categories, lending us to believe that the algorithm was useful as a multi-class classifier. </p>\n<p>We then performed XAI to understand CNN\u2019s decisions. Figure 3 shows XAI heatmaps for one sample of Fareit and one sample of Emotet. The brighter the color is the more important the bytes contributing to the gradient activation in neural networks. Thus, those bytes are important to CNN\u2019s decisions. We were interested in understanding the bytes that weighed in heavily on the decision-making and reviewed some samples manually. </p>\n<figure id="attachment_126050" aria-describedby="caption-attachment-126050" style="width: 829px;" class="wp-caption aligncenter">

left-and-Emotet-right-768x559.png 768w, <https://www.mcafee.com/wp-content/uploads/2021/08/Figure-3-XAI-heatmaps-on-Fareit-left-and-Emotet-right-177x129.png> 177w\" sizes="(max-width: 829px) 100vw, 829px\" /><figcaption id=\"caption-attachment-126050\" class=\"wp-caption-text\">Figure 3: XAI heatmaps on Fareit (left) and Emotet (right)</figcaption></figure>\n<h4 style=\"padding-left: 40px;\">BCX0\" lang=\"EN-US\" xml:lang=\"EN-US\" data-contrast=\"auto\">To understand the ML decision and XAI </h4>\n<figure id=\"attachment_126053\" aria-describedby=\"caption-attachment-126053\" style=\"width: 1024px;\" class=\"wp-caption aligncenter\"><figcaption id=\"caption-attachment-126053\" class=\"wp-caption-text\">Figure 4: Human analysis on CNN\u2019s predictions</figcaption></figure>\n<p>To verify if the CNN can learn new patterns, we fed a few never before seen samples to the CNN , and requested a human expert to verify the CNN\u2019s decision on some random samples . The human analysis verified that the CNN was able to correctly identify many malware families . In some cases, it identified samples accurately before the to p 15 AV vendors based on our internal tests . Figure 4 shows a subset of samples that belong to the Nabucur family that were correctly categorized by the CNN despite having no vendor detection at that point in time . It \u2019s also interesting to note that o showed that the CNN was able to currently categorize malware samples across families utilizing common packers into an accurate family bucket . </p>\n<figure id=\"attachment_126056\" aria-describedby=\"caption-attachment-126056\" style=\"width: 1024px;\" class=\"wp-caption aligncenter\"><figcaption id=\"caption-attachment-126056\" class=\"wp-caption-text\">Figure 5: domain analysis on sample compiler</figcaption></figure>

compiler-205x31.png 205w, https://www.mcafee.com/wp-content/uploads/2021/08/Figure-5-domain-analysis-on-sample-compiler.png 1239w\" sizes="(max-width: 1024px) 100vw, 1024px\" /><figcaption id=\"caption-attachment-126056\" class=\"wp-caption-text\">Figure 5: domain analysis on sample compiler</figcaption></figure>\n<p>We ran domain analysis on the same sample compiler VB files. As shown in Figure 5, CNN was able to identify two samples of a threat family before other vendors. CNN agreed with MSMP/other vendors on two samples. In this experiment, the CNN incorrectly identified one sample as Clean. </p>\n<figure id=\"attachment_126059\" aria-describedby=\"caption-attachment-126059\" style=\"width: 523px\" class=\"wp-caption aligncenter\"><figcaption id=\"caption-attachment-126059\" class=\"wp-caption-text\">Figure 6: Human analysis on an XAI heatmap. Above is the resulting disassembly of part of the decryption tea algorithm from the Hiew tool.</figcaption></figure>\n<figure id=\"attachment_126062\" aria-describedby=\"caption-attachment-126062\" style=\"width: 418px\" class=\"wp-caption aligncenter\"><figcaption id=\"caption-attachment-126062\" class=\"wp-caption-text\">Above is XAI heatmap for one sample.</figcaption></figure>\n<p>We asked a human expert to inspect an XAI heatmap and verify if those bytes in bright color are associated with the malware family classification. Figure 6 shows one sample which belongs to the Sodinokibi family. The bytes identified by the XAI (c3 8b 4d 08 03 d1 66 c1) are interesting because the byte sequence belongs to part of the Tea decryption algorithm. This indicates these bytes are associated with the malware classification, which confirms the CNN can learn and help identify useful patterns which humans or other automation may have overlooked. Although these experiments were rudimentary, they were indicative of the effectiveness of the CNN in identifying unknown patterns of interest. </p>\n<p>In summary, the experimental results and visual explanations demonstrate that CNN can automatically learn PE raw byte representations. CNN raw byte model can perform end-to-end malware classification. CNN can be a feature extractor for feature augmentation. The CNN raw byte model has the potential to identify threat families before other vendors and identify novel threats. These initial results indicate that CNN\u2019s can be a very useful tool to assist automation and human researcher in analysis and classification. Although we still need to conduct a broader range of experiments, it is encouraging to know that our findings can already be applied for early threat triage, identification, and categorization which can be very useful for threat prioritization. </p>\n<p>We believe that McAfee\u2019s ongoing AI research, such as deep learning-based approaches, leads the security industry to tackle the evolving threat landscape, and we look forward to continuing to share our findings in this space with the security community. </p>\n<p>The post The Rise of Deep Learning for Detection and Classification of Malware appeared first on McAfee Blogs. </p>\n",
"pubDate": "Fri, 13 Aug 2021 00:50:48 +0000"
}
]

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
\$.title	Report.Value	N/A	\$.pubDate	The Rise of Deep Learning for Detection and Classification of Malware	N/A
\$.description	Report.Description	N/A	N/A	<div></div>	Formatted using generic description formatter
\$.link	Report.Attribute	Reference	\$.pubDate	https://www.mcafee.com/blogs/other-blogs/mcafee-labs/detection-and-classification-of-malware/	N/A
\$.dc:creator	Report.Attribute	Creator	\$.pubDate	McAfee Labs	N/A
\$.category	Report.Attribute	Category	\$.pubDate	McAfee Labs	N/A
\$.description	Indicator.Value	MD5	\$.pubDate	3449523cdf7ef61bfa8e86eac05ad27b	Parsed out of the description. The status of the indicator is Review.
\$.description	Indicator.Value	SHA-1	\$.pubDate	61c65d46eb23d8064692865f80e02f1b3bdac245	Parsed out of the description. The status of the indicator is Review.
\$.description	Indicator.Value	SHA-256	\$.pubDate	3ce665e28a4626973d252af6d1a6d969f378e2d9aaf120c0f862061fd6384b5e	Parsed out of the description. The status of the indicator is Review.
\$.description	Indicator.Value	SHA-512	\$.pubDate	827e4ba7de2b18d2a5a2ae0b03fd3933bf1fd0557b2de8a6a36d0f54c96c645fbec9bbcac18804bc619d537363d297415797cdaac7727e81e5035c5fb58ee9c4	Parsed out of the description. The status of the indicator is Review.
\$.description	Indicator.Value	CVE	\$.pubDate	CVE-2019-1458	Parsed out of the description. The status of the indicator is Review.
\$.description	Indicator.Value	IP Address	\$.pubDate	172.17.0.31	Parsed out of the description. The status of the indicator is Review.

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.

McAfee MVISION Insights Campaigns

METRIC	RESULT
Run Time	9 minutes
Campaigns	6
Campaign Attributes	116
Adversaries	2
Indicators	7,211
Indicator Attributes	42,476
Malware	4
Tools	19

McAfee MVISION ePO Events

METRIC	RESULT
Run Time	1 minute
Assets	2
Asset Attributes	26
Indicators	2
Events	2
Event Attributes	10

McAfee MVISION Insights Events

METRIC	RESULT
Run Time	1 minute
Assets	2
Asset Attributes	26
Indicators	2
Campaigns	2
Campaign Attributes	10

McAfee MVISION Threat Research

METRIC	RESULT
Run Time	1 minute
Reports	10
Report Attributes	32
Indicators	53

Known Issues / Limitations

- If the McAfee MVISION ePO Events feed is run for multiple days, the Activity Log will display one run per day.



Performing a run for January 17-19, the Activity Log will display two runs, one for January 17-18 and one for January 18-19.

Change Log

- **Version 1.0.1 rev-a (Guide Update)**
 - Updated the Prerequisites chapter regarding the Asset object. ThreatQ version 5.10.0 introduced the Asset object as a seeded default system object. Users on ThreatQ 5.10.0 or later do not have to install the Asset custom object prior to installing the integration.
- **Version 1.0.1**
 - Fixed a Severity Attribute ingestion bug for McAfee MVISION ePO Events feed.
- **Version 1.0.0**
 - Initial release