

ThreatQuotient



VMWare Carbon Black Cloud Platform Alerts CDF Guide

Version 1.0.2

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ThreatQuotient

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Versioning

- Current integration version: 1.0.2
- Supported on ThreatQ versions $\geq 4.25.0$

Introduction

The VMWare Carbon Black Cloud Platform Alerts CDF for ThreatQ allows a user to ingest alerts from their Carbon Black Cloud instance in ThreatQ.

Installation

Perform the following steps to install the integration:



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

1. Log into <https://marketplace.threatq.com/>.
2. Locate and download the integration file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the integration file on your local machine



ThreatQ will inform you if the feed already exists on the platform and will require user confirmation before proceeding. ThreatQ will also inform you if the new version of the feed contains changes to the user configuration. The new user configurations will overwrite the existing ones for the feed and will require user confirmation before proceeding.

6. If prompted, select the individual feeds to install and click **Install**. The feed will be added to the integrations page.

You will still need to [configure and then enable the feed](#).

Configuration



ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other feed-related credentials.

To configure the feed:

1. Navigate to your integrations management page in ThreatQ.
2. Select the **Commercial** tab (optional).



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

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

PARAMETER	DESCRIPTION
Carbon Black Cloud Platform API Host	Enter the FQDN for your Carbon Black Cloud Platform instance (i.e., without protocol).
Organization Key	Your Organization Key, as displayed in the Carbon Black Cloud Platform instance.
API Key	Your API ID, as displayed in the Carbon Black Cloud Platform instance.
API Secret Key	Your API Secret Key, as displayed in the Carbon Black Cloud Platform instance.
Query	An optional Carbon Black search query to filter the incoming alerts. See the Carbon Black documentation for information on how to write a Carbon Black query.
Minimum Severity	The minimum severity for an alert to be ingested in ThreatQ.

PARAMETER	DESCRIPTION
Target Values	One or more target values to filter the incoming alerts.
Categories	One or more categories to filter the incoming alerts.

5. Review the **Settings** configuration, 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

VMWare Carbon Black Cloud Platform Alerts

This feed will ingest alerts as incidents from a VMware Carbon Black Cloud instance. It will also ingest and relate any indicators, MITRE Att&ck Attack Patterns, and TTPs.

GET https://{{user_fields.api_host}}/appservices/v6/orgs/{{user_fields.org_key}}/alerts/_search

```
{
  "num_found": 107,
  "results": [
    {
      "blocked_threat_category": "UNKNOWN",
      "category": "MONITORED",
      "create_time": "2020-04-13T12:56:25.905Z",
      "created_by_event_id": "2a18cf757d8611eababcb989b304c3ec",
      "device_id": 3350047,
      "device_location": "OFFSITE",
      "device_name": "GL-AV-731XM-1",
      "device_os": "WINDOWS",
      "device_os_version": "Server 2012 R2 x64",
      "device_username": "sakshi.rawal@logrhythm.com",
      "first_event_time": "2020-04-13T12:55:30.768Z",
      "group_details": {
        "count": 1,
        "total_devices": 1
      },
      "id": "33500472a18cf757d8611eababcb989b304c3ec",
      "kill_chain_status": [
        "INSTALL_RUN"
      ],
      "last_event_time": "2020-04-13T12:55:30.768Z",
      "last_update_time": "2020-04-13T12:56:25.905Z",
      "legacy_alert_id": "QME48KBB",
      "not_blocked_threat_category": "NON_MALWARE",
      "notes_present": false,
      "org_key": "7DESJ9GN",
      "policy_applied": "NOT_APPLIED",
      "policy_id": 36161,
      "policy_name": "documentation CB5788",
      "process_name": "java.exe",
      "reason": "A hidden process for java.exe has been detected. This may indicate the presence of a Rootkit.",
      "reason_code": "R_HIDDEN",
      "run_state": "RAN",
      "sensor_action": null,
      "severity": 4,
      "tags": null,
      "target_value": "LOW",
      "threat_activity_c2": "NOT_ATTEMPTED",
      "threat_activity_dlp": "NOT_ATTEMPTED",
      "threat_activity_phish": "NOT_ATTEMPTED",
      "threat_cause_actor_name": null,
      "threat_cause_actor_process_pid": "79792-132312531086826897-0",
      "threat_cause_actor_sha256": "fafc81c87ae51525893d7e77c52f1aaed9444f1cb8f67601ba23c7e0530ee5db",
      "threat_cause_cause_event_id": "2a18cf757d8611eababcb989b304c3ec",
      "threat_cause_reputation": "TRUSTED_WHITE_LIST",
      "threat_cause_threat_category": "NON_MALWARE",
      "threat_cause_vector": "UNKNOWN",
    }
  ]
}
```

```
"threat_id": "992881090b32cabfa37ab44be4d419b2",
"threat_indicators": [
  {
    "process_name": "java.exe",
    "sha256": "fafc81c87ae51525893d7e77c52f1aaed9444f1cb8f67601ba23c7e0530ee5db",
    "ttps": [
      "MITRE_T1158_HIDDEN_FILES_AND_DIRECTORIES"
    ]
  },
  {
    "process_name": "java.exe",
    "sha256": "fafc81c87ae51525893d7e77c52f1aaed9444f1cb8f67601ba23c7e0530ee5db",
    "ttps": [
      "HIDDEN_PROCESS"
    ]
  }
],
"type": "CB_ANALYTICS",
"workflow": {
  "changed_by": "Carbon Black",
  "comment": null,
  "last_update_time": "2020-04-13T12:56:25.905Z",
  "remediation": null,
  "state": "OPEN"
}
},
{
  "blocked_threat_category": "NON_MALWARE",
  "category": "THREAT",
  "create_time": "2020-04-10T19:25:18.779Z",
  "created_by_event_id": "fe021e807b6011ea8b807b3f272bca5a",
  "device_id": 3238121,
  "device_location": "OFFSITE",
  "device_name": "DESKTOP-7I73LFA",
  "device_os": "WINDOWS",
  "device_os_version": "Windows 10 x64",
  "device_username": "rfortress@vmware.com",
  "first_event_time": "2020-04-10T19:23:15.464Z",
  "group_details": {
    "count": 3,
    "total_devices": 1
  },
  "id": "3238121fe021e807b6011ea8b807b3f272bca5a",
  "kill_chain_status": [
    "INSTALL_RUN"
  ],
  "last_event_time": "2020-04-12T23:18:42.072Z",
  "last_update_time": "2020-04-10T19:26:20.740Z",
  "legacy_alert_id": "HNZW3ZEZ",
  "not_blocked_threat_category": "UNKNOWN",
  "notes_present": false,
  "org_key": "7DESJ9GN",
  "policy_applied": "APPLIED",
  "policy_id": 6529,
  "policy_name": "Restrictive_Windows_Workstation",
  "process_name": "sample.exe",
  "reason": "The application sample.exe was detected running. A Terminate Policy Action was applied.",
  "reason_code": "T_POL_TERM : sample.exe",
  "run_state": "RAN",
  "sensor_action": "DENY",
  "severity": 3,
  "tags": null,
  "target_value": "MEDIUM",
  "threat_activity_c2": "NOT_ATTEMPTED",
  "threat_activity_dlp": "NOT_ATTEMPTED",
  "threat_activity_phish": "NOT_ATTEMPTED",
  "threat_cause_actor_name": null,
  "threat_cause_actor_process_pid": "5180-1585321534989-1",
  "threat_cause_actor_sha256": "87e2a0bec31622be040c81657fb1dfac1624a854e9e78abf88edcc078a322298",
```

```
"threat_cause_cause_event_id": "fe021e807b6011ea8b807b3f272bca5a",
"threat_cause_reputation": "NOT_LISTED",
"threat_cause_threat_category": "NEW_MALWARE",
"threat_cause_vector": "UNKNOWN",
"threat_id": "e9f3d0e42410a0effd5aab1648db9653",
"threat_indicators": [
  {
    "process_name": "explorer.exe",
    "sha256": "c5e88d778c0b118d49bef467ed059c09b61deea505d2a3d5ca1dcc0a5cdf752f",
    "ttps": [
      "POLICY_DENY"
    ]
  },
  {
    "process_name": "explorer.exe",
    "sha256": "c5e88d778c0b118d49bef467ed059c09b61deea505d2a3d5ca1dcc0a5cdf752f",
    "ttps": [
      "RUN_UNKNOWN_APP"
    ]
  },
  {
    "process_name": "sample.exe",
    "sha256": "87e2a0bec31622be040c81657fb1dfac1624a854e9e78abf88edcc078a322298",
    "ttps": [
      "UNKNOWN_APP"
    ]
  },
  {
    "process_name": "sample.exe",
    "sha256": "87e2a0bec31622be040c81657fb1dfac1624a854e9e78abf88edcc078a322298",
    "ttps": [
      "POLICY_TERMINATE"
    ]
  }
],
"type": "CB_ANALYTICS",
"workflow": {
  "changed_by": "Carbon Black",
  "comment": null,
  "last_update_time": "2020-04-10T19:25:18.779Z",
  "remediation": null,
  "state": "OPEN"
}
}
]
```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.results[].reason	Incident.Value	Incident	.results[].created_time	Alert: Recorded Future - 2020-07-05T18:35:33.808Z	The creation time of the alert is concatenated to the "reason"
.results[].first_event_time	Incident.StartedAt	N/A	N/A	2020-07-05T18:35:33.808Z	N/A
.results[].last_event_time	Incident.EndedAt	N/A	N/A	2020-07-05T18:35:33.808Z	N/A
.results[].category	Indicator.Attribute, Incident.Attribute	Category	.results[].created_time	THREAT	UNKNOWN values are not ingested
.results[].kill_chain_status[]	Indicator.Attribute, Incident.Attribute	Kill Chain Status	.results[].created_time	INSTALL_RUN	N/A
.results[].severity	Indicator.Attribute, Incident.Attribute	Severity	.results[].created_time	9	N/A
.results[].tags[]	Indicator.Attribute, Incident.Attribute	Tag	.results[].created_time	.results[].created_time	N/A
.results[].target_value	Indicator.Attribute, Incident.Attribute	Target Value	.results[].created_time	HIGH	UNKNOWN values are not ingested
.results[].threat_activity_c2	Indicator.Attribute, Incident.Attribute	C2 Activity	.results[].created_time	Yes	UNKNOWN values are not ingested
.results[].threat_activity_dlp	Indicator.Attribute, Incident.Attribute	DLP Activity	.results[].created_time	No	UNKNOWN values are not ingested
.results[].threat_activity_phish	Indicator.Attribute, Incident.Attribute	Phishing Activity	.results[].created_time	No	UNKNOWN values are not ingested
.results[].threat_cause_reputation	Indicator.Attribute, Incident.Attribute	Threat Cause Reputation	.results[].created_time	ADAPTIVE_WHITE_LIST	UNKNOWN values are not ingested
.results[].threat_cause_threat_category	Indicator.Attribute, Incident.Attribute	Threat Cause Threat Category	.results[].created_time	NEW_MALWARE	UNKNOWN values are not ingested
.results[].threat_cause_actor_name	Indicator.Attribute, Incident.Attribute	Threat Cause Actor Name	.results[].created_time	Virus: Mimikatz	N/A
.results[].threat_cause_vector	Indicator.Attribute, Incident.Attribute	Threat Cause Vector	.results[].created_time	WEB	N/A
.results[].blocked_threat_category	Indicator.Attribute, Incident.Attribute	Blocked Threat Category	.results[].created_time	NEW_MALWARE	UNKNOWN values are not ingested
.results[].device_id	Incident.Attribute	Device ID	.results[].created_time	12345	N/A
.results[].device_location	Incident.Attribute	Device Location	.results[].created_time	OFFSITE	UNKNOWN values are not ingested
.results[].device_name	Incident.Attribute	Device Name	.results[].created_time	GL-AV-731XM-1	UNKNOWN values are not ingested
.results[].device_os	Incident.Attribute	Device Operating System	.results[].created_time	WINDOWS	UNKNOWN values are not ingested

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.results[].device_os_version	Incident.Attribute	Device Operating System Version	.results[].created_time	Server 2012 R2 x64	UNKNOWN values are not ingested
.results[].device_username	Incident.Attribute	Device Username	.results[].created_time	sakshi.rawal@logrhythm.com	UNKNOWN values are not ingested
.results[].not_blocked_threat_category	Incident.Attribute	Not Blocked Threat Category	.results[].created_time	NON_MALWARE	N/A
.results[].policy_applied	Incident.Attribute	Policy Applied	.results[].created_time	Yes	Always one of Yes, No, converted from APPLIED or NOT APPLIED; UNKNOWN values are not ingested
.results[].policy_name	Incident.Attribute	Policy Name	.results[].created_time	documentation CB5788	UNKNOWN values are not ingested
.results[].reason	Incident.Attribute	Reason	.results[].created_time	Recorded Future	UNKNOWN values are not ingested
.results[].reason_code	Incident.Attribute	Reason Code	.results[].created_time	R_HIDDEN	UNKNOWN values are not ingested
.results[].run_state	Incident.Attribute	Run State	.results[].created_time	RAN	UNKNOWN values are not ingested
.results[].sensor_action	Incident.Attribute	Sensor Action	.results[].created_time	DENY	N/A
.results[].threat_indicators[].process_name	Incident.Attribute	Process Involved	.results[].created_time	explorer.exe	N/A
.results[].type	Incident.Attribute	Carbon Black Type	.results[].created_time	CB_ANALYTICS	N/A
.results[].group_details.count	Incident.Attribute	Group Count	.results[].created_time	2	N/A
.results[].first_event_time	Incident.Attribute	First Event Time	.results[].created_time	2020-07-05T18:35:33.080Z	N/A
.results[].id	Incident.Attribute	Alert Link	.results[].created_time	N/A	Formatted from user fields and response data
.results[].threat_cause_actor_sha256	Indicator.Value	SHA-256	.results[].created_time	FA4F71314F1D8587604B79 149880618B95017F0CCF11 E2DDC372BCCC32A7CF8B	N/A
.results[].threat_indicators[].ttps[]	AttackPattern.Value	Attack Pattern	N/A	T1075 - Pass the Hash	Only related to an Incident if the ThreatQ instance has available MITRE ATT&CK Attack Pattern data.
.results[].threat_indicators[].ttps[]	TTP.Value	TTP	N/A	RUN_UNKNOWN_APP	Non-MITRE Attack TTPs

Average Feed Run

Average Feed Run results for VMWare Carbon Black Cloud Platform Alerts (with minimum severity = 5, and all categories and target values selected):

METRIC	RESULT
Run Time	< 1 minute
Indicators	7
Indicator Attributes	70
Incidents	55
Incident Attributes	1050
TTPs	70



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.

Known Issues/Limitations

MITRE ATT&CK attack patterns must have already been ingested by a previous run of the MITRE ATT&CK feeds in order for MITRE ATT&CK attack patterns extracted from an Incident to be related to the Incident object. MITRE ATT&CK attack patterns are ingested from the following feeds:

- MITRE Enterprise ATT&CK
- MITRE Mobile ATT&CK
- MITRE PRE-ATT&CK

Change Log

- Version 1.0.2
 - Deleted empty request parameter which resulted in API error response.
- **Version 1.0.1**
 - Change UI configuration parameter from Organization ID to Organization Key
- **Version 1.0.0**
 - Initial release