

ThreatQuotient



Tenable.sc CDF

Version 1.1.0

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ThreatQuotient

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Support

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

Support Email: support@threatq.com

Support Web: <https://support.threatq.com>

Support Phone: 703.574.9893

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.1.0
Compatible with ThreatQ Versions	>= 5.29.0
Support Tier	ThreatQ Supported

Introduction

The Tenable.SC CDF captures vulnerability data from Tenable.sc and ingests it into the ThreatQ platform. Additionally, users have the option to configure the integration to ingest IP Addresses from Tenable.sc as Assets in ThreatQ and relate them back to the relevant vulnerabilities.

The integration provides the following feeds:

- **Tenable.sc Vulnerabilities** - Collects vulnerabilities from Tenable.sc from a specific historical period.
- **Get Tenable.sc IP Assets (Supplemental)** - Collects IP Addresses Assets from Tenable.sc from a specific historical period.
- **Get Tenable.sc CVEs (Supplemental)** - Collects CVEs from Tenable.sc and ingests them into ThreatQ as Vulnerabilities or Indicators, based on user selection.

The integration ingests the following object types:

- Assets
- Indicators
- Vulnerabilities

Prerequisites

You will need the following to run the integration:

- API access and secret keys for a Tenable.sc account with the privileges to see vulnerability scans.

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 yaml file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration yaml file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the 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 **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
Tenable.sc Host	The hostname or IP address for the Tenable.sc server. The scheme is not required.
API Access Key	The API access key for the user that has privileges to access scan result and vulnerability data.
API Secret Key	The secret key associated with the API access key above.
Enable Capture of Asset Information	Enable this parameter to ingest all the related alerts even if they do not satisfy the previously configured filters.
Severity Selection	Select Minimum Severity for search filters. Options include: • Critical • High • Medium • Low (<i>default</i>) • Info
Exploitability Selection	Select whether to search for exploitable in search filters. Options include: ◦ No ◦ Yes

PARAMETER	DESCRIPTION
	◦ Both (<i>default</i>)
Context Filter	Select one or more pieces of context to bring into ThreatQ with the vulnerability. Options include: ◦ Repository (<i>default</i>) ◦ Cross-Reference (<i>default</i>) ◦ See Also Link ◦ Plugin Output
Ingest CVEs As	Select the ThreatQ object type to ingest the CVEs into ThreatQ. Options include Indicators and Vulnerabilities (<i>default</i>).
Disable Proxies	Enable this option if the feed should not honor proxies set in the ThreatQ UI.
Enable SSL Verification	Enable this for the feed to validate the host-provided SSL certificate.

← Tenable.sc Vulnerabilities



Disabled ☐ Enabled

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration Activity Log

Authentication

Tenable.sc Host

The resolvable host name or IP of the Tenable.sc server

API Access Key

Enter the API access key

API Secret Key

Enter the API secret key

Data Filtering

☐ Enable Capture of Asset Information

When enabled the feed ingests all the related alerts even if they do not satisfy the previously configured filters.

Severity Selection

Low

Select Minimum Severity for search filters

Exploitability Selection

Both

Select to search for Exploitable in search filters

Ingestion Options

Context Filter

Select one or more pieces of context to bring into ThreatQ with the vulnerability

☒ Repository

☒ Cross-Reference

☐ See Also Link

☐ Plugin Output

Ingest CVEs As...

Vulnerabilities

Select the ThreatQ object type to ingest the CVEs into ThreatQ as.

☒ Enable SSL Verification

☐ Disable Proxies

If true, specifies that this feed should not honor any proxies setup in ThreatQuotient

Set indicator status to...

Active

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

Tenable.sc Vulnerabilities

The Tenable.sc Vulnerabilities feed collects vulnerabilities from Tenable.sc from a specific historical period.

POST {host}/rest/analysis

Sample Request:

```
{
  "query": {
    "filters": [
      {
        "filterName": "lastSeen",
        "operator": "=",
        "value": "1716460215-1716892215"
      },
      {
        "filterName": "severity",
        "operator": "=",
        "value": "0,1,2,3,4"
      }
    ],
    "tool": "vulndetails",
    "type": "vuln"
  },
  "sourceType": "cumulative",
  "type": "vuln",
  "startOffset": "0",
  "endOffset": "100"
}
```

Sample Response:

```
{
  "type": "regular",
  "response": {
    "totalRecords": "1474560",
    "returnedRecords": 50,
    "startOffset": "0",
    "endOffset": "50",
    "matchingDataElementCount": "-1",
    "results": [
      {
        "pluginID": "145570",
        "severity": {
          "id": "3",

```

```

    "name": "High",
    "description": "High Severity"
  },
  "hasBeenMitigated": "0",
  "acceptRisk": "0",
  "recastRisk": "0",
  "ip": "0.0.137.85",
  "uuid": "11060ddf-bf0c-44a3-a240-09b0fe187433",
  "port": "0",
  "protocol": "TCP",
  "pluginName": "CentOS 8 : sudo (CESA-2021:0218)",
  "firstSeen": "1685505909",
  "lastSeen": "1716537289",
  "exploitAvailable": "Yes",
  "exploitEase": "Exploits are available",
  "exploitFrameworks": "Canvas (CANVAS), Metasploit (Sudo Heap-Based Buffer Overflow), Core Impact, malware",
  "synopsis": "The remote CentOS host is missing a security update.",
  "description": "The remote CentOS Linux 8 host has a package installed that is affected by a vulnerability as referenced in the CESA-2021:0218 advisory.\n\n - sudo: Heap buffer overflow in argument parsing (CVE-2021-3156)\n\nNote that Nessus has not tested for this issue but has instead relied only on the application's self-reported version number.",
  "solution": "Update the affected sudo package.",
  "seeAlso": "https://access.redhat.com/errata/RHSA-2021:0218",
  "riskFactor": "High",
  "stigSeverity": "I",
  "vprScore": "9.7",
  "vprContext": "[{"id": "age_of_vuln", "name": "Vulnerability Age", "type": "string", "value": "730 days +"}, {"id": "cvssV3_impactScore", "name": "CVSS v3 Impact Score", "type": "number", "value": 5.9}, {"id": "exploit_code_maturity", "name": "Exploit Code Maturity", "type": "string", "value": "High"}, {"id": "product_coverage", "name": "Product Coverage", "type": "string", "value": "Very High"}, {"id": "threat_intensity_last_28", "name": "Threat Intensity", "type": "string", "value": "Very Low"}, {"id": "threat_recency", "name": "Threat Recency", "type": "string", "value": "No recorded events"}, {"id": "threat_sources_last_28", "name": "Threat Sources", "type": "string", "value": "Security Research"}],
  "baseScore": "7.2",
  "temporalScore": "6.3",
  "cvssVector": "AV:L/AC:L/Au:N/C:C/I:C/A:C/E:H/RL:OF/RC:C",
  "cvssV3BaseScore": "7.8",
  "cvssV3TemporalScore": "7.5",
  "cvssV3Vector": "AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:H/RL:O/RC:C",
  "cpe": "cpe:/o:centos:centos:8<br/>cpe:/o:centos:centos:8-stream<br/>p-cpe:/a:centos:centos:sudo",
  "vulnPubDate": "1611576000",
  "patchPubDate": "1611662400",
  "pluginPubDate": "1611921600",

```

```

        "pluginModDate": "1674043200",
        "checkType": "local",
        "version": "1.11",
        "cve": "CVE-2021-3156",
        "bid": "",
        "xref": "RHSA #2021:0218, IAVA #2021-A-0053, CISA-KNOWN-EXPLOITED
#2022/04/27",
        "seolDate": "-1",
        "pluginText": "<plugin_output>\nRemote package installed :
sudo-1.8.25p1-4.el8\nShould be                               : sudo-1.8.29-6.el8_3.1\n\n</
plugin_output>",
        "dnsName": "",
        "macAddress": "00:00:00:7e:3e:0f",
        "netbiosName": "",
        "operatingSystem": "Linux Kernel 4.18.0-80.11.2.el8_0.x86_64 on
CentOS Linux release 8.0.1905 (Core)",
        "ips": "0.0.137.85",
        "recastRiskRuleComment": "",
        "acceptRiskRuleComment": "",
        "hostUniqueness": "repositoryID,ip,dnsName",
        "hostUUID": "",
        "acrScore": "4.0",
        "keyDrivers": "{\"internet exposure\":\"internal\", \"device
capability\":\"\", \"device type\":\"general_purpose\"}",
        "assetExposureScore": "619",
        "vulnUniqueness": "repositoryID,ip,port,protocol,pluginID",
        "vulnUUID": "",
        "uniqueness": "repositoryID,ip,dnsName",
        "family": {
            "id": "18",
            "name": "CentOS Local Security Checks",
            "type": "active"
        },
        "repository": {
            "id": "2",
            "name": "Staged-Large",
            "description": "",
            "dataFormat": "IPv4"
        },
        "pluginInfo": "145570 (0/6) CentOS 8 : sudo (CESA-2021:0218)"
    }
}
    ],
    "error_code": 0,
    "error_msg": "",
    "warnings": [],
    "timestamp": 1716810557
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.pluginName	Vulnerability Value	N/A	pluginPub Date	CentOS 8 : sudo (CESA-2021:0218)	N/A
.synopsis+ .description+ .solution+ .pluginText	Vulnerability Description	N/A	pluginPub Date	The remote CentOS host is missing a security update....	.pluginText is User- configurable.
.cve	Related Vulnerability/ Related Indicator	N/A	pluginPub Date	CVE-2021-3156	Value is split by ",". Object type is based on Ingest CVEs As... selection
.riskFactor	Vulnerability Attribute	Risk Factor	pluginPub Date	High	Updatable.
.vprScore	Vulnerability Attribute	Vulnerability Priority Rating	pluginPub Date	9.7	Updatable.
.baseScore	Vulnerability Attribute	CVSS v2 Base Score	pluginPub Date	7.2	Updatable.
.cvssV3BaseScore	Vulnerability Attribute	CVSS v3 Base Score	pluginPub Date	7.8	Updatable.
.temporalScore	Vulnerability Attribute	CVSS v2 Temporal Score	pluginPub Date	7.5	Updatable.
.severity.name	Vulnerability Attribute	Severity	pluginPub Date	High	Updatable.
.cvssVector	Vulnerability Attribute	CVSS v2 Vector	pluginPub Date	AV:L/AC:L/Au:N/C:C/ I:C/A:C/E:H/RL:OF/RC:C	N/A
.cvssV3Vector	Vulnerability Attribute	CVSS v3 Vector	pluginPub Date	AV:L/AC:L/PR:L/UI:N/ S:U/C:H/I:H/A:H/E:H/ RL:O/RC:C	N/A
.firstSeen	Vulnerability Attribute	First Seen	pluginPub Date	1685505909	Timestamp formatted. Updatable
.lastSeen	Vulnerability Attribute	Last Seen	pluginPub Date	1716537289	Timestamp formatted. Updatable
.pluginModDate	Vulnerability Attribute	Last Modified	pluginPub Date	1674043200	Timestamp formatted. Updatable
.pluginInfo	Vulnerability Attribute	Plugin Information	pluginPub Date	145570 (0/6) CentOS 8 : sudo (CESA-2021:0218)	N/A
.pluginID	Vulnerability Attribute	Plugin ID	pluginPub Date	145570	N/A
.family.name	Vulnerability Attribute	Family	pluginPub Date	CentOS Local Security Checks	N/A
.version	Vulnerability Attribute	Version	pluginPub Date	1.11	N/A
.checkType	Vulnerability Attribute	Type	pluginPub Date	local	Updatable.
.patchPubDate	Vulnerability Attribute	Patch Published Date	pluginPub Date	1611662400	Timestamp formatted. Updatable.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.exploitAvailable</code>	Vulnerability Attribute	Exploit Available	<code>pluginPub Date</code>	Yes	N/A
<code>.exploitEase</code>	Vulnerability Attribute	Exploitability Ease	<code>pluginPub Date</code>	Exploits are available	N/A
<code>.vulnPubDate</code>	Vulnerability Attribute	Vulnerability Publish Date	<code>pluginPub Date</code>	1611576000	If value is greater than 0. Timestamp formatted. Updatable.
<code>.cpe</code>	Vulnerability Attribute	CPE	<code>pluginPub Date</code>	<code>cpe:/ o:centos:centos:8<br/ >cpe:/ o:centos:centos:8- stream
p-cpe:/ a:centos:centos:sudo</code>	N/A
<code>.repository.name</code>	Vulnerability Attribute	Repository	<code>pluginPub Date</code>	Staged-Large	User-configurable.
<code>.xref</code>	Vulnerability Attribute	Cross-Reference	<code>pluginPub Date</code>	RHSA #2021:0218	User-configurable.
<code>.seeAlso</code>	Vulnerability Attribute	See Also Link	<code>pluginPub Date</code>	<code>https:// access.redhat.com/ errata/RHSA-2021:0218</code>	User-configurable.

Get Tenable.sc IP Assets (Supplemental)

The Get Tenable.sc IP Assets supplemental feed collects IP Address Assets from Tenable.sc from a specific historical period.

GET {host}/rest/analysis

Sample Request:

```
{
  "type": "vuln",
  "sourceType": "cumulative",
  "query": {
    "tool": "vulnipdetail",
    "type": "vuln",
    "filters": [
      {
        "filterName": "lastSeen",
        "operator": "=",
        "value": "1716368655-1716455055"
      }
    ],
    "startOffset": 0,
    "endOffset": 100
  }
}
```

Sample Response:

```
{
  "type": "regular",
  "response": {
    "totalRecords": "1321",
    "returnedRecords": 50,
    "startOffset": "0",
    "endOffset": "50",
    "matchingDataElementCount": "4374",
    "results": [
      {
        "pluginID": "10107",
        "total": "14",
        "severity": {
          "id": "0",
          "name": "Info",
          "description": "Informative"
        },
        "name": "HTTP Server Type and Version",
        "pluginDescription": "This plugin attempts to determine the type and the version of the remote web server.",
        "hosts": [
          {
```

```

    "iplist": [
      {
        "ip": "10.238.64.1",
        "uuid": "",
        "hostUUID": "",
        "macAddress": "00:16:3e:a1:12:f7",
        "netbiosName": "",
        "dnsName": "_gateway.incus",
        "acrScore": "6.0",
        "assetExposureScore": "497"
      }
    ],
    "repository": {
      "id": "1",
      "name": "Live",
      "description": "",
      "dataFormat": "IPv4"
    }
  },
  "family": {
    "id": "11",
    "name": "Web Servers",
    "type": "active"
  }
},
"error_code": 0,
"error_msg": "",
"warnings": [],
"timestamp": 1716897653
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.name	Vulnerability Value	N/A	N/A	HTTP Server Type and Version	N/A
.hosts.iplist.ip	Related Asset Value	N/A	N/A	10.238.64.1	N/A
.hosts.iplist.net biosName	Related Asset Attribute	NetBIOS Name	N/A	N/A	N/A
.hosts.iplist.dns Name	Related Asset Attribute	DNS	N/A	_gateway.incus	N/A
.hosts.iplist.mac Address	Asset Attribute	MAC Address	N/A	00:16:3e:a1:12:f7	N/A

Get Tenable.sc CVEs (Supplemental)

The Get Tenable.sc CVEs supplemental feed collects CVEs from Tenable.sc and ingests them into ThreatQ as Vulnerabilities or Indicators, based on user selection.

GET {host}/rest/analysis

Sample Request:

```
{
  "type": "vuln",
  "sourceType": "cumulative",
  "query": {
    "tool": "cveipdetail",
    "type": "vuln",
    "filters": [
      {
        "filterName": "lastSeen",
        "operator": "=",
        "value": "1211241600-1716336000"
      }
    ],
    "startOffset": 0,
    "endOffset": 100
  }
}
```

Sample Response:

```
{
  "type": "regular",
  "response": {
    "totalRecords": "788",
    "returnedRecords": 788,
    "startOffset": "0",
    "endOffset": "1000",
    "matchingDataElementCount": "788",
    "results": [
      {
        "cveID": "CVE-1999-0524",
        "total": "52",
        "hosts": [
          {
            "repositoryID": "1",
            "iplist": [
              {
                "ip": "10.238.64.1",
                "uuid": "",
                "hostUUID": "",
                "macAddress": "00:16:3e:a1:12:f7",
                "netbiosName": ""
              }
            ]
          }
        ]
      }
    ]
  }
}
```

```

        "dnsName": "_gateway.incus"
      }
    ]
  },
],
},
"error_code": 0,
"error_msg": "",
"warnings": [],
"timestamp": 1716894002
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.cveID	Vulnerability Value	N/A	N/A	CVE-1999-0524	N/A
.hosts.iplist.ip	Related Asset Value	N/A	N/A	10.238.64.1	N/A
.hosts.iplist.netbiosName	Related Asset Attribute	NetBIOS Name	N/A	N/A	N/A
.hosts.iplist.dnsName	Related Asset Attribute	DNS	N/A	_gateway.incus	N/A
.hosts.iplist.macAddresses	Asset Attribute	MAC Address	N/A	00:16:3e:a1:12:f7	N/A

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	2 min
Assets	28
Asset Attributes	57
Indicators	100
Vulnerabilities	114
Vulnerability Attributes	668

Known Issues / Limitations

- The initial run of the feed will retrieve data last discovered today. Because of the way the historical filtering is done, the minimum time interval of the requests is 1 day. ThreatQuotient advises scheduling the feed for a minimum of 24 hours.

Change Log

- **Version 1.1.0**
 - Added update rules for the `First Seen` and `Last Seen` attributes.
 - Added the following configuration parameter:
 - **Context Filter** - select one or more pieces of context, such as `Cross-Reference` and `See Also Link`, to bring into ThreatQ with the vulnerability.
- **Version 1.0.1**
 - Added two new configuration options:
 - Enable SSL Verification
 - Disable Proxies
- **Version 1.0.0**
 - Initial release