ThreatQuotient

A Securonix Company

SecurityScorecard CDF

Version 1.0.1

January 16, 2026

ThreatQuotient
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ThreatQ Supported

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Contents

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

Support Email: tq-support@securonix.com
Support Web: https://ts.securonix.com
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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.0.1
Compatible with ThreatQ Versions	>= 5.12.0
Support Tier	ThreatQ Supported

Introduction

The SecurityScorecard CDF for ThreatQ enables analysts to automatically ingest scorecard summaries and events into ThreatQ.

The integration provides the following feeds:

- **SecurityScorecard Summary Reports** - pulls scorecard reports for registered domains, into ThreatQ.
- **SecurityScorecard Events** - pulls events for a given domain.

The integration ingests the following system objects:

- Assets
  - Asset Attributes
- Events
  - Event Attributes
- Indicators
  - Indicator Attributes

Prerequisites

The following is required to run the integration:

- A Security Scorecard license.
- A Security Scorecard API key.

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 yaml 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. Select the individual feeds to install, when prompted, 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).

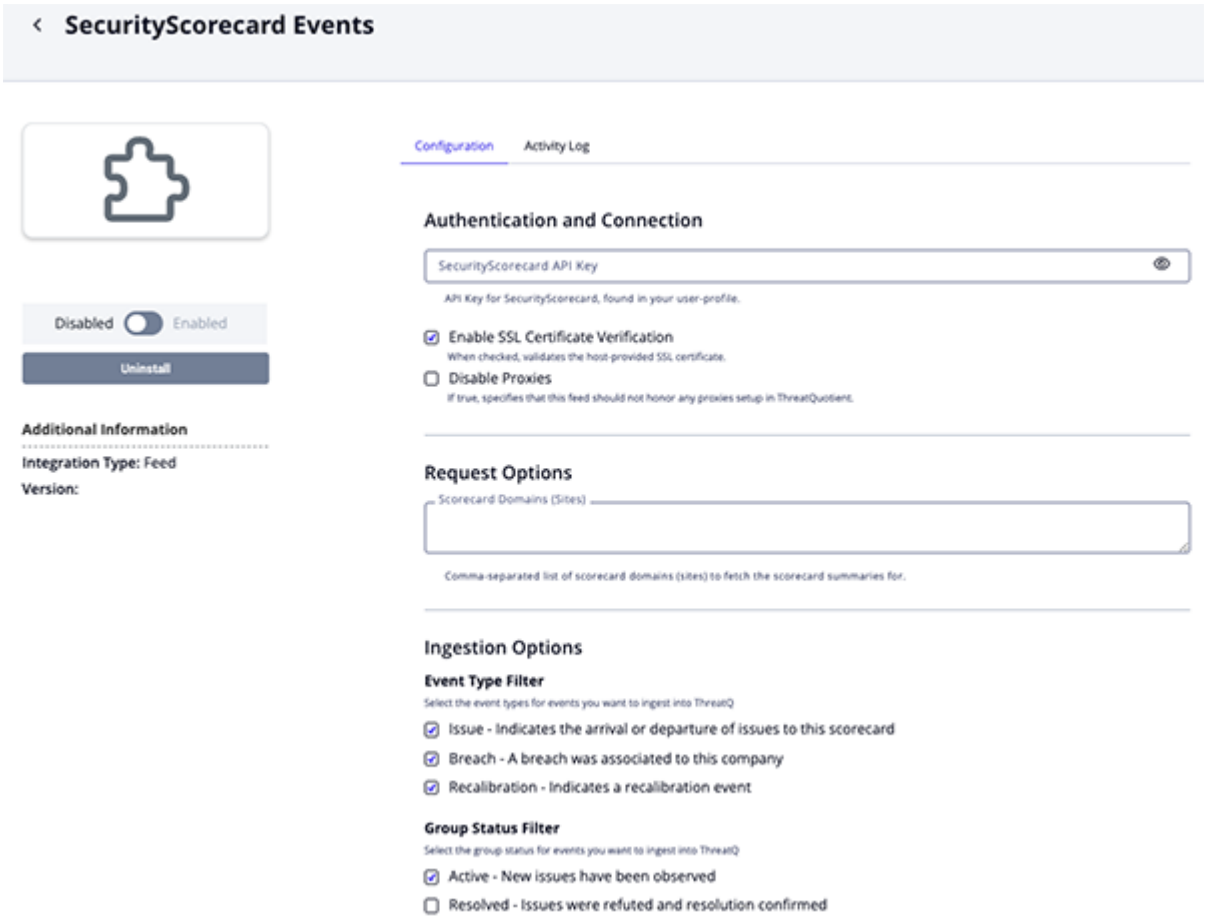
   > If you are installing the integration for the first time, it will be located under the **Disabled** tab.

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

SecurityScorecard Events Parameters

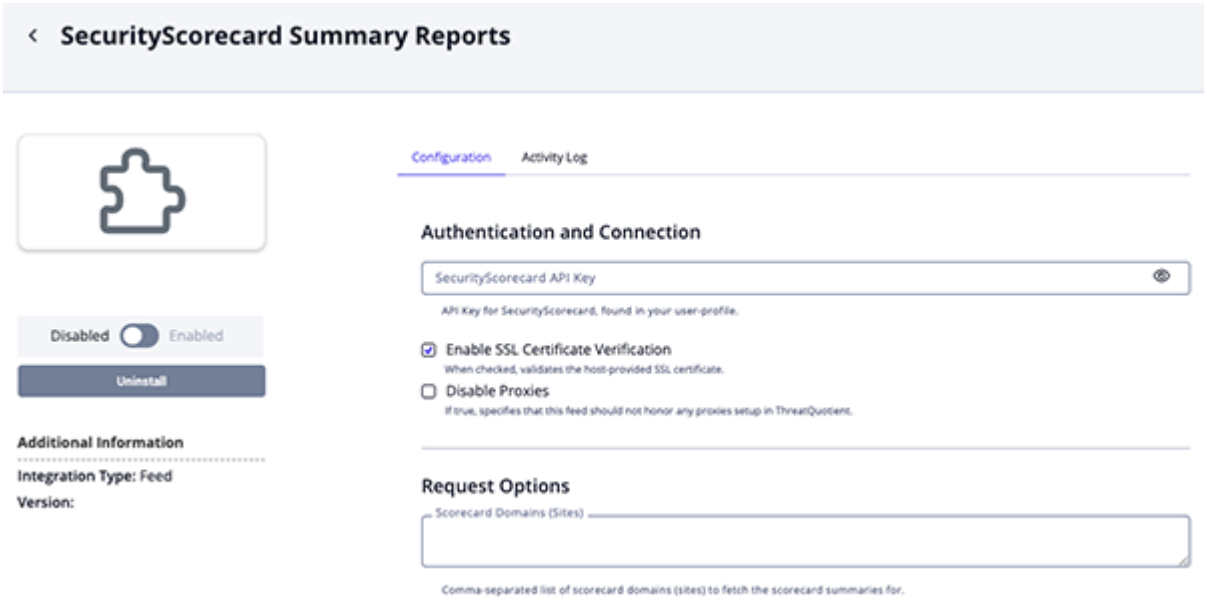
PARAMETER	DESCRIPTION
SecurityScorecard API Key	Your API Key for SecurityScorecard, found in your user-profile.
Enable SSL Certificate Verification	Enable this parameter if the feed should validate the host-provided SSL certificate.
Disable Proxies	Enable this parameter if the feed should not honor proxies set in the ThreatQ UI.
Scorecard Domains	A comma-separated list of scorecard domains (sites) to fetch the scorecard summaries.
Event Type Filter	Select the event types for events to ingest into ThreatQ. Options include: ◦ **Issue** - indicates the arrival or departure of issues to this scorecard *(default)* ◦ **Breach** - a breach was associated to this company *(default)*

PARAMETER	DESCRIPTION
	◦ **Recalibration** - indicates a recalibration event *(default)*
Group Status Filter	Select the group status for events to ingest into ThreatQ. Options include ◦ **Active** - new issues have been observed *(default)* ◦ **Resolved** - issues were refuted and resolution confirmed ◦ **Departed** - issues are not observed anymore
Severity Filter	Select the severity for events to ingest into ThreatQ. Options include: ◦ Low *(default)* ◦ Medium *(default)* ◦ High *(default)* ◦ Positive ◦ Informational



SecurityScorecard Summary Reports Parameters

PARAMETER	DESCRIPTION
SecurityScorecard API Key	Your API Key for SecurityScorecard, found in your user-profile.
Enable SSL Certificate Verification	Enable this parameter if the feed should validate the host-provided SSL certificate.
Disable Proxies	Enable this parameter if the feed should not honor proxies set in the ThreatQ UI.
Scorecard Domains	A comma-separated list of scorecard domains (sites) to fetch the scorecard summaries.



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

Security Scorecard Summary Reports

The Summary Reports feed periodically pulls scorecard reports for registered domains into ThreatQ.

`GET https://api.securityscorecard.io/companies/{{domain}}`

Sample Response:

```
{
    "name": "ThreatQuotient Inc",
    "description": "",
    "domain": "threatq.com",
    "grade_url": "https://s3.amazonaws.com/ssc-static/grades/factor_a.svg",
    "industry": "information_services",
    "size": "unknown",
    "score": 91,
    "grade": "A",
    "last30day_score_change": -5,
    "is_entity": false,
    "is_un_published": true,
    "created_at": "2018-01-04T20:19:31.077Z",
    "disputed": false
}
```

ThreatQuotient provides the following default mapping for this feed:

> The `factors` key is data pulled from the **SecurityScorecard - Get Factors** supplemental feed

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.domain`	Asset Value	N/A	`.created_at`	`threatq.com`	N/A
`.factors[][.name,.grade,.score,.total_score_impact]`	Asset Description	N/A	N/A	SecurityScorecard Summary {{factors}}	The factors are built into an HTML description
`.domain`	Asset Attribute	Domain	N/A	`threatq.com`	N/A
`.description`	Asset Attribute	Description	N/A	N/A	This is different from the "built" description
`.disputed`	Asset Attribute	Is Disputed	N/A	False	Bool -> True/False
`.grade`	Asset Attribute	Grade	N/A	`A`	N/A
`.score`	Asset Attribute	Score	N/A	`91`	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.industry`	Asset Attribute	Industry	N/A	`information_services`	N/A
`.last30day_score_change`	Asset Attribute	Last 30 Day Score Change	N/A	`-5`	N/A
`.name`	Asset Attribute	Scorecard Name	N/A	`ThreatQuotient Inc`	N/A
`.size`	Asset Attribute	Size	N/A	`unknown`	N/A

Security Scorecard Events

The Events feed periodically pulls events for a given domain. This includes breach events, recalibration events, new issue events, etc.

`GET https://api.securityscorecard.io/companies/{{domain}}/history/events`

Sample Response:


```
{
    "entries": [
        {
            "id": 1500171,
            "date": "2022-05-28T00:00:00.000Z",
            "event_type": "issues",
            "group_status": "departed",
            "issue_count": 1,
            "total_score_impact": 0,
            "issue_type": "service_vuln_host_info",
            "severity": "info",
            "factor": "patching_cadence",
            "detail_url": "https://api.securityscorecard.io/companies/
threatq.com/history/events/2022-05-28/issues/service_vuln_host_info?
group_status=departed"
        }
    ]
}
```


ThreatQuotient provides the following default mapping for this feed:

> The details key is data pulled from the **SecurityScorecard - Generic Request** supplemental feed, using this URL: `https://api.securityscorecard.io/companies/{{domain}}/factors`.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.vulnerability_id`	Indicator Value	CVE	`.effective_date`	`CVE-2022-23943`	extracted from SecurityScorecard - Generic Request (Supplemental)
`.vulnerability_description`	Indicator Attribute	Description	`.effective_date`	`Product: Apache httpd\nSeverity: HIGH\nOut-of-bounds Write vulnerability in mod_sed of Apache HTTP Server allows an attacker to overwrite heap memory with possibly attacker provided data. This issue affects Apache HTTP Server 2.4 version 2.4.52 and prior versions.`	extracted from SecurityScorecard - Generic Request (Supplemental)
`.vulnerability_url`	Indicator Attribute	External Reference	`.effective_date`	`https://nvd.nist.gov/vuln/detail/CVE-2022-23943`	extracted from SecurityScorecard -

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
					Generic Request (Supplemental)
`.details_url`	Asset Value	N/A	N/A	`threatq.com`	domain is extracted from detail_url after `/companies/`
`.group_status,.factor,.issue_type,.severity`	Event Value	N/A	`.date`	`SecurityScorecard Departed Event: PATCHING CADENCE - service_vuln_host_info (Severity: Info)`	SecurityScorecard {{.group_status}} Event: {{.factor}} - {{.issue_type}} (Severity: {{.severity}})
`.details`	Event Description	Description	`.date`	SecurityScorecard - Generic Request (Supplemental) sample response `entries`	The evidence is put into `pre` tags for the description
`.event_type`	Event Type	N/A	`.date`	`Scorecard Issue`	map[`issues`] see below Event Table Mapping
`.detail_url`	Event Attribute	Domain	N/A	`threatq.com`	N/A
`.event_type`	Event Attribute	Event Type	N/A	`issues`	N/A
`.group_status`	Event Attribute	Group Status	N/A	`departed`	N/A
`.issue_count`	Event Attribute	Issue Count	N/A	`1`	N/A
`.total_score_impact`	Event Attribute	Total Score Impact	N/A	`0`	N/A
`.issue_type`	Event Attribute	Issue Type	N/A	`service_vuln_host_info`	N/A
`.severity`	Event Attribute	Severity	N/A	`info`	N/A
`.factor`	Event Attribute	Factor	N/A	`patching_cadence`	N/A

Event Table Mapping

ThreatQuotient provides the follow Event mapping:

KEY	VALUE
`issues`	`Scorecard Issue`
`breach`	`Breach`

KEY	VALUE
`recalibration`	`Scorecard Recalibration`

SecurityScorecard - Get Factors (Supplemental)

This supplemental feed fetches "factors" for a given site's scorecard

`GET https://api.securityscorecard.io/companies/{{domain}}/factors`

Sample Response:


```
{
  "entries": [
        {
            "name": "application_security",
            "score": 71,
            "grade": "C",
            "grade_url": "https://s3.amazonaws.com/ssc-static/grades/
factor_c.svg",
            "issue_summary": [
                {
                    "type": "csp_no_policy_v2",
                    "count": 1,
                    "severity": "medium",
                    "total_score_impact": 1.8012391326456623,
                    "detail_url": "https://api.securityscorecard.io/companies/
threatq.com/issues/csp_no_policy_v2/"
                },
                {
                    "type": "csp_too_broad_v2",
                    "count": 4,
                    "severity": "low",
                    "total_score_impact": 2.2783649729965845,
                    "detail_url": "https://api.securityscorecard.io/companies/
threatq.com/issues/csp_too_broad_v2/"
                }
      ]
    }
  ]
}
```


The mapping for this supplemental will be handled by the primary feed.

SecurityScorecard - Generic Request (Supplemental)

The Generic Requests supplemental feed fetches *any* data from the SecurityScorecard API.

`GET {{url}}`

Sample Response:

Using url=`https://api.securityscorecard.io/companies/threatq.com/history/events/2022-05-28/issues/service_vuln_host_info?group_status=departed`:


```
{
    "entries": [
        {
            "parent_domain": "threatq.com",
            "count": 1,
            "first_seen_time": "2022-05-25T02:43:02.000Z",
            "last_seen_time": "2022-05-25T02:43:02.000Z",
            "vulnerability_id": "CVE-2022-23943",
            "vulnerability_url": "https://nvd.nist.gov/vuln/detail/
CVE-2022-23943",
            "vulnerability_description": "Product: Apache httpd\nSeverity:
HIGH\nOut-of-bounds Write vulnerability in mod_sed of Apache HTTP Server allows
an attacker to overwrite heap memory with possibly attacker provided data. This
issue affects Apache HTTP Server 2.4 version 2.4.52 and prior versions.",
            "vulnerability_publish_date": "2022-03-14T00:00:00.000Z",
            "connection_attributes": {
                "protocol": "tcp",
                "dst_ip": "52.86.146.20",
                "dst_port": 443,
                "dst_host": "ec2-52-86-146-20.compute-1.amazonaws.com"
            },
            "effective_date": "2022-05-28T00:00:00.000Z",
            "group_status": "departed",
            "issue_id": "9651bf4c-6206-59ad-8c0f-9cba63ecf6b0"
        }
    ]
}
```


The response for this supplemental feed will vary based on the URL. The mapping for this supplemental will be handled by the secondary feed.

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.

Summary Reports

METRIC	RESULT
Run Time	1 minute
Assets	1
Asset Attributes	8

Events

METRIC	RESULT
Run Time	1 minute
Assets	1
Events	42
Event Attributes	314
Indicators	21
Indicator Attributes	42

Change Log

- **Version 1.0.1**
  - Changed the **Scorecard Domains (Sites) configuration** parameter from a single line to a textarea field for both feeds. This allows you to enter multiple domains into the parameter field. This parameter was previously capped at a 255 character limit due to it being a single line field.
  - Added the following configuration parameters for both feeds:
    - **Enable SSL Certificate Verification** - determine if the feed should validate the host-provided SSL certificate.
    - **Disable Proxies** - determine if the feed should honor proxies set in the ThreatQ UI.
  - Updated the minimum ThreatQ version to 5.12.0.
- **Version 1.0.0**
  - Initial release