

# ThreatQuotient

A Securonix Company



## Intel 471 Compromised Credentials CDF

Version 1.1.2

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### ThreatQuotient

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 ThreatQ Supported

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# Support

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

**Support Email:** [tq-support@securonix.com](mailto:tq-support@securonix.com)

**Support Web:** <https://ts.securonix.com>

**Support Phone:** 703.574.9893

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## Integration Details

ThreatQuotient provides the following details for this integration:

**Current Integration Version** 1.1.2

**Compatible with ThreatQ Versions**  $\geq 5.6.0$

**Support Tier** ThreatQ Supported

## Introduction

The Intel 471 Compromised Credentials CDF integration for ThreatQ allows you to track your organization's compromised credentials in order to efficiently mitigate any threats targeting your organization's employees.

The integration provides the following feed:

- **Intel 471 Compromised Credentials** - imports compromised credentials from Intel 471's API in order to track internal credentials that have been compromised.

The integration ingests the following system objects:

- Compromised Accounts
- Indicators
- Malware

## Prerequisites


The integration requires the following:

- Your Intel 471 Titan Email Address.
- Your Intel 471 Titan API Key.
- Compromised Account custom object installed on the ThreatQ instance.

## Compromised Account Custom Object

The integration requires the Compromised Account custom object.

Use the steps provided to install the Compromised Account custom object.

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

## ThreatQ V6 Steps

Use the following steps to install the custom object in ThreatQ v6:

1. Download the integration bundle from the ThreatQ Marketplace.
2. Unzip the bundle and locate the custom object files.



The custom object files will typically consist of a JSON definition file, install.sh script, and a images folder containing the svg icons.

3. SSH into your ThreatQ instance.
4. Set your install pathway environment variable. This command will retrieve the install pathway from your configuration file and set it as variable for use during this installation process.

```
INSTALL_CONF="/etc/threatq/platform/install.conf"

if [ -f "$INSTALL_CONF" ]; then source "$INSTALL_CONF"

fi

MISC_DIR="${INSTALL_BASE_PATH:-/var/lib/threatq}/misc"
```

5. Navigate to the tmp folder using the environment variable:

```
cd $MISC_DIR
```

6. Upload the custom object files, including the images folder.

The directory structure should resemble the following:

- install.sh
- <custom\_object\_name>.json

- images (directory)
    - <custom\_object\_name>.svg
7. Run the following command:

```
kubectl exec -it deployment/api-schedule-run -n threatq -- sh /var/lib/threatq/misc/install.sh /var/lib/threatq/misc
```



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.

8. Delete the install.sh, definition json file, and images directory from step 6 after the object has been installed as these files are no longer needed.

## ThreatQ v5 Steps

1. Download the integration 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 intel471_cdf
```

5. Upload the **account.json** and **install.sh** script into this new directory.
6. Create a new directory called **images** within the inte471\_cdf directory.

```
mkdir images
```

7. Upload the account.svg.
8. Navigate to the **/tmp/intel471\_cdf**.

The directory should resemble the following:

- tmp
  - intel471\_cdf
    - account.json
    - install.sh
    - images
      - account.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.


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

```
rm -rf intel471_cdf
```


# Installation

 The CDF requires the installation of the Compromised Account custom object before installing the actual CDF. See the [Compromised Account](#) section of this guide 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 zip file.
3. Extract the integration files and install the [Compromised Account](#) custom object if you have not done so already.
4. Navigate to the integrations management page on your ThreatQ instance.
5. Click on the **Add New Integration** button.
6. 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
7. Select the individual feeds to install, when prompted and click **Install**.

 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.

The feed(s) 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   |
|----------------------------|---|
| Email Address              | Enter your Intel471 Titan email address.  |
| API Key                    | Enter your Intel471 Titan API Key associated with the email address provided above.   |
| Fetch Accessed URLs        | <p>Enable this option to have the feed fetch the accessed URLs for each compromised credential. This parameter is disabled by default.</p> <div style="background-color: #ffe0e0; padding: 5px; border: 1px solid #ff0000;">  Enabling this parameter will result in one API call per credential.                 </div> |
| Fetch GIR Names            | Enable this parameter to fetch the GIR's name (example: 5.2.1 - initial Access Tactic). Disable this parameter to fetch the GIR's raw format (example: 3.1.1). This parameter is enabled by default.  |
| Ignore Numeric Credentials | Enable this parameter to skip ingestion of compromised credentials with usernames consist solely of numeric values such as 721322. This parameter is disabled by default.   |
| Context Filter             | Select which pieces of context to ingest with the compromised credentials. Options include:   |

| PARAMETER                             | DESCRIPTION   |
|---------------------------------------|---|
|                                       | <ul style="list-style-type: none"> <li>◦ Accessed URLs (default)</li> <li>◦ Compromised Tag (default)</li> <li>◦ Compromised Password</li> <li>◦ Credential Sets (default)</li> <li>◦ Affected Site (Detection Domain) (default)</li> <li>◦ Credential Domain</li> <li>◦ Affiliations (default)</li> <li>◦ Password Strength</li> <li>◦ Intel Requirements (default)</li> <li>◦ Associated Adversary (default)</li> <li>◦ Associated Malware Family (default)</li> <li>◦ Intel471 Titan Link</li> </ul> |
| <p><b>Ingest Accessed URLs As</b></p> | <p>Select which entity type to ingest accessed URLs as. Options include:</p> <ul style="list-style-type: none"> <li>◦ Indicators</li> <li>◦ Attributes</li> </ul>   |
|                                       | <p> This parameter will only be accessible if you have selected the <code>Accessed URLs</code> option for the <b>Context Filter</b> parameter.</p>   |
| <p><b>Accessed URL Status</b></p>     | <p>Select the status that should be applied to the accessed URLs. The default status is <code>Review</code>.</p>  |
|                                       | <p> This parameter will only be accessible if you have selected the <code>Indicators</code> option for the <b>Ingest Accessed URLs As</b> parameter.</p>   |
| <p><b>Disable Proxies</b></p>         | <p>Enable this option if the feed should not honor proxies set in the ThreatQ UI.</p>   |
| <p><b>Enable SSL Verification</b></p> | <p>Enable this parameter for the feed to validate the host-provided SSL certificate. This option is enabled by default.</p>   |

< **Intel471 Compromised Credentials**

Disabled

Enabled

Run Integration

Uninstall

**Additional Information**

Integration Type: Feed

Version:

Configuration
Activity Log

**Authentication**

Email Address

Enter your Intel471 Titan email address

API Key

Enter your Intel471 Titan API Key, associated with your email address

**API Options**

Fetch GIR Names

When false, GIRs will be left in their raw format (i.e. 3.1.1). When true, their names will be fetched and used (i.e. 5.2.1 - Initial access tactic).

**Ingestion Options**

Ignore Numeric Credentials

Occasionally, compromised credentials will have a numeric username. For instance, something like '721322' or '23.6' can be a valid usernames. Enable this option to skip those usernames to prevent ingestion into ThreatQ.

**Context Filter**

Select which pieces of context you want ingested with the compromised credentials.

- Accessed URLs
- Compromised Tag
- Compromised Password
- Credential Sets
- Affected Site (Detection Domain)

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

## Intel 471 Compromised Credentials

The Intel 471 Compromised Credentials feed imports compromised credentials from Intel 471's API in order to track internal credentials that have been compromised.

GET <https://api.intel471.com/v1/credentials/occurrences/stream>

### Sample Response:

```
{
  "credential_occurrences_total_count": 123,
  "credential_occurrences": [
    {
      "uid": "c70ec3ffc8b095f685d52ec7ebcb3874",
      "data": {
        "file_path": "/Private Collection/Private combos/result.txt_div_84_DupDel.txt",
        "accessed_url": "https://accounts.zoho.com/signin",
        "credential": {
          "uid": "08c9a1e7e811617a79290108cdc23b36",
          "credential_login": "john.smith@test-domain.com",
          "credential_domain": "test-domain.com",
          "detection_domain": "test-domain.com",
          "affiliations": [
            "my_employees"
          ],
          "password": {
            "complexity": {
              "lowercase": 15,
              "uppercase": 0,
              "numbers": 17,
              "symbols": 0,
              "punctuation_marks": 0,
              "separators": 0,
              "other": 0,
              "length": 32,
              "score": 0.9525726035123216,
              "weakness": 0.09375,
              "entropy": 121.83535750584332
            },
            "strength": "excellent",
            "id": "81105f09",
            "password_plain": "bad_pswrd"
          }
        },
        "credential_set": {
          "uid": "13951971fbce4bd11dc1eb13f04da669",
          "name": "Infostealer Collection"
        },
        "detected_malware": {
          "family": "[Raccoon Stealer] - v1.0 Golden Master Release"
        }
      },
      "classification": {
        "intel_requirements": [
          "2.1.1.1",
          "2.2.1",
          "2.2.2"
        ]
      }
    }
  ]
}
```

```
    },  
    "last_updated": 1583241868411,  
    "activity": {  
      "first": 1569271060000,  
      "last": 1569271060000  
    }  
  }  
]  
}
```

ThreatQuotient provides the following default mapping for this feed:



The mapping for this feed is based on each item within the `.credential_occurrences` array.

| FEED DATA PATH  | THREATQ ENTITY            | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES                     | NOTES  |
|---|---------------------------|--------------------------------------|----------------|------------------------------|--|
| <code>.data.credential_login</code>                   | Compromised Account Value | N/A                                  | N/A            | <code>.activity.first</code> | N/A  |
| <code>.data.detected_malware_family</code>            | Malware Value             | N/A                                  | N/A            | <code>.activity.first</code> | Redline<br>Configurable via user-field   |
| <code>.data.credential_sets.name</code>               | Adversary Name            | N/A                                  | N/A            | <code>.activity.first</code> | N/A<br>Configurable via user-field;<br>Extrapolated from credential sets if applicable                         |
| <code>.data.credential_sets.name</code>               | Attribute                 | Credential Set                       | N/A            | <code>.activity.first</code> | General Infostealers<br>Configurable via user-fields   |
| <code>.classification.intel_requirements[]</code>     | Attribute                 | Intel Requirement                    | N/A            | <code>.activity.first</code> | 5.2.6 - Credential access tactic<br>Configurable via user-field  |
| <code>.data.credential_affiliations[]</code>          | Attribute                 | Affiliation                          | N/A            | <code>.activity.first</code> | my_customers<br>Configurable via user-field  |
| <code>.data.credential_detection_domain</code>        | Attribute                 | Affected Site                        | N/A            | <code>.activity.first</code> | gmail.com<br>Configurable via user-field   |
| <code>.data.credential_detection_domain</code>        | Attribute                 | Target Domain                        | N/A            | <code>.activity.first</code> | gmail.com<br>Configurable via user-field;<br>Applied to the related threat actors                              |
| <code>.data.credential_password_strength</code>       | Attribute                 | Password Strength                    | N/A            | <code>.activity.first</code> | Weak<br>Configurable via user-field  |
| <code>.data.credential_credential_domain</code>       | Attribute                 | Credential Domain                    | N/A            | <code>.activity.first</code> | company.com<br>Configurable via user-field   |
| <code>.data.credential_password_password_plain</code> | Attribute                 | Compromised Password                 | N/A            | <code>.activity.first</code> | N/A<br>Configurable via user-field   |
| <code>.data.file_path</code>                          | Attribute                 | File Path                            | N/A            | <code>.activity.first</code> | N/A<br>Configurable via user-field   |
| <code>.data.accessed_url</code>                       | Attribute                 | Accessed URL                         | N/A            | <code>.activity.first</code> | N/A<br>Configurable via user-field;<br>When user selects Attributes for the Ingest Accessed URLs As user-field |
| <code>.data.accessed_url</code>                       | Indicator Value           | URL                                  | N/A            | <code>.activity.first</code> | N/A<br>Configurable via user-field;<br>When user selects Indicators for the Ingest Accessed URLs As user-field |

---

| FEED DATA PATH | THREATQ ENTITY | THREATQ OBJECT TYPE OR ATTRIBUTE KEY | PUBLISHED DATE | EXAMPLES            | NOTES |  |
|----------------|----------------|--------------------------------------|----------------|---------------------|-------|--|
| .uid           | Attribute      | Intel471 Titan Link                  | N/A            | .activity<br>.first | N/A   | Configurable via user-field;<br>Concatenates the UID with the<br>Intel471 Portal URL |

## Average Feed Run



Object counts and Feed runtime are supplied as generalities only - objects returned by a provider can differ based on credential configurations and Feed runtime may vary based on system resources and load.

| METRIC                         | RESULT   |
|--------------------------------|----------|
| Run Time                       | 1 minute |
| Compromised Accounts           | 1        |
| Compromised Account Attributes | 10       |
| Indicators                     | 1        |
| Indicator Attributes           | 1        |
| Malware                        | 1        |

---

# Change Log

- **Version 1.1.2**
  - Implemented indicator deduplication and enhanced data validation to resolve attribute ingestion failures.
- **Version 1.1.1 rev-a**
  - Guide Update - updated custom object installation steps for ThreatQ v6 instances.
- **Version 1.1.1**
  - Updated the integration to use the `/credentials/occurrences/steam` endpoint which supports Accessed URLs and removes the 1,000 credential return limit.
- **Version 1.1.0**
  - Updated the feed to use the `/credentials/occurrences` endpoint.
  - Updated the feed to optimize overall performance, ThreatQuotient integration standards, and to provide more granular control over the data ingested.
  - Added the following configuration parameters:
    - **Fetch Accessed URLs** - fetches the accessed URLs for each compromised credential.
    - **Fetch GIR Names** - ability to select whether to fetch the GIR name or raw value.
    - **Ignore Numeric Credentials** - ability to skip ingestion of compromised credentials with usernames that consist solely of numeric values.
    - **Context Filter** - allows you to select which pieces of context to ingest with the compromised credentials.
    - **Ingest Accessed URLs As** - allows you to determine whether to ingest accessed URLs as indicators or attributes.
    - **Accessed URL Status** - allows you to select the status that should be applied to the accessed URLs.
    - **Disable Proxies** - allows you to determine whether or not the feed honors the proxy configuration set in the ThreatQ UI.
    - **Enable SSL Verification** - allows you to determine if the feed should validate the host-provided SSL certificate.
  - Removed the **Ingest Compromised Passwords as Attributes** configuration parameter.
- **Version 1.0.0**
  - Initial release