

ThreatQuotient

A Securonix Company



Google Threat Intelligence CDF

Version 2.3.0

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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

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

Support Phone: 703.574.9893

Integrations/apps/add-ons designated as **ThreatQ Supported** are fully supported by ThreatQuotient's Customer Support team.

ThreatQuotient strives to ensure all ThreatQ Supported integrations will work with the current version of ThreatQuotient software at the time of initial publishing. This applies for both Hosted instance and Non-Hosted instance customers.



ThreatQuotient does not provide support or maintenance for integrations, apps, or add-ons published by any party other than ThreatQuotient, including third-party developers.

Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	2.3.0
Compatible with ThreatQ Versions	>= 6.6.0
Support Tier	ThreatQ Supported

Introduction

Google is on a mission to make every organization secure from cyber threats and confident in its readiness. They deliver dynamic cyber defense solutions powered by industry-leading expertise, intelligence, and innovative technology.

The Google Threat Intelligence CDF integration provides the following feeds:

- **Google Threat Intelligence** - ingests compromised Adversaries objects and any related Indicators, Malware, Vulnerabilities, Attack Patterns, and Tags.
 - **Google Threat Intelligence Related Malware (Supplemental)** - returns associated collections of malware family objects.
 - **Google Threat Intelligence Related Attack Pattern (Supplemental)** - fetches related attack patterns.
 - **Google Threat Intelligence Related Vulnerabilities (Supplemental)** - fetches related CVEs.
 - **Google Threat Intelligence Related Campaigns (Supplemental)** - returns associated collections of campaign objects.
 - **Google Threat Intelligence Related IOC (Supplemental)** - fetches related indicators to threat actors.
 - **Google Threat Intelligence Related Adversaries (Supplemental)** - fetches related adversaries.
- **Google Threat Intelligence Campaigns** - ingests a list of campaigns tracked by Google Threat Intelligence.
- **Google Threat Intelligence Indicators** - ingests a list of indicators tracked by Google Threat Intelligence.
- **Google Threat Intelligence Malware** - ingests a list of malware tracked by Google Threat Intelligence.
- **Google Vulnerability Intelligence** - ingests a list of vulnerabilities tracked by Google Threat Intelligence.
- **Google Threat Intelligence Threat Lists** - ingests indicators from the selected threat lists.
- **Google Digital Threat Monitoring Alerts** - ingests alerts for the current organization.

The integration ingests the following system objects:

- Adversaries

- Attack Patterns
- Campaigns
- Events
- Indicators
- Malware
- Signatures
- Vulnerabilities

Prerequisites

The integration requires the following:

- A Google Threat Intelligence API Key.
- MITRE ATT&CK attack patterns must have already been ingested by a previous run of the MITRE ATT&CK CDF feeds in order for MITRE TIDs extracted from Actor Profiles to be mapped to the corresponding MITRE ATT&CK attack patterns. Feeds included in the MITRE ATT&CK CDF are:
 - MITRE Enterprise ATT&CK
 - MITRE Mobile ATT&CK
 - MITRE PRE-ATT&CK

Installation

Perform the following steps to install the integration:



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

If you are upgrading to version 2.0.0 or later from a version > 2.0.0 and are utilizing the **Google Vulnerability Intelligence** (formerly **Mandiant Vulnerability Intelligence**) feed, you should ensure that your credentials and other configurations are backed up as you will need to re-enter your configuration and re-enable the feed after upgrading.

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 yaml file into the dialog box
 - Select **Click to Browse** to locate the integration yaml file on your local machine
6. 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.

7. The feeds will be added to the integrations page. You will still need to [configure and then enable](#) the feeds.

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:

Google Threat Intelligence Parameters

PARAMETER	DESCRIPTION
Base URL	The base URL for the Google Threat Intelligence API.  You will not have to modify this unless Google changes its API URL.
API Key	Enter your Google Threat Intelligence API Key to authenticate.
Origin Filter	Filter the results based on the origin of the intelligence. Options include: ◦ Google Threat Intelligence (Curated) (default) ◦ Partner (i.e. AlienVaultOTX) ◦ Crowdsourced (i.e. Individual Users)



ThreatQuotient highly recommends only selecting the curated origin to ensure data quality and reduce noise/volume.

Target Industry

Specify the industry objects you want to ingest.

Custom API Filter

An optional custom filter can be applied to all API requests when retrieving collections. This filter applies only to the top-level collection request and does not affect API calls used to fetch associated data. It is appended to the default query using logical AND and is evaluated alongside the existing `collection_type`, `origin`, `last_modification_date`, and `target_industry` filters. Additional details on filter construction are available at: <https://gtidocs.virustotal.com/reference/list-threats>.

Supplemental Context Confidence Filter

Specify the confidence levels of the context you want to ingest. Only context with the selected confidence levels will be included in the ingestion process. Context such as Target Industry, Target Region, Motivation, etc. are reported with a confidence level. Using this filter helps ensure that only high-confidence context is ingested into ThreatQ. Options include:

- Confirmed
- Suspected
- Unconfirmed

Adversaries Context Selection

Select the context to bring back with each ingested Adversary. Options include:

- | | |
|---------------------|-----------------------|
| ◦ Target Industry | ◦ Source Sub Region |
| ◦ Target Region | ◦ Source Country |
| ◦ Target Sub Region | ◦ Source Country Code |
| ◦ Target Country | ◦ Motivation |

	◦ Target Country Code ◦ Source Region ◦ Aliases (as Tags)
Fetch Related Attack Patterns	Enable this parameter to utilize additional API calls to fetch related Attack Patterns.  This feature can quickly consume the daily rate limit.
Fetch Related Malware	Enable this parameter to utilize additional API calls to fetch related Malware.  This feature can quickly consume the daily rate limit.
Malware Context Selection	Select the context to bring back with each ingested Malware. Options include: ◦ Industry (<i>default</i>) ◦ Target Operating System (<i>default</i>) ◦ Detection  This parameter is only accessible if the Fetch Related Malware parameter is enabled.
Fetch Related Campaigns	Enable this parameter to utilize additional API calls to fetch related Campaigns.  This feature can quickly consume the daily rate limit.
Campaign Context Selection	Select the context to bring back with each ingested Campaign. Options include: ◦ Motivations (<i>default</i>)

- Source Regions Context
- Target regions Context



This parameter is only accessible if the **Fetch Related Campaigns** parameter is enabled.

Fetch Related CVEs

Enable this parameter to utilize additional API calls to fetch related CVEs.



This feature can quickly consume the daily rate limit.

CVE Context Selection

Select the context to bring back with each ingested CVE. Options include:

- CVSS v2 Vector
- CVSS v2 Scores
- CVSS v3 Vector *(default)*
- CVSS v3 Scores *(default)*
- Exploitation Vectors
- EPSS Score *(default)*



This parameter is only accessible if the **Fetch Related CVEs** parameter is enabled.

Ingest CVEs As

Select which entity type to ingest CVEs as into ThreatQ. Options include:

- Vulnerabilities
- Indicators (CVE)



This parameter is only accessible if the **Fetch Related CVEs** parameter is enabled.

Fetch Related Indicators

Enable this parameter to utilize additional API calls to fetch related Indicators.



This feature can quickly consume the daily rate limit.

Ingested Indicator Types

Select the types of indicators to ingest into ThreatQ. Options include:

- IP Addresses (*default*)
- URLs (*default*)
- Domains (*default*)
- Hashes (*default*)



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Ingested Related Hash Types

Optional - Select the types of the related hashes to ingest for SHA-256. Options include:

- MD5
- SHA-1
- SHA-256



This parameter is only accessible if you have selected the Hashes (SHA-256) option for the **Ingested Indicator Types** parameter.

Minimum Threat Score Threshold

Enter the minimum score required to ingest a related indicator. The default value is 40.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Active if Verdict is Malicious

Enable this parameter to dynamically set the status of indicators with a verdict of malicious to Active.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Whitelisted if Threat Score is 0

Enable this parameter to dynamically set the status of indicators with threat scores of 0 to whitelisted.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Normalize Threat Scores

Enable this parameter to normalize the Threat Score from the default 0-100 range to a human-readable value. The normalization will be based on the mapping field set in **Threat Score Normalization Mapping** parameter. This is useful for developing a ThreatQ Scoring Policy that is based on these normalized values.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Threat Score Normalization Mapping

Enter your mapping to normalize the numeric threat score values to the scorable attribute, Normalized Threat Score. The raw Threat Score value will always be ingested. This mapping should contain a line-separated CSV-formatted string with the following columns: Minimum, Maximum, Normalized Value. *default: (0,39,Low 40,79,Medium 80,94,High 95,100,Critical)*



This parameter is only accessible if the **Fetch Related Indicators** and **Normalize Threat Scores** parameters are enabled.

Indicator Context Selection

Select the context to bring back with each ingested indicator. Verdict is not enabled by default as it's a binary value of malicious or benign. Instead, it is recommended to use the **Normalize Threat Score** parameter to create a more granular range to use in your ThreatQ Scoring Policy. Options include:

- Threat Score
- Confidence Score
- Severity
- Verdict
- Safe Browsing Verdict
- Category
- Tags
- Type Tags
- Is Pervasive
- Malicious Count
- Suspicious Count
- AS Organization
- RIR
- Country Code
- Continent Code
- ASN
- Meaningful Name
- Site Title
- Last Submission Date
- Mandiant Score (Deprecated)
- Crowdsourced IDS Signatures (Snort)



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Indicator Description Context Selection

Select the context used to populate each indicator's description based on available fields. Options include:

- GTI Assessment
- WHOIS
- Crowdsourced AI Summary
- Crowdsourced Context
- Associated Names
- Outgoing Links
- Crowdsourced YARA Results
- Sigma Analysis Results

Ingests ASNs As

Select which entity type to ingest ASNs as in ThreatQ. Options include:

- Attributes (*default*)

- Indicators (Type: ASN)

Enable SSL Certificate Verification

Enable this parameter for the feed to validate the host-provided SSL certificate.

Disable Proxies

Enable this option if the feed should not honor proxies set in the ThreatQ UI.

< Google Threat Intelligence



Disabled ☒ Enabled

Run Integration

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration Activity Log

Overview

This feed fetches threat actor profiles & related context from the Google Threat Intelligence API. Intelligence such as Source Geolocations, Target Geolocations, Motivations, Target Industries, and more will be ingested as attributes for each threat actor, based on the configuration.

NOTE: This feed requires a Google Threat Intelligence (Google TI) Enterprise or Enterprise Plus license.

WARNING: Running this feed historically along with fetching additional associations will result in a large number of API calls (potentially thousands). Please ensure your Google TI license has sufficient API quota to accommodate this.

Connection & Authentication

Base URL

The base URL for the Google Threat Intelligence API. You most likely will not need to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Filtering Options

Origin Filter

Filter the results based on the origin of the intelligence. We highly recommend only selecting the curated origin to ensure data quality and reduce noise/volume.

- ☒ Google Threat Intelligence (Curated)
- ☐ Partner (i.e. AlienVaultOTX)
- ☐ Crowdsourced (i.e. Individual Users)

Google Threat Intelligence Campaigns

PARAMETER	DESCRIPTION
Base URL	The base URL for the Google Threat Intelligence API.  You will not have to modify this unless Google changes its API URL.
API Key	Enter your Google Threat Intelligence API Key to authenticate.
Origin Filter	Filter the results based on the origin of the intelligence. Options include: ◦ Google Threat Intelligence (Curated) (default) ◦ Partner (i.e. AlienVaultOTX) ◦ Crowdsourced (i.e. Individual Users)  ThreatQuotient highly recommends only selecting the curated origin to ensure data quality and reduce noise/volume.
Target Industry	Specify the industry objects you want to ingest.
Custom API Filter	An optional custom filter can be applied to all API requests when retrieving collections. This filter applies only to the top-level collection request and does not affect API calls used to fetch associated data. It is appended to the default query using logical AND and is evaluated alongside the existing <code>collection_type</code>, <code>origin</code>, <code>last_modification_date</code>, and <code>target_industry</code> filters. Additional details on filter construction are available at: https://gtidocs.virustotal.com/reference/list-threats.

**Supplemental
Context
Confidence
Filter**

Specify the confidence levels of the context you want to ingest. Only context with the selected confidence levels will be included in the ingestion process. Context such as Target Industry, Target Region, Motivation, etc. are reported with a confidence level. Using this filter helps ensure that only high-confidence context is ingested into ThreatQ. Options include:

- Confirmed
- Suspected
- Unconfirmed

**Context
Options**

Select the context for the campaign's attributes to ingest into ThreatQ. Options include:

- Target Sector
- Target Country
- Target Country Code
- Target Region
- Target Sub Region
- Country
- Country Code
- Region
- Sub Region
- Motivation
- Last Seen

**Fetch Related
Attack
Patterns**

Enable this parameter to utilize additional API calls to fetch related Attack Patterns.



This feature can quickly consume the daily rate limit.

**Fetch Related
Adversaries**

Enable this parameter to utilize additional API calls to fetch related Adversaries.



This feature can quickly consume the daily rate limit.

Adversaries Context Selection

Select the context to bring back with each ingested Adversary. Options include:

- Target Industry
- Target Region
- Target Sub Region
- Target Country
- Target Country Code
- Source Region
- Source Sub Region
- Source Country
- Source Country Code
- Motivation
- Aliases (as Tags)



This parameter is only accessible if the **Fetch Related Adversaries** parameter is enabled.

Fetch Related Malware

Enable this parameter to utilize additional API calls to fetch related Malware.



This feature can quickly consume the daily rate limit.

Malware Context Selection

Select the context to bring back with each ingested Malware. Options include:

- Industry (*default*)
- Target Operating System (*default*)
- Detection



This parameter is only accessible if the **Fetch Related Malware** parameter is enabled.

Fetch Related CVEs

Enable this parameter to utilize additional API calls to fetch related CVEs.



This feature can quickly consume the daily rate limit.

CVE Context Selection

Select the context to bring back with each ingested CVE. Options include:

- CVSS v2 Vector
- CVSS v2 Scores
- CVSS v3 Vector *(default)*
- CVSS v3 Scores *(default)*
- Exploitation Vectors
- EPSS Score *(default)*



This parameter is only accessible if the **Fetch Related CVEs** parameter is enabled.

Ingest CVEs As

Select which entity type to ingest CVEs as into ThreatQ. Options include:

- Vulnerabilities
- Indicators (CVE)



This parameter is only accessible if the **Fetch Related CVEs** parameter is enabled.

Fetch Related Indicators

Enable this parameter to utilize additional API calls to fetch related Indicators.



This feature can quickly consume the daily rate limit.

Ingested Indicator Types

Select the types of indicators to ingest into ThreatQ. Options include:

- IP Addresses *(default)*
- URLs *(default)*

- Domains (*default*)
- Hashes (*default*)



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Ingested Related Hash Types

Optional - Select the types of the related hashes to ingest for SHA-256. Options include:

- MD5
- SHA-1
- SHA-256



This parameter is only accessible if you have selected the Hashes option for the **Ingested Indicator Types** parameter.

Inherit Context from Indicators to Related Hashes

Enable this parameter to inherit the context from the top-level indicators to the associated hashes.



This parameter is only accessible if you have selected the Hashes (SHA-256) option for the **Ingested Indicator Types** parameter.

Minimum Threat Score Threshold

Enter the minimum score required to ingest a related indicator. The default value is 40.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Active if Verdict is Malicious

Enable this parameter to dynamically set the status of indicators with a verdict of malicious to Active.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Whitelisted if Threat Score is 0

Enable this parameter to dynamically set the status of indicators with threat scores of 0 to whitelisted.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Normalize Threat Scores

Enable this parameter to normalize the Threat Score from the default 0-100 range to a human-readable value. The normalization will be based on the mapping field set in **Threat Score Normalization Mapping** parameter. This is useful for developing a ThreatQ Scoring Policy that is based on these normalized values.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Threat Score Normalization Mapping

Enter your mapping to normalize the numeric threat score values to the scorable attribute, `Normalized Threat Score`. The raw Threat Score value will always be ingested. This mapping should contain a line-separated CSV-formatted string with the following columns: Minimum, Maximum, Normalized Value. *default: (0,39,Low 40,79,Medium 80,94,High 95,100,Critical)*



This parameter is only accessible if the **Fetch Related Indicators** and **Normalize Threat Scores** parameters are enabled.

Indicator Context Selection

Select the context to bring back with each ingested indicator. Verdict is not enabled by default as it's a binary value of malicious or benign. Instead, it is recommended to use the **Normalize Threat Score** parameter to create a more granular range to use in your ThreatQ Scoring Policy. Options include:

- Threat Score
- Confidence Score
- AS Organization
- RIR

- Severity
- Verdict
- Safe Browsing Verdict
- Category
- Tags
- Type Tags
- Is Pervasive
- Malicious Count
- Suspicious Count
- Country Code
- Continent Code
- ASN
- Meaningful Name
- Site Title
- Last Submission Date
- Mandiant Score (Deprecated)
- Crowdsourced IDS Signatures (Snort)



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Indicator Description Context Selection

Select the context used to populate each indicator's description based on available fields. Options include:

- GTI Assessment
- WHOIS
- Crowdsourced AI Summary
- Crowdsourced Context
- Associated Names
- Outgoing Links
- Crowdsourced YARA Results
- Sigma Analysis Results

Ingests ASNs As

Select which entity type to ingest ASNs as in ThreatQ. Options include:

- Attributes (*default*)
- Indicators (Type: ASN)

Enable SSL Certificate Verification

Enable this parameter for the feed to validate the host-provided SSL certificate.

Disable Proxies

Enable this option if the feed should not honor proxies set in the ThreatQ UI.

< Google Threat Intelligence Campaigns



Disabled ☐ Enabled

Run Integration

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration Activity Log

Overview

This feed fetches campaigns & related context from the Google Threat Intelligence API. Intelligence such as Source Geolocations, Target Geolocations, Motivations, Target Industries, and more will be ingested as attributes for each campaign, based on the configuration.

NOTE: This feed requires a Google Threat Intelligence (Google TI) Enterprise or Enterprise Plus license.

WARNING: Running this feed historically along with fetching additional associations will result in a large number of API calls (potentially thousands). Please ensure your Google TI license has sufficient API quota to accommodate this.

Connection & Authentication

Base URL
https://www.virustotal.com

The base URL for the Google Threat Intelligence API. You most likely will not need to modify this unless Google changes its API URL.

API Key
Enter your Google Threat Intelligence API Key to authenticate.

Filtering Options

Origin Filter

Filter the results based on the origin of the intelligence. We highly recommend only selecting the curated origin to ensure data quality and reduce noise/volume.

- ☒ Google Threat Intelligence (Curated)
- ☐ Partner (i.e. AlienVaultOTX)
- ☐ Crowdsourced (i.e. Individual Users)

Google Threat Intelligence Indicators Parameters

PARAMETER

DESCRIPTION

Base URL

The base URL for the Google Threat Intelligence API.



You will not have to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Origin Filter

Filter the results based on the origin of the intelligence. Options include:

- Google Threat Intelligence (Curated) (default)
- Partner (i.e. AlienVaultOTX)
- Crowdsourced (i.e. Individual Users)



ThreatQuotient highly recommends only selecting the curated origin to ensure data quality and reduce noise/volume.

Target Industry

Specify the industry objects you want to ingest.

Custom API Filter

An optional custom filter can be applied to all API requests when retrieving collections. This filter applies only to the top-level collection request and does not affect API calls used to fetch associated data. It is appended to the default query using logical AND and is evaluated alongside the existing `collection_type`, `origin`, `last_modification_date`, and `target_industry` filters. Additional details on filter construction are available at: <https://gtidocs.virustotal.com/reference/list-threats>.

Ingested Indicator Types

Select the types of indicators to ingest into ThreatQ. Options include:

- IP Addresses (*default*)
- URLs (*default*)
- Domains (*default*)
- Hashes (*default*)

Ingested Related Hash Types

Optional - Select the types of the related hashes to ingest for SHA-256. Options include:

- MD5
- SHA-1
- SHA-256



This parameter is only accessible if you have selected the Hashes (SHA-256) option for the **Ingested Indicator Types** parameter.

Minimum Threat Score Threshold

Enter the minimum score required to ingest a related indicator. The default value is 40.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Active if Verdict is Malicious

Enable this parameter to dynamically set the status of indicators with a verdict of malicious to Active.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Whitelisted if Threat Score is 0

Enable this parameter to dynamically set the status of indicators with threat scores of 0 to whitelisted.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Normalize Threat Scores

Enable this parameter to normalize the Threat Score from the default 0-100 range to a human-readable value. The normalization will be based on the mapping field set in **Threat Score Normalization Mapping** parameter. This is useful for developing a ThreatQ Scoring Policy that is based on these normalized values.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Threat Score Normalization Mapping

Enter your mapping to normalize the numeric threat score values to the scorable attribute, Normalized Threat Score. The raw Threat Score value will always be ingested. This mapping should contain a line-separated CSV-formatted string with the following columns:

Minimum, Maximum, Normalized Value. *default: (0,39,Low 40,79,Medium 80,94,High 95,100,Critical)*



This parameter is only accessible if the **Fetch Related Indicators** and **Normalize Threat Scores** parameters are enabled.

Indicator Context Selection

Select the context to bring back with each ingested indicator. Verdict is not enabled by default as it's a binary value of malicious or benign. Instead, it is recommended to use the **Normalize Threat Score** parameter to create a more granular range to use in your ThreatQ Scoring Policy. Options include:

- Threat Score
- Confidence Score
- Severity
- Verdict
- Safe Browsing Verdict
- Category
- Tags
- Type Tags
- Is Pervasive
- Malicious Count
- Suspicious Count
- AS Organization
- RIR
- Country Code
- Continent Code
- ASN
- Meaningful Name
- Site Title
- Last Submission Date
- Mandiant Score (Deprecated)
- Crowdsourced IDS Signatures (Short)



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Indicator Description

Select the context used to populate each indicator's description based on available fields. Options include:

Context Selection

- GTI Assessment
- WHOIS
- Crowdsourced AI Summary
- Crowdsourced Context
- Associated Names
- Outgoing Links
- Crowdsourced YARA Results
- Sigma Analysis Results

Ingests ASNs As

Select which entity type to ingest ASNs as in ThreatQ. Options include:

- Attributes (*default*)
- Indicators (Type: ASN)

Enable SSL Certificate Verification

Enable this parameter for the feed to validate the host-provided SSL certificate.

Disable Proxies

Enable this option if the feed should not honor proxies set in the ThreatQ UI.

< Google Threat Intelligence Indicators



Disabled ☐ Enabled ☒

Run Integration

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration [Activity Log](#)

Overview

This feed fetches IOC collections & related context from the Google Threat Intelligence API. Intelligence such as Threat Score, Severity, Category, Verdict, and more will be ingested as attributes for each IOC, based on the configuration.

Connection & Authentication

Base URL

The base URL for the Google Threat Intelligence API. You most likely will not need to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Filtering Options

Origin Filter

Filter the results based on the origin of the intelligence. We highly recommend only selecting the curated origin to ensure data quality and reduce noise/volume.

- ☒ Google Threat Intelligence (Curated)
- ☐ Partner (i.e. AlienVaultOTX)
- ☐ Crowdsourced (i.e. Individual Users)

Google Threat Intelligence Malware Parameters

PARAMETER	DESCRIPTION
Base URL	The base URL for the Google Threat Intelligence API.  You will not have to modify this unless Google changes its API URL.
API Key	Enter your Google Threat Intelligence API Key to authenticate.
Origin Filter	Filter the results based on the origin of the intelligence. Options include: ◦ Google Threat Intelligence (Curated) (default) ◦ Partner (i.e. AlienVaultOTX) ◦ Crowdsourced (i.e. Individual Users)  ThreatQuotient highly recommends only selecting the curated origin to ensure data quality and reduce noise/volume.
Target Industry	Specify the industry objects you want to ingest.
Custom API Filter	An optional custom filter can be applied to all API requests when retrieving collections. This filter applies only to the top-level collection request and does not affect API calls used to fetch associated data. It is appended to the default query using logical AND and is evaluated alongside the existing <code>collection_type</code>, <code>origin</code>, <code>last_modification_date</code>, and <code>target_industry</code> filters. Additional details on filter construction are available at: https://gtidocs.virustotal.com/reference/list-threats.
Supplemental Context	Specify the confidence levels of the context you want to ingest. Only context with the selected confidence levels

Confidence Filter

will be included in the ingestion process. Context such as Target Industry, Target Region, Motivation, etc. are reported with a confidence level. Using this filter helps ensure that only high-confidence context is ingested into ThreatQ. Options include:

- Confirmed
- Suspected
- Unconfirmed

Context Options

Select the context for the campaign's attributes to ingest into ThreatQ. Options include:

- Target Sector
- Capability
- Target Operating Systems
- Role
- Aliases
- Last Active

Fetch Related Attack Patterns

Enable this parameter to utilize additional API calls to fetch related Attack Patterns.



This feature can quickly consume the daily rate limit.

Fetch Related Adversaries

Enable this parameter to utilize additional API calls to fetch related Adversaries.



This feature can quickly consume the daily rate limit.

Adversaries Context Selection

Select the context to bring back with each ingested Adversary. Options include:

- Target Industry
- Source Sub Region

- Target Region
- Target Sub Region
- Target Country
- Target Country Code
- Source Region
- Source Country
- Source Country Code
- Motivation
- Aliases (as Tags)



This parameter is only accessible if the **Fetch Related Adversaries** parameter is enabled.

Fetch Related CVEs

Enable this parameter to utilize additional API calls to fetch related CVEs.



This feature can quickly consume the daily rate limit.

CVE Context Selection

Select the context to bring back with each ingested CVE. Options include:

- CVSS v2 Vector
- CVSS v2 Scores
- CVSS v3 Vector *(default)*
- CVSS v3 Scores *(default)*
- Exploitation Vectors
- EPSS Score *(default)*



This parameter is only accessible if the **Fetch Related CVEs** parameter is enabled.

Ingest CVEs As

Select which entity type to ingest CVEs as into ThreatQ. Options include:

- Vulnerabilities
- Indicators (CVE)



This parameter is only accessible if the **Fetch Related CVEs** parameter is enabled.

Fetch Related Indicators

Enable this parameter to utilize additional API calls to fetch related Indicators.



This feature can quickly consume the daily rate limit.

Ingested Indicator Types

Select the types of indicators to ingest into ThreatQ. Options include:

- IP Addresses *(default)*
- URLs *(default)*
- Domains *(default)*
- Hashes *(default)*



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Ingested Related Hash Types

Optional - Select the types of the related hashes to ingest for SHA-256. Options include:

- MD5
- SHA-1
- SHA-256



This parameter is only accessible if you have selected the Hashes for the **Ingested Indicator Types** parameter.

Minimum Threat Score Threshold

Enter the minimum score required to ingest a related indicator. The default value is 40.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Active if Verdict is Malicious

Enable this parameter to dynamically set the status of indicators with a verdict of malicious to Active.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Set Indicator Status to Whitelisted if Threat Score is 0

Enable this parameter to dynamically set the status of indicators with threat scores of 0 to whitelisted.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Normalize Threat Scores

Enable this parameter to normalize the Threat Score from the default 0-100 range to a human-readable value. The normalization will be based on the mapping field set in **Threat Score Normalization Mapping** parameter. This is useful for developing a ThreatQ Scoring Policy that is based on these normalized values.



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Threat Score Normalization Mapping

Enter your mapping to normalize the numeric threat score values to the scorable attribute, Normalized Threat Score. The raw Threat Score value will always be ingested. This mapping should contain a line-separated CSV-formatted string with the following columns: Minimum, Maximum, Normalized Value. *default: (0,39,Low 40,79,Medium 80,94,High 95,100,Critical)*



This parameter is only accessible if the **Fetch Related Indicators** and **Normalize Threat Scores** parameters are enabled.

Indicator Context Selection

Select the context to bring back with each ingested indicator. Verdict is not enabled by default as it's a binary value of malicious or benign. Instead, it is recommended to use the **Normalize Threat Score** parameter to create a more granular range to use in your ThreatQ Scoring Policy. Options include:

- Threat Score
- Confidence Score
- Severity
- Verdict
- Safe Browsing Verdict
- Category
- Tags
- Type Tags
- Is Pervasive
- Malicious Count
- Suspicious Count
- AS Organization
- RIR
- Country Code
- Continent Code
- ASN
- Meaningful Name
- Site Title
- Last Submission Date
- Mandiant Score (Deprecated)
- Crowdsourced IDS Signatures (Snort)



This parameter is only accessible if the **Fetch Related Indicators** parameter is enabled.

Indicator Description Context Selection

Select the context used to populate each indicator's description based on available fields. Options include:

- GTI Assessment
- WHOIS
- Crowdsourced AI Summary
- Associated Names
- Outgoing Links
- Crowdsourced YARA Results

	◦ Crowdsourced Context ◦ Sigma Analysis Results
Ingests ASNs As	Select which entity type to ingest ASNs as in ThreatQ. Options include: ◦ Attributes (<i>default</i>) ◦ Indicators (Type: ASN)
Enable SSL Certificate Verification	Enable this parameter for the feed to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the feed should not honor proxies set in the ThreatQ UI.



Disabled

☒

Enabled

Run Integration

Uninstall

Additional Information
 Integration Type: Feed
 Version:

Configuration

Activity Log

Overview
 This feed fetches malware profiles & related context from the Google Threat Intelligence API. Intelligence such as Malware Roles, Capabilities, Target Industries, Operating Systems, and more will be ingested as attributes for each malware, based on the configuration.
 NOTE: This feed requires a Google Threat Intelligence (Google TI) Enterprise or Enterprise Plus license.
 WARNING: Running this feed historically along with fetching additional associations will result in a large number of API calls (potentially thousands). Please ensure your Google TI license has sufficient API quota to accommodate this.

Connection & Authentication

Base URL

The base URL for the Google Threat Intelligence API. You most likely will not need to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Filtering Options
Origin Filter
 Filter the results based on the origin of the intelligence. We highly recommend only selecting the curated origin to ensure data quality and reduce noise/volume.

☒ Google Threat Intelligence (Curated)
 ☐ Partner (i.e. AlienVaultOTX)
 ☐ Crowdsourced (i.e. Individual Users)

Google Threat Intelligence Threat Lists Parameters

PARAMETER	DESCRIPTION
-----------	-------------

Base URL

The base URL for the Google Threat Intelligence API.



You will not have to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Threat Lists

Select the threat lists to pull IoCs from. Each Threat List will be marked with the required license level required to pull the content. Options include:

- Ransomware (All)
- Malicious Network Infrastructure (All)
- Malware (Enterprise & Enterprise Plus)
- Threat Actor (Enterprise & Enterprise Plus)
- Daily Top Trending (Enterprise & Enterprise Plus)
- Mobile (Enterprise Plus)
- OS X (Enterprise Plus)
- Linux (Enterprise Plus)
- Internet of Things (Enterprise Plus)
- Cryptominers (Enterprise Plus)
- Phishing (Enterprise Plus)
- First Stage Delivery Vectors (Enterprise Plus)
- Vulnerability Weaponization (Enterprise Plus)
- Infostealers (Enterprise Plus)

Ingested Indicator Types

Select the types of indicators to ingest into ThreatQ. Options include:

- IP Addresses (*default*)
- URLs (*default*)
- Domains (*default*)
- Hashes (*default*)

Minimum Threat Score Threshold

Enter the minimum score (0-100) required to an indicator from the API and ingest into ThreatQ. ThreatQuotient highly recommend that you set this value to at least 40, the default value, to avoid ingesting low-confidence indicators.

Minimum Positive Detections Threshold

Enter the minimum positive detections required to return an indicator from the API and ingest into ThreatQ. This must be a numeric value with a minimum of 0.

Require Malware Family Association

Enable this parameter to configure the feed to only return indicators from the API that have a malware family associated with them.

Require Campaign Association

Enable this parameter to configure the feed to only return indicators from the API that have a campaign associated with them.

Require Report Association

Enable this parameter to configure the feed to only return indicators from the API that have a report associated with them.

Require Threat Actor Association

Enable this parameter to configure the feed to only return indicators from the API that have a threat actor associated with them.

Ingested Severities

Select the severities of the indicators to ingest. This allows you to filter out indicators that do not meet a certain severity level criteria. This option will be used in addition to the "Minimum Threat Score Threshold" and "Minimum Positive Detections Threshold" options above. Options include

- None
- Unknown
- Low (*default*)
- Medium (*default*)
- High (*default*)

Ingested Hash Types

Optional - Select the types of the related hashes to ingest for indicators. Options include:

- MD5
- SHA-1
- SHA-256

Set Indicator Status to Active if Verdict is Malicious

Enable this parameter to dynamically set the status of indicators with a verdict of malicious to Active.

Set Indicator Status to Whitelisted if Threat Score is 0

Enable this parameter to dynamically set the status of indicators with threat scores of 0 to whitelisted.

Indicator Context Selection

Select the context to bring back with each ingested indicator. Verdict is not enabled by default as it's a binary value of malicious or benign. Instead, it is recommended to use the **Normalize Threat Score** parameter to create a more granular range to use in your ThreatQ Scoring Policy. Options include:

- Threat List
- Threat Type
- Threat Score
- Severity
- Verdict
- Category
- Malicious Count
- Suspicious Count
- Last Submission Date
- Meaningful Name
- Continent Code
- Country Code
- ASN
- AS Organization
- Regional Internet Registry
- Last HTTP Response Code
- Site Title
- Tags
- Type Tags

Indicator Association Selection

Select the context used to populate each indicator's description based on available fields. Options include:

- Malware Families
- Threat Actors

Normalize Threat Scores

Enable this parameter to normalize the Threat Score from the default 0-100 range to a human-readable value. The normalization will be based on the mapping field set in **Threat Score Normalization Mapping** parameter. This is useful for developing a ThreatQ Scoring Policy that is based on these normalized values.

Threat Score Normalization Mapping

Enter your mapping to normalize the numeric threat score values to the scorable attribute, Normalized Threat Score. The raw Threat Score value will always be ingested. This mapping should contain a line-separated CSV-formatted string with the following columns: Minimum, Maximum, Normalized Value. *default: (0,39,Low 40,79,Medium 80,94,High 95,100,Critical)*

Ingests ASNs As

Select which entity type to ingest ASNs as in ThreatQ. Options include:

- Attributes (*default*)
- Indicators (Type: ASN)

Enable SSL Certificate Verification

Enable this parameter for the feed to validate the host-provided SSL certificate.

Disable Proxies

Enable this option if the feed should not honor proxies set in the ThreatQ UI.

< Google Threat Intelligence Threat Lists



Disabled ☐ Enabled

Run Integration

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration
Activity Log

Overview

Google Threat Intelligence Threat Lists provide Indicators of Compromise such as files, URLs, domains, and IP addresses, categorized by their security engine partners and/or Google TI experts.

This integration will pull (up to) the latest 4,000 Indicators of Compromise from each of the selected Threat Lists. This integration does not provide historical IoCs due to sheer volume.

Connection & Authentication

Base URL

The base URL for the Google Threat Intelligence API. You most likely will not need to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Threat List Options

The following configuration items allow you to select which threat lists are fetched from the GTI API. If you do not have permissions/access to a particular threat list, the integration will skip the list.

Threat Lists are hourly generated as IoCs packages, with 2 hours difference from the current time. This means that if the current time in UTC is T, you can get T-2h worth of Threat List IoCs.

Threat Lists

Select the threat lists to pull IoCs from. Each Threat List will be marked with the required license level required to pull the content.

- ☐ Ransomware (All)
- ☒ Malicious Network Infrastructure (All)
- ☐ Malware (Enterprise & Enterprise Plus)

Google Vulnerability Intelligence Parameters

PARAMETER

DESCRIPTION

Base URL

The base URL for the Google Threat Intelligence API.



You will not have to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Origin Filter

Filter the results based on the origin of the intelligence. Options include:

- Google Threat Intelligence (Curated) (default)
- Partner (i.e. AlienVaultOTX)
- Crowdsourced (i.e. Individual Users)



ThreatQuotient highly recommends only selecting the curated origin to ensure data quality and reduce noise/volume.

Target Industry

Specify the industry objects you want to ingest.

Custom API Filter

An optional custom filter can be applied to all API requests when retrieving collections. This filter applies only to the top-level collection request and does not affect API calls used to fetch associated data. It is appended to the default query using logical AND and is evaluated alongside the existing `collection_type`, `origin`, `last_modification_date`, and `target_industry` filters. Additional details on filter construction are available at: <https://gtidocs.virustotal.com/reference/list-threats>.

Risk Rating Filter

Select the risk ratings for vulnerabilities to ingest into ThreatQ. Options include:

- Low
- Medium (*default*)
- High (*default*)
- Critical (*default*)

Exploitation State Filter

Select the exploitation states for vulnerabilities to ingest into ThreatQ. Options include:

- No Known (*default*)

- Confirmed *(default)*
- Reported *(default)*
- Suspected *(default)*

**Exploitation
Vector Filter**

Select the exploitation vectors for vulnerabilities to ingest into ThreatQ. Options include:

- | | |
|---|--|
| ◦ Administrative Interface <i>(default)</i> | ◦ Malicious File <i>(default)</i> |
| ◦ Bluetooth Access <i>(default)</i> | ◦ Malicious Server <i>(default)</i> |
| ◦ Browser <i>(default)</i> | ◦ Open Port <i>(default)</i> |
| ◦ Email <i>(default)</i> | ◦ Physical Access <i>(default)</i> |
| ◦ Exposed Web Application <i>(default)</i> | ◦ Short Range Radio <i>(default)</i> |
| ◦ File Share <i>(default)</i> | ◦ Unspecified Local Vector <i>(default)</i> |
| ◦ General Network Connectivity <i>(default)</i> | ◦ Unspecified Remote Vector <i>(default)</i> |
| ◦ Local Access <i>(default)</i> | ◦ VPN Access <i>(default)</i> |
| ◦ Local Network Access <i>(default)</i> | ◦ Web <i>(default)</i> |
| ◦ Malicious Application <i>(default)</i> | ◦ WiFi Access <i>(default)</i> |

**Specific
Vulnerability
Filter**

Select particularities to use to filter vulnerabilities. Options include:

- | | |
|--------------------------------------|---------------------------------|
| ◦ Must Affect Cloud | ◦ Must be observed In The Wild |
| ◦ Must Affect Operational Technology | ◦ Must require User Interaction |

	◦ Must be CISA Exploited ◦ Must Have Exploits	◦ Must have Zero Day
--	--	--

Ingest CVEs As

Select which entity type to ingest CVEs as in ThreatQ. Options include:

- Indicators
- Vulnerabilities (*default*)

Vulnerability Attribute Context

Select the context for vulnerabilities to ingest into ThreatQ. Options include:

- | | |
|---|---|
| ◦ Available Mitigation (<i>default</i>) | ◦ Exploitation Vector (<i>default</i>) |
| ◦ CWE (<i>default</i>) | ◦ MVE ID |
| ◦ Affected Platforms (Based on CPEs) | ◦ Observed in the Wild (<i>default</i>) |
| ◦ Affected Products (Based on CPEs) | ◦ Risk Rating (<i>default</i>) |
| ◦ Affected Vendors (Based on CPEs) (<i>default</i>) | ◦ Has Zero Day (<i>default</i>) |
| ◦ Exploitation Consequence (<i>default</i>) | ◦ Is Predicted |
| ◦ Exploitation State (<i>default</i>) | ◦ Targeted Industry (<i>default</i>) |

Description Context

Select the pieces of context to include in the vulnerability's description. Options include:

- | | |
|----------------------------------|--|
| ◦ Analysis (<i>default</i>) | ◦ Vendor Fix References (<i>default</i>) |
| ◦ Description (<i>default</i>) | ◦ Vulnerable CPEs |

- Executive Summary *(default)*
- Sources *(default)*
- Workarounds *(default)*
- CVSS Ratings *(default)*

CVSS Attribute Context

Select the CVSS context for vulnerabilities to ingest into ThreatQ. Options include:

- Base Score *(default)*
- Exploit Code Maturity *(default)*
- Temporal Score *(default)*
- Vector String *(default)*

Enable SSL Certificate Verification

Enable this parameter for the feed to validate the host-provided SSL certificate.

Disable Proxies

Enable this option if the feed should not honor proxies set in the ThreatQ UI.

< Google Vulnerability Intelligence



Disabled ☐ Enabled ☒

Run Integration

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration Activity Log

Overview

This feed will fetch and ingest the latest vulnerabilities & supporting context, reported by Google Threat Intelligence.

Two main pieces of data will be ingested by this feed, a Vulnerability Object and its corresponding CVE ID as an Object. You can configure the feed to ingest these CVE IDs as either a Vulnerability Object and/or an Indicator Object, with the CVE type. Some vulnerabilities reported by Google do not have a CVE ID assigned to them yet. For these, there is no CVE to be ingested as an Indicator Object, so it will fall back to ingesting the MVE ID as a Vulnerability Object.

Ingestion Options

Base URL

The base URL for the Google Threat Intelligence API. You most likely will not need to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Filter Options

Origin Filter

Filter the results based on the origin of the intelligence. We highly recommend only selecting the curated origin to ensure data quality and reduce noise/volume.

- ☒ Google Threat Intelligence (Curated)
- ☐ Partner (i.e. AlienVaultOTX)
- ☐ Crowdsourced (i.e. Individual Users)

Google Digital Threat Monitoring Alerts Parameters

PARAMETER	DESCRIPTION
Base URL	The base URL for the Google Threat Intelligence API.  You will not have to modify this unless Google changes its API URL.
API Key	Enter your Google Threat Intelligence API Key to authenticate.
Status Filter	Select the status for alerts to ingest into ThreatQ. Options include: ◦ New ◦ Read ◦ Escalated ◦ In Progress ◦ Closed ◦ No Action Required ◦ Duplicate ◦ Not Relevant ◦ Tracked External
Type Filter	Select the type for alerts to ingest into ThreatQ. Options include: ◦ Compromised Credentials ◦ Domain Discovery ◦ Forum Post ◦ Message ◦ Paste ◦ Shop Listing ◦ Tweet ◦ Web Content
Severity Filter	Select the severity for alerts to ingest into ThreatQ. Options include: ◦ High

- Medium
- Low

Context Selection

Select the context to bring back with each ingested alert. Options include:

- Alert Type
- Confidence Score
- Malicious Count
- Severity
- Similarity Score
- Status
- Monitor
- Labels (As Tags)
- Organization
- Identity
- Product
- Brand
- City
- Country

Indicator Relationship Filter

Select the specific entities from the alert to ingest as related indicators. Options include:

- MD5
- SHA-1
- SHA-256
- Filename
- File Path
- FQDN
- IP Address
- IPv6 Address
- URL
- Email Address
- Telegram Username

Enable SSL Certificate Verification

Enable this parameter for the feed to validate the host-provided SSL certificate.

Disable Proxies

Enable this option if the feed should not honor proxies set in the ThreatQ UI.

Google Digital Threat Monitoring Alerts



Disabled ☒ Enabled

Run Integration

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration Activity Log

Overview

This feed fetches alerts about the current organization.

Connection & Authentication

Base URL

The base URL for the Google Threat Intelligence API. You most likely will not need to modify this unless Google changes its API URL.

API Key

Enter your Google Threat Intelligence API Key to authenticate.

Filtering Options

Status Filter

Select the status for alerts you would like to ingest.

- ☒ New
- ☒ Read
- ☒ Escalated
- ☒ In Progress
- ☒ Closed
- ☒ No Action Required
- ☒ Duplicate
- ☒ Not Relevant

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

Google Threat Intelligence

The Google Threat Intelligence feed ingests ingests compromised Adversary objects and any related Indicators, Malware, Vulnerabilities, and Attack Patterns.

GET {base_url}/api/v3/collections?filter=collection_type:threat-actor

Sample Response:

```
{
  "data": [
    {
      "id": "threat-actor--8211bc17-9216-5e83-b54d-d1b04add12f3",
      "type": "collection",
      "links": {
        "self": "https://www.virustotal.com/api/v3/collections/threat-actor--8211bc17-9216-5e83-b54d-d1b04add12f3"
      },
      "attributes": {
        "merged_actors": [
          {
            "value": "UNC3856",
            "first_seen": 1655826491,
            "description": "threat-actor--6bddb7c2-bb5c-5f1f-9f95-1ef370189c1a",
            "confidence": "confirmed",
            "last_seen": 1655826491
          }
        ],
        "detection_names": [],
        "available_mitigation": [],
        "recent_activity_summary": [
          273,
          641
        ],
        "targeted_industries": [],
        "top_icon_md5": [
          "a9bed4661fae1103c9f7e6cc3b718932",
          "a681bad11b862d06eeec1352e97630ef"
        ]
      }
    }
  ]
}
```

```

        "e757fba9022b94d32b1ba2189e4051da"
    ],
    "targeted_regions_hierarchy": [
        {
            "region": "Europe",
            "sub_region": "Western Europe",
            "country": "Austria",
            "country_iso2": "AT",
            "confidence": "confirmed",
            "first_seen": 1520867153,
            "last_seen": 1710319777,
            "description": null,
            "source": null
        }
    ],
    "targeted_informations": [],
    "capabilities": [],
    "references_count": 350,
    "first_seen_details": [
        {
            "value": "2007-01-16T00:00:00Z",
            "first_seen": null,
            "description": null,
            "confidence": "confirmed",
            "last_seen": null
        }
    ],
    "operating_systems": [],
    "technologies": [],
    "malware_roles": [],
    "ip_addresses_count": 459,
    "alt_names": [
        "Group74 (Cisco Systems)",
        "Fancy Bear (DuskRise Inc.)",
        "Frozenlake (Google)",
        "APT28 (Google)"
    ],
    "threat_scape": [],
    "workarounds": [],
    "motivations": [
        {
            "value": "Attack / Destruction",

```

```

        "first_seen": null,
        "description": null,
        "confidence": "confirmed",
        "last_seen": null
    },
    {
        "value": "Espionage",
        "first_seen": null,
        "description": null,
        "confidence": "confirmed",
        "last_seen": null
    }
],
"summary_stats": {
    "first_submission_date": {
        "min": 0.0,
        "max": 1750336636.0,
        "avg": 1398991817.8962307
    },
},
"collection_links": [],
"urls_count": 834,
"risk_factors": [],
"targeted_regions": [
    "TR",
    "CZ",
    "PT"
],
"status": "COMPUTED",
"name": "APT28",
"alt_names_details": [
    {
        "value": "APT28 (Google)",
        "first_seen": null,
        "description": null,
        "confidence": "confirmed",
        "last_seen": null
    }
],
"vulnerable_products": "",
"vendor_fix_references": [],
"files_count": 1988,

```

```

    "last_seen_details": [
      {
        "value": "2025-06-19T19:51:19Z",
        "first_seen": null,
        "description": null,
        "confidence": "confirmed",
        "last_seen": null
      }
    ],
    "field_sources": [],
    "is_content_translated": false,
    "intended_effects": [],
    "targeted_industries_tree": [
      {
        "industry_group": "Aerospace & Defense",
        "industry": null,
        "confidence": "confirmed",
        "first_seen": 1441948486,
        "last_seen": 1749112145,
        "description": null,
        "source": null
      }
    ],
    "subscribers_count": 45,
    "first_seen": 1168905600,
    "collection_type": "threat-actor",
    "last_modification_date": 1751251305,
    "domains_count": 995,
    "counters": {
      "files": 1988,
      "domains": 995,
      "ip_addresses": 459,
      "urls": 834,
      "iocs": 4276,
      "subscribers": 45,
      "attack_techniques": 177
    },
    "tags": [],
    "affected_systems": [],
    "description": "APT28 is a highly active cyber espionage group that has employed a variety of malware and TTPs, including spearphishing, watering holes, credential collection, and

```

the exploitation of mobile platforms, toward intelligence collection intended to provide political and military advantage. APT28 operations have primarily impacted entities across the public and private sectors in North America and Europe, and the group, which multiple governments have attributed to Unit 26165 within the Main Directorate of the General Staff of the Armed Forces of the Russian Federation (GRU), has heavily targeted Ukraine in particular following Russia's February 2022 full-scale invasion. However, we have also observed APT28's targeting of government and military entities in other regions such as the Middle East and Asia, and open-source reporting further corroborates our observations of the group's activity in these regions.",

```

    "recent_activity_relative_change":
-0.0510632142340518,
    "private": true,
    "source_region": "RU",
    "version_history": [],
    "creation_date": 1168905600,
    "mitigations": [],
    "source_regions_hierarchy": [
        {
            "region": "Europe",
            "sub_region": "Eastern Europe",
            "country": "Russian Federation",
            "country_iso2": "RU",
            "confidence": "confirmed",
            "first_seen": null,
            "last_seen": null,
            "description": null,
            "source": null
        }
    ],
    "exploitation_vectors": [],
    "autogenerated_tags": [
        "armadillo",
        "attachment",
        "cve-2021-40444"
    ],
    "origin": "Google Threat Intelligence",
    "last_seen": 1750362679,
    "tags_details": [],
    "aggregations": {
        "files": {

```

```

        "itw_urls": [
            {
                "value": "http://
45.77.156.179/1.html",
                "count": 2,
                "total_related": 2,
                "prevalence": 1.0
            }
        ],
        "email_subjects": [
            {
                "value": "Test Meeting",
                "count": 12,
                "total_related": 22,
                "prevalence": 0.5454545454545454
            }
        ],
        "email_senders": [
            {
                "value": "commercial@vanadrink.com",
                "count": 5,
                "total_related": 5,
                "prevalence": 1.0
            }
        ],
        "contacted_urls": [
            {
                "value": "http://23.227.196.215/
close/?ags=0By5Qj-
s0zvkV&ags=K4g4_hHH7vf&oprnd=ui&aq=8zrsUz&utm=Kth&from=unSCXQ&text=d8
2Ggk3&itwm=NjLTWK3ardX5QxCNwzzSe5h0AQUh1",
                "count": 1,
                "total_related": 1,
                "prevalence": 1.0
            }
        ],
        "contacted_domains": [
            {
                "value": "api.btloader.com",
                "count": 10,
                "total_related": 11436,
                "prevalence": 0.0008744316194473592
            }
        ]
    }
}

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    }
  ],
  "contacted_ips": [
    {
      "value": "91.208.207.223",
      "count": 5,
      "total_related": 159,
      "prevalence": 0.031446540880503145
    }
  ],
  "execution_parents": [
    {
      "value":
"54a27464c7ad7f2e32cd123b27c0f9082590cd5ba48526bf00728e8107048f48",
      "count": 3,
      "total_related": 4,
      "prevalence": 0.75
    }
  ],
  "compressed_parents": [
    {
      "value":
"069a20cb5daaef9ff756cfd19f3ddfa4d7ecddd73d6e9f744e7156ea07d0801c",
      "count": 4,
      "total_related": 8,
      "prevalence": 0.5
    }
  ],
  "pcap_parents": [
    {
      "value":
"06b691b5d6b12c72afaa9caed3c5fc158bbab18188262f49608ff68ab5479fb2",
      "count": 1,
      "total_related": 1,
      "prevalence": 1.0
    }
  ],
  "dropped_files_sha256": [
    {
      "value":
"caa37f136c564145d0447d1d573e880fa4f1d31c430de7fc585ae6439a8a7329",

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        "count": 7,
        "total_related": 72435,
        "prevalence": 9.663836543107614e-05
    }
],
"email_parents": [
    {
        "value":
"a301260b4887b1f2126821825cacce19dc5b8a8006ab04f0a26f098a9555750a",
        "count": 2,
        "total_related": 2,
        "prevalence": 1.0
    }
],
"tags": [
    {
        "value": "pedll",
        "count": 59
    }
],
"main_icon_dhash": [
    {
        "value": "0000100033320000",
        "count": 5,
        "total_related": 7,
        "prevalence": 0.7142857142857143
    }
],
"main_icon_raw_md5": [
    {
        "value":
"a9bed4661fae1103c9f7e6cc3b718932",
        "count": 5,
        "total_related": 7,
        "prevalence": 0.7142857142857143
    }
],
"vhash": [
    {
        "value":
"96a88ebaa2fe6fe510c5af279ce832ce1",
        "count": 29,

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        "total_related": 23058,
        "prevalence": 0.0012576979790094543
    },
    ],
    "imphash": [
        {
            "value":
"1e79c6496a07d4391cba25a551392410",
            "count": 15,
            "total_related": 61,
            "prevalence": 0.2459016393442623
        }
    ],
    "behash": [
        {
            "value":
"76a8f43d77060240bf707251c1cd5008",
            "count": 6,
            "total_related": 49242,
            "prevalence": 0.00012184720360667723
        }
    ],
    "telfhash": [
        {
            "value":
"t139f05945fa380b9649d2ac24dc1e05674593e379e524eb04bf95ced00c7e001f7a
8daa",
            "count": 1,
            "total_related": 1,
            "prevalence": 1.0
        }
    ],
    "tlshhash": [
        {
            "value":
"T149D308B7131017BE69468B489FA86D4D3224D4B770B685C4FBAE9B28CF439EF813
5D14",
            "count": 2,
            "total_related": 2,
            "prevalence": 1.0
        }
    ],
    ],

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        "elfhash": [
            {
                "value":
"4bf18b2cee846e961b86562f856b69d0",
                "count": 1,
                "total_related": 1,
                "prevalence": 1.0
            }
        ],
        "attributions": [
            {
                "value": "gamefish",
                "count": 124,
                "total_related": 337,
                "prevalence": 0.36795252225519287
            }
        ],
        "crowdsourced_ids_results": [
            {
                "value": {
                    "id": "1:2047948",
                    "message": "ET INFO Custom
Endpoint Service Domain in DNS Lookup (run .mocky .io)",
                    "category": "bad-unknown",
                    "source": "Proofpoint Emerging
Threats Open",
                    "url": "https://
rules.emergingthreats.net/",
                    "rule": "alert dns $HOME_NET any
-> any any (msg:\"ET INFO Custom Endpoint Service Domain in DNS
Lookup (run .mocky .io)\"; dns.query; bsize:12; content:
\"run.mocky.io\"; nocase; classtype:bad-unknown; sid:2047948; rev:1;
metadata:attack_target Client_Endpoint, created_at 2023_09_07,
deployment Perimeter, performance_impact Low, confidence High,
signature_severity Informational, updated_at 2023_09_07, reviewed_at
2024_04_09; target:src_ip;)"
                },
                "count": 40,
                "total_related": 87,
                "prevalence": 0.45977011494252873
            }
        ],
    ],

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        "embedded_domains": [
            {
                "value": "run.mocky.io",
                "count": 38,
                "total_related": 9048,
                "prevalence": 0.004199823165340406
            }
        ],
        "embedded_ips": [
            {
                "value": "24.17.89.89",
                "count": 26,
                "total_related": 26,
                "prevalence": 1.0
            }
        ],
        "embedded_urls": [
            {
                "value": "https://accounts.ukr.net/
login/favicon.ico",
                "count": 23,
                "total_related": 97,
                "prevalence": 0.5021367521367521
            }
        ],
        "mutexes_created": [
            {
                "value": "\\Sessions\\1\\
\\BaseNamedObjects\\vgekW8b1st6yjjzPA9fewB70o7KC",
                "count": 4,
                "total_related": 32,
                "prevalence": 0.125
            }
        ],
        "mutexes_opened": [
            {
                "value": "Local\\
\\4F75746C6F6B5E16934AF0EE4642B5A2BDBA4CC7666902_S-1-5-21-870151485-
863566166-2146164720-1000",
                "count": 5,
                "total_related": 23584,
                "prevalence": 0.00021200814111261874
            }
        ]
    }
}

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    }
  ],
  "registry_keys_deleted": [
    {
      "value": "HKLM\\SOFTWARE\\MICROSOFT\\
\\OFFICE\\14.0\\WORD\\FILE MRU",
      "count": 2,
      "total_related": 651,
      "prevalence": 0.0030721966205837174
    }
  ],
  "registry_keys_opened": [
    {
      "value": "52-54-00-63-20-e5\\
\\WpadDecisionReason",
      "count": 1,
      "total_related": 165,
      "prevalence": 0.006060606060606061
    }
  ],
  "registry_keys_set": [
    {
      "value": "HKEY_CLASSES_ROOT\\
\\Wow6432Node\\CLSID\\{3543619C-D563-43f7-95EA-4DA7E1CC396A}\\
\\InProcServer32\\(Default)",
      "count": 1,
      "total_related": 2,
      "prevalence": 0.5
    }
  ],
  "file_types": [
    {
      "value": "html",
      "count": 187
    }
  ],
  "crowdsourced_sigma_results": [
    {
      "value": {
        "id":
"8b884f70bb47a8e06faf8f548fcfef77fe3802d22c310c4cdfa01f35cb030bac",
        "level": "medium",

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        "title": "WSF/JSE/JS/VBA/VBE File
Execution Via Cscript/Wscript",
        "author": "Michael Haag",
        "source_url": "https://
github.com/Neo23x0/sigma",
        "source": "Sigma Integrated Rule
Set (GitHub)",
        "description": "Detects script
file execution (.js, .jse, .vba, .vbe, .vbs, .wsf) by Wscript/
Cscript"
    },
    "count": 18,
    "total_related": 92144,
    "prevalence": 0.00019534641430803959
  }
],
"debug_codeview_guids": [
  {
    "value": "d7633b5d-7f73-4804-
b5e7-78663bfec15e",
    "count": 2,
    "total_related": 2,
    "prevalence": 1.0
  }
],
"debug_codeview_names": [
  {
    "value": "Z:\\\\PROJECTS\\\\D111\\\\x64\\
\\Release\\\\D111.pdb",
    "count": 6,
    "total_related": 6,
    "prevalence": 1.0
  }
],
"debug_timestamps": [
  {
    "value": "Wed Aug 10 07:38:01 2016",
    "count": 5,
    "total_related": 5,
    "prevalence": 1.0
  }
],

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        "dropped_files_path": [
            {
                "value": "C:\\ProgramData\\Microsoft\\
\\Windows\\WER\\Temp\\WER1122.tmp.WERInternalMetadata.xml",
                "count": 2,
                "total_related": 21825,
                "prevalence": 9.163802978235968e-05
            }
        ],
        "elfinfo_exports": [
            {
                "value":
                "_ZStplIwSt11char_traitsIwESaIwEESbIT_T0_T1_ERKS6_S8_",
                "count": 3,
                "total_related": 1218,
                "prevalence": 0.0024630541871921183
            }
        ],
        "elfinfo_imports": [
            {
                "value":
                "_ZNSbIwSt11char_traitsIwESaIwEE5beginEv",
                "count": 3,
                "total_related": 808,
                "prevalence": 0.0037128712871287127
            }
        ],
        "exiftool_authors": [
            {
                "value": "Rafael Moon",
                "count": 3,
                "total_related": 8,
                "prevalence": 0.375
            }
        ],
        "exiftool_create_dates": [
            {
                "value": "2022:09:08 03:07:43+00:00",
                "count": 14,
                "total_related": 51,
                "prevalence": 0.27450980392156865
            }
        ]
    }

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],
"exiftool_creators": [
  {
    "value": "Apache Software
Foundation",
    "count": 2,
    "total_related": 16254,
    "prevalence": 0.00012304663467454166
  }
],
"exiftool_last_printed": [
  {
    "value": "2008:01:08 14:56:00Z",
    "count": 1,
    "total_related": 1,
    "prevalence": 1.0
  }
],
"exiftool_producers": [
  {
    "value": "Qt 4.8.7",
    "count": 2,
    "total_related": 100000,
    "prevalence": 2e-05
  }
],
"exiftool_subjects": [
  {
    "value": "TVqQAAMAAAAEAAAA//
8AALgAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4AAAAA4
fug4AtAnNIbgBTM0hVGhpcyBwcm9ncmFtIGNhbm5vdCBiZSBydW4gaW4gRE9TIG1vZGUu
DQ0KJAAAAAAAAACseA3F6BljlugZY5boGW0Wh2/IlsEZY5aHb...",
    "count": 3,
    "total_related": 3,
    "prevalence": 1.0
  }
],
"exiftool_titles": [
  {
    "value": " Good thing we disabled
macros ",
    "count": 3,

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        "total_related": 71,
        "prevalence": 0.04225352112676056
    },
],
"filecondis_dhash": [
    {
        "value": "bebabcbce86c6c350",
        "count": 15,
        "total_related": 15,
        "prevalence": 1.0
    }
],
"netassembly_mvid": [
    {
        "value": "50367b8c-fa12-4c3e-
aa3d-57620d1fa124",
        "count": 2,
        "total_related": 3,
        "prevalence": 0.6666666666666666
    }
],
"office_application_names": [
    {
        "value": "Microsoft Office Word",
        "count": 12,
        "total_related": 100000,
        "prevalence": 0.00012
    }
],
"office_authors": [
    {
        "value": "Nick Daemoji",
        "count": 3,
        "total_related": 4,
        "prevalence": 0.75
    }
],
"office_creation_datetimes": [
    {
        "value": "2017-10-03 01:36:00",
        "count": 3,
        "total_related": 9,

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        "prevalence": 0.3333333333333333
      }
    ],
    "office_last_saved": [
      {
        "value": "2012-10-31 10:10:27",
        "count": 5,
        "total_related": 11,
        "prevalence": 0.45454545454545453
      }
    ],
    "office_macro_names": [
      {
        "value": "NewMacros.bas",
        "count": 3,
        "total_related": 76472,
        "prevalence": 3.9230044983784915e-05
      }
    ],
    "pe_info_imports": [
      {
        "value": "POWRPROF.DLL",
        "count": 1,
        "total_related": 2911,
        "prevalence": 0.00034352456200618345
      }
    ],
    "pe_info_exports": [
      {
        "value": "Init1",
        "count": 34,
        "total_related": 396,
        "prevalence": 0.08585858585858586
      }
    ],
    "pe_info_section_md5": [
      {
        "value":
"4031479fbcd57a5f6c8dbf647bfcd376",
        "count": 12,
        "total_related": 196,
        "prevalence": 0.061224489795918366
      }
    ]
  }
}

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    }
  ],
  "pe_info_section_names": [
    {
      "value": ".rc_it",
      "count": 2,
      "total_related": 828,
      "prevalence": 0.0024154589371980675
    }
  ],
  "sandbox_verdicts": [
    {
      "value": "Clean",
      "count": 173,
      "sandbox_name": "Zenbox"
    }
  ],
  "signature_info_comments": [
    {
      "value": "Check Network
Identification",
      "count": 3,
      "total_related": 5,
      "prevalence": 0.6
    }
  ],
  "signature_info_copyrights": [
    {
      "value": "Â® Microsoft Corporation.
All rights reserved.",
      "count": 83,
      "total_related": 1117,
      "prevalence": 0.07430617726051925
    }
  ],
  "signature_info_descriptions": [
    {
      "value": "Network Identification
Service DLL",
      "count": 33,
      "total_related": 53,
      "prevalence": 0.6226415094339622
    }
  ]
}

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    }
  ],
  "signature_info_internal_names": [
    {
      "value": "NetIds.dll",
      "count": 33,
      "total_related": 53,
      "prevalence": 0.6226415094339622
    }
  ],
  "signature_info_original_names": [
    {
      "value": "NetIds.dll",
      "count": 33,
      "total_related": 53,
      "prevalence": 0.6226415094339622
    }
  ],
  "signature_info_products": [
    {
      "value": "DocumentSaver",
      "count": 5,
      "total_related": 8,
      "prevalence": 0.625
    }
  ],
  "symhash": [
    {
      "value":
"704b879d425b7bbe366a345454774ff2",
      "count": 3,
      "total_related": 5,
      "prevalence": 0.6
    }
  ],
  "trusted_verdict_filenames": [
    {
      "value": "amd64_windowsdeviceportal-
WCOS-
www_31bf3856ad364e35_10.0.17751.1_none_deb753ded4321364_favicon.ico",
      "count": 1,
      "total_related": 1,

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        "prevalence": 1.0
      }
    ],
    "rich_pe_header_hash": [
      {
        "value":
"cafcda8746b34ccb88ddb50252db58d0",
        "count": 7,
        "total_related": 25,
        "prevalence": 0.28
      }
    ],
    "popular_threat_category": [
      {
        "value": "trojan",
        "count": 717
      }
    ],
    "popular_threat_name": [
      {
        "value": "sednit",
        "count": 247
      }
    ],
    "suggested_threat_label": "trojan.sednit/
sofacy",
    "attack_techniques": [
      {
        "value": "T1497.003",
        "count": 3,
        "total_related": 94867,
        "prevalence": 3.16232198762478e-05
      }
    ],
    "malware_config_family_name": [
      {
        "value": "gamefish",
        "count": 49,
        "total_related": 77,
        "prevalence": 0.6363636363636364
      }
    ],
  ],

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        "malware_config_crypto_key": [
            {
                "value": "0x32407b67472c3f42226b",
                "count": 4,
                "total_related": 10,
                "prevalence": 0.4
            }
        ],
        "malware_config_c2_url": [
            {
                "value": "http://
swsupporttools.com/",
                "count": 4,
                "total_related": 6,
                "prevalence": 0.6666666666666666
            }
        ],
        "malware_config_c2_user_agent": [
            {
                "value": "Mozilla/5.0 (Windows NT
6.1; WOW64; Trident/7.0; rv:11.0) like Gecko",
                "count": 1,
                "total_related": 100000,
                "prevalence": 1e-05
            }
        ],
        "malware_config_host_port": [
            {
                "value": "netcorpscanprotect.com",
                "count": 1,
                "total_related": 3,
                "prevalence": 0.3333333333333333
            }
        ],
        "malware_config_dropped_file": [
            {
                "value":
"a0d05eece2585035f553de7533258d7b63c96509aba4176c7844155435f89211",
                "count": 3,
                "total_related": 3,
                "prevalence": 1.0
            }
        ]
    }

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```

],
  "malware_config_dropped_file_path": [
    {
      "value":
"258887afb9501cfd860dfc2f333adb35",
      "count": 3,
      "total_related": 3,
      "prevalence": 1.0
    }
  ],
  "memory_pattern_urls": [
    {
      "value": "https://www.msn.com/",
      "count": 8,
      "total_related": 27652,
      "prevalence": 0.0002893099956603501
    }
  ],
  "attack_tactics": [
    {
      "value": "TA0011",
      "count": 794
    }
  ],
  "parent_contacted_domains": [
    {
      "value": "btloader.com",
      "count": 20,
      "total_related": 111436,
      "prevalence": 0.0001794752144728813
    }
  ]
},
"urls": {
  "attributions": [
    {
      "value": "roughedge",
      "count": 41,
      "total_related": 47,
      "prevalence": 0.8723404255319149
    }
  ]
},
],

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```

        "http_response_contents": [
            {
                "value":
"05a5f6513b2ffc4b059ce0099a0df624dc12dac43f7b98ebfe0f924af6465964",
                "count": 37,
                "total_related": 320,
                "prevalence": 0.115625
            }
        ],
        "contacted_domains": [
            {
                "value": "netmediaresources.com",
                "count": 2,
                "total_related": 3,
                "prevalence": 0.6666666666666666
            }
        ],
        "communicating_files": [
            {
                "value":
"604dbb615d6ff549f9ff3c3484a32d5e3f50853761f029f9d30c6f8eb982bf84",
                "count": 2,
                "total_related": 2,
                "prevalence": 1.0
            }
        ],
        "cookie_names": [
            {
                "value": "MBizSessionID",
                "count": 27,
                "total_related": 297,
                "prevalence": 0.09090909090909091
            }
        ],
        "cookie_values": [
            {
                "value": "00a6fcfa-
b774-401e-82ad-85af73a02f79",
                "count": 1,
                "total_related": 1,
                "prevalence": 1.0
            }
        ]
    ]
}

```

```

],
  "downloaded_files": [
    {
      "value":
"05a5f6513b2ffc4b059ce0099a0df624dc12dac43f7b98ebfe0f924af6465964",
      "count": 73,
      "total_related": 223,
      "prevalence": 0.3273542600896861
    }
  ],
  "domains": [
    {
      "value": "webhook.site",
      "count": 115,
      "total_related": 2863,
      "prevalence": 0.04016765630457562
    }
  ],
  "embedded_js": [
    {
      "value":
"6af9edac35f5a75d57f9da9e46955c4f66f35daf638cdd305acc1f0a35b292a3",
      "count": 33,
      "total_related": 72,
      "prevalence": 0.4583333333333333
    }
  ],
  "favicon_dhash": [
    {
      "value": "708c8e0a2baad0e1",
      "count": 131,
      "total_related": 5129,
      "prevalence": 0.025541041138623512
    }
  ],
  "favicon_raw_md5": [
    {
      "value":
"06bde06ab3839695045d6a0a8920d0e7",
      "count": 131,
      "total_related": 5129,
      "prevalence": 0.025541041138623512
    }
  ]
}

```

```

    }
  ],
  "html_titles": [
    {
      "value": "ÐŸÐ¼Ñ^Ñ,Ð° @ ukr.net -
ÑfÐ°Ñ€Ð°Ñ-Ð½ÑÑœÐ°Ð° ÐµÐ»»ÐµÐ°Ñ,Ñ€Ð¼Ð½Ð° Ð¿Ð¼Ñ^Ñ,Ð°",
      "count": 129,
      "total_related": 155,
      "prevalence": 0.832258064516129
    }
  ],
  "ip_addresses": [
    {
      "value": "46.4.105.116",
      "count": 69,
      "total_related": 2067,
      "prevalence": 0.033381712626995644
    }
  ],
  "memory_patterns": [
    {
      "value":
"b8324a0250ac770ccdc92dcc8e809c8804638bf6e78e69f44dce3883dfc6e89c",
      "count": 38,
      "total_related": 295,
      "prevalence": 0.1288135593220339
    }
  ],
  "outgoing_links": [
    {
      "value": "https://mail.ukr.net/
terms_uk.html",
      "count": 39,
      "total_related": 462,
      "prevalence": 0.08441558441558442
    }
  ],
  "path": [
    {
      "value": "/filedwn.php",
      "count": 73,
      "total_related": 139,

```

```

        "prevalence": 0.5251798561151079
    },
],
"prefix_paths": [
    {
        "value": "/filedwn.php",
        "count": 92,
        "total_related": 78,
        "prevalence": 1.1794871794871795
    }
],
"suffix_paths": [
    {
        "value": "/filedwn.php",
        "count": 79,
        "total_related": 71,
        "prevalence": 1.1126760563380282
    }
],
"ports": [
    {
        "value": "5000",
        "count": 11,
        "total_related": 40673,
        "prevalence": 0.00027044968406559635
    }
],
"query_strings": [
    {
        "value": "i=1",
        "count": 15,
        "total_related": 87578,
        "prevalence": 0.0001712758912055539
    }
],
"query_param_keys": [
    {
        "value": "fuid",
        "count": 2,
        "total_related": 1659,
        "prevalence": 0.0012055455093429777
    }
]

```

```

],
  "query_param_values": [
    {
      "value": "6a98168f-
f14f-4014-8b28-8329b0118936",
      "count": 5,
      "total_related": 7,
      "prevalence": 0.7142857142857143
    }
  ],
  "query_param_key_values": [
    {
      "value": "id=6a98168f-
f14f-4014-8b28-8329b0118936",
      "count": 5,
      "total_related": 7,
      "prevalence": 0.7142857142857143
    }
  ],
  "referring_files": [
    {
      "value":
"4b2b188ff864453b75071c0ba80b00f87475d880c35ecdfc1cf262eb1d587580",
      "count": 33,
      "total_related": 66,
      "prevalence": 0.5
    }
  ],
  "tags": [
    {
      "value": "external-resources",
      "count": 278
    }
  ],
  "tracker_ids": [
    {
      "value": "UA-71917162-10",
      "count": 14,
      "total_related": 8366,
      "prevalence": 0.0016734401147501792
    }
  ]
]

```

```

    },
    "domains": {
      "attributions": [
        {
          "value": "chopstick_v2",
          "count": 46,
          "total_related": 57,
          "prevalence": 0.8070175438596491
        }
      ],
      "communicating_files": [
        {
          "value":
"85c100e140389bbbc467cc348d7c17a59c27a106b6c26b2499719aee57f2cf52",
          "count": 5,
          "total_related": 6,
          "prevalence": 0.8333333333333334
        }
      ],
      "downloaded_files": [
        {
          "value":
"b00a6010b9640e448ed277a2a62fd8905284d0d60ee2b2f51c4f20d7d115c1a1",
          "count": 19,
          "total_related": 9435,
          "prevalence": 0.00201377848436672
        }
      ],
      "favicon_dhash": [
        {
          "value": "dcc69eb0b2f2f060",
          "count": 17,
          "total_related": 49,
          "prevalence": 0.3469387755102041
        }
      ],
      "favicon_raw_md5": [
        {
          "value":
"c44bbec78ebc720a8c3783f5f2f37898",
          "count": 17,
          "total_related": 49,

```

```

        "prevalence": 0.3469387755102041
      }
    ],
    "urls": [
      {
        "value": "http://
00e66943.proxy.webhookapp.com/",
        "count": 1,
        "total_related": 1,
        "prevalence": 1.0
      }
    ],
    "registrant_names": [
      {
        "value": "b94871993eab339b",
        "count": 16,
        "total_related": 11567,
        "prevalence": 0.0013832454396126913
      }
    ]
  },
  "ip_addresses": {
    "attributions": [
      {
        "value": "empire",
        "count": 14,
        "total_related": 545,
        "prevalence": 0.025688073394495414
      }
    ]
  },
  "communicating_files": [
    {
      "value":
"efc1a4706a737437b387795566ef7e9d9a3d8066d661484337c333feaa1ad204",
      "count": 2,
      "total_related": 56,
      "prevalence": 0.03571428571428571
    }
  ],
  "downloaded_files": [
    {
      "value":

```

```

"a214568945ac98c7836485c5a493334fcc3d74ab32e55c3aef371599e9431e80",
    "count": 5,
    "total_related": 20,
    "prevalence": 0.25
  }
],
"urls": [
  {
    "value": "file://124.168.91.178/
webdav/wody.pdf",
    "count": 1,
    "total_related": 1,
    "prevalence": 1.0
  }
]
}
},
"context_attributes": {
  "shared_with_me": false,
  "role": "viewer"
}
}
]
}

```

Each `.data[].id` is used to retrieve the related objects in the following Supplemental feeds.

ThreatQ provides the following default mapping for this feed based on each item within the `.data[]` list.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.attributes.name</code>	Adversary. Value	Adversary	<code>.attributes.last_modification_date</code>	APT28	N/A
<code>.attributes.alt_names_details[].value</code>	Adversary. Tag	N/A	N/A	APT28 (Google)	User-configurable.
<code>.attributes.description</code>	Adversary. Description	N/A	N/A	APT28 is a highly active cyber espionage group that ...	N/A
<code>.attributes.motivations[].value</code>	Adversary. Attribute	Motivation	<code>.attributes.last_modification_date</code>	Attack / Destruction	User-configurable. When the Motivation option is checked in the context.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.attributes.targeted_industries_tree[].industry_group</code>	Adversary.Attribute	Target Industry	<code>.attributes.latest_modification_date</code>	Aerospace & Defense	User-configurable. When the Industry option is checked in the context.
<code>.attributes.source_regions_hierarchy[].region</code>	Adversary.Attribute	Region	<code>.attributes.latest_modification_date</code>	Europe	User-configurable. When the Source Context option is checked in the context.
<code>.attributes.source_regions_hierarchy[].sub_region</code>	Adversary.Attribute	Sub Region	<code>.attributes.latest_modification_date</code>	Eastern Europe	User-configurable. When the Source Context option is checked in the context.
<code>.attributes.source_regions_hierarchy[].country</code>	Adversary.Attribute	Country	<code>.attributes.latest_modification_date</code>	Russian Federation	User-configurable. When the Source Context option is checked in the context.
<code>.attributes.source_regions_hierarchy[].country_iso2</code>	Adversary.Attribute	Country Code	<code>.attributes.latest_modification_date</code>	RU	User-configurable. When the Source Context option is checked in the context.
<code>.attributes.targeted_regions_hierarchy[].region</code>	Adversary.Attribute	Target Region	<code>.attributes.latest_modification_date</code>	Europe	User-configurable. When the Target Region option is checked in the context.
<code>.attributes.targeted_regions_hierarchy[].country</code>	Adversary.Attribute	Target Country	<code>.attributes.latest_modification_date</code>	Austria	User-configurable. When the Target Region option is checked in the context.
<code>.attributes.targeted_regions_hierarchy[].country_iso2</code>	Adversary.Attribute	Target Country Code	<code>.attributes.latest_modification_date</code>	AT	User-configurable. When the Target Region option is checked in the context.
<code>.attributes.targeted_regions_hierarchy[].sub_region</code>	Adversary.Attribute	Target Sub Region	<code>.attributes.latest_modification_date</code>	Western Europe	User-configurable. When the Target Region option is checked in the context.
<code>.id</code>	Related Malware	Malware	<code>.attributes.latest_modification_date</code>	threat-actor--8211bc17-9216-5e83-b54d-d1b04add12f3	User-configurable. ID is used in supplemental requests if configured. See Google Threat Intelligence Related Malware (Supplemental)
<code>.id</code>	Related Attack Pattern	Attack Pattern	<code>.attributes.latest_modification_date</code>	threat-actor--8211bc17-9216-5e83-b54d-d1b04add12f3	User-configurable. ID is used in supplemental requests if configured. See Google Threat Intelligence Related Attack Pattern (Supplemental)
<code>.id</code>	Related Campaign	Campaign	<code>.attributes.latest_modification_date</code>	threat-actor--8211bc17-9216-5e83-b54d-d1b04add12f3	User-configurable. ID is used in supplemental requests if configured. See Google Threat Intelligence Related Campaigns (Supplemental)
<code>.id</code>	Related Indicator/Vulnerability	CVE/Vulnerability	<code>.attributes.latest_modification_date</code>	threat-actor--8211bc17-9216-5e83-b54d-d1b04add12f3	User-configurable. ID is used in supplemental requests if configured. See Google Threat Intelligence

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
	Vulnerability			16-5e83-b54d-d1b04add12f3	Related Vulnerabilities (Supplemental)
.id	Related Indicator	IP Address/ URL/ FQDN/MD5/ SHA-1/SHA-256	.attributes.last_modification_date	threat-actor--8211bc17-9216-5e83-b54d-d1b04add12f3	User-configurable. ID is used in supplemental requests if configured. See Google Threat Intelligence Related IOC (Supplemental). A request is made for each indicator type.

Google Threat Intelligence Related Malware (Supplemental)

The Google Threat Intelligence Related Malware Supplemental feed is called once for each object `.id` returned by the main feed.

GET `{base_url}/api/v3/collections/{entity_id}/malware_families`

Sample Response:

```
{
  "data": [
    {
      "id": "malware--05b4251d-f5cf-5f90-b1b8-8d75da6d9387",
      "type": "collection",
      "links": {
        "self": "https://www.virustotal.com/api/v3/collections/malware--05b4251d-f5cf-5f90-b1b8-8d75da6d9387"
      },
      "attributes": {
        "available_mitigation": [],
        "collection_links": [],
        "detection_names": [],
        "merged_actors": [],
        "recent_activity_summary": [
          0,
          2,
          0
        ],
        "status": "COMPUTED",
        "last_seen": 1695609000,
        "ip_addresses_count": 0,
        "source_regions_hierarchy": [],
        "mitigations": [],
        "affected_systems": [],
        "recent_activity_relative_change": -0.6875,

```

```

        "counters": {
            "files": 13,
            "domains": 0,
            "ip_addresses": 0,
            "urls": 0,
            "iocs": 13,
            "subscribers": 0,
            "attack_techniques": 13
        },
        "targeted_industries_tree": [],
        "capabilities": [
            {
                "confidence": "unconfirmed",
                "last_seen": null,
                "description": "Capable of allocating
memory.",
                "first_seen": null,
                "value": "Allocates memory"
            }
        ],
        "description": "MILDMAP is an APT28 dropper for the
SOURCEFACE backdoor.",
        "last_modification_date": 1682107632,
        "alt_names_details": [],
        "alt_names": [],
        "private": true,
        "vendor_fix_references": [],
        "is_content_translated": false,
        "exploitation_vectors": [],
        "risk_factors": [],
        "malware_roles": [
            {
                "confidence": "unconfirmed",
                "last_seen": null,
                "description": null,
                "first_seen": null,
                "value": "Dropper"
            }
        ],
        "top_icon_md5": [],
        "workarounds": [],
        "last_seen_details": [

```

```

        {
            "confidence": "unconfirmed",
            "last_seen": null,
            "description": null,
            "first_seen": null,
            "value": "2023-09-25T02:30:00Z"
        }
    ],
    "summary_stats": {
        "first_submission_date": {
            "min": 1347557862.0,
            "max": 1596301806.0,
            "avg": 1418747098.6153846
        },
        "last_submission_date": {
            "min": 1373322911.0,
            "max": 1725889743.0,
            "avg": 1554571734.2307692
        },
        "files_detections": {
            "min": 28.0,
            "max": 60.0,
            "avg": 46.61538461538461
        }
    },
    "intended_effects": [],
    "name": "MILDMAP",
    "vulnerable_products": "",
    "files_count": 13,
    "field_sources": [],
    "operating_systems": [
        {
            "confidence": "unconfirmed",
            "last_seen": null,
            "description": null,
            "first_seen": null,
            "value": "Windows"
        }
    ],
    "targeted_regions_hierarchy": [],
    "creation_date": 1714525336,
    "tags": [],

```

```

    "first_seen_details": [],
    "subscribers_count": 0,
    "motivations": [],
    "domains_count": 0,
    "tags_details": [],
    "targeted_informations": [],
    "targeted_regions": [],
    "threat_scape": [],
    "autogenerated_tags": [
      "armadillo"
    ],
    "version_history": [],
    "origin": "Google Threat Intelligence",
    "collection_type": "malware-family",
    "references_count": 2,
    "urls_count": 0,
    "targeted_industries": [],
    "technologies": [],
    "aggregations": {
      "files": {
        "contacted_domains": [
          {
            "value": "www.bing.com",
            "count": 1,
            "total_related": 100000,
            "prevalence": 1e-05
          }
        ],
        "contacted_ips": [
          {
            "value": "200.106.145.122",
            "count": 2,
            "total_related": 5,
            "prevalence": 0.4
          }
        ],
        "execution_parents": [
          {
            "value":
"1acb16dc9c194718758c017c91c439423efcdce6c06ccbb3d1696304eb555b84",
            "count": 1,
            "total_related": 1,

```

```

        "prevalence": 1.0
      },
    ],
    "compressed_parents": [
      {
        "value":
"1d986e304d2a4acc507e548b70e18f4ea51b8c8ab042ab21c68feb89d002de01",
        "count": 1,
        "total_related": 1,
        "prevalence": 1.0
      }
    ],
    "tags": [
      {
        "value": "armadillo",
        "count": 9
      },
      {
        "value": "pedll",
        "count": 8
      }
    ],
    "vhash": [
      {
        "value": "154056655d15751078z3f?z1",
        "count": 5,
        "total_related": 7,
        "prevalence": 0.7142857142857143
      }
    ],
    "imphash": [
      {
        "value":
"9c58b46236c2f82467517fb1a07efe2d",
        "count": 5,
        "total_related": 10,
        "prevalence": 0.5
      }
    ],
    "behash": [
      {
        "value":

```

```

"2f603f6672ac4e8122820c10927707b2",
    "count": 3,
    "total_related": 17,
    "prevalence": 0.17647058823529413
  }
],
"tlshhash": [
  {
    "value":
"T12192AE8AF77418B3F3E71AB84C211068BB69AD71CF51EC8ED67302C518E6E5ADC2
0661",
    "count": 1,
    "total_related": 1,
    "prevalence": 1.0
  }
],
"attributions": [
  {
    "value": "mildmap",
    "count": 12,
    "total_related": 12,
    "prevalence": 1.0
  }
],
"crowdsourced_yara_results": [
  {
    "value": {
      "id": "000f4bfd25|IMPLANT_6_v3",
      "ruleset_id": "000f4bfd25",
      "ruleset_name":
"apt_grizzlybear_uscert",
      "rule_name": "IMPLANT_6_v3",
      "source": "https://github.com/
Neo23x0/signature-base"
    },
    "count": 3,
    "total_related": 23,
    "prevalence": 0.13043478260869565
  }
],
"embedded_urls": [
  {
    "value": "http://200.106.145.122/

```

```

~bars/cgi-bin/brvc.cgi?14",
        "count": 1,
        "total_related": 1,
        "prevalence": 1.0
    }
],
"mutexes_created": [
    {
        "value": "\\Sessions\\1\\
\\BaseNamedObjects\\Local\\ZonesCacheCounterMutex",
        "count": 1,
        "total_related": 100000,
        "prevalence": 1e-05
    }
],
"registry_keys_opened": [
    {
        "value": "HKEY_CURRENT_USER\\Classes\\
\\APPID\\{de5d803e-5d2a-4b5f-9c63-af25a465cc44}",
        "count": 3,
        "total_related": 87396,
        "prevalence": 3.432651379925855e-05
    }
],
"registry_keys_set": [
    {
        "value": "HKEY_LOCAL_MACHINE\\
\\software\\microsoft\\windows nt\\currentversion\\svchost\\ntsvcs",
        "count": 2,
        "total_related": 2,
        "prevalence": 1.0
    }
],
"file_types": [
    {
        "value": "pedll",
        "count": 5
    }
],
"crowdsourced_sigma_results": [
    {
        "value": {
            "id":

```

```

"63bcc6f98c4a5594772428a329b433392d70f18a841926328607f303f3d782a5",
    "level": "medium",
    "title": "Rundll32 Spawned Via
Explorer.EXE",
    "author": "CD_ROM_",
    "source_url": "https://
github.com/Neo23x0/sigma",
    "source": "Sigma Integrated Rule
Set (GitHub)",
    "description": "Detects execution
of \"rundll32.exe\" with a parent process of Explorer.exe. This has
been observed by variants of Raspberry Robin, as first reported by
Red Canary."
    },
    "count": 2,
    "total_related": 100000,
    "prevalence": 2e-05
  },
  ],
  "dropped_files_path": [
    {
      "value": "C:\\\\Users\\user\\AppData\\
\\Local\\mscsv.tmp (copy)",
      "count": 2,
      "total_related": 3,
      "prevalence": 0.6666666666666666
    }
  ],
  "filecondis_dhash": [
    {
      "value": "787a783c58902000",
      "count": 2,
      "total_related": 2,
      "prevalence": 1.0
    }
  ],
  "pe_info_imports": [
    {
      "value": "KERNEL32.dll",
      "count": 13,
      "total_related": 100000,
      "prevalence": 0.00013
    }
  ]
}

```

```

],
"pe_info_exports": [
  {
    "value": "Start",
    "count": 8,
    "total_related": 100000,
    "prevalence": 8e-05
  }
],
"pe_info_section_md5": [
  {
    "value":
"3fdf81929ae3bb2619c7f1bddf0a18c1",
    "count": 2,
    "total_related": 2,
    "prevalence": 1.0
  }
],
"pe_info_section_names": [
  {
    "value": ".data",
    "count": 13,
    "total_related": 100000,
    "prevalence": 0.00013
  }
],
"sandbox_verdicts": [
  {
    "value": "Malware",
    "count": 3,
    "sandbox_name": "Lastline"
  }
],
"rich_pe_header_hash": [
  {
    "value":
"cb419b26f269240aced3c33db2613de2",
    "count": 3,
    "total_related": 6,
    "prevalence": 0.5
  }
],

```

```

        "popular_threat_category": [
            {
                "value": "trojan",
                "count": 13
            }
        ],
        "popular_threat_name": [
            {
                "value": "sednit",
                "count": 10
            }
        ],
        "suggested_threat_label": "trojan.sednit/
foosace",
        "attack_techniques": [
            {
                "value": "T1129",
                "count": 5,
                "total_related": 100000,
                "prevalence": 5e-05
            }
        ],
        "memory_pattern_urls": [
            {
                "value": "http://200.106.145.122/
~bars/cgi-bin/brvc.cgi?14",
                "count": 1,
                "total_related": 1,
                "prevalence": 1.0
            }
        ],
        "attack_tactics": [
            {
                "value": "TA0005",
                "count": 14
            }
        ],
        "parent_contacted_domains": [
            {
                "value": "bing.com",
                "count": 1,
                "total_related": 100000,

```

```

        "prevalence": 1e-05
      }
    ]
  },
  "context_attributes": {
    "shared_with_me": false,
    "role": "viewer"
  }
}
]
}

```

ThreatQ provides the following default mapping for these two feeds based on each item within the `.data[]` list.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.attributes.name</code>	Related Malware.Value	N/A	<code>.attributes.last_modification_date</code>	'MILDMAP'	N/A
<code>.attributes.description</code>	Related Malware.Description	N/A	N/A	'MILDMAP is an APT28 dropper for the SOURFACE backdoor.'	N/A
<code>.attributes.operating_systems[].value</code>	Related Malware.Attribute	Target Operating System	<code>.attributes.last_modification_date</code>	'Windows'	User-configurable
<code>.attributes.targeted_industries_tree[].industry_group</code>	Related Malware.Attribute	Industry	<code>.attributes.last_modification_date</code>	N/A	User-configurable
<code>.attributes.detection_names[].value</code>	Related Malware.Attribute	Detection	<code>.attributes.last_modification_date</code>	N/A	User-configurable

Google Threat Intelligence Related Attack Pattern (Supplemental)

The Google Threat Intelligence Related Attack Pattern Supplemental feed fetches related attack patterns.

GET `{base_url}/api/v3/collections/{entity_id}/attack_techniques`

Sample Response:

```

{
  "data": [
    {
      "id": "T1003",

```

```

    "type": "attack_technique",
    "links": {
      "self": "https://www.virustotal.com/api/v3/attack_techniques/
T1003"
    },
    "attributes": {
      "last_modification_date": 1744757617,
      "creation_date": 1496266219,
      "description": "Adversaries may attempt to dump credentials
to obtain account login and credential material, normally in the form
of a hash or a clear text password. Credentials can be obtained from
OS caches, memory, or structures. Credentials can then be used to
perform Lateral Movement and access restricted information.\nSeveral
of the tools mentioned in associated sub-techniques may be used by
both adversaries and professional security testers. Additional custom
tools likely exist as well.",
      "name": "OS Credential Dumping",
      "info": {
        "x_mitre_attack_spec_version": "3.2.0",
        "x_mitre_contributors": [
          "Vincent Le Toux",
          "Ed Williams, Trustwave, SpiderLabs",
          "Tim (Wadhwa-)Brown",
          "Yves Yonan"
        ],
        "x_mitre_deprecated": false,
        "x_mitre_domains": [
          "enterprise-attack"
        ],
        "x_mitre_is_subtechnique": false,
        "x_mitre_modified_by_ref": "identity--
c78cb6e5-0c4b-4611-8297-d1b8b55e40b5",
        "x_mitre_platforms": [
          "Windows",
          "Linux",
          "macOS"
        ],
        "x_mitre_version": "2.2",
        "x_mitre_data_sources": [
          "Network Traffic: Network Traffic Content",
          "Process: Process Creation",
          "Network Traffic: Network Traffic Flow",

```

```

    "File: File Creation",
    "Windows Registry: Windows Registry Key Access",
    "Process: OS API Execution",
    "File: File Access",
    "Process: Process Access",
    "Command: Command Execution",
    "Active Directory: Active Directory Object Access"
],

```

"x_mitre_detection": "Windows\nMonitor for unexpected processes interacting with lsass.exe. Common credential dumpers such as Mimikatz access the LSA Subsystem Service (LSASS) process by opening the process, locating the LSA secrets key, and decrypting the sections in memory where credential details are stored. Credential dumpers may also use methods for reflective Process Injection to reduce potential indicators of malicious activity.\nHash dumpers open the Security Accounts Manager (SAM) on the local file system (%SystemRoot%/system32/config/SAM) or create a dump of the Registry SAM key to access stored account password hashes. Some hash dumpers will open the local file system as a device and parse to the SAM table to avoid file access defenses. Others will make an in-memory copy of the SAM table before reading hashes. Detection of compromised Valid Accounts in-use by adversaries may help as well. \nOn Windows 8.1 and Windows Server 2012 R2, monitor Windows Logs for LSASS.exe creation to verify that LSASS started as a protected process. \nMonitor processes and command-line arguments for program execution that may be indicative of credential dumping. Remote access tools may contain built-in features or incorporate existing tools like Mimikatz. PowerShell scripts also exist that contain credential dumping functionality, such as PowerSploit's Invoke-Mimikatz module, which may require additional logging features to be configured in the operating system to collect necessary information for analysis. \nMonitor domain controller logs for replication requests and other unscheduled activity possibly associated with DCSync. Note: Domain controllers may not log replication requests originating from the default domain controller account. . Also monitor for network protocols and other replication requests from IPs not associated with known domain controllers. \nLinux\nTo obtain the passwords and hashes stored in memory, processes must open a maps file in the /proc filesystem for the process being analyzed. This file is stored under the path /proc/<pid>/maps, where the <pid> directory is the unique pid of the program being interrogated for such authentication data. The AuditD monitoring tool, which ships stock in many Linux

distributions, can be used to watch for hostile processes opening this file in the proc file system, alerting on the pid, process name, and arguments of such programs."

```

    },
    "stix_id": "attack-pattern--0a3ead4e-6d47-4ccb-854c-a6a4f9d96b22",
    "link": "https://attack.mitre.org/techniques/T1003/",
    "revoked": false
  }
}
]
}

```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].id - .data[].attributes.name	Related AttackPattern .Value	N/A	.data[] attributes.creation_date	T1003 - OS Credential Dumping	If there is a MITRE Attack Pattern in ThreatQ Library, it will be related; if not, it will be ingested in the ID - Name format.
.data[].attributes.description	Related AttackPattern .Description	N/A	N/A	Adversaries may attempt to dump credentials ...	N/A

Google Threat Intelligence Related Campaigns (Supplemental)

The Google Threat Intelligence Related Campaigns supplemental feed returns associated collections of the campaign objects.

GET {base_url}/api/v3/collections/{entity_id}/campaigns

Sample Response:

```

{
  "data": [
    {
      "id": "campaign--27396631-640a-5079-954a-73a54f1c4d70",
      "type": "collection",
      "links": {
        "self": "https://www.virustotal.com/api/v3/collections/campaign--27396631-640a-5079-954a-73a54f1c4d70"
      },
      "attributes": {
        "alt_names_details": [
          {

```

```

        "first_seen": null,
        "confidence": "confirmed",
        "last_seen": null,
        "description": null,
        "value": "CAMP.24.044"
    }
],
"first_seen_details": [
    {
        "first_seen": null,
        "confidence": "unconfirmed",
        "last_seen": null,
        "description": "Mandiant Observed First Activity of
Campaign",
        "value": "2024-02-08T00:00:00Z"
    }
],
"tags_details": [],
"vulnerable_products": "",
"exploitation_vectors": [],
"version_history": [],
"detection_names": [],
"campaign_type": "INDIVIDUAL",
"first_seen": 1707350400,
"recent_activity_summary": [
    0,
    3
],
"subscribers_count": 0,
"vendor_fix_references": [],
"last_modification_date": 1751319613,
"operating_systems": [],
"risk_factors": [],
"private": true,
"origin": "Google Threat Intelligence",
"targeted_industries_tree": [
    {
        "industry_group": "Government",
        "industry": null,
        "confidence": "confirmed",
        "first_seen": null,
        "last_seen": null,

```

```

        "description": null,
        "source": null
    }
],
    "name": "APT28 Conducts Credential Harvesting Campaign
Targeting Multiple European Entities",
    "affected_systems": [],
    "source_region": "RU",
    "available_mitigation": [],
    "capabilities": [],
    "summary_stats": {
        "first_submission_date": {
            "min": 0.0,
            "max": 1728998106.0,
            "avg": 1587694613.9230769
        },
        "last_submission_date": {
            "min": 0.0,
            "max": 1748843074.0,
            "avg": 1591272176.5384614
        },
        "files_detections": {
            "min": 0.0,
            "max": 2.0,
            "avg": 1.0
        },
        "urls_detections": {
            "min": 0.0,
            "max": 12.0,
            "avg": 4.125
        }
    },
    "last_seen": 1727913600,
    "mitigations": [],
    "references_count": 0,
    "domains_count": 1,
    "autogenerated_tags": [
        "contains-embedded-js",
        "base64-embedded"
    ],
    "description": "Starting in early February 2024, Mandiant
observed UNC4697, a subcluster of APT28 focused on credential

```

harvesting activity. The threat group distributed phishing emails to organizations containing links to websites hosting fake Outlook login and password change templates. Targets of this broad campaign included primarily Government entities in Europe and the Middle East.",

```

    "last_seen_details": [
      {
        "first_seen": null,
        "confidence": "unconfirmed",
        "last_seen": null,
        "description": null,
        "value": "2024-10-03T00:00:00Z"
      }
    ],
    "files_count": 8,
    "motivations": [
      {
        "first_seen": null,
        "confidence": "confirmed",
        "last_seen": null,
        "description": null,
        "value": "Espionage"
      }
    ],
    "top_icon_md5": [
      "fc1881a5a70d2f3994eab9ea36b40305",
      "06bde06ab3839695045d6a0a8920d0e7"
    ],
    "creation_date": 1725545954,
    "collection_links": [],
    "technologies": [],
    "urls_count": 8,
    "counters": {
      "files": 8,
      "domains": 1,
      "ip_addresses": 0,
      "urls": 8,
      "iocs": 17,
      "subscribers": 0,
      "attack_techniques": 3
    },
    "malware_roles": [],
    "tags": [],

```

```

"collection_type": "campaign",
"is_content_translated": false,
"targeted_informations": [],
"targeted_regions_hierarchy": [
  {
    "region": "Europe",
    "sub_region": "Western Europe",
    "country": "France",
    "country_iso2": "FR",
    "confidence": "confirmed",
    "first_seen": null,
    "last_seen": null,
    "description": null,
    "source": null
  }
],
"intended_effects": [],
"threat_scape": [],
"recent_activity_relative_change": 2.0,
"ip_addresses_count": 0,
"source_regions_hierarchy": [
  {
    "region": "Europe",
    "sub_region": "Eastern Europe",
    "country": "Russian Federation",
    "country_iso2": "RU",
    "confidence": "confirmed",
    "first_seen": null,
    "last_seen": null,
    "description": null,
    "source": null
  }
],
"status": "COMPUTED",
"field_sources": [],
"targeted_regions": [
  "RO",
  "TR"
],
"merged_actors": [],
"targeted_industries": [],
"workarounds": [],

```

```

    "alt_names": [
      "CAMP.24.044"
    ],
    "aggregations": {
      "files": {
        "itw_urls": [
          {
            "value": "http://run.mocky.io/v3/1070436c-7a99-47eb-
a30c-c34609165fe7",
            "count": 1,
            "total_related": 1,
            "prevalence": 1.0
          }
        ],
        "contacted_domains": [
          {
            "value":
"73ce1aae8a9ba738b91040232524f51a.serveo.net",
            "count": 1,
            "total_related": 2,
            "prevalence": 0.5
          }
        ],
        "contacted_ips": [
          {
            "value": "138.68.79.95",
            "count": 1,
            "total_related": 883,
            "prevalence": 0.0011325028312570782
          }
        ],
        "dropped_files_sha256": [
          {
            "value":
"502365d41f45ede605f0c59e78bf58039f6262bd97d6b89f801ace3e9d9e04c8",
            "count": 1,
            "total_related": 1,
            "prevalence": 1.0
          }
        ],
        "tags": [
          {

```

```

        "value": "base64-embedded",
        "count": 3
    },
    ],
    "vhash": [
        {
            "value": "htm:223a8178b49e7ca1fbe433b41ed8c536",
            "count": 1,
            "total_related": 1,
            "prevalence": 1.0
        }
    ],
    "behash": [
        {
            "value": "76a8f43d77060240bf707251c1cd5008",
            "count": 2,
            "total_related": 49242,
            "prevalence": 4.0615734535559076e-05
        }
    ],
    "tlshhash": [
        {
            "value":
"\"T10E03BF3F57A23D0EA45B40E8F6A19D4A3F1E48138CCF96347C3C2B4CDF82AE8425
1A58\",
            "count": 1,
            "total_related": 1,
            "prevalence": 1.0
        }
    ],
    "crowdsourced_ids_results": [
        {
            "value": {
                "id": "1:2027942",
                "message": "ET POLICY DNS Query to a Reverse Proxy
Service Observed",
                "category": "policy-violation",
                "source": "Proofpoint Emerging Threats Open",
                "url": "https://rules.emergingthreats.net/",
                "rule": "alert dns $HOME_NET any -> any any (msg:
\\\"ET POLICY DNS Query to a Reverse Proxy Service Observed\\\";
dns.query; content:\\\".serveo.net\\\"; nocase; endswith;

```

```

classtype:policy-violation; sid:2027942; rev:3;
metadata:affected_product Any, attack_target Client_Endpoint,
created_at 2019_09_03, deployment Perimeter, confidence High,
signature_severity Major, updated_at 2020_09_17;)\"
    },
    \"count\": 1,
    \"total_related\": 207,
    \"prevalence\": 0.004830917874396135
  }
],
\"crowdsourced_yara_results\": [
  {
    \"value\": {
      \"id\": \"0122bae1e9|Base64_Encoded_URL\",
      \"ruleset_id\": \"0122bae1e9\",
      \"ruleset_name\": \"Base64_Encoded_URL\",
      \"rule_name\": \"Base64_Encoded_URL\",
      \"source\": \"https://github.com/InQuest/yara-rules-
vt\"
    },
    \"count\": 4,
    \"total_related\": 100000,
    \"prevalence\": 4e-05
  }
],
\"embedded_domains\": [
  {
    \"value\": \"enry48yoi2olq.x.pipedream.net\",
    \"count\": 1,
    \"total_related\": 1,
    \"prevalence\": 1.0
  }
],
\"embedded_ips\": [
  {
    \"value\": \"178.158.223.1\",
    \"count\": 1,
    \"total_related\": 1,
    \"prevalence\": 1.0
  }
],
\"embedded_urls\": [
  {

```

```

        "value": "https://enry48yoi2olq.x.pipedream.net/",
        "count": 1,
        "total_related": 1,
        "prevalence": 1.0
    }
],
"mutexes_created": [
    {
        "value": "\\Sessions\\1\\BaseNamedObjects\\Local\\
\\x64_10MU_ACB10_S-1-5-5-0-394236",
        "count": 1,
        "total_related": 726,
        "prevalence": 0.0013774104683195593
    }
],
"mutexes_opened": [
    {
        "value": "Local\\10MU_ACB10_S-1-5-5-0-189300",
        "count": 1,
        "total_related": 8883,
        "prevalence": 0.00011257458065968704
    }
],
"registry_keys_deleted": [
    {
        "value": "HKEY_CURRENT_USER\\Software\\Google\\
\\Chrome\\PreferenceMACs\\Default\\extensions.settings",
        "count": 2,
        "total_related": 100000,
        "prevalence": 2e-05
    }
],
"registry_keys_opened": [
    {
        "value": "HKEY_CURRENT_USER\\SOFTWARE\\Policies\\
\\Google\\Chrome",
        "count": 2,
        "total_related": 100000,
        "prevalence": 2e-05
    }
],
"registry_keys_set": [

```

```

        {
          "value": "HKEY_CURRENT_USER\\Software\\Microsoft\\
\\Office\\16.0\\Outlook\\Perf\\RoamingStreamsCache\\
6154541E1BB6474FBCF1DBF1502AFDA8",
          "count": 1,
          "total_related": 1,
          "prevalence": 1.0
        }
      ],
      "file_types": [
        {
          "value": "html",
          "count": 3
        },
        {
          "value": "email",
          "count": 1
        }
      ],
      "crowdsourced_sigma_results": [
        {
          "value": {
            "id":
"cf44c3835317e846b18021a9060f4b9b011294ec53eb3ac1fad568abeb37922",
            "level": "medium",
            "title": "Office Application Initiated Network
Connection To Non-Local IP",
            "author": "Christopher Peacock '@securepeacock',
SCYTHE '@scythe_io', Florian Roth (Nextron Systems), Tim Shelton,
Nasreddine Bencherchali (Nextron Systems)",
            "source_url": "https://github.com/Neo23x0/sigma",
            "source": "Sigma Integrated Rule Set (GitHub)",
            "description": "Detects an office application
(Word, Excel, PowerPoint) that initiate a network connection to a
non-private IP addresses.\\nThis rule aims to detect traffic similar
to one seen exploited in CVE-2021-42292.\\nThis rule will require an
initial baseline and tuning that is specific to your organization.\\n"
          },
          "count": 1,
          "total_related": 100000,
          "prevalence": 1e-05
        }
      ]
    }
  ]
}

```

```

],
"dropped_files_path": [
  {
    "value": "40861A75-839A-43E8-A7CF-A151C68F93E5",
    "count": 1,
    "total_related": 1,
    "prevalence": 1.0
  }
],
"sandbox_verdicts": [
  {
    "value": "Malware",
    "count": 2,
    "sandbox_name": "Zenbox"
  }
],
"popular_threat_category": [
  {
    "value": "phishing",
    "count": 1
  }
],
"popular_threat_name": [
  {
    "value": "phishingx",
    "count": 1
  }
],
"suggested_threat_label": "phishing.phishingx",
"attack_techniques": [
  {
    "value": "T1056.002",
    "count": 1,
    "total_related": 7666,
    "prevalence": 0.00013044612575006522
  }
],
"memory_pattern_urls": [
  {
    "value": "https://
73ce1aae8a9ba738b91040232524f51a.serveo.net/img?fuid=rada-sng",
    "count": 1,

```

```

        "total_related": 1,
        "prevalence": 1.0
    }
],
"attack_tactics": [
    {
        "value": "TA0005",
        "count": 10
    }
],
"parent_contacted_domains": [
    {
        "value": "serveo.net",
        "count": 1,
        "total_related": 2,
        "prevalence": 0.5
    }
]
},
"urls": {
    "http_response_contents": [
        {
            "value":
"21319c912fc4a6f63a92e53c3f9026e64ab6bb764de4166e402896210f0b0c3f",
            "count": 1,
            "total_related": 1,
            "prevalence": 1.0
        }
    ],
    "downloaded_files": [
        {
            "value":
"c955e57777ec0d73639dca6748560d00aa5eb8e12f13ebb2ed9656add3908f97",
            "count": 3,
            "total_related": 95789,
            "prevalence": 3.1318836192047103e-05
        }
    ],
    "domains": [
        {
            "value": "run.mocky.io",
            "count": 3,

```

```

        "total_related": 773,
        "prevalence": 0.0038809831824062097
    }
],
"embedded_js": [
    {
        "value":
"23ff9bedb5083664a04982c42a1fe8a31879fe9f8e09c3e4c4d30818f53f7916",
        "count": 1,
        "total_related": 1,
        "prevalence": 1.0
    }
],
"favicon_dhash": [
    {
        "value": "a6d8de2b2a84a49a",
        "count": 3,
        "total_related": 1772,
        "prevalence": 0.001693002257336343
    }
],
"favicon_raw_md5": [
    {
        "value": "fc1881a5a70d2f3994eab9ea36b40305",
        "count": 3,
        "total_related": 1772,
        "prevalence": 0.001693002257336343
    }
],
"html_titles": [
    {
        "value": "Outlook Web App",
        "count": 3,
        "total_related": 100000,
        "prevalence": 3e-05
    }
],
"ip_addresses": [
    {
        "value": "91.208.207.221",
        "count": 2,
        "total_related": 987,

```

```

        "prevalence": 0.002026342451874367
      }
    ],
    "memory_patterns": [
      {
        "value":
"1797e4cfe9e0162014c2628d9289c14ab140d002f32f8e54312f2be9a1fb6d89",
        "count": 1,
        "total_related": 1,
        "prevalence": 1.0
      }
    ],
    "outgoing_links": [
      {
        "value": "https://enjr7ohxba0fn.x.pipedream.net",
        "count": 1,
        "total_related": 5,
        "prevalence": 0.2
      }
    ],
    "path": [
      {
        "value": "/3a417ebd-87b4-4b50-af7c-863d65fee25f",
        "count": 1,
        "total_related": 2,
        "prevalence": 0.5
      }
    ],
    "prefix_paths": [
      {
        "value": "/3a417ebd-87b4-4b50-af7c-863d65fee25f",
        "count": 1,
        "total_related": 2,
        "prevalence": 0.5
      }
    ],
    "suffix_paths": [
      {
        "value": "/3a417ebd-87b4-4b50-af7c-863d65fee25f",
        "count": 1,
        "total_related": 2,
        "prevalence": 0.5
      }
    ]
  }
}

```

```

    }
  ],
  "query_strings": [
    {
      "value": "fuid=rada-sng@ukr.net",
      "count": 1,
      "total_related": 2,
      "prevalence": 0.5
    }
  ],
  "query_param_keys": [
    {
      "value": "fuid",
      "count": 1,
      "total_related": 1659,
      "prevalence": 0.0006027727546714888
    }
  ],
  "query_param_values": [
    {
      "value": "rada-sng@ukr.net",
      "count": 1,
      "total_related": 2,
      "prevalence": 0.5
    }
  ],
  "query_param_key_values": [
    {
      "value": "fuid=rada-sng@ukr.net",
      "count": 1,
      "total_related": 2,
      "prevalence": 0.5
    }
  ],
  "referring_files": [
    {
      "value":
"1797e4cfe9e0162014c2628d9289c14ab140d002f32f8e54312f2be9a1fb6d89",
      "count": 1,
      "total_related": 1,
      "prevalence": 1.0
    }
  ]

```

```

    ],
    "tags": [
      {
        "value": "base64-embedded",
        "count": 3
      }
    ]
  },
  "domains": {
    "downloaded_files": [
      {
        "value":
"c955e57777ec0d73639dca6748560d00aa5eb8e12f13ebb2ed9656add3908f97",
        "count": 1,
        "total_related": 4245,
        "prevalence": 0.00023557126030624264
      }
    ],
    "urls": [
      {
        "value": "https://enjr7ohxba0fn.x.pipedream.net/",
        "count": 1,
        "total_related": 1,
        "prevalence": 1.0
      }
    ]
  }
},
"context_attributes": {
  "shared_with_me": false,
  "role": "viewer"
}
}
]
}

```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.data[].attributes.name</code>	Related Campaign.Value	N/A	<code>.data[].attributes.last_modification_date</code>	APT28 Conducts Credential Harvesting Campaign Targeting Multiple European Entities	N/A
<code>.data[].attributes.description</code>	Related Campaign.Description	N/A	N/A	Starting in early February 2024, Mandiant observed UNC4697 ...	N/A
<code>.data[].attributes.motivations[].value</code>	Related Campaign.Attribute	Motivation	<code>.data[].attributes.last_modification_date</code>	Espionage	User-configurable. If Motivations is checked in Campaign Context.
<code>.data[].attributes.source_regions_hierarchy[].region</code>	Related Campaign.Attribute	Source Region	<code>.data[].attributes.last_modification_date</code>	Europe	User-configurable. If Source Regions Context is checked in Campaign Context.
<code>.data[].attributes.source_regions_hierarchy[].sub_region</code>	Related Campaign.Attribute	Source Sub Region	<code>.data[].attributes.last_modification_date</code>	Eastern Europe	User-configurable. If Source Regions Context is checked in Campaign Context.
<code>.data[].attributes.source_regions_hierarchy[].country</code>	Related Campaign.Attribute	Source Country	<code>.data[].attributes.last_modification_date</code>	Russian Federation	User-configurable. If Source Regions Context is checked in Campaign Context.
<code>.data[].attributes.source_regions_hierarchy[].country_iso2</code>	Related Campaign.Attribute	Source Country Code	<code>.data[].attributes.last_modification_date</code>	RU	User-configurable. If Source Regions Context is checked in Campaign Context.
<code>.data[].attributes.targeted_regions_hierarchy.region</code>	Related Campaign.Attribute	Target Region	<code>.data[].attributes.last_modification_date</code>	Europe	User-configurable. If Targeted Regions Context is checked in Campaign Context.
<code>.data[].attributes.targeted_regions_hierarchy.country</code>	Related Campaign.Attribute	Target Country	<code>.data[].attributes.last_modification_date</code>	France	User-configurable. If Targeted Regions Context is checked in Campaign Context.
<code>.data[].attributes.targeted_regions_hierarchy.sub_region</code>	Related Campaign.Attribute	Target Sub Region	<code>.data[].attributes.last_modification_date</code>	Western Europe	User-configurable. If Targeted Regions Context is checked in Campaign Context.
<code>.data[].attributes.targeted_regions_hierarchy.country_iso2</code>	Related Campaign.Attribute	Target Country Code	<code>.data[].attributes.last_modification_date</code>	FR	User-configurable. If Targeted Regions Context is checked in Campaign Context.
<code>.data[].attributes.last_seen</code>	Related Campaign.Attribute	Last Seen	<code>.data[].attributes.last_modification_date</code>	1727913600	Updatable. Timestamp value.
<code>.data[].attributes.targeted_industries_tree[].industry_group</code>	Related Campaign.Attribute	Target Sector	<code>.data[].attributes.last_modification_date</code>	Government	User-configurable.

Google Threat Intelligence Related IOC (Supplemental)

The Google Threat Intelligence Related IOC supplemental feed fetches indicators related to threat actors.

```
GET {base_url}/api/v3/collections/{entity_id}/search
```

IP Addresses

```
GET {base_url}/api/v3/collections/{entity_id}/search?query=entity:ip
```

Sample Response:

```
{
  "data": [
    {
      "id": "45.154.13.229",
      "type": "ip_address",
      "links": {
        "self": "https://www.virustotal.com/api/v3/ip_addresses/45.154.13.229"
      },
      "attributes": {
        "threat_severity": {
          "version": "I3",
          "threat_severity_level": "SEVERITY_NONE",
          "threat_severity_data": {
            "belongs_to_bad_collection": true
          },
          "last_analysis_date": "1713287964",
          "level_description": "Severity NONE because it has no detections."
        },
        "reputation": 0,
        "mandiant_ic_score": 35,
        "last_https_certificate_date": 1713287964,
        "tags": [],
        "whois": "inetnum: 45.0.0.0 - 45.255.255.255\nnetname: IANA-NETBLOCK-45\nndescr: This network range is not fully allocated to APNIC.\nndescr:\nndescr: If your whois search has returned this message, then you have\nndescr: searched the APNIC whois database for an address that is\nndescr: allocated by another Regional Internet Registry (RIR).\nndescr:\nndescr: Please search the other RIRs at whois.arin.net or whois.ripe.net\nndescr: for more information about
```

```

that range.\ncountry: AU\nadmin-c: IANA1-AP\ntech-c: IANA1-AP\nabuse-
c: AA1452-AP\nstatus: ALLOCATED PORTABLE\nremarks: For general info
on spam complaints email spam@apnic.net.\nremarks: For general info
on hacking & abuse complaints email abuse@apnic .net.\nmnt-by: APNIC-
HM\nmnt-lower: APNIC-HM\nmnt-irt: IRT-APNIC-AP\nlast-modified:
2021-02-15T05:31:12Z\nsource: APNIC\nirt: IRT-APNIC-AP\naddress:
Brisbane, Australia\ne-mail: helpdesk@apnic.net\nabuse-mailbox:
helpdesk@apnic.net\nadmin-c: HM20-AP\ntech-c: NO4-AP\nauth: #
Filtered\nremarks: APNIC is a Regional Internet Registry.\nremarks:
We do not operate the referring network and\nremarks: are unable to
investigate complaints of network abuse.\nremarks: For information
about IRT, see www.apnic.net/irt\nremarks: helpdesk@apnic.net was
validated on 2020-02-03\nmnt-by: APNIC-HM\nlast-modified:
2023-08-18T00:42:38Z\nsource: APNIC\nrole: ABUSE APNICAP\naddress:
Brisbane, Australia\ncountry: ZZ\nphone: +0000000000\ne-mail:
helpdesk@apnic.net\nadmin-c: HM20-AP\ntech-c: NO4-AP\nnic-hdl:
AA1452-AP\nremarks: Generated from irt object IRT-APNIC-AP\nremarks:
helpdesk@apnic.net was validated on 2020-02-03\nabuse-mailbox:
helpdesk@apnic.net\nmnt-by: APNIC-ABUSE\nlast-modified:
2023-08-18T19:08:30Z\nsource: APNIC\nrole: Internet Assigned Numbers
Authority\naddress: see http://www.iana.org.\nadmin-c: IANA1-
AP\ntech-c: IANA1-AP\nnic-hdl: IANA1-AP\nremarks: For more
information on IANA services\nremarks: go to IANA web site at http://
www.iana.org.\nmnt-by: MAINT-APNIC-AP\nlast-modified:
2018-06-22T22:34:30Z\nsource: APNIC\n",
    "first_seen_itw_date": 1616047642,
    "last_analysis_results": {
        "Acronis": {
            "method": "blacklist",
            "engine_name": "Acronis",
            "category": "harmless",
            "result": "clean"
        }
    },
    "network": "45.154.12.0/22",
    "continent": "AS",
    "as_owner": "MOACK.Co.LTD",
    "country": "KR",
    "asn": 138195,
    "last_analysis_stats": {
        "malicious": 0,
        "suspicious": 0,
        "undetected": 32,

```

```

        "harmless": 62,
        "timeout": 0
    },
    "last_seen_itw_date": 1655397785,
    "last_modification_date": 1746637167,
    "total_votes": {
        "harmless": 0,
        "malicious": 0
    },
    "whois_date": 1713222068,
    "jarm":
"3fd3fd20d3fd3fd21c42d42d000000937221baefa0b90420c8e8e41903f1d5",
    "regional_internet_registry": "APNIC",
    "last_analysis_date": 1713287954,
    "last_https_certificate": {
        "cert_signature": {
            "signature_algorithm": "sha256RSA",
            "signature":
"df3a652aa0a5b21920b0554d2ccafcd68471e0f8bf445c57877c540c8f29e2a9c1e2
e13a455b7e07dca63330801c9ece9d9d58b44e471a35815241c425489c94bde07c597
c5cc21e0aca452d75905685e52ca591fb27e0fe45227ec5a60ccf0c2819d6eaf52d51
f5e04928bc369d3c3c847cbafe3cfe7ab36f87ea71549f85e9526fbfdb838fb54e221
cac594b1c3c3d6a32573e602b210ca77989bb3fc56f1d51868b5938d27c3d97adb245
9613b7b536383161969cdd24448617cbc6b8dc82df246bd6b8b992d144ca0dc2a55e2
c08c3017d576684df46f81dcb628fa3c5363424d94b914f65efaa4c83d4054e8774ae
63a9296546c4cbd2814f87d712bb03"
        },
        "extensions": {
            "authority_key_identifier": {
                "keyid": "78df91905feedeacf6c575ebd54c5553ef244ab6"
            },
            "subject_key_identifier":
"ba370b6e8713bcc5e05fcd61f1406674764039fc",
            "subject_alternative_name": [
                "juoffer.com",
                "www.juoffer.com"
            ],
            "key_usage": [
                "digitalSignature",
                "keyEncipherment"
            ],
            "extended_key_usage": [

```

```

        "serverAuth",
        "clientAuth"
    ],
    "certificate_policies": [
        "2.23.140.1.2.1"
    ],
    "ca_information_access": {
        "OCSP": "http://ocsp.digicert.com",
        "CA Issuers": "http://cacerts.digicert.com/
EncryptionEverywhereDVTLS-CA-G2.crt"
    },
    "CA": false,
    "1.3.6.1.4.1.11129.2.4.2":
"0482016c016a007700eecdd064d5db1acec55cb79db4cd13a23287467cbcecd"
    },
    "validity": {
        "not_after": "2024-08-20 23:59:59",
        "not_before": "2023-08-20 00:00:00"
    },
    "size": 1538,
    "version": "V3",
    "public_key": {
        "algorithm": "RSA",
        "rsa": {
            "modulus":
"b2f83f6781fa5ed3f32a2385110b2d89c3aff8e67fe06af33132163354ce68a7785f
5c6e35f2d68797434acd232c716967e891c876c545d3ef6c23d9e6d478ac35471a159
101b5b5735de360a8bfc42bcc51fc0aa3bab6f695fc946dd0e62af61e14f9f5a686a3
bfa8cda8f0c5162ee2d77bc4e4039f4fc1924a0c1e9ad9141306854c13691e607a9b5
2cc3477f01a9de7316bd0cf1b21dfb4c6cda14bcd788ff72c0ee99cfc860af365c03a
5dd4a0234bb94320354e38370717958d28fef87b9ffb62677de78ca394a98af204334
5b47b5bf0fc04cbc0e13a1d15af44430315cb391e565c7ecedc59842425cc908375bd
9f3d7f83ca62a8f9f7d88f292e37b1",
            "exponent": "10001",
            "key_size": 2048
        }
    },
    "thumbprint_sha256":
"595ac1d22ba540a8a92a66436094e54dbb6265f6f9a8227470c56dade415e60a",
    "thumbprint": "db988be0f18edc5db901b82854f1cfd026895623",
    "serial_number": "76b33e3cb51cc417fe6a884dbee617a",
    "issuer": {

```

```

        "C": "US",
        "O": "DigiCert Inc",
        "OU": "www.digicert.com",
        "CN": "Encryption Everywhere DV TLS CA - G2"
    },
    "subject": {
        "CN": "juoffer.com"
    }
},
"gti_assessment": {
    "threat_score": {
        "value": 1
    },
    "severity": {
        "value": "SEVERITY_NONE"
    },
    "contributing_factors": {
        "mandiant_association_actor": true,
        "mandiant_confidence_score": 35,
        "gti_confidence_score": 59,
        "malicious_sandbox_verdict": false,
        "mandiant_association_report": true,
        "mandiant_association_malware": true,
        "safebrowsing_verdict": "harmless"
    },
    "verdict": {
        "value": "VERDICT_UNDETECTED"
    },
    "description": "This indicator did not match our detection
criteria and there is currently no evidence of malicious activity."
}
}
}
]
}

```

Hashes

GET {base_url}/api/v3/collections/{entity_id}/search?query=entity:url

Sample Response:

```
{
  "data": [
    {
      "id":
"c8fd3259549a33b42da38c3f53301f73a66df1a007dbbd2d18ad94b95b4ca37a",
      "type": "file",
      "links": {
        "self": "https://www.virustotal.com/api/v3/files/
c8fd3259549a33b42da38c3f53301f73a66df1a007dbbd2d18ad94b95b4ca37a"
      },
      "attributes": {
        "names": [],
        "last_submission_date": 1446069053,
        "unique_sources": 0,
        "last_analysis_stats": {
          "malicious": 0,
          "suspicious": 0,
          "undetected": 0,
          "harmless": 0,
          "timeout": 0,
          "confirmed-timeout": 0,
          "failure": 0,
          "type-unsupported": 0
        },
        "md5": "2c397d151a6137a2a9be6455d143d165",
        "first_seen_itw_date": 1445641333,
        "mandiant_ic_score": 50,
        "available_tools": [],
        "sha1": "2cc2ad776a7a4149ddded992c05b6c458accb0c6",
        "type_description": "unknown",
        "last_seen_itw_date": 1446069053,
        "tags": [],
        "type_tags": [],
        "total_votes": {
          "harmless": null,
          "malicious": null
        },
        "last_modification_date": 1741350537,
        "last_analysis_results": {},
        "downloadable": false,
        "sha256":
"c8fd3259549a33b42da38c3f53301f73a66df1a007dbbd2d18ad94b95b4ca37a",
        "first_submission_date": 1445641333,
```

```

        "gti_assessment": {
          "contributing_factors": {
            "mandiant_confidence_score": 50,
            "mandiant_association_actor": true
          },
          "threat_score": {
            "value": 1
          },
          "severity": {
            "value": "SEVERITY_NONE"
          },
          "verdict": {
            "value": "VERDICT_UNKNOWN"
          },
          "description": "This indicator did not match our
detection criteria and there is currently no evidence of malicious
activity."
        }
      }
    ]
  }

```

FQDNs

GET {base_url}/api/v3/collections/{entity_id}/search?
query=entity:domain

Sample Response:

```

{
  "data": [
    {
      "id": "update.centosupdates.com",
      "type": "domain",
      "links": {
        "self": "https://www.virustotal.com/api/v3/domains/
update.centosupdates.com"
      },
      "attributes": {
        "last_analysis_date": 1768880897,
        "last_modification_date": 1768881776,
        "tld": "com",

```

```

    "last_dns_records": [
      {
        "type": "A",
        "ttl": 10800,
        "value": "210.71.232.9"
      }
    ],
    "last_update_date": 1765584000,
    "tags": [],
    "whois": "Administrative city: REDACTED FOR
PRIVACY\nAdministrative country: Taiwan, Province Of
China\nAdministrative email: 50a11fe4587b136es@gmail.com,
\nAdministrative state: Taiwan\nBilling city: REDACTED FOR
PRIVACY\nBilling country: Taiwan, Province Of China\nBilling email:
d52ad5e18ac11e26s@net-chinese.com.tw\nCreate date: 2024-12-05
00:00:00\nDomain name: centosupdates.com\nDomain registrar id:
1336.0\nDomain registrar url: whois.net-chinese.com.tw\nExpiry date:
2026-12-05 00:00:00\nQuery time: 2025-12-14 04:50:33\nRegistrant
address: 1f8f4166599d23ee\nRegistrant city:
1f8f4166599d23ee\nRegistrant company: 1f8f4166599d23ee\nRegistrant
country: Taiwan, Province Of China\nRegistrant email:
50a11fe4587b136es@gmail.com,\nRegistrant name:
1f8f4166599d23ee\nRegistrant state: 12a25dd97c2aa81d\nRegistrant zip:
1f8f4166599d23ee\nTechnical city: REDACTED FOR PRIVACY\nTechnical
country: Taiwan, Province Of China\nTechnical email:
d52ad5e18ac11e26s@net-chinese.com.tw\nUpdate date: 2025-12-13
00:00:00",
    "first_seen_itw_date": 1640789950,
    "favicon": {
      "raw_md5": "3fa1bd1b382e00cabf7d0048f411af2a",
      "dhash": "41a6597969699641"
    },
    "jarm":
"29d29d00029d29d21c29d29d29d29d4d38a7b5fffb0e5536d09513d9de81205",
    "last_https_certificate_date": 1727165567,
    "creation_date": 1733356800,
    "reputation": 0,
    "last_analysis_results": {
      "Acronis": {
        "method": "blacklist",
        "engine_name": "Acronis",
        "category": "harmless",

```

```

        "result": "clean"
    },
    "ZeroFox": {
        "method": "blacklist",
        "engine_name": "ZeroFox",
        "category": "undetected",
        "result": "unrated"
    }
},
"last_seen_itw_date": 1694684844,
"categories": {},
"popularity_ranks": {},
"total_votes": {
    "harmless": 0,
    "malicious": 0
},
"threat_severity": {
    "version": "D3",
    "threat_severity_level": "SEVERITY_NONE",
    "threat_severity_data": {
        "num_detections": 13,
        "has_bad_communicating_files_high": true,
        "has_bad_communicating_files_medium": true,
        "belongs_to_bad_collection": true,
        "belongs_to_threat_actor": true
    },
    "last_analysis_date": "1765204575",
    "level_description": "Severity NONE because it has less
than 2 detections."
},
"last_dns_records_date": 1768880935,
"last_analysis_stats": {
    "malicious": 13,
    "suspicious": 1,
    "undetected": 27,
    "harmless": 52,
    "timeout": 0
},
"last_https_certificate": {
    "cert_signature": {
        "signature_algorithm": "sha256RSA",
        "signature":

```

```
"59462d40461e843083f948198463089877da104178d8b8324d2518ef23775c703b04
abc6edada89d917f94ab1c734d8658d40408de3eabae73ec89df3a4f8364954ff69c1
34606b40250ccc8e4aed4cad94f29d6c6423d1689989d36c750e5a07e344dcf2fb4b1
47ebee0df9bf9a70594f4db9e26961a0fd5cf07135e391abfe7a344526bc61510054e
0317deee97bd18acb7ecd558c169ed6dc23e032bb9b0b8d53a819f2fb28747e8ebb21
af1959aae41cc1f5ff00c034a1c21f8c71024e0979631961854a6ff5a0664f46223b7
ebf065cd6f86c737a9ce3388f1444b49761a0cca666ea017d2b00b348456fecf924d4
1b9d64fd77c673d3c7d33cc178aee8"
  },
  "extensions": {
    "key_usage": [
      "digitalSignature",
      "keyEncipherment"
    ],
    "CA": false,
    "ca_information_access": {
      "CA Issuers": "http://secure.globalsign.com/cacert/
gsgccr3dvtlsca2020.crt",
      "OCSP": "http://ocsp.globalsign.com/gsgccr3dvtlsca2020"
    },
    "certificate_policies": [
      "1.3.6.1.4.1.4146.1.10",
      "2.23.140.1.2.1"
    ],
    "crl_distribution_points": [
      "http://crl.globalsign.com/gsgccr3dvtlsca2020.crl"
    ],
    "subject_alternative_name": [
      "*.value-domain.com",
      "value-domain.com"
    ],
    "extended_key_usage": [
      "serverAuth",
      "clientAuth"
    ],
    "authority_key_identifier": {
      "keyid": "0d98c0737fabdbdd9474b49ad0a4a0cac3ec77c"
    },
    "subject_key_identifier":
"f64a642d24e28968a6bb468a547fbc09908450d8",
    "1.3.6.1.4.1.11129.2.4.2":
"0482016b0169007600e6d2316340778cc1104106d771b9cec1d240f6968486fb"
  },
```

```

    "validity": {
      "not_after": "2025-06-22 09:36:51",
      "not_before": "2024-05-21 09:36:52"
    },
    "size": 1634,
    "version": "V3",
    "public_key": {
      "algorithm": "RSA",
      "rsa": {
        "modulus":
"d3cd29371c6c3cf811692053afe0a5a6d0915f3fdc245de58db79fc596d8e66f4a95
a6db55df369da915b7e575d2782f391b485de574f5456849ce808097e5b1516ea84db
34f7db003269d55ac4a0a25d5a3abed85c7f8b92cbce863e93d741112b7a51895039d
6efc9e6c18cb149bcbbcd8fe4948251d6830e266bb5929494f4b38a0c183c966f7dd8
0587d04340fd664745e714ac776af74a8808aed425cf0548a36ede19fe4f2b1433298
14970fa37f52dffcf2bbb534043ffe68d0ef56126489efa880457afb1305b1d249592
50478686e7b7ce9754b7dbd5efc19f1a0392a656ef617d24081fc20dcbc8c38f024c6
3b54c4a9b61281c68b91a300703a39",
        "exponent": "10001",
        "key_size": 2048
      }
    },
    "thumbprint_sha256":
"0ef793be2789c1f720db3d14af3409a275b2a07bc9f71940d483c35fd1c64dc8",
    "thumbprint": "ef063301053de37e2cab57b8da7d8f51073ceebe",
    "serial_number": "43dd1a276886f0260ac72bfc",
    "issuer": {
      "C": "BE",
      "O": "GlobalSign nv-sa",
      "CN": "GlobalSign GCC R3 DV TLS CA 2020"
    },
    "subject": {
      "CN": "*.value-domain.com"
    }
  },
  "gti_assessment": {
    "threat_score": {
      "value": 60
    },
    "severity": {
      "value": "SEVERITY_MEDIUM"
    }
  },

```

```

    "verdict": {
      "value": "VERDICT_MALICIOUS"
    },
    "contributing_factors": {
      "malicious_sandbox_verdict": false,
      "mandiant_association_malware": true,
      "mandiant_confidence_score": 50,
      "gti_confidence_score": 90,
      "normalised_categories": [
        "phishing"
      ],
      "mandiant_association_actor": true,
      "safebrowsing_verdict": "harmless",
      "associated_actor": true
    },
    "description": "This indicator is malicious (medium
severity). GTI's ML scoring model identified this indicator as
malicious, it is associated with a tracked Mandiant threat actor, it
is associated with a tracked Mandiant malware family, it is contained
within a collection provided by the Google Threat Intelligence team,
or a trusted partner or security researcher and it was detected as a
Mandiant malware family that downloads and potentially executes a
payload."
  }
}
]
}

```

URLs

GET {base_url}/api/v3/collections/{entity_id}/search?query=entity:url

Sample Response:

```

{
  "data": [
    {
      "id":
"2d2c5810e379ac61b4b40453e40d78f0e93b1748d868520ad016888ce102b96c",
      "type": "url",
      "links": {
        "self": "https://www.virustotal.com/api/v3/urls/

```

```

2d2c5810e379ac61b4b40453e40d78f0e93b1748d868520ad016888ce102b96c"
  },
  "attributes": {
    "last_submission_date": 1749988084,
    "last_http_response_code": 200,
    "last_analysis_date": 1749988084,
    "total_votes": {
      "harmless": 0,
      "malicious": 0
    },
  },
  "favicon": {
    "raw_md5": "c44bbec78ebc720a8c3783f5f2f37898",
    "dhash": "dcc69eb0b2f2f060"
  },
  "reputation": 0,
  "threat_severity": {
    "version": "U3",
    "threat_severity_level": "SEVERITY_NONE",
    "threat_severity_data": {
      "num_detections": 5,
      "has_bad_downloaded_files_high": true,
      "has_bad_downloaded_files_medium": true,
      "belongs_to_bad_collection": true,
      "belongs_to_threat_actor": true
    },
    "last_analysis_date": "1749991873",
    "level_description": "Severity NONE because it has less
than 2 detections."
  },
  "tld": "com",
  "last_http_response_cookies": {},
  "title": "DriveHQ Error Page",
  "first_seen_itw_date": 1710134463,
  "times_submitted": 18,
  "last_analysis_stats": {
    "malicious": 5,
    "suspicious": 1,
    "undetected": 27,
    "harmless": 64,
    "timeout": 0
  },
  "last_final_url": "https://www.drivehq.com/errorpage.aspx?
fromURL=https://info-mod.firstcloudit.com/

```

```

&errcode=8&errmsg=Permission+Denied!
+The+file+owner+is+not+allowed+to+publish+files+of+this+type.&gotoURL
="/",
  "tags": [
    "password-input",
    "external-resources"
  ],
  "has_content": false,
  "categories": {
    "alphaMountain.ai": "Information Technology, Malicious
(alphaMountain.ai)",
    "BitDefender": "computersandsoftware",
    "Sophos": "information technology",
    "Forcepoint ThreatSeeker": "malicious web sites"
  },
  "last_http_response_content_length": 85993,
  "first_submission_date": 1702405015,
  "mandiant_ic_score": 100,
  "redirection_chain": [
    "https://info-mod.firstcloudit.com/"
  ],
  "url": "https://info-mod.firstcloudit.com/",
  "last_seen_itw_date": 1712670553,
  "outgoing_links": [
    "https://www.linkedin.com/company/drivehq",
    "https://x.com/TheDriveHQ",
    "https://www.cameraftp.com/CameraFTP/pricing.aspx"
  ],
  "threat_names": [
    "Mal/HTMLGen-A"
  ],
  "last_modification_date": 1750006722,
  "last_http_response_content_sha256":
"463ec407ab626fd608299649f5e3aa868b02968eb7bfd63cb5734d4e5736d44c",
  "last_analysis_results": {
    "Artists Against 419": {
      "method": "blacklist",
      "engine_name": "Artists Against 419",
      "category": "harmless",
      "result": "clean"
    }
  },
  "html_meta": {

```

```

    "viewport": [
      "width=device-width, initial-scale=1.0"
    ],
    "author": [
      "DriveHQ"
    ]
  },
  "last_http_response_headers": {
    "Cache-Control": "private",
    "Content-Type": "text/html; charset=utf-8",
    "Vary": "User-Agent,User-Agent",
    "Server": "Microsoft-IIS/10.0",
    "X-Frame-Options": "DENY",
    "X-AspNet-Version": "4.0.30319",
    "Set-Cookie": "refID=0; expires=Wed, 15-Oct-2025 12:46:04
GMT; path=/; secure; HttpOnly, srcID=0; expires=Wed, 15-Oct-2025
12:46:04 GMT; path=/; secure; HttpOnly, randID=1012650855447390745;
expires=Wed, 15-Oct-2025 12:46:04 GMT; path=/; secure; HttpOnly,
ServerUTCDateOffset=-25200000; expires=Mon, 16-Jun-2025 08:46:04 GMT;
path=/; secure",
    "X-Powered-By": "ASP.NET",
    "Date": "Sun, 15 Jun 2025 12:46:03 GMT",
    "Content-Length": "85993"
  },
  "gti_assessment": {
    "verdict": {
      "value": "VERDICT_MALICIOUS"
    },
    "threat_score": {
      "value": 100
    },
    "severity": {
      "value": "SEVERITY_HIGH"
    },
    "contributing_factors": {
      "safebrowsing_verdict": "harmless",
      "associated_actor": true,
      "mandiant_confidence_score": 100,
      "gti_confidence_score": 99,
      "mandiant_association_actor": true,
      "mandiant_analyst_malicious": true
    }
  },

```

```

        "description": "This indicator is malicious (high severity)
with high impact. It was determined as malicious by a Mandiant
analyst, Mandiant's scoring pipeline identified this indicator as
malicious, GTI's ML scoring model identified this indicator as
malicious, it is associated with a tracked Mandiant threat actor and
it is contained within a collection provided by the Google Threat
Intelligence team, or a trusted partner or security researcher.
Analysts should prioritize investigation."
    }
},
    "context_attributes": {
        "url": "https://info-mod.firstcloudit.com/"
    }
}
]
}

```

ThreatQ provides the following default mapping for this feed:



The following fields are added to the description if they are enabled:

.data[].attributes.gti_assessment.description, .attributes.whois, .attributes.outgoing_links, .attributes.crowdsourced_ai_results[], .crowdsourced_context, attributes.names, .attributes.crowdsourced_yara_results, .attributes.sigma_analysis_results.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].id/ data[].attributes.sha256 / data[].attributes.url	Indicator .Value	Mapped: .type	.data[].attributes. first_submission_date/ .data[].attributes.first_seen_itw_date	45.154.13.229/ https://info-mod.firstcloudit.com/	See Indicator Type Mapping Table. For url type, the value is mapped to url key. For type file, the value is mapped to .sha256 and for the rest of them, it is mapped to the .id key.
.data[].attributes.tags, data[].attributes.type_tags	Indicator .Tags	N/A	N/A	N/A	User-configurable. Updatable
.data[].context_attributes[[]].sources[type=threat_profile].label	Indicator .Attribute	Threat Profile	.data[].attributes. first_submission_date/ .data[].attributes.first_seen_itw_date	N/A	User-configurable. Updatable
.data[].attributes.gti_assessment.contributing_factors.mandiant	Indicator .Attribute	Mandiant Score	.data[].attributes. first_submission_date/ .data[].attributes	100	User-configurable. Updatable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
ant_confidence_score			es.first_seen_itw_date		
.data[].attributes.gti_assessment.contributing_factors.normalised_categories[]	Indicator .Attribute	Category	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	N/A	User-configurable
.data[].attributes.gti_assessment.contributing_factors.gti_confidence_score	Indicator .Attribute	Confidence Score	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	99	User-configurable. Updatable
.data[].attributes.gti_assessment.severity.value	Indicator .Attribute	Severity	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	High	User-configurable. Updatable. Title-cased . Severity_ was removed
.data[].attributes.gti_assessment.threat_score.value	Indicator .Attribute	Threat Score	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	100	User-configurable. Updatable
.data[].attributes.gti_assessment.threat_score.value	Indicator .Attribute	Normalised Threat Score	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	High	Normalized based on user-field mapping. User-Configurable. Updatable
.data[].attributes.gti_assessment.verdict.value	Indicator .Attribute	Verdict	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	VERDICT_MALICIOUS	User-configurable, Updatable
.data[].attributes.gti_assessment.contributing_factors.safe_browsing_verdict	Indicator .Attribute	Safe Browsing Verdict	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	Harmless	User-configurable, Updatable
.data[].attributes.gti_assessment.contributing_factors.pervasive_indicator	Indicator .Attribute	Is Pervasive	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	True	User-configurable, Updatable. Converted to String
.data[].attributes.last_analysis_stats.malicious	Indicator .Attribute	Malicious Count	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	N/A	User-configurable, Updatable.
.data[].attributes.last_analysis_stats.suspicious	Indicator .Attribute	Suspicious Count	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	N/A	User-configurable, Updatable.
.data[].attributes.as_owner	Indicator .Attribute	As Organization	.data[].attributes.first_submission_date/.data[].attributes	MOACK.Co.LTD	User-configurable.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
			es.first_seen_itw_date		
.data[].attributes.asn	Indicator .Attribute	ASN	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	MOACK.Co.LTD	User-configurable, Ingested according to Ingest ASNs As.
.data[].attributes.asn	Related Indicator .Value	ASN	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	MOACK.Co.LTD	User-configurable, Ingested according to Ingest ASNs As.
.data[].attributes.regional_internet_registry	Indicator .Attribute	RIR	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	APNIC	User-configurable.
.data[].attributes.last_http_response_code	Indicator .Attribute	Last HTTP Response Code	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	200	User-configurable.
.data[].attributes.title	Indicator .Attribute	Site Title	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	N/A	User-configurable.
.data[].attributes.last_submission_date	Indicator .Attribute	Last Submission Date	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	2015-10-29T03:20:53	User-configurable.
.data[].attributes.md5	Related Indicator .Value	MD5	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	2c397d151a6137a2a9be6455d143d165	User-configurable.
.data[].attributes.sha1	Related Indicator .Value	SHA-1	.data[].attributes.first_submission_date/.data[].attributes.first_seen_itw_date	2cc2ad776a7a4149ddded992c05b6c458accb0c6	User-configurable.
.data[].attributes.crowdsourced_ids_results[].rule_msg	Signature .Name	Snort	N/A	N/A	User-configurable.
.data[].attributes.crowdsourced_ids_results[].rule_raw	Signature .Value	Snort	N/A	N/A	User-configurable.
.data[].attributes.crowdsourced_ids_results[].alert_severity	Signature .Attribute	Severity	N/A	N/A	User-configurable.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.data[].attributes.crowdsourced_ids_results[].rule_category</code>	Signature .Attribute	Category	N/A	N/A	User-configurable.
<code>.data[].attributes.crowdsourced_ids_results[].rule_source</code>	Signature .Attribute	Source	N/A	N/A	User-configurable.
<code>.data[].attributes.meaningful_name</code>	Indicator .Attribute	Meaningful Name	<code>.data[].attributes.last_modification_date</code>	Malicious	User-configurable.
<code>.data[].attributes.continent</code>	Indicator .Attribute	Continent Code	N/A	AS	User-configurable.
<code>.data[].attributes.country</code>	Indicator .Attribute	Country Code	N/A	RU	User-configurable.



For `.data[].attributes.first_submission_date` is not received for IP Addresses and Domains. In this case, the "Published Date" falls on `.data[].attributes.first_seen_itw_date`.

Indicator Type Mapping

The following table displays indicator type mapping from Google to ThreatQ.

GOOGLE TYPE	THREATQ INDICATOR TYPE
ip_address	IP Address
url	URL
domain	FQDN
sha1	SHA-1
md5	MD5
file	SHA-256

Google Threat Intelligence Related Vulnerabilities (Supplemental)

The Google Threat Intelligence Related Vulnerabilities supplemental feed fetches related CVEs.

```
GET {base_url}api/v3/collections/{{run_params.entity_id}}/vulnerabilities
```

Sample Response:

```
{
  "data": [
    {
      "id": "vulnerability--cve-2004-0210",
      "type": "collection",
      "links": {
        "self": "https://www.virustotal.com/api/v3/collections/vulnerability--cve-2004-0210"
      },
      "attributes": {
        "risk_factors": [
          "Local Access Required"
        ],
        "cve_id": "CVE-2004-0210",
        "files_count": 1,
        "creation_date": 1646663312,
        "alt_names": [],
        "targeted_regions": [],
        "alt_names_details": [],
        "priority": "P1",
        "source_regions_hierarchy": [],
        "field_sources": [
          {
            "source": {
              "sources": [],
              "field_type": "Ranked",
              "source_name": "Cybersecurity and Infrastructure Security Agency (CISA)",
              "source_url": ""
            },
            "field": "cvss.cvssv3_x"
          }
        ],
        "cisa_known_exploited": {
```

```

        "ransomware_use": "Unknown",
        "due_date": 1648080000,
        "added_date": 1646265600
    },
    "status": "COMPUTED",
    "collection_type": "vulnerability",
    "workarounds": [],
    "technologies": [],
    "recent_activity_summary": [
        0,
        0
    ],
    "first_seen_details": [],
    "date_of_disclosure": 1089676800,
    "capabilities": [],
    "origin": "Google Threat Intelligence",
    "cvss": {
        "cvssv3_x": {
            "vector": "CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H",
            "base_score": 7.8,
            "temporal_score": 7.8
        },
        "cvssv2_0": {
            "vector": "AV:L/AC:L/Au:N/C:C/I:C/A:C/E:F/RL:OF/RC:C",
            "base_score": 7.2,
            "temporal_score": 6.0
        }
    },
    "available_mitigation": [
        "Patch"
    ],
    "affected_systems": [],
    "top_icon_md5": [],
    "tags": [
        "has_exploits",
        "observed_in_the_wild"
    ],
    "sources": [
        {
            "url": "https://exchange.xforce.ibmcloud.com/

```

```
vulnerabilities/16590",
    "title": "Microsoft Windows POSIX buffer
overflow allows local attacker to gain privileges",
    "cvss": {
        "cvssv3_x": null,
        "cvssv2_0": null,
        "cvssv3_x_translated": null,
        "cvssv4_x": null
    },
    "md5": null,
    "unique_id": null,
    "published_date": 1089748800,
    "name": "IBM Corp.",
    "source_description": null
},
"targeted_industries_tree": [],
"urls_count": 0,
"last_seen_details": [],
"references_count": 0,
"malware_roles": [],
"subscribers_count": 0,
"tags_details": [
    {
        "first_seen": null,
        "description": null,
        "last_seen": null,
        "value": "observed_in_the_wild",
        "confidence": "possible"
    }
],
"private": true,
"epss": {
    "percentile": 0.9259,
    "score": 0.10564
},
"executive_summary": "\n\n* A Buffer Overflow
vulnerability exists that, when exploited, allows a local, privileged
attacker to bypass certain security mechanisms.\n* This vulnerability
has been confirmed to be exploited in the wild. Unverified exploit
code is available.\n* Google Threat Intelligence Group (GTIG)
considers this a Medium-risk vulnerability due to the potential for
bypassing certain security mechanisms, offset by local access
```

```
requirements.\n* Mitigation options include a patch.\n",
    "motivations": [],
    "version_history": [
        {
            "date": 1743734117,
            "version_notes": [
                "exploitation_vectors: Added
['Unspecified Local Vector'] to existing exploitation_vectors. "
            ]
        }
    ],
    "vulnerable_products": "",
    "last_modification_date": 1743734117,
    "cpes": [
        {
            "end_rel": null,
            "end_cpe": null,
            "start_rel": "=",
            "start_cpe": {
                "version": "",
                "product": "Windows 2000",
                "uri":
"cpe:2.3:o:microsoft:windows_2000::-sp3:*:*:advanced_server:*:*:*",
                "vendor": "Microsoft"
            }
        }
    ],
    "summary_stats": {
        "first_submission_date": {
            "min": 1639345444.0,
            "max": 1639345444.0,
            "avg": 1639345444.0
        },
        "last_submission_date": {
            "min": 1639390624.0,
            "max": 1639390624.0,
            "avg": 1639390624.0
        },
        "files_detections": {
            "min": 0.0,
            "max": 0.0,
            "avg": 0.0
        }
    }
}
```

```

    },
    "exploitation_vectors": [
        "Local Access",
        "Unspecified Local Vector"
    ],
    "analysis": "\n\nAn attacker could exploit this
vulnerability to gain elevated privileges. An attacker would need to
specially craft a malicious application and run it on the vulnerable
system. A failed attempt at exploitation could potentially cause a
crash of the application, resulting in a denial-of-service condition.
\n\nThis vulnerability has been exploited by the Tsar Team since at
least 2007 in a variety of campaigns. For more information, please
refer to the report, \"[Overview of Tsar Team Espionage Activity]
(https://advantage.mandiant.com/reports/16-00014614).\"
\n\nIn January 2014, a campaign of targeted spam messages began with the intent of
installing Gameover Zeus on victim systems. For more information,
please refer to the report, \"[Gameover Zeus Resumes Operations with
Altered Malware and Increased Use of Fluxxy and KOL Fast-Flux
Infrastructure Hosting](https://advantage.mandiant.com/reports/Intel-1167778).\"
\n\nCISA added this vulnerability to its Known
Exploited Vulnerabilities Catalog on March 3, 2022, with a required
remediation date of March 24, 2022.\n\n\nMandiant Threat
Intelligence considers this a Medium-risk vulnerability due to the
potential for escalation of privileges, offset by the local access
required.\n\n",
    "ip_addresses_count": 0,
    "risk_rating": "MEDIUM",
    "days_to_report": 6446,
    "exploitation_consequence": "Security Bypass",
    "intended_effects": [],
    "mati_genids_dict": {
        "cve_id": "vulnerability--e35ba016-5a4d-55e1-a812-ee56477a6df6",
        "report_id": "report--c81eb59b-89fe-5c73-8659-5cd10d51e2b3",
        "mve_id": "vulnerability--23e4110d-ee84-5250-8ce3-ef5e84cad030"
    },
    "name": "CVE-2004-0210",
    "exploitation_state": "Confirmed",
    "predicted_risk_rating": "",
    "targeted_industries": []

```

```

        "exploitation": {
            "first_exploitation": 1474761600,
            "tech_details_release_date": null,
            "exploit_release_date": 1089936000
        },
        "domains_count": 0,
        "counters": {
            "files": 1,
            "domains": 0,
            "ip_addresses": 0,
            "urls": 0,
            "iocs": 1,
            "subscribers": 0,
            "attack_techniques": 0
        },
        "autogenerated_tags": [],
        "targeted_informations": [],
        "merged_actors": [],
        "detection_names": [],
        "operating_systems": [],
        "mitigations": [],
        "threat_scape": [],
        "exploit_availability": "Unverified",
        "cwe": {
            "title": "Buffer Overflow",
            "id": "CWE-120"
        },
        "mve_id": "MVE-2004-88",
        "vendor_fix_references": [
            {
                "url": "http://www.kb.cert.org/vuls/id/
647436",
                "title": "Microsoft Windows contains a buffer
overflow in the POSIX subsystem",
                "cvss": null,
                "md5": null,
                "unique_id": "VU#647436",
                "published_date": 1089835200,
                "name": "CERT/CC",
                "source_description": null
            }
        ],

```

```

        "collection_links": [],
        "targeted_regions_hierarchy": [],
        "description": "\n\nThe National Vulnerability
Database (NVD) has provided the following description:\n\n*The POSIX
component of Microsoft Windows NT and Windows 2000 allows local users
to execute arbitrary code via certain parameters, possibly by
modifying message length values and causing a buffer overflow.*\n\n",
        "is_content_translated": false,
        "aggregations": {
            "files": {
                "tags": [
                    {
                        "value": "javascript",
                        "count": 1
                    }
                ],
                "vhash": [
                    {
                        "value":
"3101773ac42964b4fd3c05b2c4d8e433",
                        "count": 1,
                        "total_related": 36356,
                        "prevalence": 2.750577621300473e-05
                    }
                ],
                "tlshhash": [
                    {
                        "value":
"T12632B6D94839693321BB861947072A5DFA5D401B53A8E719FC8C874C9FB21A0C6E
8F98",
                        "count": 1,
                        "total_related": 1,
                        "prevalence": 1.0
                    }
                ],
                "embedded_domains": [
                    {
                        "value": "www.securityfocus.com",
                        "count": 1,
                        "total_related": 44620,
                        "prevalence": 2.2411474675033616e-05
                    }
                ]
            }
        }
    }

```

```

],
"embedded_urls": [
  {
    "value": "https://
www.securityfocus.com/bid/10710/info",
    "count": 1,
    "total_related": 1,
    "prevalence": 1.0
  }
]
}
},
"context_attributes": {
  "shared_with_me": false,
  "role": "viewer"
}
}
]
}

```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attrib utes.name	Related Vulnerability/ Indicator.Value	CVE	.data[].attrib utes.creation_ date	CVE-2004-0210	User-configurable. Based on Ingest CVE as selected option
.data[].attrib utes.descripti on	Related Vulnerability/ Indicator.Descri ption	N/A	N/A	The National Vulnerability Database (NVD) has provided.....	N/A
.data[].attrib utes.cvss.cvss v2_0.vector	Related Vulnerability/ Indicator.Attrib ute	CVSS v2 Vector	.data[].attrib utes.creation_ date	AV:L/AC:L/Au:N/C:C/ I:C/A:C/E:F/RL:OF/ RC:C	User-configurable
.data[].attrib utes.cvss.cvss v2_0.base_scor e	Related Vulnerability/ Indicator.Attrib ute	CVSS v2 Base Score	.data[].attrib utes.creation_ date	7.2	User-configurable
.data[].attrib utes.cvss.cvss v2_0.temporal_ score	Related Vulnerability/ Indicator.Attrib ute	CVSS v2 Temporal Score	.data[].attrib utes.creation_ date	6.0	User-configurable
.data[].attrib utes.cvss.cvss v3_x.vector	Related Vulnerability/ Indicator.Attrib ute	CVSS v3 Vector	.data[].attrib utes.creation_ date	CVSS:3.1/AV:L/AC:L/ PR:L/UI:N/S:U/C:H/ I:H/A:H	User-configurable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attributes.cvss.v3.base_score	Related Vulnerability/Indicator.Attribute	CVSS v3 Base Score	.data[].attributes.creation_date	7.8	User-configurable
.data[].attributes.cvss.v3.temporal_score	Related Vulnerability/Indicator.Attribute	CVSS v3 Temporal Score	.data[].attributes.creation_date	7.8	User-configurable
.data[].attributes.cvss.exploitation_vectors[]	Related Vulnerability/Indicator.Attribute	Exploitation Vector	.data[].attributes.creation_date	Local Access	User-configurable
.data[].attributes.epss.score	Related Vulnerability/Indicator.Attribute	EPSS Score	.data[].attributes.creation_date	0.10564	User-configurable

Google Threat Intelligence Related Adversaries (Supplemental)

The Google Threat Intelligence Related Adversaries supplemental feed fetches related adversaries.

GET {base_url}/api/v3/collections/{entity_id}/threat_actors



Sample Response is the same as the sample response for: Google Threat Intelligence

ThreatQ provides the following default mapping for this feed based on each item within the `.data[]` list.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.attributes.name	Related Adversary.Value	Adversary	.attributes.last_modification_date	APT28	N/A
.attributes.alt_names_details[].value	Related Adversary.Tag	N/A	N/A	APT28 (Google)	User-Configurable
.attributes.description	Related Adversary.Description	N/A	N/A	APT28 is a highly active cyber espionage group that ...	N/A
.attributes.motivations[].value	Related Adversary.Attribute	Motivation	.attributes.last_modification_date	Attack / Destruction	User-Configurable. When the Motivation option is checked in the context
.attributes.targeted_industries	Related Adversary.Attribute	Target Industry	.attributes.last_modification_date	Aerospace & Defense	User-Configurable. When the Industry option is checked in the context

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
s_tree[].industry_group					
.attributes.source_regions_hierarchy[].region	Related Adversary.Attribute	Region	.attributes.last_modification_date	Europe	User-Configurable. When the Source Context option is checked in the context
.attributes.source_regions_hierarchy[].sub_region	Related Adversary.Attribute	Sub Region	.attributes.last_modification_date	Eastern Europe	User-Configurable. When the Source Context option is checked in the context
.attributes.source_regions_hierarchy[].country	Related Adversary.Attribute	Country	.attributes.last_modification_date	Russian Federation	User-Configurable. When the Source Context option is checked in the context
.attributes.source_regions_hierarchy[].country_iso2	Related Adversary.Attribute	Country Code	.attributes.last_modification_date	RU	User-Configurable. When the Source Context option is checked in the context
.attributes.targeted_regions_hierarchy[].region	Related Adversary.Attribute	Target Region	.attributes.last_modification_date	RO	User-Configurable. When the Target Region option is checked in the context
.attributes.targeted_regions_hierarchy[].sub_region	Related Adversary.Attribute	Target Sub Region	.attributes.last_modification_date	Eastern Europe	User-Configurable. When the Target Region option is checked in the context
.attributes.targeted_regions_hierarchy[].country	Related Adversary.Attribute	Target Country	.attributes.last_modification_date	Russian Federation	User-Configurable. When the Target Region option is checked in the context
.attributes.targeted_regions_hierarchy[].country_iso2	Related Adversary.Attribute	Target Country Code	.attributes.last_modification_date	RU	User-Configurable. When the Target Region option is checked in the context

Google Threat Intelligence Campaigns

The Google Threat Intelligence Campaigns feed ingests campaigns tracked by Google. This feed also ingests any related indicators, malware, threat actors, vulnerabilities, and attack patterns relevant to the campaign.

GET {base_url}/api/v3/collections?filter=collection_type:campaign



Sample Response is the same as the one for Google Threat Intelligence Related Campaigns Supplemental feed.

ThreatQ 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.last_modification_date	APT28 Conducts Credential Harvesting Campaign Targeting Multiple European Entities	N/A
.data[].attributes.description	Campaign.Description	N/A	.data[].attributes.last_modification_date	Starting in early February 2024, Mandiant observed UNC4697 ...	N/A
.data[].attributes.motivations[].value	Campaign.Attribute	Motivation	.data[].attributes.last_modification_date	Espionage	User-configurable
.data[].attributes.targeted_industries_tree[].industry_group	Campaign.Attribute	Target Sector	.data[].attributes.last_modification_date	Government	User-configurable
.data[].attributes.source_regions_hierarchy[].region	Campaign.Attribute	Region	.data[].attributes.last_modification_date	Europe	User-configurable
.data[].attributes.source_regions_hierarchy[].sub_region	Campaign.Attribute	Sub Region	.data[].attributes.last_modification_date	Eastern Europe	User-configurable
.data[].attributes.source_regions_hierarchy[].country	Campaign.Attribute	Country	.data[].attributes.last_modification_date	Russian Federation	User-configurable
.data[].attributes.source_regions_hierarchy[].country_iso2	Campaign.Attribute	Country Code	.data[].attributes.last_modification_date	RU	User-configurable
.data[].attributes.targeted_regions_hierarchy[].sub_region	Campaign.Attribute	Target Sub Region	.data[].attributes.last_modification_date	Eastern Europe	User-configurable
.data[].attributes.targeted_re	Campaign.Attribute	Target Country	.data[].attributes.last_modification_date	Russian Federation	User-configurable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
gions_hierarchy [].country					
.data[].attributes.targeted_regions_hierarchy[].country_iso2	Campaign.Attribute	Target Country Code	.data[].attributes.last_modification_date	RU	User-configurable
.data[].attributes.targeted_regions_hierarchy[].region	Campaign.Attribute	Target Region	.data[].attributes.last_modification_date	RO	User-configurable
.data[].attributes.campaign_type	Campaign.Attribute	Campaign Type	.data[].attributes.last_modification_date	INDIVIDUAL	User-configurable
.data[].attributes.last_seen	Campaign.Attribute	Last Seen	.data[].attributes.last_modification_date	1727913600	Updatable. Timestamp value.
.data[].id	Related Adversary	Adversary	N/A	N/A	User-configurable. See Google Threat Intelligence Related Adversaries (Supplemental)
.data[].id	Related Malware	Malware	N/A	N/A	User-configurable. See Google Threat Intelligence Related Malware (Supplemental)
.data[].id	Related Vulnerability/Related Indicator	Vulnerability/CVE	N/A	N/A	User-configurable. See Google Threat Intelligence Related Vulnerabilities (Supplemental)
.data[].id	Related Attack Pattern	Attack Pattern	N/A	N/A	User-configurable. See Google Threat Intelligence Related Attack Pattern (Supplemental)
.data[].id	Related Indicator	Indicator	N/A	N/A	User-configurable. See Google Threat Intelligence Related IOC (Supplemental)



For each campaign ID in the collection, the supplemental feeds collect all related objects. Sample data & mapping for them can be found in each

Supplemental feed mapping section, as specified in the above mapping table notes.

Google Threat Intelligence Indicators

The Google Threat Intelligence Indicators feed ingests a list of Indicators tracked by Google TI filtered by time.

GET {base_url}/api/v3/collections?filter=collection_type:collection

Sample Response [truncated]:

```
{
  "data": [
    {
      "id":
"fee4323cebb88f025586fd9f3e7d0de183fd536fad2312d4cccccdb21f2f7185f",
      "type": "collection",
      "links": {
        "self": "https://www.virustotal.com/api/v3/
collections/
fee4323cebb88f025586fd9f3e7d0de183fd536fad2312d4cccccdb21f2f7185f"
      },
      "attributes": {

      },
      "context_attributes": {
        "shared_with_me": false,
        "role": "viewer"
      }
    }
  ],
  "meta": {
    "count": 6898,
    "cursor": "eJwVjN1uwiAYQF-JlpHMyxnAn-
Wjih_QclerUws43FxsZr5-3eXJOTm_vo7vh5jv7ppbJ2XGMS87En-213iBIj9c0Lijibd
9GXc6rM3ORdo6GKs6hi0JpaVZHsXAd7jeWJLvmAqrDLsZtH5vDcGUv1vDlro-
qGPqHs4VGmQYbX3eaMI-0RVVK7NAnFcQwohGfykzW2Kd1RWSTj-
pxEzodN7YYvL_PZl8yus9F-xjOZRAh1fArgA80QobBteJk6GeA1HP8KL4lvkkmrRUN-
fBoWrBzyhVM6GC1cUeMeg11Fx2aseRsXDs-ltArcq_cJfmh4Y4Bv1pz84PGU1"
  },
  "links": {
    "self": "https://www.virustotal.com/api/v3/collections?
filter=collection_type:collection%20last_modification_date:2025-01-01
%2B",
    "next": "https://www.virustotal.com/api/v3/collections?"
  }
}
```

```
filter=collection_type%3Acollection+last_modification_date%3A2025-01-01%2B&cursor=eJwVjN1uwiAYQF-JlpHMyxnAn-Wjih_QclerUws43FxsZr5-3eXJOTm_vo7vh5jv7ppbJ2XGMS87En-213iBIj9cOLijibd9GXc6rM3ORdo6GKs6hi0JpaVZHsXAd7jeWJLvmAqrDLsZtH5vDcGUv1vDlro-qGPqHs4VGmQYbX3eaMI-0RVVK7NAnFcQwohGfykzW2Kd1RWSTj-pxEzodN7YYvL_PZl8yus9F-xjOZRAh1fArgA80QobBteJk6GeA1HP8KL4lvkKhmrRUN-fBoW1rBzyhVM6GC1cUeMeg11Fx2aseRsXDs-1tArcq_cJfmh4Y4Bv1pz84PGU1"
  }
}
```



For each `data[ ].id` of the IOC Collection, related indicators are retrieved. See the Google Threat Intelligence Related IOC (Supplemental) mapping is the same.

Google Threat Intelligence Malware

The Google Threat Intelligence Malware feed ingests malware tracked by Google TI. This feed also ingests any related indicators, threat actors, vulnerabilities, and attack patterns relevant to the malware.

GET {base_url}/api/v3/collections?filter=collection_type:malware-family



Sample Response is the same as the sample response for: Google Threat Intelligence Related Malware Supplemental feed.

ThreatQ provides the following default mapping for this data:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].attributes.name	Malware Value	Malware	.data[].attributes.last_modification_date	LOCKBIT	N/A
.data[].attributes.description	Malware Description	N/A	.data[].attributes.last_modification_date	LOCKBIT is a ransomware written in C...	N/A
.data[].attributes.alt_names[]	Attribute	Alias	.last_updateddata[].attributes.last_modification_date	N/A	User-configurable.
.data[].attributes.capabilities[].value	Attribute	Capability	.data[].attributes.last_modification_date	N/A	User-configurable.
.data[].attributes.targeted_industries_tree[].industry_group	Attribute	Target Sector	.last_updateddata[].attributes.last_modification_date	N/A	User-configurable.
.data[].attributes.last_seen	Attribute	Last Active	.data[].attributes.last_modification_date	N/A	User-configurable. Updatable
.data[].attributes.operating_systems[].value	Attribute	Target Operating System	.data[].attributes.last_modification_date	N/A	User-configurable.
.data[].attributes.malware_roles[].value	Attribute	Role	.data[].attributes.last_modification_date	N/A	User-configurable.
.data[].id	Related Adversary	Adversary	N/A	N/A	User-configurable. See Google Threat Intelligence Related Adversaries (Supplemental) above
.data[].id	Related Campaign	Campaign	N/A	N/A	User-configurable. See Google Threat Intelligence Related

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
					Campaigns (Supplemental) above
.data[].id	Related Vulnerability/ Related Indicator	Vulnerability/CVE	N/A	N/A	User-configurable. See Google Threat Intelligence Related Vulnerabilities (Supplemental) above
.data[].id	Related Attack Pattern	Attack Pattern	N/A	N/A	User-configurable. See Google Threat Intelligence Related Attack Pattern (Supplemental) above
.data[].id	Related Indicator	Indicator	N/A	N/A	User-configurable. See Google Threat Intelligence Related IOC (Supplemental) above

Google Vulnerability Intelligence

The Google Vulnerability Intelligence feed will fetch and ingest the latest vulnerabilities & supporting context, reported by Google TI.

Two main pieces of data will be ingested by this feed: a Vulnerability Object and its corresponding CVE ID as an Object. You can configure the feed to ingest these CVE IDs as either a Vulnerability Object and/or an Indicator Object, with the CVE type.

```
GET {base_url}/api/v3/collections?
filter=collection_type:vulnerability
```

Sample Response:

```
{
  "data": [
    {
      "id": "vulnerability--cve-2025-31324",
      "type": "collection",
      "links": {
        "self": "https://www.virustotal.com/api/v3/collections/
vulnerability--cve-2025-31324"
      },
      "attributes": {
        "description": "SAP NetWeaver Visual Composer Metadata
Uploader is not protected with a proper authorization, allowing
unauthenticated agent to upload potentially malicious executable
binaries that could severely harm the host system. This could
significantly affect the confidentiality, integrity, and availability
of the targeted system.",
        "collection_type": "vulnerability",
        "recent_activity_summary": [
          0,
          0
        ],
        "targeted_informations": [],
        "epss": {
          "score": 0.66207,
          "percentile": 0.98406
        },
        "top_icon_md5": [],
        "targeted_regions_hierarchy": [],
        "creation_date": 1745520314,
```

```

    "references_count": 0,
    "sources": [
      {
        "md5": "71ff8f7bd1271b29afb6ff0f61b36a0b",
        "published_date": 1745513427,
        "name": "Cybersecurity and Infrastructure Security Agency
(CISA)",
        "source_description": null,
        "url": "https://github.com/cisagov/vulnrichment/blob/
develop/2025/31xxx/CVE-2025-31324.json",
        "cvss": {
          "cvssv4_x": null,
          "cvssv2_0": null,
          "cvssv3_x_translated": null,
          "cvssv3_x": {
            "base_score": 10.0,
            "temporal_score": null,
            "vector": "CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/
A:H"
          }
        },
        "title": null,
        "unique_id": null
      }
    ],
    "subscribers_count": 7,
    "tags": [
      "affects_ot",
      "observed_in_the_wild",
      "was_zero_day",
      "has_exploits",
      "media_attention"
    ],
    "threat_scape": [],
    "summary_stats": {},
    "tags_details": [
      {
        "description": null,
        "first_seen": null,
        "confidence": "possible",
        "last_seen": null,
        "value": "affects_ot"
      }
    ]
  }
}

```

```

    },
    {
      "description": null,
      "first_seen": null,
      "confidence": "possible",
      "last_seen": null,
      "value": "has_exploits"
    }
  ],

```

"analysis": "An attacker would need to send an HTTP(S) request to the '/developmentserver/metadatauploader' endpoint with the 'CLIENT' parameter set to any value and the 'CONTENTTYPE' parameter set to 'MODEL'. The JSP file contents must be sent in the request body with the 'name' and 'filename' form-data fields set appropriately. The JSP file is executed with a GET request to the '/irj/filename' endpoint, where 'filename' is the name of the file uploaded in the previous step. This JSP file will be executed with Operating System user privileges.\n\nOn April 22, 2025, ReliaQuest published a blog post detailing exploitation of this vulnerability in the wild. Exploitation of this vulnerability was conducted to deploy web-shells on several vulnerable systems. For more information, please refer to their blog \"[ReliaQuest Uncovers New Critical Vulnerability in SAP NetWeaver.](https://reliaquest.com/blog/threat-spotlight-reliaquest-uncovers-vulnerability-behind-sap-netweaver-compromise/)\".\n\nOn April 25, 2025, Onapsis released a blog post detailing observed exploitation of this vulnerability in the wild. For more information and IOCs, please refer to their blog post \"[Active Exploitation of SAP Zero-Day Vulnerability (CVE-2025-31324, SAP Security Note 3594142).](https://onapsis.com/blog/active-exploitation-of-sap-vulnerability-cve-2025-31324/)\".\n\nOn April 28, 2025, Rapid7 reported they observed exploitation of this vulnerability as early as March 27, 2025, against multiple customer environments, primarily affecting manufacturing companies. For more information, please refer to their blog post \"[Active exploitation of SAP NetWeaver Visual Composer CVE-2025-31324.](https://www.rapid7.com/blog/post/2025/04/28/etr-active-exploitation-of-sap-netweaver-visual-composer-cve-2025-31324/)\".\n\nOn April 30, 2025, WithSecure published a report detailing exploitation of this vulnerability to deploy the XMRig coin miner. The earliest exploitation activity they are aware of occurred on March 18, 2025. For more information, please refer to their report \"[SAP NetWeaver CVE-2025-31324 Exploitation.](https://labs.withsecure.com/

publications/netweaver-cve-2025-31324)\n\nOn May 13, 2025, EclecticIQ published a [report](https://blog.eclecticiq.com/china-nexus-nation-state-actors-exploit-sap-netweaver-cve-2025-31324-to-target-critical-infrastructures) detailing China-nexus nation-state APTs launching campaigns against critical infrastructure networks via this vulnerability.\n\nOn May 14, 2025, ReliaQuest published an [update](https://reliaquest.com/blog/threat-spotlight-reliaquest-uncovers-vulnerability-behind-sap-netweaver-compromise/) stating that multiple threat groups have attempted exploitation of this vulnerability.\n\nGoogle Threat Intelligence Group (GTIG) has observed exploitation of this vulnerability in the wild as early as mid-March 2025.",

```

    "cisa_known_exploited": {
      "ransomware_use": "Unknown",
      "added_date": 1745884800,
      "due_date": 1747699200
    },
    "source_regions_hierarchy": [],
    "mati_genids_dict": {
      "report_id": null,
      "cve_id": "vulnerability--1d7f26d7-c182-55ae-9ab4-c81951c63480",
      "mve_id": "vulnerability--e2ccf457-8ba4-5c45-a63c-63bedaf70f21"
    },
    "targeted_industries": [],
    "field_sources": [
      {
        "field": "cvss.cvssv4_x.vector",
        "source": {
          "source_name": "Google Threat Intelligence Group (GTIG)",
          "field_type": "Ranked",
          "sources": [],
          "source_url": ""
        }
      },
      {
        "field": "cvss.cvssv3_x.translated",
        "source": {
          "source_name": "Google Threat Intelligence Group (GTIG)",
          "field_type": "Ranked",

```

```

        "sources": [],
        "source_url": ""
    }
}
],
"risk_factors": [],
"detection_names": [],
"predicted_risk_rating": "",
"technologies": [],
"exploitation": {
    "exploit_release_date": 1745280000,
    "tech_details_release_date": 1745539200,
    "first_exploitation": 1737331200
},
"cve_id": "CVE-2025-31324",
"priority": "P0",
"collection_links": [],
"alt_names_details": [],
"capabilities": [],
"risk_rating": "CRITICAL",
"cvss": {
    "cvssv3_x": {
        "base_score": 10.0,
        "temporal_score": 9.3,
        "vector": "CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H/
E:F/RL:O/RC:C"
    }
},
"vendor_fix_references": [
    {
        "md5": null,
        "published_date": 1745452800,
        "name": "SAP SE",
        "source_description": null,
        "url": "https://support.sap.com/en/my-support/knowledge-
base/security-notes-news/april-2025.html",
        "cvss": null,
        "title": "SAP Security Patch Day - April 2025",
        "unique_id": null
    }
],
"targeted_regions": [],

```

```

    "affected_systems": [],
    "merged_actors": [],
    "mitigations": [],
    "private": true,
    "ip_addresses_count": 0,
    "domains_count": 0,
    "intended_effects": [],
    "days_to_patch": -14,
    "last_modification_date": 1750839775,
    "workarounds": [
      "<p>Restrict access to /uddi/ URLs to internal network
traffic, especially if upgrading isnâ€™t feasible.</p>"
    ],
    "exploit_availability": "Publicly Available",
    "origin": "Google Threat Intelligence",
    "last_seen_details": [],
    "exploitation_state": "Confirmed",
    "date_of_disclosure": 1745280000,
    "malware_roles": [],
    "executive_summary": "* An Improper Authorization
vulnerability exists that, when exploited, allows a remote attacker
to execute arbitrary code.\n* This vulnerability has been confirmed
to be exploited in the wild. Proof-of-concept and weaponized code is
publicly available.\n* Google Threat Intelligence Group (GTIG)
considers this a Critical-risk vulnerability due to the potential for
arbitrary code execution.\n* Mitigation options include a patch and a
workaround.",
    "motivations": [],
    "status": "COMPUTED",
    "files_count": 12,
    "operating_systems": [],
    "targeted_industries_tree": [
      {
        "industry_group": "Manufacturing",
        "industry": null,
        "confidence": "possible",
        "first_seen": null,
        "last_seen": null,
        "description": null,
        "source": null
      }
    ],

```

```

"autogenerated_tags": [],
"cwe": {
  "id": "CWE-285",
  "title": "Improper Authorization"
},
"exploitation_consequence": "Code Execution",
"alt_names": [],
"days_to_report": 2,
"is_content_translated": false,
"exploitation_vectors": [
  "Exposed Web Application"
],
"mve_id": "MVE-2025-10681",
"counters": {
  "files": 12,
  "domains": 0,
  "ip_addresses": 0,
  "urls": 0,
  "iocs": 12,
  "subscribers": 7,
  "attack_techniques": 0
},
"version_history": [
  {
    "date": 1750445522,
    "version_notes": [
      "epss.score: 0.80997 -> 0.66207"
    ]
  }
],
"urls_count": 0,
"first_seen_details": [],
"cpes": [
  {
    "start_rel": "=",
    "end_cpe": null,
    "start_cpe": {
      "version": "7.50",
      "product": "Netweaver",
      "vendor": "SAP",
      "uri": "cpe:2.3:a:sap:netweaver:7.50:*:*:*:*:*:*"
    }
  },

```

```

        "end_rel": null
      },
      {
        "start_rel": null,
        "end_cpe": {
          "version": "7.50 for Visual Composer Development
Server",
          "product": "Netweaver",
          "vendor": "SAP",
          "uri":
"cpe:2.3:a:sap:netweaver:7.50:*:*:*:*:visual_composer_development_ser
ver:*:*"
        },
        "start_cpe": null,
        "end_rel": "<="
      }
    ],
    "name": "CVE-2025-31324",
    "available_mitigation": [
      "Intrusion Prevention Signatures",
      "Patch"
    ],
    "aggregations": {}
  },
  "context_attributes": {
    "shared_with_me": false,
    "role": "viewer"
  }
}
],
"meta": {
  "count": 97,
  "cursor": "eJwVjMFugzAQRH8J262UHH0BoVRrBKwx5pYAReBV5KipTK1-
f0lhDqM3b36Hnj4m8k9z91cjpUfuL2NC3_WdVmA-GDeZWdPjxqltXK1bQ-
Jq4KfqydWJ453w8n9vNrk2sfuynOXHUT8XF9fmzwTlVAF5hIJUk7mAspGzfss0qvKWZq-
fxc5B7CfAkQEuL7AtAYr9NKQLq_AcqjQLKh0F4DuDC0JIorBcFY7Cbu7olh08DpvjA-
poeedsJFLouIru80sw5FkCRge7_AFwNVDi"
},
"links": {
  "self": "https://www.virustotal.com/api/v3/collections?
filter=collection_type:vulnerability%20creation_date:2025-01-01%2B%20
(exploitation_state:Confirmed%20or%20exploitation_state:Suspected%20o

```

```
r%20exploitation_state:Reported)
%20(risk_rating:Critical%20or%20risk_rating:High%20or%20risk_rating:Low)",
  "next": "https://www.virustotal.com/api/v3/collections?
filter=collection_type%3Avulnerability+creation_date%3A2025-01-01%2B+
%28exploitation_state%3AConfirmed+or+exploitation_state%3ASuspected+o
r+exploitation_state%3AReported%29+
%28risk_rating%3ACritical+or+risk_rating%3AHigh+or+risk_rating%3ALow%
29&cursor=eJwVjMFugzAQRH8J262Uhh0BoVRrBKwx5pYAReBV5KipTK1-
f0lhDqM3b36Hnj4m8k9z91cjpUfuL2NC3_WdVmA-GDeZWdPjxqltXK1bQ-
Jq4KfgydWJ453w8n9vNrK2sfuynOXHUT8XF9fmzwTlVAF5hIJUk7mAspGzfss0qvKWZq-
fxc5B7CfAkQEul7AtAYr9NKQLq_AcqjQLKh0F4DuDCOJIorBcFY7Cbu7olh08DpvjA-
poeedsJFLouIru80sw5FkCRge7_AFwNVDi"
  }
}
```

ThreatQ provides the following default mapping for this feed based on each item within the `.data[]` list.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.data[].attributes.name</code>	Vulnerability.Value	Vulnerability	<code>.data[].attributes.creation_date</code>	CVE-2025-31324	N/A
<code>.data[].attributes.executive_summary, .data[].attributes.analysis, .data[].attributes.description, .data[].attributes.workarounds[], .data[].attributes.sources[], .data[].attributes.vendor_fix_references[], .data[].attributes.cpes[], .data[].attributes.cvss</code>	Vulnerability.Description	N/A	<code>.data[].attributes.last_modification_date</code>	N/A	User-Configurable. All fields are optional. Fields are concatenated into HTML when enabled.
<code>.data[].attributes.cve_id</code>	Related Vulnerability/Related Indicator	Vulnerability/CVE	<code>.data[].attributes.creation_date</code>	CVE-2025-31324	N/A
<code>.data[].attributes.risk_rating</code>	Vulnerability.Attribute	Risk Rating	<code>.data[].attributes.last_modification_date</code>	CRITICAL	User-configurable.
<code>.data[].attributes.available_mitigation</code>	Vulnerability.Attribute	Available Mitigation	<code>.data[].attributes.last_modification_date</code>	Intrusion Prevention Signatures	User-configurable.
<code>.data[].attributes.cwe.title</code>	Vulnerability.Attribute	CWE	<code>.data[].attributes.last_modification_date</code>	Improper Authorization	User-configurable.
<code>.data[].attributes.exploitation_consequence</code>	Vulnerability.Attribute	Exploitation Consequence	<code>.data[].attributes.last_modification_date</code>	Code Execution	User-configurable.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
			modification_date		
.data[].attributes.exploitation_state	Vulnerability.Attribute	Exploitation State	.data[].attributes.last_modification_date	Confirmed	User-configurable. Updatable.
.data[].attributes.exploitation_vectors	Vulnerability.Attribute	Exploitation Vector	.data[].attributes.last_modification_date	Exposed Web Application	User-configurable.
.data[].attributes.targeted_industries_tree[].industry_group	Vulnerability.Attribute	Targeted Industry	.data[].attributes.last_modification_date	Manufacturing	User-configurable.
.data[].attributes.mve_id	Vulnerability.Attribute	MVE ID	.data[].attributes.last_modification_date	MVE-2025-10681	User-configurable.
.data[].attributes.tags_details	Vulnerability.Attribute	Observed in the Wild	.data[].attributes.last_modification_date	false	User-configurable. Updatable. True if observed_in_the_wild exists in data[].attributes.tags_details[].value
.data[].attributes.tags_details	Vulnerability.Attribute	Has Zero Day	.data[].attributes.last_modification_date	false	User-configurable. Updatable. True if was_zero_day exists in data[].attributes.tags_details[].value
.data[].attributes.tags_details	Vulnerability.Attribute	Is Predicted	.data[].attributes.last_modification_date	false	User-configurable. Updatable. True if is_predicted exists in data[].attributes.tags_details[].value
.data[].attributes.cpes[].start_cpe.vendor / .data[].attributes.cpes[].end_cpe.vendor	Vulnerability.Attribute	Affected Vendor	.data[].attributes.last_modification_date	SAP	User-configurable.
.data[].attributes.cpes[].start_cpe.product / .data[].attributes.cpes[].end_cpe.product	Vulnerability.Attribute	Affected Product	.data[].attributes.last_modification_date	Netweaver	User-configurable.
.data[].attributes.cpes[].start_cpe.uri / .data[].attributes.cpes[].end_cpe.uri	Vulnerability.Attribute	Affected Platform	.data[].attributes.last_modification_date	visualcomposer_development_server	User-configurable. The 11th value extracted from the .data[].attributes.cpes[].start_cpe.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
					uri or data[].attributes.cpes[].end_cpe.uri after splitting by :
.data[].attributes.cvss[{cve_version}].base_score/.data[].attributes.cvss[cvssv4_x].score	Vulnerability.Attribute	CVSS Base Score	.data[].attributes.last_modification_date	10	User-configurable. Updatable. Only for CVE vulnerability/indicator. For cvssv4_x the path is: .data[].attributes.cvss[cvssv4_x].score
.data[].attributes.cvss[{cve_version}].temporal_score	Vulnerability.Attribute	CVSS Temporal Score	.data[].attributes.last_modification_date	9.3	User-configurable. Updatable. Only for CVE vulnerability/indicator.
.data[].attributes.cvss[{cve_version}].vector	Vulnerability.Attribute	CVSS Vector String	.data[].attributes.last_modification_date	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H/E:F/RL:O/RC:C	User-configurable. Only for CVE vulnerability/indicator.
.data[].attributes.cvss[cvssv4_x].threat.exploit_maturity	Vulnerability.Attribute	CVSS Exploit Code Maturity	.data[].attributes.last_modification_date	N/A	User-configurable. Updatable. Only for cvssv4_x CVSS version. Only for CVE vulnerability/indicator.



For CVSS attributes, if data[].attributes.cvss has more versions, the biggest one will be selected.

Google Threat Intelligence Threat Lists

The Google Threat Intelligence Threat Lists feed will fetch up to 4,000 indicators or compromise for each of the selected Threat Lists.

GET {base_url}/api/v3/collections?filter=collection_type:threat_lists

Sample Response:

```
{
  "iocs": [
    {
      "data": {
        "type": "ip_address",
        "id": "1.221.254.82",
        "attributes": {
          "gti_assessment": {
            "verdict": {
              "value": "VERDICT_MALICIOUS"
            },
            "threat_score": {
              "value": 80
            },
            "severity": {
              "value": "SEVERITY_HIGH"
            }
          },
          "asn": 3786,
          "as_owner": "lg dacom corporation",
          "continent": "as",
          "country": "kr",
          "last_analysis_stats": {
            "malicious": 13,
            "undetected": 30,
            "harmless": 49
          },
          "last_modification_date": 1769068959,
          "network": "1.220.0.0/15",
          "positives": 13,
          "regional_internet_registry": "apnic"
        },
        "relationships": {
          "malware_families": {
            "data": [
              {
                "id": "malware--f1151a22-9d9c-589d-90ad-1157ea90033e",
                "type": "collection",
                "attributes": {
                  "name": "emotet",
                  "collection_type": "malware-family"
                }
              }
            ]
          }
        }
      }
    }
  ]
}
```

```

    },
    {
      "id": "threatfox_win_emotet",
      "type": "collection",
      "attributes": {
        "name": "emotet",
        "collection_type": "malware-family"
      }
    }
  ]
},
"reports": {
  "data": [
    {
      "id": "report--20-00018831",
      "type": "collection",
      "attributes": {
        "name": "silentnight observed distributing emotet as a secondary
payload",
        "collection_type": "report"
      }
    }
  ]
},
"context_attributes": {
  "threat_list_id": "ransomware"
}
}
]
}

```

ThreatQ provides the following default mapping for this feed based on each item within the `.data[]` list.



The following fields are added to the indicator description: `.relationships.campaigns.data[]`, `.relationships.reports.data[]`, `attributes.names` and `attributes.outgoing_links`.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.relationships.threat_actors.data[].attributes.name</code>	Related Adversary	Adversary	<code>.data[].attributes.last_modification_date</code>	N/A	User-configurable.
<code>.relationships.malware_families</code>	Related Malware	Adversary	<code>.data[].attributes.last_modification_date</code>	emotet	User-configurable.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
s.data[].attributes.name					
.context_attributes.threat_list_id	Indicator.Attribute	Threat List	.data[].attributes.last_modification_date	Ransomware	User-configurable.
.context_attributes.threat_list_id	Indicator.Attribute	Threat Type	.data[].attributes.last_modification_date	Ransomware	User-configurable. See table Threat Type Mapping
.attributes.last_submission_date	Indicator.Attribute	Last Submission Date	.data[].attributes.last_modification_date	N/A	User-configurable.
.attributes.title	Indicator.Attribute	Site Title	.data[].attributes.last_modification_date	Login Page	User-configurable.
.attributes.last_http_response_code	Indicator.Attribute	Last HTTP Response Code	.data[].attributes.last_modification_date	200	User-configurable.Updatable
.attributes.regional_internet_registry	Indicator.Attribute	RIR	.data[].attributes.last_modification_date	APNIC	User-configurable.
.attributes.as_owner	Indicator.Attribute	AS Organization	.data[].attributes.last_modification_date	MOACK.Co.LTD	User-configurable.
.attributes.asn	Indicator.Attribute	ASN	.data[].attributes.last_modification_date	MOACK.Co.LTD	User-configurable.
.attributes.continent	Indicator.Attribute	Continent Code	N/A	AS	User-configurable.
.attributes.country	Indicator.Attribute	Country Code	N/A	RU	User-configurable.
.attributes.categories[]	Indicator.Attribute	Category	.data[].attributes.last_modification_date	N/A	User-configurable.
.attributes.meaningful_name	Indicator.Attribute	Meaningful Name	.data[].attributes.last_modification_date	Malicious	User-configurable.
.attributes.last_analysis_stats.suspicious	Indicator.Attribute	Suspicious Count	.data[].attributes.last_modification_date	N/A	User-configurable.
.attributes.last_analysis_stats.malicious	Indicator.Attribute	Malicious Count	.data[].attributes.last_modification_date	N/A	User-configurable.
.gti_assessment.threat_score.value	Indicator.Attribute	Threat Score	.data[].attributes.last_modification_date	100	User-configurable.
.gti_assessment.verdict.value	Indicator.Attribute	Verdict	.data[].attributes.last_modification_date	VERDICT_MALICIOUS	User-configurable.
.gti_assessment.severity.value	Indicator.Attribute	Severity	.data[].attributes.last_modification_date	Severity_None	User-configurable.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.gti_assessment.threat_score.value</code>	Indicator.Attribute	Threat Score	<code>.data[].attributes.last_modification_date</code>	100	User-configurable.
<code>.attributes.tags[] + .attributes.type_tags[]</code>	Indicator.Attribute	Tag	<code>.data[].attributes.last_modification_date</code>	100	User-configurable. Updatable. True if <code>is_predicted</code> exists in <code>data[].attributes.tags_details[].value</code>
<code>.id/.attributes.{sha256,sha1,md5} / .attributes.url</code>	Indicator.Value	Mapped: <code>.type</code>	<code>.data[].attributes.last_modification_date</code>	1.221.254.82	User-configurable.

Threat List Threat Type Mapping

The following table illustrates how Google Threat Intelligence Threat Types are mapped as ThreatQ Attributes.

GOOGLE THREAT LIST	THREATQ ATTRIBUTE
infostealer	Infostealer
ransomware	Ransomware
cryptominer	Cryptominer
phishing	Phishing
vulnerability-weaponization	Exploit
malicious-network-infrastructure	Malware Infrastructure
mobile	Mobile
iot	IoT

Google Digital Threat Monitoring Alerts

The Google Digital Threat Monitoring Alerts feed ingests alerts for the current organization detected by Google Digital Threat Monitoring.

GET {base_url}/api/v3/dtm/alerts

Request Parameters:

```
{
  "since": "2026-01-30T09:00:00Z",
  "until": "2026-01-30T10:00:00Z",
  "sort": "updated_at",
  "order": "asc",
  "monitor_name": "true",
  "sanitize": "true",
  "size": 25,
  "status": "new",
  "alert_type": "Compromised Credentials",
  "severity": "high"
}
```

Sample Response:

```
{
  "alerts": [
    {
      "id": "d5ndloibntts73fgbm00",
      "monitor_id": "d4bkpr65pjos73c72tdg",
      "doc": {
        "__id": "f80291dc-8909-4314-8180-42e9628fca90",
        "__type": "account_discovery",
        "ingested": "2026-01-20T01:30:09Z",
        "service_account": {
          "login": "jlai",
          "password": {
            "plain_text": "*****"
          },
          "profile": {
            "identity": {
              "name": "jlai"
            }
          }
        }
      },
    },
  ],
}
```

```

    "service": {
      "inet_location": {
        "domain": "securonix.com",
        "path": "/resources/downloads",
        "protocol": "https",
        "url": "https://securonix.com/resources/downloads"
      },
      "name": "securonix.com"
    }
  },
  "source": "ccmp",
  "source_file": {
    "filename": "Free_line_181.105.103 kk.rar",
    "hashes": {
      "md5": "ec19f9f79e162891251c59efb69703ce",
      "sha1": "08bca8a925033e7b72a6b186d951d4417fc6a1df",
      "sha256":
"ecd7c2ccf0f4412e9b36b3f66dba5e5c481d810a7ea3ef3c3996ce915e96d2f2"
    },
    "size": 2507772569
  },
  "source_url": "https://t.me/SKYCLOUDULP/204",
  "timestamp": "2025-12-05T03:15:48Z"
},
"labels": [
  {
    "id": "7ea8d7fc-2105-4bda-9cfa-cf631afd93a8",
    "classifier": "soup-threat-label",
    "version": "0.1",
    "label": "information-security/information-leak/
credentials",
    "confidence": 100,
    "type": "threat"
  }
],
"topics": [
  {
    "id": "29bc44a7-034c-4f9c-a0e2-e9d6a9f139dc",
    "type": "sha1_hash",
    "value": "08bca8a925033e7b72a6b186d951d4417fc6a1df",
    "extractor": "dtm-ma",
    "extractor_version": "1.0.740",

```

```

    "entity_locations": [
      {
        "element_path": "source_file.hashes.sha1",
        "offsets": [
          0,
          40
        ]
      }
    ]
  },
  {
    "id": "57735fd8-cb1c-4d5b-90a2-0e8a8e72b207",
    "type": "telegram_user_name",
    "value": "FTMixture001",
    "extractor": "dtm-ma",
    "extractor_version": "1.0.761",
    "entity_locations": [
      {
        "element_path": "sender.telegram.name",
        "offsets": [
          0,
          12
        ]
      }
    ]
  },
  {
    "id": "942046d5-cfb6-43f5-b61b-b53a3d2008a5",
    "type": "product",
    "value": "Talkatone",
    "extractor": "analysis-pipeline.nerprocessor-nerenglish-
gpu",
    "extractor_version": "4-0-2",
    "confidence": 88,
    "entity_locations": [
      {
        "element_path": "body",
        "offsets": [
          431,
          440
        ]
      }
    ]
  }

```

```

    ]
  },
  {
    "id": "bb7cfc3f-c714-4a99-8d7d-1147cdfd2bc4",
    "type": "identity_name",
    "value": "Verons",
    "extractor": "dtm-ma",
    "extractor_version": "1.0.761",
    "entity_locations": [
      {
        "element_path": "sender.identity.last_name",
        "offsets": [
          0,
          6
        ]
      }
    ]
  }
],
"topic_matches": [
  {
    "topic_id": "doc_type:account_discovery",
    "value": "account_discovery"
  }
],
"label_matches": [],
"doc_matches": [
  {
    "match_path":
"service_account.service.inet_location.domain",
    "locations": [
      {
        "offsets": [
          0,
          13
        ],
        "value": "securonix.com"
      }
    ]
  }
],
"tags": [],

```

```

    "created_at": "2026-01-20T01:31:14.529Z",
    "updated_at": "2026-01-20T01:31:16.567Z",
    "labels_url": "https://api.intelligence.mandiant.com/v4/dtm/
docs/account_discovery/f80291dc-8909-4314-8180-42e9628fca90/labels",
    "topics_url": "https://api.intelligence.mandiant.com/v4/dtm/
docs/account_discovery/f80291dc-8909-4314-8180-42e9628fca90/topics",
    "doc_url": "https://api.intelligence.mandiant.com/v4/dtm/docs/
account_discovery/f80291dc-8909-4314-8180-42e9628fca90",
    "status": "new",
    "alert_type": "Compromised Credentials",
    "alert_summary": "ccmp",
    "title": "Leaked Web Service Credentials from
\"securonix.com\"",
    "email_sent_at": "",
    "indicator_mscore": 0,
    "severity": "low",
    "confidence": 0.27283120687581575,
    "aggregated_under_id": "d4bm49eghh8s739pl860",
    "monitor_name": "Compromised Credentials",
    "has_analysis": false,
    "meets_password_policy": "policy_unset",
    "severity_reasoning": {
      "rule": ""
    },
    "confidence_reasoning": {
      "version": "",
      "response_count": 0,
      "malicious_count": 0,
      "benign_count": 0,
      "confidence_count": null,
      "explanation": null
    },
    "ignore": false,
    "monitor_version": 1
  }
]
}

```

ThreatQ provides the following default mapping for this data based on each item within the `.alerts[]` list.



The following fields are added to the event description: `.alert_summary`, `.ai_doc_summary`, and `.doc_url`.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.title</code> , <code>.alert_type</code> , <code>.id</code>	Event.Value	Alert	<code>.created_at</code>	Leaked Web ... (Compromised Credentials) (Alert ID: d4bm42jp39cc73afrr30)	Values are concatenated
<code>.labels[].label</code>	Event.Tag	N/A	N/A	information-security/ information-leak/credentials	User-Configurable
<code>.alert_type</code>	Event.Attribute	Alert Type	<code>.created_at</code>	Compromised Credentials	User-Configurable
<code>.confidence</code>	Event.Attribute	Confidence Score	<code>.created_at</code>	0.27	User-Configurable. Updatable
<code>.confidence_reasoning.malicious_count</code>	Event.Attribute	Malicious Count	<code>.created_at</code>	0	User-Configurable. Updatable
<code>.severity</code>	Event.Attribute	Severity	<code>.created_at</code>	Low	User-Configurable. Updatable. Title-cased.
<code>.similarity_score</code>	Event.Attribute	Similarity Score	<code>.created_at</code>	N/A	User-Configurable. Updatable
<code>.status</code>	Event.Attribute	Status	<code>.created_at</code>	New	User-Configurable. Updatable. Title-cased.
<code>.monitor_name</code>	Event.Attribute	Monitor	<code>.created_at</code>	Compromised Credentials	User-Configurable
<code>.topics[{type=organization}.value]</code>	Event.Attribute	Organization	<code>.created_at</code>	N/A	User-Configurable
<code>.topics[{type=identity_name}.value]</code>	Event.Attribute	Identity	<code>.created_at</code>	Verons	User-Configurable
<code>.topics[{type=product}.value]</code>	Event.Attribute	Product	<code>.created_at</code>	Talkatone	User-Configurable
<code>.topics[{type=brand}.value]</code>	Event.Attribute	Brand	<code>.created_at</code>	N/A	User-Configurable
<code>.topics[{type=city}.value]</code>	Event.Attribute	City	<code>.created_at</code>	N/A	User-Configurable
<code>.topics[{type=country}.value]</code>	Event.Attribute	Country	<code>.created_at</code>	N/A	User-Configurable
<code>.topics[{type=}.value]</code>	Related Indicator.Value	See Alert Indicators Type Mapping	<code>.created_at</code>	08bca8a925033e7b72a6b186d951d4417fc6a1df	User-Configurable
N/A	Related Indicator.Attribute	Platform	N/A	Telegram	Hardcoded attribute for telegram_user_name

Alert Indicators Type Mapping

The following table details how Google Alert Indicator types are mapped into ThreatQ Indicators.

ALERT INDICATOR TYPE	THREAT INDICATOR TYPE
md5_hash	MD5
sha1_hash	SHA-1
sha256_hash	SHA-256
filename	Filename
path	File Path
domain	FQDN
ipv4_address	IP Address
ipv6_address	IPv6 Address
url	URL
email_address	Email Address
telegram_user_name	Username

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.

Google Threat Intelligence

METRIC	RESULT
Run Time	27 minutes
Adversaries	532
Adversary Attributes	7,056
Attack Patterns	263
Malware	4
Malware Attributes	201
Vulnerabilities	298
Vulnerability Attributes	1,132

Google Threat Intelligence Campaigns

METRIC	RESULT
Run Time	2 minutes
Adversaries	98

METRIC	RESULT
Adversary Attributes	104
Attack Patterns	289
Campaigns	121
Campaign Attributes	1,551
Indicators	481
Indicator Attributes	481
Malware	342
Vulnerabilities	41

Google Threat Intelligence Indicators

METRIC	RESULT
Run Time	48 minutes
Adversaries	41
Indicators	159,178
Indicator Attributes	142,805

Google Threat Intelligence Malware

METRIC	RESULT
Run Time	4 minutes
Adversaries	60
Attack Patterns	105
Indicators	3,985
Indicator Attributes	10,619
Malware	41
Malware Attributes	1,336
Vulnerabilities	2

Google Vulnerability Intelligence

METRIC	RESULT
Run Time	1 minute
Indicators	207
Indicator Attributes	4,731
Vulnerabilities	363
Vulnerability Attributes	6,194

Google Threat Intelligence Threat Lists

METRIC	RESULT
Run Time	6 minutes
Indicators	20
Indicator Attributes	92

Google Digital Threat Monitoring Alerts

METRIC	RESULT
Run Time	2 minutes
Event	7
Event Attributes	70
Indicators	120
Indicator Attributes	2

Known Issues / Limitations

- Each feed has optional parameters for retrieving related objects. These parameters were made optional to avoid encountering the daily rate limit. It is highly recommended that you use these optional parameters with caution to avoid hitting the daily rate limit.
- The MITRE ATT&CK filter introduced in version 2.2.0 of this integration utilizes an in-memory cache to store all MITRE ATT&CK data. The cache is automatically refreshed every 24 hours to ensure the integration remains synchronized with the latest MITRE ATT&CK content.

Change Log

- **Version 2.3.0**
 - Updated the Google Vulnerability Intelligence feed to use the vulnerability **published date** (`creation_date`) instead of the **last modified date** (`last_modification_date`) for both the primary Vulnerability object and its associated CVE object. This ensures published date information is imported consistently and more accurately reflects the original vulnerability disclosure date.
- **Version 2.2.0**
 - Added a new MITRE ATT&CK filter that streamlines the retrieval and processing of MITRE ATT&CK data by leveraging in-memory caching. The filter automatically refreshes its cache every 24 hours to ensure access to the latest MITRE ATT&CK content while improving performance and reducing data load times.
 - Updated the minimum ThreatQ version to 6.6.0.
- **Version 2.1.1**
 - Added a new feed: **Google Digital Threat Monitoring Alerts**.
- **Version 2.1.0**
 - Added a new feed: **Google Threat Intelligence Threat Lists**.
 - Added support for parsing out IDS (Snort) rules linked to indicators.
 - Performed improvements to pagination to better select a delta from the API for each feed run.
 - Updated integration processes to reduce the number of API calls made during each feed run.
 - Made improvements to description formatting.
 - Resolved a bug that would cause IOC date filtering to not function as expected.
 - Resolved a bug that caused all related IOCs to be re-ingested into ThreatQ on each feed run. Only new/updated indicators related to a given collection will be ingested on each feed run based on the feed run timeframe and minimum threat score threshold.
 - `Industry` attribute for Adversaries & Malware has been renamed to `Target Industry` to better align with the standard data model.

- Targeted Industry attribute has been renamed to Target Industry to better align with the standard data model.
- Added an Overview section to each feed's configuration to describe what the feed does and what sort of information will be ingested.
- Added the following new configuration parameters to all feeds:
 - **Origin Filter** - filter the results based on the origin of the intelligence.
 - **Custom API Filter** - an optional custom filter to append to all API requests when fetching collections from the API.
- Added the following new configuration parameters for all feeds excluding Vulnerability Intelligence:
 - **Indicator Description Context Selection** - select the context used to populate each indicator's description.
 - **Ingest ASNs As** - select which entity type to ingest ASNs as in ThreatQ.
- Added the following new configuration parameter for the Threat Intelligence, Campaigns, and Malware feeds:
 - **Supplemental Context Confidence Filter** -
- Added the new options for the **Ingest Related Hash Types, Adversaries Context Selection**, and **Indicator Context Selection** parameters for all feeds excluding Vulnerability Intelligence.
- Removed legacy configuration parameter: **Inherit Context from Indicators to Related Hashes**.
- **Version 2.0.0**
 - Rebranded the integration from Mandiant Threat Intelligence CDF to **Google Threat Intelligence CDF**.
 - Migrated the integration feeds from Mandiant to Google Threat Intelligence.
 - Added new parameters to retrieve related objects with a customizable context.
 - Added configuration parameter to filter by industries.
 - Resolved an issue where CVE IDs would not be ingested into ThreatQ when the Indicators (Type: CVE) option was selected in the Ingest CVEs As field for the **Google Vulnerability Intelligence** (formerly Mandiant Vulnerability Intelligence) feed.



A note has also been added to this feed to clarify how CVE IDs will be ingested into the platform. You will need to re-enter your configuration and re-enable the feed after upgrading to this version.

Ensure your credentials and other configurations are backed up before upgrading.

- Added the ability to ingest the Last Activity Date for Campaigns as an attribute.
 - Performed the following updates and fixes for Google Score & Threat Score mapping:
 - Google Score is no longer used for threshold filtering, in favor of the new "Threat Score" field.
 - Google's new Confidence and Severity fields are now ingested as attributes alongside the threat score.
 - Google's new Verdict field is now ingested as an attribute for indicators.
 - Google's new Category field is now ingested as an attribute for indicators.
 - Added the ability to dynamically set the status of indicators based on the threat score or verdict.
 - Automatically set status to Active if the verdict is malicious.
 - Automatically set status to Whitelisted if the threat score is 0.
 - Added the ability to normalize the Threat Score for indicators into a value range of your choosing.
 - Added the ability to select which pieces of context get brought into ThreatQ with each indicator.
- **Version 1.5.0**
 - Added the following new feeds:
 - Mandiant Threat Intelligence Campaigns
 - Mandiant Threat Intelligence Malware
 - The **Mandiant Threat Intelligence** (actors) feed no longer will fetch attack patterns related to *related malware* as this fetch will be handled by the dedicated **Mandiant Threat Intelligence Malware** feed.
 - Added a new configuration parameter, **Ingest CVEs As**, to the Mandiant Vulnerability Intelligence feed.
 - Performed the following updates regarding Mandiant Score Mapping:
 - Mandiant Score now normalizes to an attribute called **Disposition**. It was previously called **Mandiant Confidence**. Users should adjust their scoring policy to account for this change.

- Score thresholds are now inclusive (previously exclusive).
- Added the ability to map to a Disposition of Suspicious.
- Modified the default score thresholds based on Mandiant's recommendations:
 - 0-39: Unknown
 - 40-59: Indeterminate
 - 60-79: Suspicious
 - 80-100: Malicious
- Indicators are no longer marked as Benign if their score does not reach the Indeterminate threshold. Instead, they will be marked as Unknown, per Mandiant's recommendations
- Added TLP mapping Support.
- Added the ability to have associated hashes (to indicators) inherit attributes from the top-level indicator
- Added Category attribute for indicators based on the reporting sources.
- Added the ability to ingest MISP flags into the description of each indicator (Indicators feed only).
- Removed the redundant Audience Name attribute from the Mandiant Threat Intelligence feed and renamed the Audience License attribute to Audience.
- Resolved a pagination issue where the supplemental feed may error out when relationships exceed 10k.
- Renamed the Operating System attribute for Malware to Target Operation System
- The default selection for how CVEs will be ingested is now set to Vulnerabilities.
- The default MScore threshold is now 40 to prevent ingestion of unrated indicators.
- Added the ability to enable/disable SSL Verification.
- Added the ability to enable/disable Proxies.
- Added two new known issues / limitation entries:
 - Users upgrading from an integration version <1.5.0 will have to reconfigure and reenable their feeds upon upgrade to 1.5.0 or later.

- Disabling the **Only Ingest Recently Updated Entities** configuration parameter for the Mandiant Threat Intelligence Malware feed will result in extremely long run times and may trigger a 500 internal server error from Mandiant.
- Updated the minimum ThreatQ version to 5.12.1.
- **Version 1.4.0**
 - Updated the minimum ThreatQ version to 5.6.0.
 - The **Mandiant Threat Intelligence Vulnerabilities** feed has been renamed to the **Mandiant Vulnerability Intelligence** feed.
 - The feed can now parse and return more context and details regarding vulnerabilities.
 - Added the following parameters:
 - **Range Type Filter** - select the rating types for vulnerabilities to ingest.
 - **Risk Rating Filter** - select the risk ratings for vulnerabilities to ingest.
 - **Exploitation State Filter** - select the exploitation states for vulnerabilities to ingest.
 - **Exploitation Vector Filter** - select the exploitation vectors for vulnerabilities to ingest.
 - **Vulnerability Must Have a Zero Day** - filter out vulnerabilities that do not have zero days exploits.
 - **Vulnerability Must be Observed in the Wild** - filter out vulnerabilities that have not been observed in the wild.
 - **Vulnerability Must be CISA Known Exploited** - filter out vulnerabilities that are not CISA known exploited.
 - **Vulnerability Must Have Exploits** - filter out vulnerabilities that have no associated exploits.
 - **Vulnerability Attribute Context** - select the context for vulnerabilities to ingest.
 - **Description Context** - select the pieces of context to include in the vulnerability's description.
 - **CVSS Attribute Context** - select the CVSS context for vulnerabilities to ingest.
 - Removed the **Save CVE Data As** parameter from the feed.

- Added the following parameters to the Intelligence and Indicator Intelligence feeds:
 - **Inherit Attributes from Indicators to Associated Hashes** - adds the ability to inherit attribution from top-level indicators to the associated hashes.
 - **Add MISP Flags to Indicator Descriptions** - adds the ability to ingest the MISP flags into the description of each indicator.
- Added the **Parsing Entities** parameter field to the Mandiant Threat Intelligence feed.
- Resolved an issue where the Confidence mapping was not an inclusive threshold.
- **Version 1.3.4**
 - Added a new configuration parameter, **Parsed Entries**, that allows you to select the IOC types to automatically parse from the content.
 - Added ingestion rules for certain attributes.
 - Updated the **Save CVE Data** default setting. The Vulnerabilities option will now be selected by default.
- **Version 1.3.3**
 - Added new configuration option: **Base URL**, that allows you set the Mandiant Base URL for the feeds.
 - New Known Issue / Limitation chapter entry added to the user guide regarding data ranges.
- **Version 1.3.2**
 - Resolved an issue where feed requests would fail with a 400 Bad Request message when the epoch value was empty.
- **Version 1.3.1**
 - Added the following new configuration options for the **Mandiant Threat Intelligence** and **Mandiant Threat Intelligence Indicators** feeds:
 - Mandiant Score Confidence Indeterminate Threshold
 - Mandiant Score Confidence Malicious Threshold
 - Added additional attribute, **Mandiant Classification**, that is derived from the Mandiant Score.
- **Version 1.3.0**
 - Added two new feeds: **Mandiant Threat Intelligence Indicators** and **Mandiant Threat Intelligence Vulnerabilities**.

- **Version 1.2.1**
 - Updated integration authentication method to use **API ID** and **Secret Key** opposed to Username and Password.
- **Version 1.2.0**
 - Added the ability to:
 - Include uncategorized groups as tags.
 - Filter data by recently updated entities.
 - Fetch related attack patterns to the threat actors.
 - Fetch related indicators to the threat actors.
 - Fetch related attack patterns to the related malware.
 - Fixed an issue where the feed attempted to ingest related malware as Indicators
- **Version 1.1.1**
 - Fixed an issue where the integration would attempt to ingest related malware as indicators.
 - Added the following configuration parameters:
 - **Only Ingest Recently Updated Threat Actors** - Adds ability to filter data by recently updated entities.
 - **Add Uncategorized Groups as Tags** - Adds ability to include uncategorized groups as tags.
 - **Fetch Attack Patterns Related to Threat Actors** - Adds ability to fetch related attack patterns to the threat actors.
 - **Fetch Indicators Related to Threat Actors** - Adds ability to fetch related indicators to the threat actors.
 - **Fetch Indicators Related to Malware** - Adds ability to fetch related attack patterns to the related malware.
- **Version 1.1.0**
 - Added X-App-Name as a header.
 - Performed internal refactoring.
- **Version 1.0.0**
 - Initial release