ThreatQuotient

Recorded Future CDF

Version 2.13.0

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Support Email: support@threatq.com
Support Web: https://support.threatq.com
Support Phone: 703.574.9893

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	2.13.0
Compatible with ThreatQ Versions	>= 5.6.0
Support Tier	ThreatQ Supported

Introduction

The Recorded Future CDF ingests threat intelligence data from the following feeds published by the *Recorded Future* vendor:

- **Recorded Future Domain Risk List** - retrieves information in the form of a CSV list where the first token is risk data and the last token containing the supporting context.
- **Recorded Future IP Risk List** - retrieves IP Addresses from the provider.
- **Recorded Future URL Risk List** - retrieves URLS from the provider.
- **Recorded Future Vulnerability Risk List** - retrieves CVEs from the provider.
- **Recorded Future Hash Risk List** - retrieves Hashes from the provider.
- **Recorded Future Analyst Note** - retrieves Reports, Indicators, and Attack Patterns from the provider.
- **Recorded Future Alerts** - retrieves Alerts from the provider.
  - **Recorded Future Alerts Details (Supplemental)** - retrieves related data for each of the ingested events retrieved from the Alert endpoint.
- **Recorded Future Playbook Alerts** - retrieves a list of alerts filtered by the values provided in the configuration section.
  - **Recorded Future - Get Playbook Alerts (Supplemental)** - retrieves related data for each of the ingested events retrieved from the Alert endpoint.
- **Recorded Future Fusion Files** - ingests threat intelligence information from the user selected Fusion feeds.
- **Recorded Future Detection Rules** - ingests Recorded Future detection rules (i.e. YARA, Snort, or Sigma) into ThreatQ as Signatures.

The integration ingests the following system objects:

- Adversaries
  - Adversary Tags
- Assets
  - Asset Attributes
- Attack Patterns
  - Attack Pattern Attributes
- Compromised Account (custom object)
- Entities (custom object)
- Files
- Identities
- Indicators
  - Indicator Attributes and Tags
- Malware
  - Malware Attributes
- Reports
  - Report Attributes
- Signatures
  - Signature Attributes
- Vulnerabilities
  - Vulnerability Attributes and Tabs

Prerequisites

The following is required to install and run the integration:

- Recorded Future API Key.
- Compromised Account and Entity custom objects installed on your ThreatQ instance.
- MITRE ATT&CK attack patterns must have already been ingested by a previous run of the MITRE ATT&CK feeds in order for MITRE ATT&CK attack patterns ingested by the Analyst Note feed to be created. MITRE ATT&CK attack patterns are ingested from the following feeds:
  - MITRE Enterprise ATT&CK
  - MITRE Mobile ATT&CK
  - MITRE PRE-ATT&CK

Compromised Account and Entities Custom Object

The integration requires the Compromised Account and Entity custom objects which must be installed prior to installing the CDF. Use the steps provided to install the custom objects.

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

ThreatQ V6 Steps

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

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

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

3. SSH into your ThreatQ instance.
4. Navigate to the following location:

   ```
   cd /var/lib/threatq/misc/
   ```

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

   The directory structure should be as the following:

   - misc
     - install.sh
     - <custom_object_name>.json
     - images (directory)
       - <custom_object_name>.svg

6. Run the following command:

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

   > The installation script will automatically put the application into maintenance mode, move the files to their required directories, install the custom object, update permissions, bring the application out of maintenance mode, and restart dynamo.

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

ThreatQ v5 Steps

Use the following steps to install the custom object in ThreatQ v5:

1. Download the integration zip file from the ThreatQ Marketplace and unzip its contents.
2. SSH into your ThreatQ instance.
3. Navigate to tmp directory:

   ```
   cd /tmp/
   ```

4. Create a new directory:

   ```
   mkdir recorded_future_cdf
   ```

5. Upload the **recorded_future.json** and **install.sh** script into this new directory.
6. Create a new directory called **images** within the recorded_future_cdf directory.

   ```
   mkdir images
   ```

7. Upload the account and entity svg files.
8. Navigate to the **/tmp/recorded_future_cdf**.

   The directory should resemble the following:

   - tmp
     - **recorded_future_cdf**
       - **recorded_future.json**
       - **install.sh**
       - **images**
         - **account.svg**
         - **entity.svg**

9. Run the following command to ensure that you have the proper permissions to install the custom object:

   ```
   chmod +x install.sh
   ```

10. Run the following command:

    ```
    sudo ./install.sh
    ```

    > You must be in the directory level that houses the install.sh and json files when running this command.

    The installation script will automatically put the application into maintenance mode, move the files to their required directories, install the custom object, update permissions, bring the application out of maintenance mode, and restart dynamo.

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

```
rm -rf recorded_future_cdf
```

Installation

> The integration requires the installation of the Compromised Account and Entitiy custom objects. See the Prerequisites chapter for more details. These custom objects must be installed prior to installing the CDF. Attempting to install the CDF prior to installing the custom objects will result in the CDF install process failing.

Perform the following steps to install the integration:

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

1. Log into https://marketplace.threatq.com/.
2. Locate and download the integration zip file.
3. Extract the contents of the zip and install the required custom objects.
4. Navigate to the integrations management page on your ThreatQ instance.
5. Click on the **Add New Integration** button.
6. Upload the integration yaml file using one of the following methods:
   - Drag and drop the yaml file into the dialog box
   - Select **Click to Browse** to locate the yaml file on your local machine
7. Select the individual feeds to install, when prompted, and click **Install**. The feed will be added to the integrations page.

   > 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.

You will still need to configure and then enable the feed.

Configuration

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

To configure the integration:

1. Navigate to your integrations management page in ThreatQ.
2. Select the **Commercial** option from the *Category* dropdown (optional).

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

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

   > All Recorded Future feeds require the Recorded Future API Key. The tables below provide any additional parameters required for specific feeds included with this integration.

Recorded Future Domain Risk List Parameters

PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Enable SSL Verification	Enable this 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.
Risk Rule Triggered	Optional - Enable this parameter to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected, all the indicators satisfying the rest of the criteria are ingested. Options include:

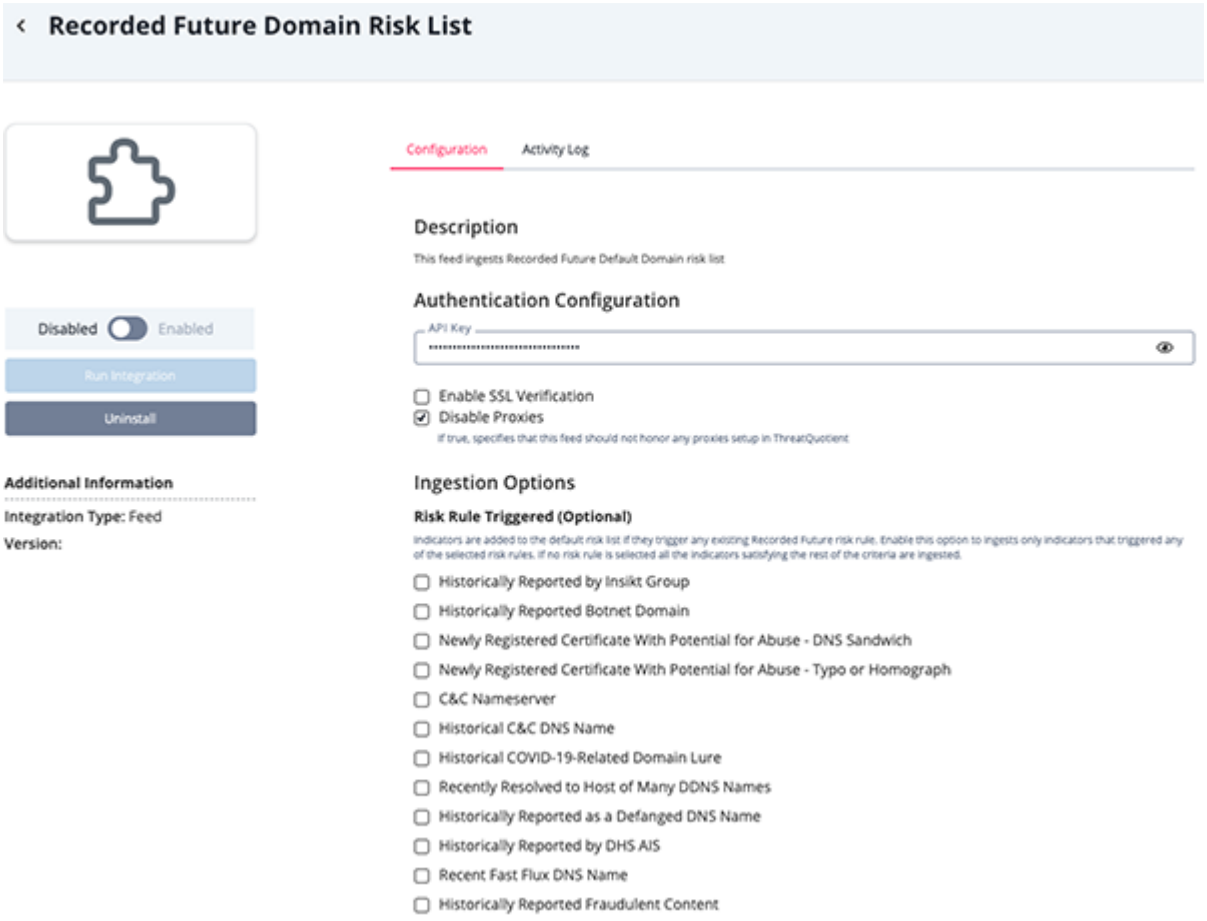
PARAMETER	DESCRIPTION
	○ Historically Reported by Insikt Group ○ Historically Reported Botnet Domain ○ Newly Registered Certificate With Potential for Abuse - DNS Sandwich ○ Newly Registered Certificate With Potential for Abuse - Typo or Homograph ○ C&C Nameserver ○ Historical C&C DNS Name ○ Historical COVID-19-Related Domain Lure ○ Recently Resolved to Host of Many DDNS Names ○ Historically Reported as a Defanged DNS Name ○ Historically Reported by DHS AIS ○ Recent Fast Flux DNS Name ○ Historically Reported Fraudulent Content ○ Frequently Abused Free DNS Provider ○ Historically Reported in Threat List ○ Historically Linked to Cyber Attack ○ Historically Detected Malware Operation ○ Historically Suspected Malware Operation ○ Historically Detected Cryptocurrency Mining Techniques ○ Blacklisted DNS Name ○ No Risk Observed ○ Observed in the Wild by Recorded Future Telemetry ○ Historical Phishing Lure ○ Historically Detected Phishing Techniques ○ Historically Suspected Phishing Techniques ○ Active Phishing URL ○ Recorded Future Predictive Risk Model	○ Recently Reported Fraudulent Content ○ Recently Linked to Cyber Attack ○ Recently Detected Malware Operation ○ Recently Suspected Malware Operation ○ Recent Cryptocurrency Mining Pool ○ Recently Detected Cryptocurrency Mining Techniques ○ Recent Phishing Lure: Malicious ○ Recent Phishing Lure: Suspicious ○ Recently Detected Phishing Techniques ○ Recently Suspected Phishing Techniques ○ Recent Web Filter Avoidance Proxy Domain ○ Recent Punycode Domain ○ Recently Referenced by Insikt Group ○ Recently Reported Spam or Unwanted Content ○ Recent Suspected C&C DNS Name ○ Recent Threat Researcher ○ Recent Typosquat Similarity - DNS Sandwich ○ Recent Typosquat Similarity - Typo or Homograph ○ Recent Ukraine-Related Domain Lure: Malicious ○ Recent Ukraine-Related Domain Lure: Suspicious ○ Recently Active Weaponized Domain ○ Recently Defaced Site

PARAMETER	DESCRIPTION
	○ Historically Detected Web Filter Avoidance Proxy Domain ○ Historical Punycode Domain ○ Recently Reported by Insikt Group ○ Recently Reported Botnet Domain ○ Recent C&C DNS Name ○ Recent COVID-19-Related Domain Lure: Malicious ○ Recent COVID-19-Related Domain Lure: Suspicious ○ Recently Reported as a Defanged DNS Name ○ Recently Reported by DHS AIS ○ Historically Referenced by Insikt Group ○ Recently Resolved to Malicious IP ○ Recently Resolved to Suspicious IP ○ Recently Resolved to Unusual IP ○ Recently Resolved to Very Malicious IP ○ Trending in Recorded Future Analyst Community ○ Historically Reported Spam or Unwanted Content ○ Historical Suspected CANDC DNS Name ○ Historical Threat Researcher ○ Historical Typosquat Similarity - DNS Sandwich ○ Historical Typosquat Similarity - Typo or Homograph ○ Historical Ukraine-Related Domain Lure ○ Historically Active Weaponized Domain
Minimum Risk Score Threshold	The numeric value representing the minimum risk score required to ingest an IOC. The default setting is 50.
Normalize Risk Score	Enable this parameter ingest a normalized risk score value as a scorable attribute.
Risk Score Normalization Mapping	Mapping used to normalize the numeric risk score values to the scorable attribute, `Normalized Risk`. The Risk Score itself will always be ingested. This mapping should contain a line-separated CSV formatted string with the following columns: **Minimum**, **Maximum**, and **Normalized Value**. **Default Values**

PARAMETER	DESCRIPTION

	`0,25,Low`
	`26,50,Medium`
	`51,75,High`
	`76,100,Critical`
	
	This parameter is only accessible if you have enabled the **Normalize Risk Score** parameter.

Filter Out Entries with No New Evidence	Enabling this option will filter out entries that have no new evidence. A risk list is a rolling list of indicators. As a result, there are entries within the list that may be from days, months, or even years ago. Once the feed runs historically and ingests all the entries, subsequent runs do not need to re-ingest the same entries again if there is no new evidence. Disabling it will re-ingest all entries, with solely the old evidence being filtered out. This parameter is enabled by default.



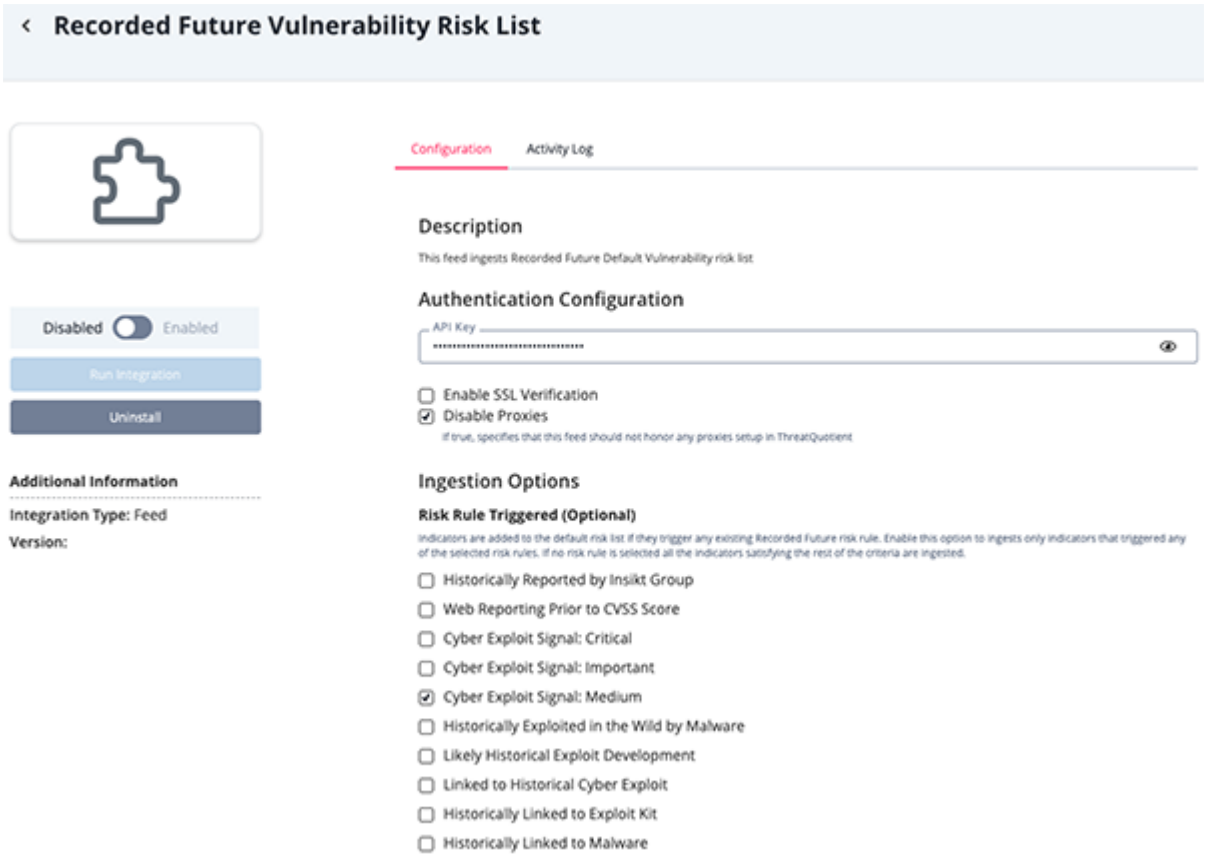
Recorded Future Vulnerability Risk List Parameters

PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Enable SSL Verification	Enable this 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.
Risk Rule Triggered	Optional - Enable this parameter to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected, all the indicators satisfying the rest of the criteria are ingested. Options include: ○ Historically Reported by Insikt Group ○ Web Reporting Prior to CVSS Score ○ Cyber Exploit Signal: Critical ○ Cyber Exploit Signal: Important ○ Cyber Exploit Signal: Medium ○ Historically Exploited in the Wild by Malware ○ Likely Historical Exploit Development ○ Linked to Historical Cyber Exploit ○ Historically Linked to Exploit Kit ○ Historically Linked to Malware ○ Historically Linked to Remote Access Trojan ○ NIST Severity: Low ○ NIST Severity: Medium ○ Web Reporting Prior to NVD Disclosure ○ Historical Unverified Proof of Concept Available ○ Historical Verified Proof of Concept Available ○ Historical Verified Proof of Concept Available Using Remote Execution ○ Recently Reported by Insikt Group ○ Exploit Likely in Active Development ○ Exploited in the Wild by Recently Active Malware ○ Recent Unverified Proof of Concept Available ○ Recent Verified Proof of Concept Available ○ Recent Verified Proof of Concept Available Using Remote Execution ○ Recently Referenced by Insikt Group ○ Recently Linked to Penetration Testing Tools

PARAMETER	DESCRIPTION
	◦ Historically Linked to Ransomware ◦ Linked to Recent Cyber Exploit ◦ Recently Linked to Exploit Kit ◦ Recently Linked to Malware ◦ Recently Linked to Remote Access Trojan ◦ Recently Linked to Ransomware ◦ Exploited in the Wild by Malware ◦ NIST Severity: Critical ◦ NIST Severity: High ◦ Historically Referenced by Insikt Group ◦ Historically Linked to Penetration Testing Tools ◦ Vendor Severity: Critical ◦ Vendor Severity: High ◦ Vendor Severity: Low ◦ Vendor Severity: Medium
Save CVE Data As	Select whether to ingest CVEs as Vulnerabilities or Indicators. The default setting is to ingest Indicators objects.
Minimum Risk Score Threshold	The numeric value representing the minimum risk score required to ingest an IOC. The default setting is 50.
Normalize Risk Score	Enable this parameter ingest a normalized risk score value as a scorable attribute.

Risk Score Normalization Mapping	Mapping used to normalize the numeric risk score values to the scorable attribute, `Normalized Risk`. The Risk Score itself will always be ingested. This mapping should contain a line-separated CSV formatted string with the following columns: **Minimum**, **Maximum**, and **Normalized Value**.
	
	Default Values
	
	`0,25,Low`
	`26,50,Medium`
	`51,75,High`
	`76,100,Critical`

PARAMETER	DESCRIPTION
	This parameter is only accessible if you have enabled the **Normalize Risk Score** parameter.
Filter Out Entries with No New Evidence	Enabling this option will filter out entries that have no new evidence. A risk list is a rolling list of indicators. As a result, there are entries within the list that may be from days, months, or even years ago. Once the feed runs historically and ingests all the entries, subsequent runs do not need to re-ingest the same entries again if there is no new evidence. Disabling it will re-ingest all entries, with solely the old evidence being filtered out. This parameter is enabled by default.



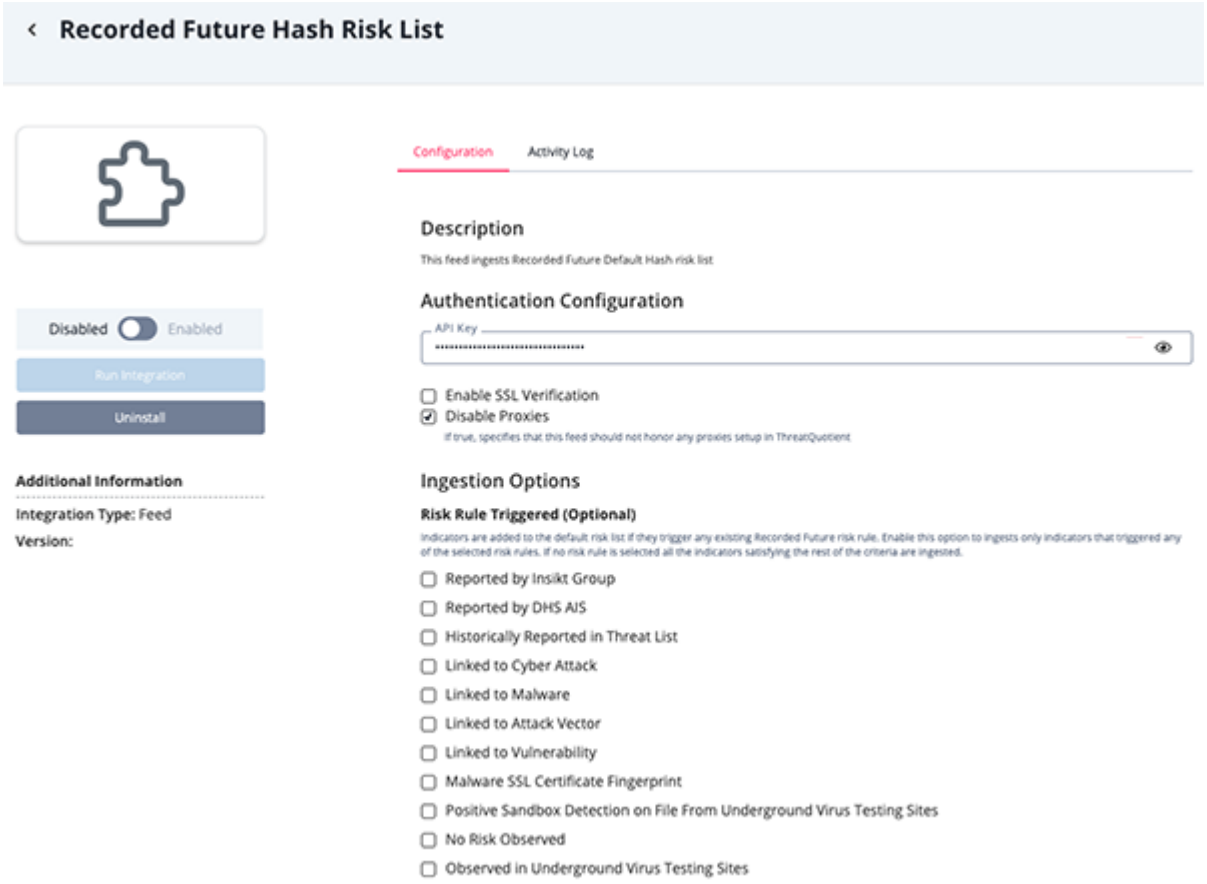
Recorded Future Hash Risk List Parameters

PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Enable SSL Verification	Enable this 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.
Risk Rule Triggered	Optional - Enable this parameter to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected, all the indicators satisfying the rest of the criteria are ingested. Options include: ○ Reported by Insikt Group ○ Reported by DHS AIS ○ Historically Reported in Threat List ○ Linked to Cyber Attack ○ Linked to Malware ○ Linked to Attack Vector ○ Linked to Vulnerability ○ Malware SSL Certificate Fingerprint ○ Positive Sandbox Detection on File From Underground Virus Testing Sites ○ No Risk Observed ○ Observed in Underground Virus Testing Sites ○ Observed in the Wild by Recorded Future Telemetry ○ Positive Malware Verdict ○ Recently Active Targeting Vulnerabilities in the Wild ○ Referenced by Insikt Group ○ Trending in Recorded Future Analyst Community ○ Suspicious Behavior Detected ○ Threat Researcher
Ingested Hash Types	Select the type of hashes to be ingested into ThreatQ. Options include ○ MD5 ○ SHA-1 ○ SHA-256

PARAMETER	DESCRIPTION
Minimum Risk Score Threshold	The numeric value representing the minimum risk score required to ingest an IOC. The default setting is 50.
Normalize Risk Score	Enable this parameter ingest a normalized risk score value as a scorable attribute.

Risk Score Normalization Mapping	Mapping used to normalize the numeric risk score values to the scorable attribute, `Normalized Risk`. The Risk Score itself will always be ingested. This mapping should contain a line-separated CSV formatted string with the following columns: **Minimum**, **Maximum**, and **Normalized Value**.
	
	Default Values
	`0,25,Low`
	`26,50,Medium`
	`51,75,High`
	`76,100,Critical`
	
	This parameter is only accessible if you have enabled the **Normalize Risk Score** parameter.

Filter Out Entries with No New Evidence	Enabling this option will filter out entries that have no new evidence. A risk list is a rolling list of indicators. As a result, there are entries within the list that may be from days, months, or even years ago. Once the feed runs historically and ingests all the entries, subsequent runs do not need to re-ingest the same entries again if there is no new evidence. Disabling it will re-ingest all entries, with solely the old evidence being filtered out. This parameter is enabled by default.


Recorded Future Hash Risk List
Disabled
Enabled
Run Integration
Uninstall
Additional Information
Integration Type: Feed
Version:
Configuration
Activity Log
Description
This feed ingests Recorded Future Default Hash risk list
Authentication Configuration
API Key
Enable SSL Verification
Disable Proxies
If true, specifies that this feed should not honor any proxies setup in ThreatQuotient
Ingestion Options
Risk Rule Triggered (Optional)
Indicators are added to the default risk list if they trigger any existing Recorded Future risk rule. Enable this option to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected all the indicators satisfying the rest of the criteria are ingested.
Reported by Insikt Group
Reported by DHS AIS
Historically Reported in Threat List
Linked to Cyber Attack
Linked to Malware
Linked to Attack Vector
Linked to Vulnerability
Malware SSL Certificate Fingerprint
Positive Sandbox Detection on File From Underground Virus Testing Sites
No Risk Observed
Observed in Underground Virus Testing Sites

Recorded Future IP Risk List Parameters

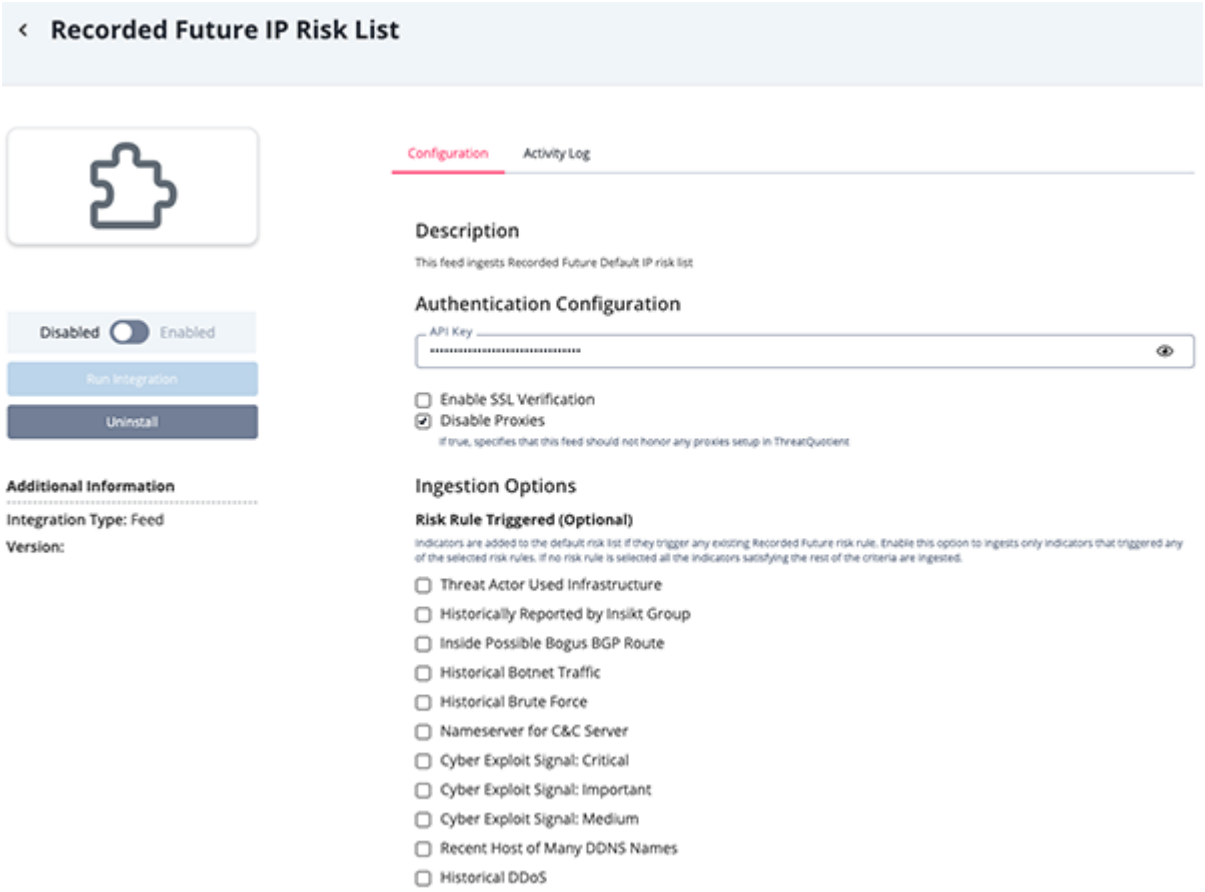
PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Enable SSL Verification	Enable this for the feed to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the feed should not honor proxies set in the ThreatQ UI.
Risk Rule Triggered	Optional - Enable this parameter to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected, all the indicators satisfying the rest of the criteria are ingested. Options include: ○ Threat Actor Used Infrastructure ○ Historically Reported by Insikt Group ○ Inside Possible Bogus BGP Route ○ Historical Botnet Traffic ○ Historical Brute Force ○ Nameserver for C&C Server ○ Cyber Exploit Signal: Critical ○ Cyber Exploit Signal: Important ○ Cyber Exploit Signal: Medium ○ Recent Host of Many DDNS Names ○ Historical DDoS ○ Historically Reported as a Defanged IP ○ Historically Reported by DHS AIS ○ Historical DNS Abuse ○ Resolution of Fast Flux DNS Name ○ Historically Reported in Threat List ○ Historical Honeypot Sighting ○ Honeypot Host ○ Recent DNS Abuse ○ Recent Honeypot Sighting ○ Recently Linked to Intrusion Method ○ Recently Linked to APT ○ Recently Linked to Cyber Attack ○ Recent Malicious Infrastructure Admin Server ○ Recent Malware Delivery ○ Recent Multicategory Blocklist ○ Recent Open Proxies ○ Recent Phishing Host ○ Recent Positive Malware Verdict ○ Recently Referenced by Insikt Group ○ Recently Reported C&C Server ○ Recently Communicating With Reported C&C Server ○ Recent Spam Source ○ Recent SSH/Dictionary Attacker ○ Recent Bad SSL Association ○ Recent Suspected C&C Server ○ Recent Threat Researcher

PARAMETER	DESCRIPTION
	○ Recently Communicating Validated C&C Server ○ Historically Linked to Intrusion Method ○ Historically Linked to APT ○ Historically Linked to Cyber Attack ○ Historical Malicious Infrastructure Admin Server ○ Suspected Malicious Packet Source ○ Historical Malware Delivery ○ Historical Multicategory Blocklist ○ Observed in the Wild by Recorded Future Telemetry ○ Historical Open Proxies ○ Historical Phishing Host ○ Historical Positive Malware Verdict ○ Recorded Future Predictive Risk Model ○ Actively Communicating Validated C&C Server ○ Recently Reported by Insikt Group ○ Recent Botnet Traffic ○ Recent Brute Force ○ Recent DDoS ○ Recently Reported as a Defanged IP ○ Recently Reported by DHS AIS ○ Recent Tor Node ○ Recent Unusual IP ○ Validated C&C Server ○ Recently Communicating With Validated C&C Server ○ Recently Defaced Site ○ Historically Referenced by Insikt Group ○ Historically Reported C&C Server ○ Trending in Recorded Future Analyst Community ○ Historical Spam Source ○ Historical SSH/Dictionary Attacker ○ Historical Bad SSL Association ○ Historical Suspected C&C Server ○ Suspected Phishing Host ○ Historical Threat Researcher ○ Tor Node ○ Unusual IP ○ Previously Validated C&C Server ○ Vulnerable Host ○ Observed High-Impact Vulnerability
Minimum Risk Score Threshold	The numeric value representing the minimum risk score required to ingest an IOC. The default setting is 50.
Normalize Risk Score	Enable this parameter ingest a normalized risk score value as a scorable attribute.
Risk Score Normalization Mapping	Mapping used to normalize the numeric risk score values to the scorable attribute, `Normalized Risk`. The Risk Score itself will always be ingested. This mapping should contain a line-separated

PARAMETER	DESCRIPTION

	CSV formatted string with the following columns: **Minimum**, **Maximum**, and **Normalized Value**.
	
	Default Values
	`0,25,Low`
	`26,50,Medium`
	`51,75,High`
	`76,100,Critical`
	
	This parameter is only accessible if you have enabled the **Normalize Risk Score** parameter.

Filter Out Entries with No New Evidence	Enabling this option will filter out entries that have no new evidence. A risk list is a rolling list of indicators. As a result, there are entries within the list that may be from days, months, or even years ago. Once the feed runs historically and ingests all the entries, subsequent runs do not need to re-ingest the same entries again if there is no new evidence. Disabling it will re-ingest all entries, with solely the old evidence being filtered out. This parameter is enabled by default.


Recorded Future IP Risk List
Disabled
Enabled
Run Integration
Uninstall
Additional Information
Integration Type: Feed
Version:
Configuration
Activity Log
Description
This feed ingests Recorded Future Default IP risk list
Authentication Configuration
API Key
Enable SSL Verification
Disable Proxies
If true, specifies that this feed should not honor any proxies setup in ThreatQuotient
Ingestion Options
Risk Rule Triggered (Optional)
Indicators are added to the default risk list if they trigger any existing Recorded Future risk rule. Enable this option to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected all the indicators satisfying the rest of the criteria are ingested.
Threat Actor Used Infrastructure
Historically Reported by Insikt Group
Inside Possible Bogus BGP Route
Historical Botnet Traffic
Historical Brute Force
Nameserver for C&C Server
Cyber Exploit Signal: Critical
Cyber Exploit Signal: Important
Cyber Exploit Signal: Medium
Recent Host of Many DDNS Names
Historical DDoS

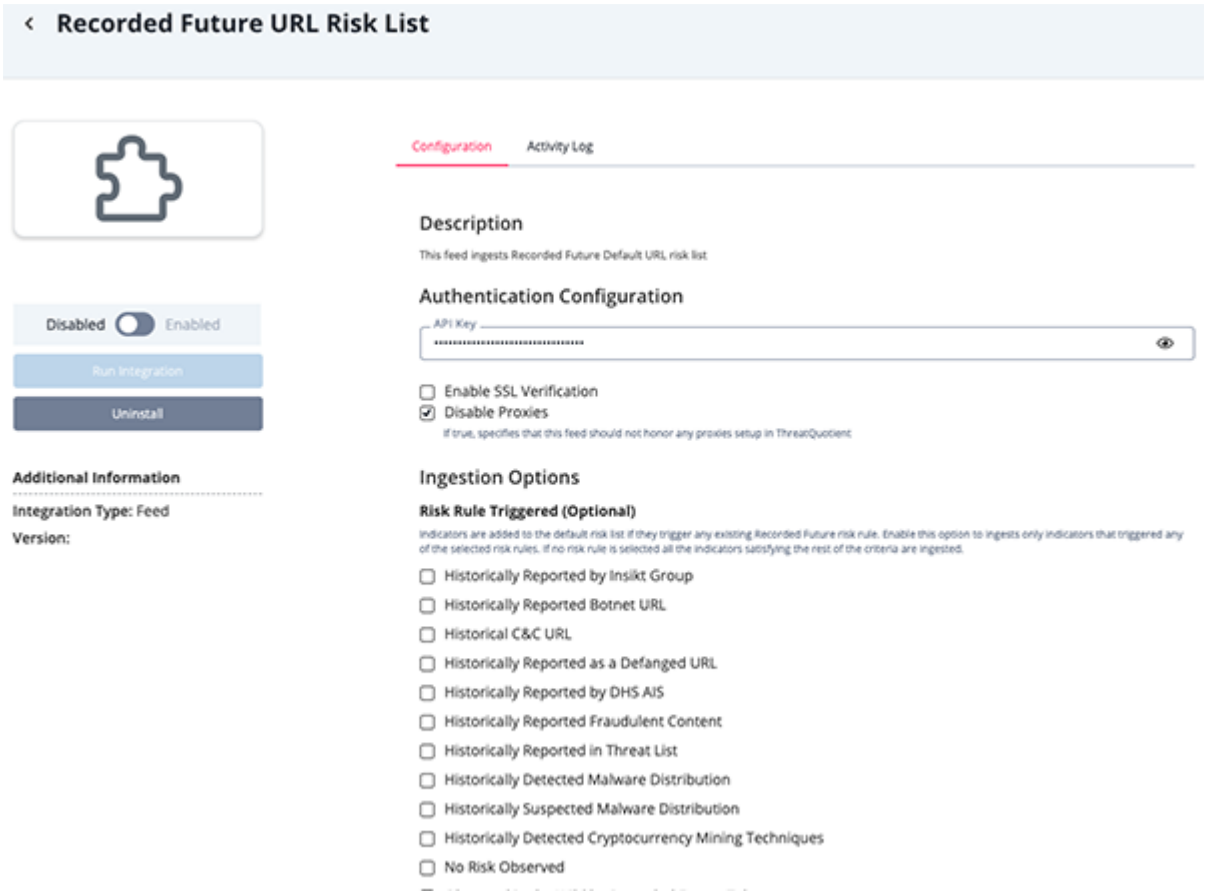
Recorded Future URL Risk List Parameters

PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Enable SSL Verification	Enable this 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.
Risk Rule Triggered	Optional - Enable this parameter to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected, all the indicators satisfying the rest of the criteria are ingested. Options include: ○ Historically Reported by Insikt Group ○ Historically Reported Botnet URL ○ Historical C&C URL ○ Historically Reported as a Defanged URL ○ Historically Reported by DHS AIS ○ Historically Reported Fraudulent Content ○ Historically Reported in Threat List ○ Historically Detected Malware Distribution ○ Historically Suspected Malware Distribution ○ Historically Detected Cryptocurrency Mining Techniques ○ No Risk Observed ○ Observed in the Wild by Recorded Future Telemetry ○ Historically Detected Phishing Techniques ○ Recently Reported as a Defanged URL ○ Recently Reported by DHS AIS ○ Recently Reported Fraudulent Content ○ Recently Detected Malware Distribution ○ Recently Suspected Malware Distribution ○ Recently Detected Cryptocurrency Mining Techniques ○ Recently Detected Phishing Techniques ○ Recently Suspected Phishing Techniques ○ Recent Web Filter Avoidance Proxy URL ○ Recently Referenced by Insikt Group ○ Recent Reported C&C URL ○ Recently Reported Spam or Unwanted Content

PARAMETER	DESCRIPTION
	○ Historically Suspected Phishing Techniques ○ Historically Detected Web Filter Avoidance Proxy URL ○ Recently Reported by Insikt Group ○ Recently Reported Botnet URL ○ Recent C&C URL ○ Recent Suspected C&C URL ○ Recently Active URL on Weaponized Domain ○ Historically Referenced by Insikt Group ○ Historical Reported C&C URL ○ Historically Reported Spam or Unwanted Content ○ Historical Suspected C&C URL
Minimum Risk Score Threshold	The numeric value representing the minimum risk score required to ingest an IOC. The default setting is 50.
Normalize Risk Score	Enable this parameter ingest a normalized risk score value as a scorable attribute.

Risk Score Normalization Mapping	Mapping used to normalize the numeric risk score values to the scorable attribute, `Normalized Risk`. The Risk Score itself will always be ingested. This mapping should contain a line-separated CSV formatted string with the following columns: **Minimum**, **Maximum**, and **Normalized Value**.
	
	Default Values
	`0,25,Low`
	`26,50,Medium`
	`51,75,High`
	`76,100,Critical`
	
	This parameter is only accessible if you have enabled the **Normalize Risk Score** parameter.

Filter Out Entries with No New Evidence	Enabling this option will filter out entries that have no new evidence. A risk list is a rolling list of indicators. As a result, there are entries within the list that may be from days, months, or even years ago. Once the feed runs historically and ingests all the entries, subsequent runs do not need to re-ingest the same entries again if there is no new evidence. Disabling it will re-ingest all entries, with solely the old evidence being filtered out. This parameter is enabled by default.

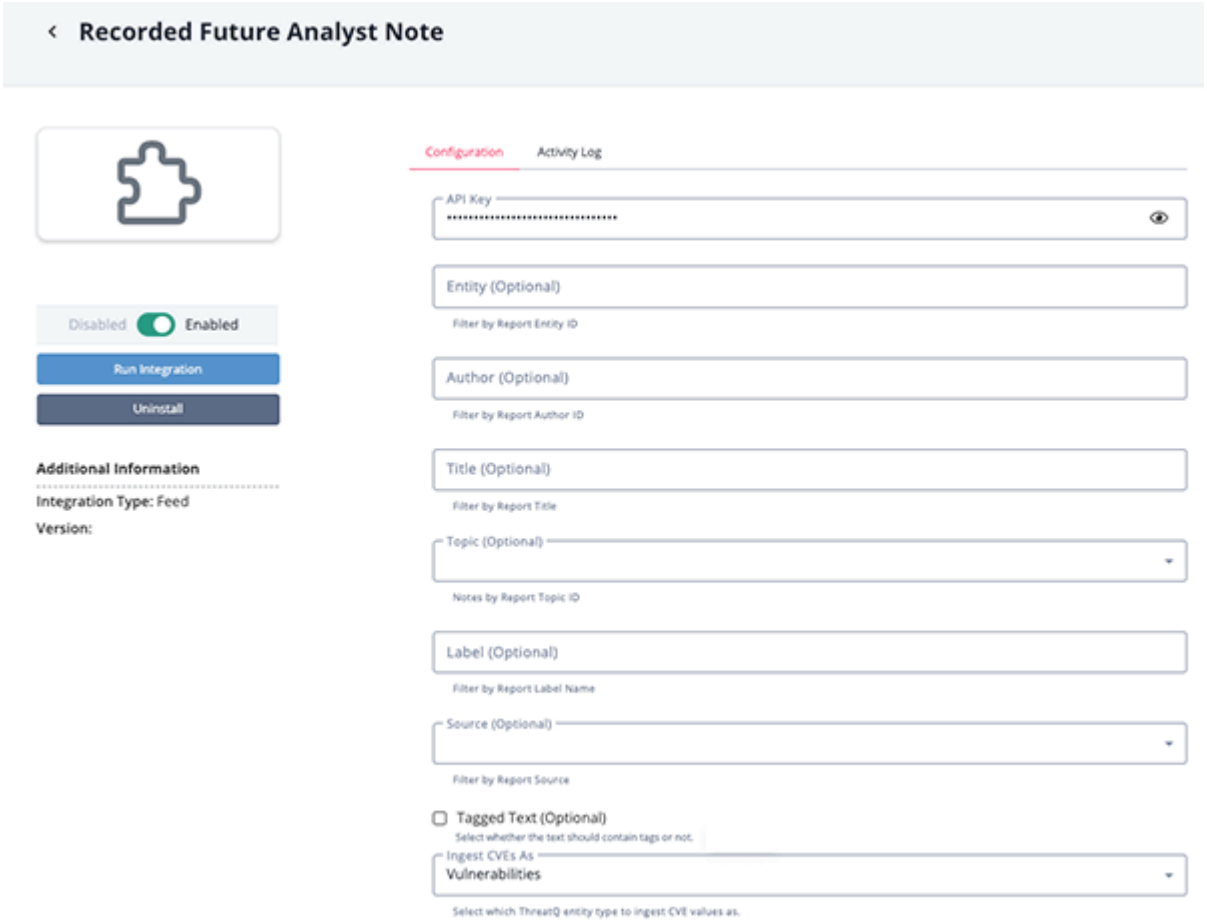

Recorded Future URL Risk List
Disabled
Enabled
Run Integration
Uninstall
Additional Information
Integration Type: Feed
Version:
Configuration
Activity Log
Description
This feed ingests Recorded Future Default URL risk list
Authentication Configuration
API Key
Enable SSL Verification
Disable Proxies
If true, specifies that this feed should not honor any proxies setup in ThreatQuotient
Ingestion Options
Risk Rule Triggered (Optional)
Indicators are added to the default risk list if they trigger any existing Recorded Future risk rule. Enable this option to ingests only indicators that triggered any of the selected risk rules. If no risk rule is selected all the indicators satisfying the rest of the criteria are ingested.
Historically Reported by Insikt Group
Historically Reported Botnet URL
Historical C&C URL
Historically Reported as a Defanged URL
Historically Reported by DHS AIS
Historically Reported Fraudulent Content
Historically Reported in Threat List
Historically Detected Malware Distribution
Historically Suspected Malware Distribution
Historically Detected Cryptocurrency Mining Techniques
No Risk Observed

Recorded Future Analyst Note Parameters

PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Entity	A string to search for notes by entity ID.
Author	A string to search for notes by author ID.
Title	A string to search for notes by title.
Topic	A string to search for notes by topic ID. The options for this user field are: • Actor Profile • Analyst On-Demand Report • Cyber Threat Analysis • Flash Report • Geopolitical Intelligence Summary • Geopolitical Flash Event • Geopolitical Threat Forecast • Geopolitical Validated Event • Hunting Package • Indicator • Insikt Research Lead • Informational • Malware/Tool Profile • Regular Vendor Vulnerability Disclosures • Sigma Rule • SNORT Rule • Source Profile • The Record by Recorded Future • Threat Lead • TTP Instance • Validated Intelligence Event • Weekly Threat Landscape • YARA Rule
Label	A string that helps searching for notes by label, by name.
Source	A string that helps sorting by the source of note. The options for this user field will be: ○ Insikt Group ○ ThreatQuotient - Partner Notes

PARAMETER	DESCRIPTION
Tagged Text	Enable this parameter if the text should contain tags.
Ingest CVEs As	Select which ThreatQ entity type to ingest CVE values as. Options include **Vulnerabilities** (default) and **Indicators**.
Ingest Selected Primary Entities as Indicators	Select which entity types to ingest as indicators of compromise into ThreatQ. Options include: ○ URLs (default) ○ Internet Domain Names (default) ○ IP Addresses (default) ○ Hashes (default) ○ Email Addresses (default) ○ Usernames ○ Filenames ⚠ This will only ingest the selected types from the "primary" entities (note_entities), and not the "supporting" entities (context_entities). This is so we can reduce the amount of false positives being ingested into the platform. Even if you do not select any of these, they will still be included in the description of the note.
Ingest Selected Supporting Entities as Indicators	Select which entity types to ingest as indicators of compromise into ThreatQ. Options include: ○ Internet Domain Names ○ IP Addresses ○ Hashes ○ Email Addresses ○ Usernames ○ Filenames ⚠ This will only enable the ingestion of the selected types from the "supporting" entities (context_entities), and not the "primary" entities (note_entities). **ThreatQuotient does not recommend enabling option due to the high likelihood of false positives.** Even if you do not select any of these, they will still be included in the description of the note.

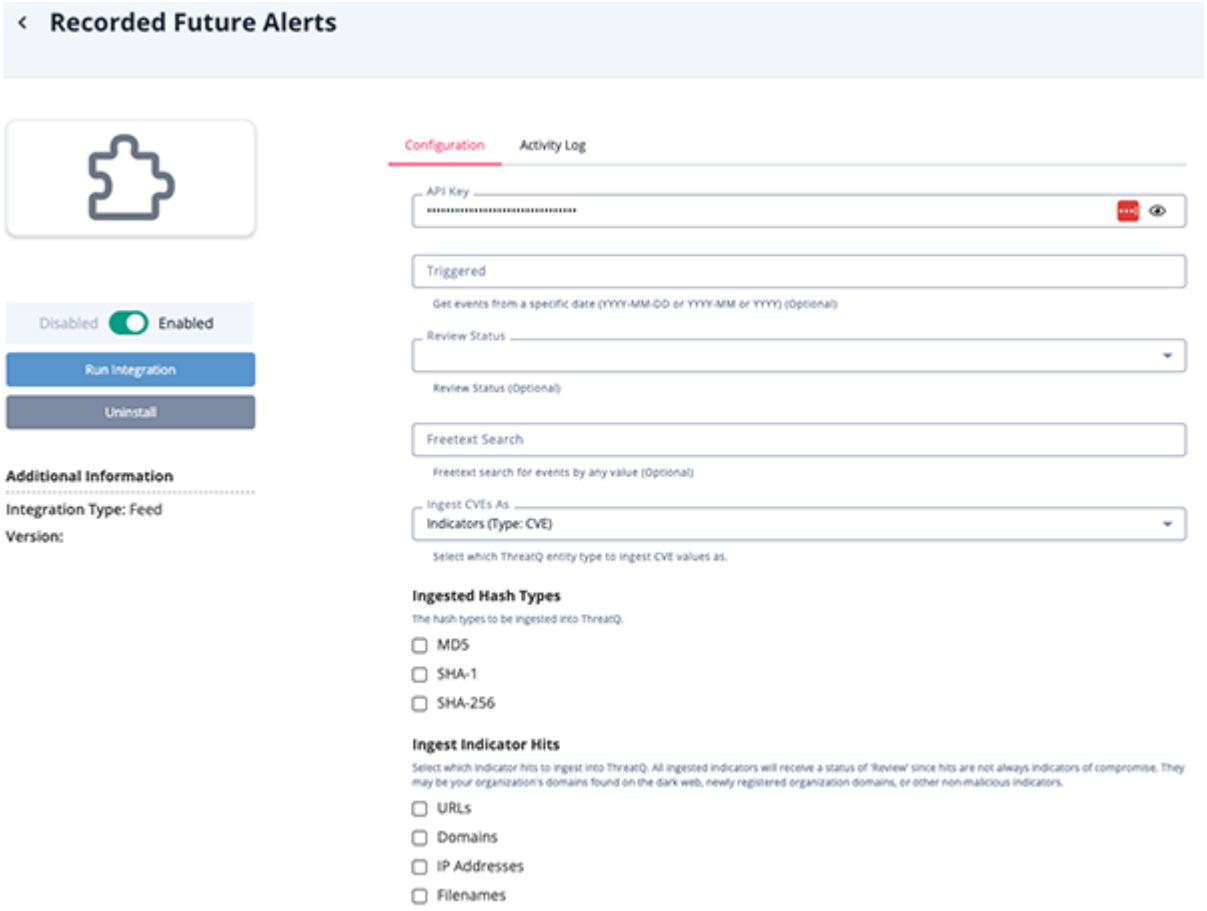
PARAMETER	DESCRIPTION
Ingested Hash Types	Select the type of hashes to be ingested into ThreatQ. Options include ◦ MD5 ◦ SHA-1 ◦ SHA-256
Ingest Topics As	Select the ThreatQ entity type to ingest topics as in the platform. Options include **Tags** and **Attributes**.
API Request Limit	The maximum number of records per request. This will be used in the pagination.
Enable SSL Verification	Enable this 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.


Recorded Future Analyst Note
Disabled
Enabled
Run Integration
Uninstall
Additional Information
Integration Type: Feed
Version:
Configuration
Activity Log
API Key
Entity (Optional)
Filter by Report Entity ID
Author (Optional)
Filter by Report Author ID
Title (Optional)
Filter by Report Title
Topic (Optional)
Notes by Report Topic ID
Label (Optional)
Filter by Report Label Name
Source (Optional)
Filter by Report Source
Tagged Text (Optional)
Select whether the text should contain tags or not.
Ingest CVEs As
Vulnerabilities
Select which ThreatQ entity type to ingest CVE values as.

Recorded Future Alerts Parameters

PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Triggered	A string to search for events from a specific date (**YYYY-MM-DD** or **YYYY-MM** or **YYYY**).
Review Status	A string to search for events by status (Unassigned, Assigned, No Action and Tuning). If no specific status is selected, all event statuses are returned by the provider.
Freetext Search	A string to search for events by any value.
Ingest CVE Data as	Select whether to ingest CVEs as: Vulnerabilities or Indicators (type: CVE).
Ingested Hash Types	Select the type of hashes to be ingested into ThreatQ. Options include ○ MD5 ○ SHA-1 ○ SHA-256
Ingest Indicator Hits	Select which indicator hits to ingest into ThreatQ. All ingested indicators will receive a status of 'Review' since hits are not always indicators of compromise. They may be your organization's domains found on the dark web, newly registered organization domains, or other non-malicious indicators. Options include: ○ URLs ○ Domains ○ IP Addresses ○ Filenames
Ingest Emails as Compromised Accounts for These Rules	Enter a line-separated list of rule names (or IDs) that will be used to determine if an email address should be ingested as a Compromised Account object or Identity object. Recorded Future creates alerts for entities that have triggered a rule. These entities may be of different types such as: IP addresses, URLs, email

PARAMETER	DESCRIPTION
	addresses, etc. This parameter allows you to determine if an email address is a compromised Account when Recorded Future creates an alert for it.
Ingest Images as Files Related to Alerts	Enable this option to download and ingest images into the ThreatQ platform as related Files.
Ingest and Relate "triggered_by" Entities to Alerts	Enable this option to ingest "triggered_by" entities related objects.
Enable SSL Verification	Enable this 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.


Recorded Future Alerts
Disabled
Enabled
Run Integration
Uninstall
Additional Information
Integration Type: Feed
Version:
Configuration
Activity Log
API Key
Triggered
Get events from a specific date (YYYY-MM-DD or YYYY-MM or YYYY) (Optional)
Review Status
Review Status (Optional)
Freetext Search
Freetext search for events by any value (Optional)
Ingest CVEs As
Indicators (Type: CVE)
Select which ThreatQ entity type to ingest CVE values as.
Ingested Hash Types
The hash types to be ingested into ThreatQ.
MD5
SHA-1
SHA-256
Ingest Indicator Hits
Select which indicator hits to ingest into ThreatQ. All ingested indicators will receive a status of 'Review' since hits are not always indicators of compromise. They may be your organization's domains found on the dark web, newly registered organization domains, or other non-malicious indicators.
URLs
Domains
IP Addresses
Filenames

Recorded Future Playbook Alerts Parameters

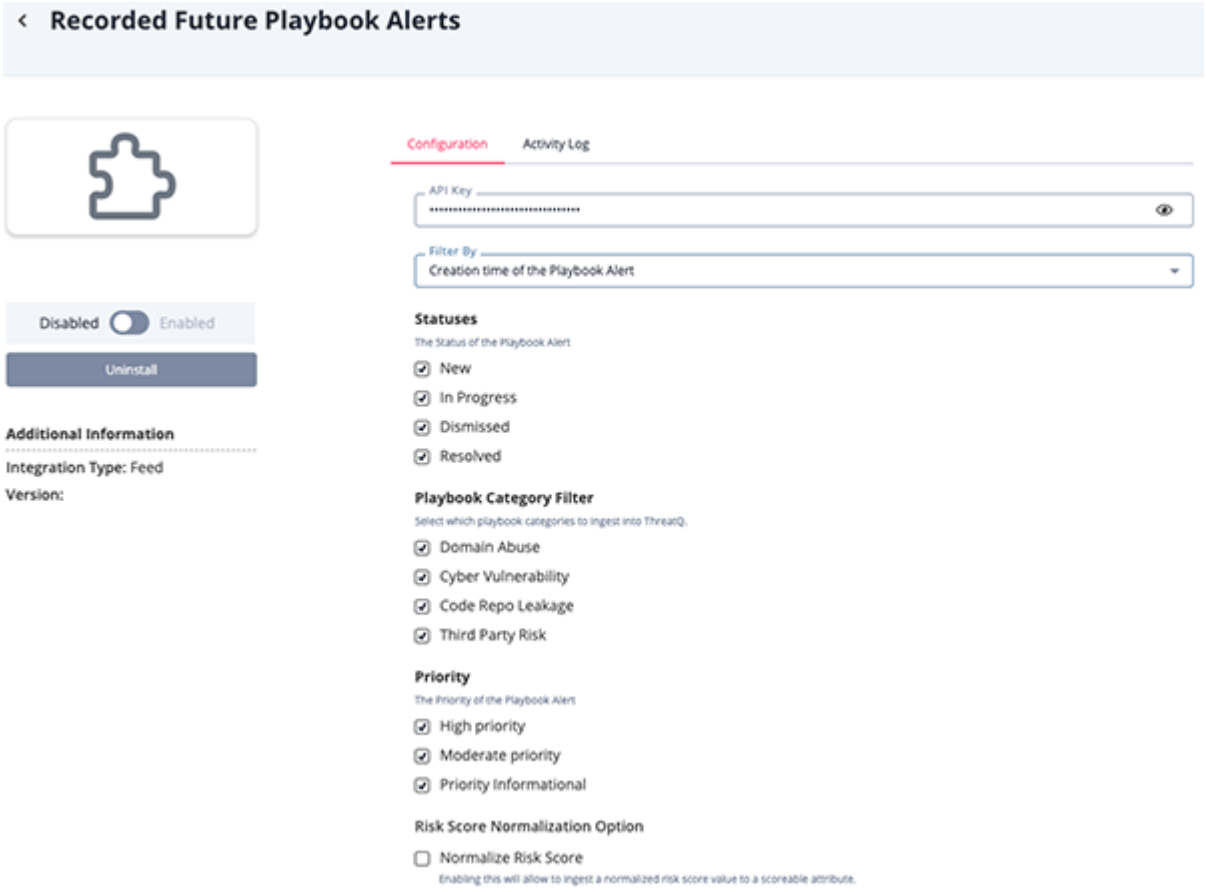
PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Filter By	The date that will be used for filtering the alerts: `Creation` or `Update` time of the Playbook Alert.
Statuses	The Status of the Playbook Alert. Options include: ○ New ○ In Progress ○ Dismissed ○ Resolved
Playbook Category Filter	Select which playbook categories to ingest. Options include: ○ Domain Abuse (default) ○ Cyber Vulnerability (default) ○ Code Repo Leakage (default) ○ Third Party Risk (default)
Priority	The Priority of the Playbook Alert. Options include: ○ High Priority ○ Moderate Priority ○ Priority Informational
Normalize Risk Score	Enable this parameter ingest a normalized risk score value as a scorable attribute.

Risk Score Normalization Mapping	Mapping used to normalize the numeric risk score values to the scorable attribute, `Normalized Risk`. The Risk Score itself will always be ingested. This mapping should contain a line-separated CSV formatted string with the following columns: **Minimum**, **Maximum**, and **Normalized Value**.
	
	Default Values
	
	`0,25,Low`
	`26,50,Medium`

PARAMETER	DESCRIPTION

	`51,75,High`
	`76,100,Critical`
	
	This parameter is only accessible if you have enabled the **Normalize Risk Score** parameter.

Ingest Target Attributes	Enable this parameter to ingest Targets as event attributes and related indicator attributes. This parameter is enabled by default.
Ingest CVEs as	Select whether to ingest CVEs as: Vulnerabilities or Indicators (type: CVE).
Enable SSL Verification	Enable this 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.


Recorded Future Playbook Alerts
Disabled
Enabled
Uninstall
Additional Information
Integration Type: Feed
Version:
Configuration
Activity Log
API Key
Filter By
Creation time of the Playbook Alert
Statuses
The Status of the Playbook Alert
New
In Progress
Dismissed
Resolved
Playbook Category Filter
Select which playbook categories to ingest into ThreatQ.
Domain Abuse
Cyber Vulnerability
Code Repo Leakage
Third Party Risk
Priority
The Priority of the Playbook Alert
High priority
Moderate priority
Priority Informational
Risk Score Normalization Option
Normalize Risk Score
Enabling this will allow to ingest a normalized risk score value to a scoreable attribute.

Recorded Future Fusion Files Parameters

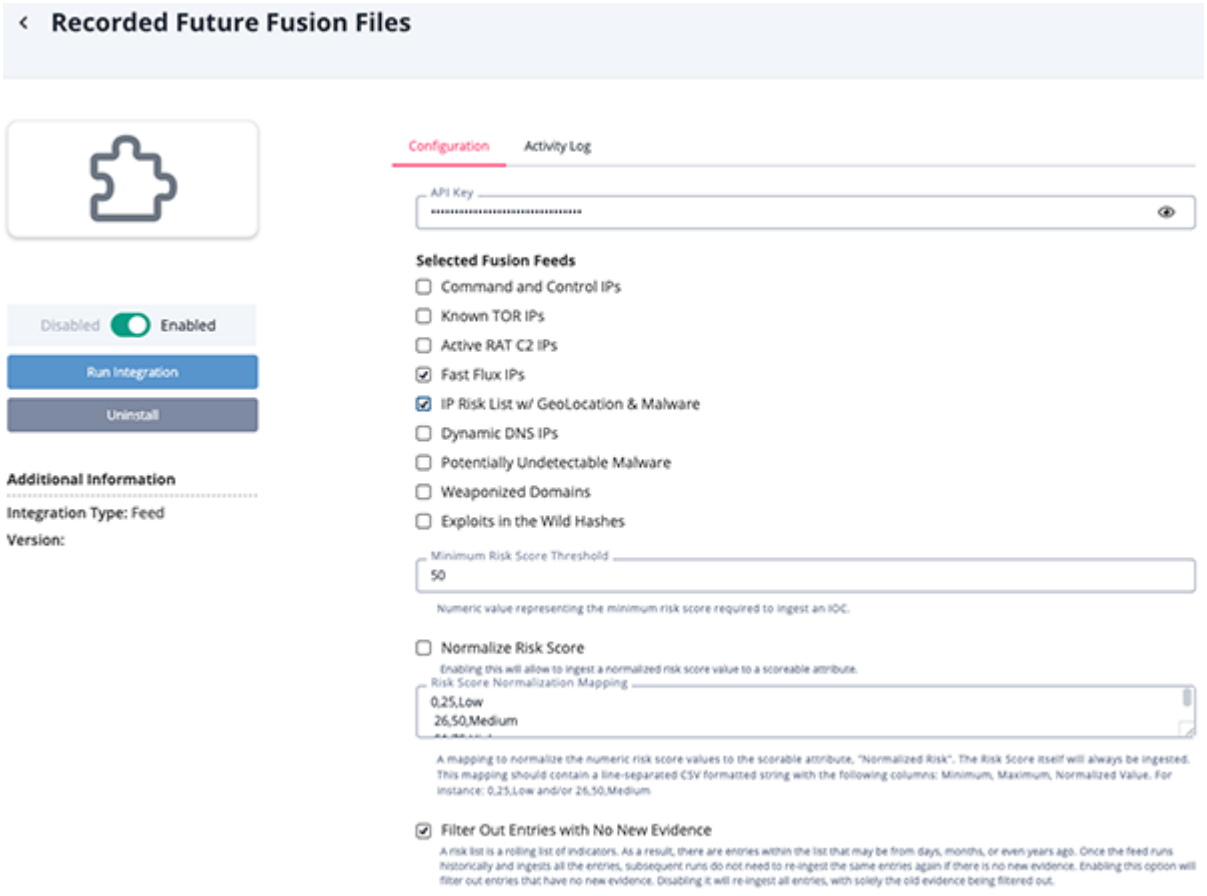
PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
Selected Fusion Feeds	Select the Fusion Files to be retrieved. Options include: ○ Command and Control IPs ○ Known TOR IPs ○ Active RAT C2 IPs ○ Fast Flux IPs ○ IP Risk List w/ Geolocation & Malware ○ Dynamic DNS IPs ○ Potentially Undetectable Malware ○ Weaponized Domains ○ Exploits in the Wild Hashes
Minimum Risk Score Threshold	The numeric value representing the minimum risk score required to ingest an IOC. The default setting is 50. This parameter is only accessible if you have enabled the `IP Risk List w/ Geolocation & Malware` option is selected for the **Selected Fusion Feeds** parameter.
Normalize Risk Score	Enable this parameter ingest a normalized risk score value as a scorable attribute. This parameter is only accessible if you have enabled the `IP Risk List w/ Geolocation & Malware` option is selected for the **Selected Fusion Feeds** parameter.
Risk Score Normalization Mapping	Mapping used to normalize the numeric risk score values to the scorable attribute, `Normalized Risk`. The Risk Score itself will always be ingested. This mapping should contain a line-separated CSV formatted string with the following columns: **Minimum**, **Maximum**, and **Normalized Value**. **Default Values**

PARAMETER	DESCRIPTION

	`0,25,Low`
	`26,50,Medium`
	`51,75,High`
	`76,100,Critical`
	
	This parameter is only accessible if you have enabled the `IP Risk List w/ Geolocation & Malware` option is selected for the **Selected Fusion Feeds** parameter.

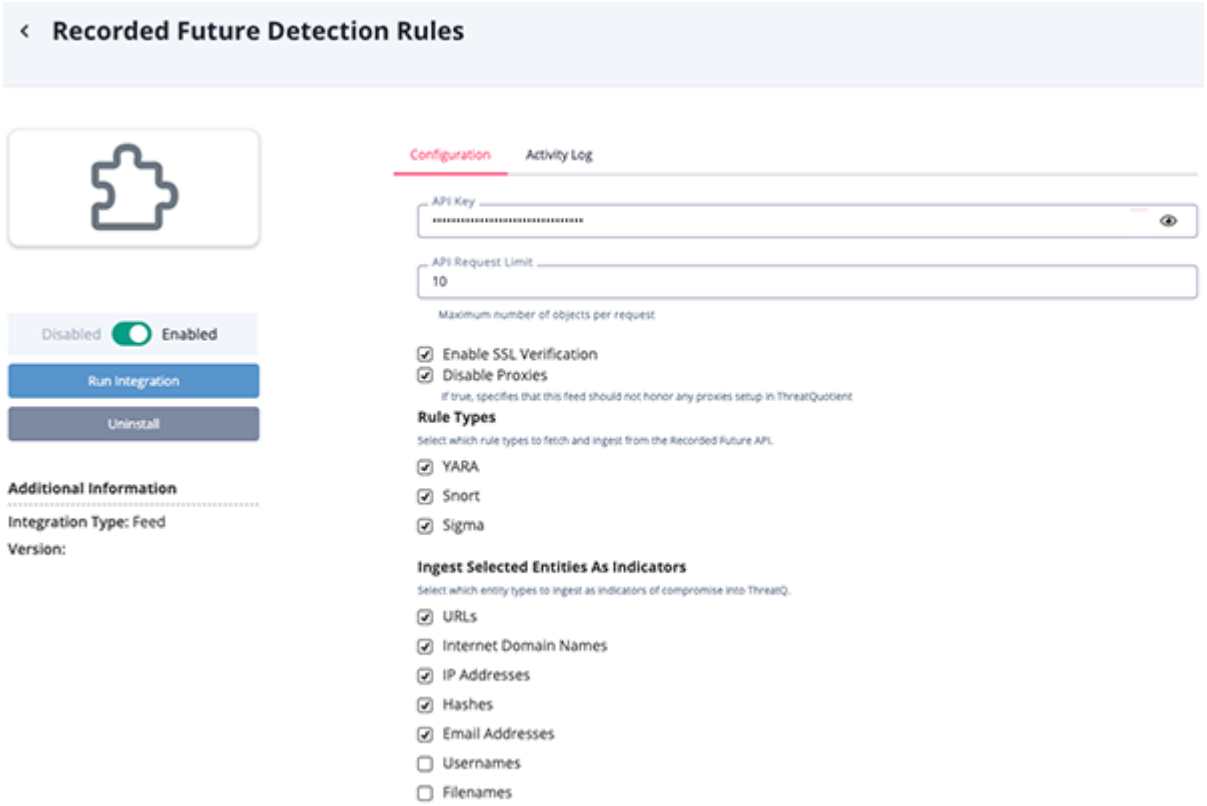
Filter Out Entries with No New Evidence	Enabling this option will filter out entries that have no new evidence. A risk list is a rolling list of indicators. As a result, there are entries within the list that may be from days, months, or even years ago. Once the feed runs historically and ingests all the entries, subsequent runs do not need to re-ingest the same entries again if there is no new evidence. Disabling it will re-ingest all entries, with solely the old evidence being filtered out. This parameter is enabled by default.
Ingest Related Malware	Enabling this will ingest Malware related to indicators in the feeds. It is important to note that over time, this may create a large number of relationships between indicators and malware.
Ingest Related CVEs	Optional - Enabling this will ingest CVEs related to indicators in the feeds. This parameter only applies to the `Exploits in the Wild` feed and is disabled by default due to the large number of CVE relationships that may be created when enabled. Exercise caution when enabled this parameter.
Ingest CVEs As	Select whether to ingest CVEs as Vulnerabilities (default) or Indicators. This parameter is only accessible if you have enabled the **Ingest Related CVEs** parameter selected.

PARAMETER	DESCRIPTION
Enable SSL Verification	Enable this 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.



Recorded Future Detection Rules Parameters

PARAMETER	DESCRIPTION
API Key	Your API Key to be used in HTTP headers for accessing feed data.
API Request Limit	Enter the maximum number of objects per request. This will be used in the pagination.
Enable SSL Verification	Enable this 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.
Rule Types	Select which rule types to fetch and ingest from the Recorded Future API. Options include: ○ YARA (default) ○ Snort (default) ○ Sigma
Ingest Selected Entities as Indicators	Select which entity types to ingest as indicators of compromise into ThreatQ. Options include: ○ URLs ○ Internet Domain Names ○ IP Addresses ○ Hashes ○ Email Addresses ○ Usernames ○ Filenames
Ingested Hash Types	Select the hash types to ingest. Options include: ○ MD5 ○ SHA-1 ○ SHA-256
Ingest CVEs as	Select whether to ingest CVEs as: Vulnerabilities or Indicators (type: CVE).



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

Recorded Future Domain Risk List

The Recorded Future Domain Risk List feed ingests data from the Recorded Future Default Domain Risk List in form of a CSV list. The first token is the actual risk data (domain), and the last token (EvidenceDetails) contains supporting context. This token is a JSON-formatted string of an array of dictionaries.

```
GET https://api.recordedfuture.com/v2/domain/risklist
```

Sample Response:

```
'ns513726.ip-192-99-148.net', '92', '3/32',
'{"EvidenceDetails":
    [
        {
            "CriticalityLabel": "Unusual",
            "Rule": "Historical Malware Analysis DNS Name",
            "EvidenceString": "6 sightings on 1 source: VirusTotal...",
            "Timestamp": "2015-04-04T00:00:00.000Z",
            "Criticality": 1
        },
        {
            "CriticalityLabel": "Suspicious",
            "Rule": "Blacklisted DNS Name",
            "EvidenceString": "1 sighting on 1 source: DShield: Suspicious
Domain List.",
            "Timestamp": "2018-12-26T07:12:00.936Z",
            "Criticality": 2
        },
        {
            "CriticalityLabel": "Very Malicious",
            "Rule": "C&C DNS Name",
            "EvidenceString": "1 sighting on 1 source: Abuse.ch: ZeuS Domain
Blocklist (Standard).",
            "Timestamp": "2018-12-26T07:12:00.936Z",
            "Criticality": 4
        }
    ]
}'
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	FQDN	N/A	ns513726.ip-192-99-148.net	N/A
1 (second token)	Indicator.Attribute	Risk Score	N/A	66	Updatable
1 (second token)	Indicator.Attribute	Normalized Risk	N/A	High	Mapped using `Risk Score Normalization Mapping` user field; Updatable
2 (third token)	Indicator.Attribute	Risk String	N/A	2/32	Updatable
3 (fourth token) []CriticalityLabel	Indicator.Attribute	Criticality	3 (fourth token) []Timestamp	Suspicious	Updatable. The highest criticality level is selected.
3 (fourth token) []Rule	Indicator.Attribute	Associated Rule	3 (fourth token) []Timestamp	Blacklisted DNS Name	N/A
3 (fourth token) []EvidenceString	Indicator.Attribute	Evidence	3 (fourth token) []Timestamp	1 sighting on 1 source: Abuse.ch: ZeuS Domain Blocklist (Standard).	N/A

Recorded Future IP Risk List

The Recoded Future IP Risk List feed ingests Recorded Future Default IP risk list. IP addresses are ingested as indicators.

```
GET https://api.recordedfuture.com/v2/ip/risklist
```

Sample CSV Response:

```
'5.120.187.119", '65', '1/49',
'{"EvidenceDetails":
    [
        {
            "CriticalityLabel": "Malicious",
            "Rule": "Recent Positive Malware Verdict",
            "EvidenceString": "1 sighting on 1 source: ReversingLabs....",
            "Timestamp": "2018-11-22T00:00:00.000Z",
            "Criticality": 3
        }
    ]
}'
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	IP Address	N/A	5.120.187.119	N/A
1 (second token)	Indicator.Attribute	Risk Score	N/A	65	Updatable
1 (second token)	Indicator.Attribute	Normalized Risk	N/A	High	Mapped using `Risk Score Normalization Mapping` user field; Updatable
2 (third token)	Indicator.Attribute	Risk String	N/A	1/49	Updatable
3 (fourth token) [].CriticalityLabel	Indicator.Attribute	Criticality	3 (fourth token) [].Timestamp	Malicious	Updatable. The highest criticality level is selected.
3 (fourth token) [].Rule	Indicator.Attribute	Associated Rule	3 (fourth token) [].Timestamp	Recent Positive Malware Verdict	N/A
3 (fourth token) [].EvidenceString	Indicator.Attribute	Evidence	3 (fourth token) [].Timestamp	1 sighting on 1 source: ReversingLabs.	N/A

Recorded Future URL Risk List

The Recorded Future URL Risk List feed ingests Recorded Future Default URL risk list. URLs are ingested as indicators.

```
GET https://api.recordedfuture.com/v2/url/risklist
```

Sample CSV Response:

```
'http://handle.booktobi.com/css/index.html', '65', '1/7',
'{"EvidenceDetails":
    [
        {
            "CriticalityLabel": "Malicious",
            "Rule": "Active Phishing URL",
            "EvidenceString": "1 sighting on 1 source: PhishTank: Phishing
Reports.",
            "Timestamp": "2018-12-26T16:15:44.750Z",
            "Criticality": 3
        }
    ]
}'
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	URL	N/A	http://handle.booktobi.com/css/index.html	N/A
1 (second token)	Indicator.Attribute	Risk Score	N/A	65	Updatable
1 (second token)	Indicator.Attribute	Normalized Risk	N/A	High	Mapped using `Risk Score Normalization Mapping` user field; Updatable
2 (third token)	Indicator.Attribute	Risk String	N/A	1/7	Updatable
3 (fourth token) []CriticalityLabel	Indicator.Attribute	Criticality	3 (fourth token) []Timestamp	Malicious	Updatable - the highest criticality level is selected.
3 (fourth token) []Rule	Indicator.Attribute	Associated Rule	3 (fourth token) []Timestamp	Active Phishing URL	N/A
3 (fourth token) []EvidenceString	Indicator.Attribute	Evidence	3 (fourth token) []Timestamp	1 sighting on 1 source: PhishTank: Phishing Reports.	N/A

Recorded Future Vulnerability Risk List

The Recorded Future Vulnerability Risk List feed ingests Recorded Future Default Vulnerability risk list. CVEs are ingested as indicators or as vulnerabilities depending on user configuration.

```
GET https://api.recordedfuture.com/v2/vulnerability/risklist
```

Sample CSV Response:

```
'CVE-2018-0802', '89', '11/18',
'{"EvidenceDetails":
    [
        {
            "CriticalityLabel": "Low",
            "Rule": "Linked to Historical Cyber Exploit",
            "EvidenceString": "4281 sightings on 351 sources including: ...",
            "Timestamp": "2018-11-14T22:31:30.000Z",
            "Criticality": 1
        },
        {
            "CriticalityLabel": "Low",
            "Rule": "Historically Linked to Penetration Testing Tools",
            "EvidenceString": "1 sighting on 1 source: @DTechCloud....",
            "Timestamp": "2018-05-07T20:31:29.000Z", "Criticality": 1
        },
    ]
}'
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value/ Vulnerability.Value	CVE/N/A	N/A	CVE-2018-0802	N/A
1 (second token)	Indicator.Attribute/ Vulnerability.Attribute	Risk Score	N/A	89	Updatable
1 (second token)	Indicator.Attribute	Normalized Risk	N/A	High	Mapped using `Risk Score Normalization Mapping` user field; Updatable
2 (third token)	Indicator.Attribute/ Vulnerability.Attribute	Risk String	N/A	11/18	Updatable
3 (fourth token) [].CriticalityLabel	Indicator.Attribute/ Vulnerability.Attribute	Criticality	3 (fourth token) [].Timestamp	Low	Updatable. The highest criticality level is selected.
3 (fourth token) [].Rule	Indicator.Attribute/ Vulnerability.Attribute	Associated Rule	3 (fourth token) [].TimeStamp	Linked to Historical Cyber Exploit	N/A
3 (fourth token) [].EvidenceString	Indicator.Attribute/ Vulnerability.Attribute	Evidence	3 (fourth token) [].Timestamp	1 sighting on 1 source: @DTechCloud....	N/A

Recorded Future Hash Risk List

The Recorded Future Hash Risk List feed ingests Recorded Future Default Hash risk list. Hashes are ingested as indicators.

```
GET https://api.recordedfuture.com/v2/hash/risklist
```

Sample CSV Response:

```
'ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa', 'SHA-256',
'89', '4/10',
'{"EvidenceDetails":
    [
        {
            "CriticalityLabel": "Unusual",
            "Rule": "Threat Researcher",
            "EvidenceString": "21 sightings on 9 sources including: ...",
            "Timestamp": "2018-01-28T11:24:35.942Z",
            "Criticality": 1.0
        },
        {
            "CriticalityLabel": "Suspicious",
            "Rule": "Linked to Vulnerability",
            "EvidenceString": "5 sightings on 2 sources: ...",
            "Timestamp": "2017-08-08T14:10:11.410Z",
            "Criticality": 2
        },
        {
            "CriticalityLabel": "Suspicious",
            "Rule": "Linked to Malware",
            "EvidenceString": "Previous sightings on 36 sources
including: ...",
            "Timestamp": "2017-05-12T15:39:30.000Z",
            "Criticality": 2
        },
    ]
}'
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	1 (second token)	N/A	00d48afbba5ef9eadb572730b2d0cafa	N/A
2 (third token)	Indicator.Attribute	Risk Score	N/A	89	Updatable
2 (third token)	Indicator.Attribute	Normalized Risk	N/A	High	Mapped using `Risk Score Normalization Mapping` user field; Updatable
3 (fourth token)	Indicator.Attribute	Risk String	N/A	4/10	Updatable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
4 (fifth token) []. CriticalityLabel	Indicator.Attribute	Criticality	4 (fifth token) []. Timestamp	Suspicious	Updatable. The highest criticality level is selected.
4 (fifth token) []. Rule	Indicator.Attribute	Associated Rule	4 (fifth token) []. Timestamp	Linked to Malware	N/A
4 (fifth token) []. EvidenceString	Indicator.Attribute	Evidence	4 (fifth token) []. Timestamp	Previous sightings on 36 sources including: ...	N/A

Recorded Future Analyst Note

The Recorded Future Analyst Note feed gets Reports, Indicators and Attack Patterns.

`GET https://api.recordedfuture.com/v2/analystnote/search`

Sample Response:


```
{
    "data": {
        "results": [
            {
                "source": {
                    "id": "VKz42X",
                    "name": "Insikt Group",
                    "type": "Source"
                },
                "attributes": {
                    "validated_on": "2020-02-06T06:59:32.784Z",
                    "published": "2020-02-06T06:59:32.784Z",
                    "text": "some text",
                    "topic": [
                        {
                            "id": "TXSFt0",
                            "name": "Flash Report",
                            "type": "Topic"
                        }
                    ],
                    "title": "Mailto Ransomware Targets Enterprise Networks",
                    "note_entities": [
                        {
                            "id": "bLfMiL",
                            "name": "Mailto Ransomware",
                            "type": "Malware"
                        }
                    ],
                    "context_entities": [
                        {
                            "id": "J6UzbO",
                            "name": "Bleeping Computer",
                            "type": "Source"
                        }
                    ],
                    "validation_urls": [
                        {
                            "id": "url:url:https://www.bleepingcomputer.com/
news/security/mailto-netwalker-ransomware-targets-enterprise-networks/",
                            "name": "url:https://www.bleepingcomputer.com/news/
security/mailto-netwalker-ransomware-targets-enterprise-networks/",
                            "type": "URL"
```

```
                        },
                        {
                            "id": "url:url:https://twitter.com/VK_Intel/status/
1225086186445733889?s=20",
                            "name": "url:https://twitter.com/VK_Intel/status/
1225086186445733889?s=20",
                            "type": "URL"
                        }
                    ]
                },
                "id": "cu1WGK"
            }
        ]
    },
    "counts": {
        "returned": 10,
        "total": 19216
    }
}
```


ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.data.results[].attributes.title	Report.Name	Report	"Mailto Ransomware Targets Enterprise Networks"	N/A
.data.results[].attributes.published	Report.Published_at	N/A	"2020-02-06T06:59:32.784Z"	This date will also be used for related indicators and attack patterns.
.data.results[].attributes.text	Report.Description	Description	"text"	N/A
.data.results[].source.name	Report.Attribute	Recorded Future Source	"Insikt Group"	N/A
.data.results[].attributes.topic[].name	Report.Attribute	Topic Name	"Flash Report"	N/A
.data.results[].id	Report.Attribute	Recorded Future URL	"https://app.recordedfuture.com/portal/research/analyst/doc:cu1WGK"	Link formatted using `.id`
.data.results[].attributes.topic[].name	Report.Tag	N/A Name	"Informational"	N/A
.data.results[].attributes.context_entities	N/A	N/A	N/A	*See entities mapping.
.data.results[].attributes.note_entities	N/A	N/A	N/A	*See entities mapping.

Entities Mapping

This mapping will be used to map both values from `context_entities` and `note_entities`. The data sample and mapping are below:

Sample Response:

```
{
    "context_entities": [
        {
            "id": "J6UzbO",
            "name": "Bleeping Computer",
            "type": "Source",
            "description": "some description"
        }
    ]
}
```

```
 indicator_type_map:
    InternetDomainName: FQDN
    URL: URL
    IpAddress: IP Address
    EmailAddress: Email Address
    FileName: Filename
    Username: Username
    Hash: MD5, SHA-1, SHA-256
    CyberVulnerability: CVE
```

The integration will filter based by type. If the value of the `type` key is contained in the indicator_type_map below or is equal to `Hash`, an indicator will be ingested (the published_at date will be the same as for the report object). If the `type` key is equal to `Malware`, an object of type Malware type will be ingested. If the `type` key is equal to `MitreAttackIdentifier`, an object of Attack Pattern type will be ingested. Else, attributes will be created for the main `report` object.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.name	Report.Attribute/ Indicator.Attribute	.type	N/A	*See `Event Attributes Mapping` below. If `type` is `Product` and there are related vulnerabilities, change the `Product` attribute key to `Affected Product`
.text	Report.Attribute	.description	N/A	N/A
.name	Indicator.Value	.type	`98.123.54.12`	IOC is enabled `Ingest Selected Primary Entities as Indicators` or `Ingest Selected Supporting Entities as Indicators`
.type	Indicator.Type	.name	Ip Address	The value for this will be `indicator_type_map[.type]` if it exists there. If the value is `Hash`, the value length will be analysed and based on it it will be either `MD5`, `SHA-1`, or `SHA-256`.
.name	Adversary.Value	N/A	N/A	If `.type` is `Organization`

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.name	Adversary.Attribute	Category	"Bleeping Computer"	If `.type` is `CyberThreatActorCategory`
.name	Identity.Value	N/A	`john.doe@acme.com`	We ingest the Email Address as a Identity from "supporting" entities
.name	Attack Pattern.Value	N/A	`T1023 - MITRE Technique Name`	If `type` is equal to `MitreAttackIdentifier`
.name	Malware.Value	N/A	`Mailto Ransomware`	If `.type` is equal to `Malware`
.name	Malware.Attribute	Category	N/A	If `.type` id equal to `MalwareCategory`
.name	Vulnerability.Value	N/A	N/A	If the `.type` is equal to `CyberVulnerability`
.name	Vulnerability.Attribute/ Indicator.Attribute	Affected Product	`Citrix`	Object type is based on `Ingest CVEs As` selection

Context (i.e. Malware, Adversaries, Attributes, and Attack Patterns) from the "primary" entities list will now be applied to the indicators of compromise from the "primary" entities list.

Recorded Future Alerts

The Recorded Future Alerts feed ingests Recorded Future alerts as ThreatQ Events and all the related Indicators, Malware, Adversaries, Attack Patterns and Vulnerabilities.

```
GET https://api.recordedfuture.com/v3/alert/
```

Sample Response:


```
{
  "data": [
    {
      "review": {
        "note": null,
        "status_in_portal": "New",
        "assignee": null,
        "status": "no-action"
      },
      "owner_organisation_details": {
        "organisations": [
          {
            "organisation_id": "uhash:ER135KQ6oL",
            "organisation_name": "ThreatQ - Partner"
          }
        ],
        "enterprise_id": "uhash:DimzHe41vx",
        "enterprise_name": "ThreatQ - Partner"
      },
      "url": {
        "api": "https://api.recordedfuture.com/v3/alerts/rj540x",
        "portal": "https://app.recordedfuture.com/live/sc/notification/?id=rj540x"
      },
      "rule": {
        "name": "Cyber Espionage, Related Vulnerabilities",
        "id": "nt4XZZ",
        "url": {
          "portal": "https://app.recordedfuture.com/live/sc/
ViewIdkobra_view_report_item_alert_editor?
view_opts=%7B%22reportId%22%3A%22nt4XZZ%22%2C%22bTitle%22%3Atrue%2C%22title%22%3A%22Cyber+Espionage
%2C+Related+Vulnerabilities%22%7D"
        }
      },
      "id": "rj540x",
      "hits": [
        {
          "entities": [
            {
              "id": "B_HE4",
              "name": "Google",
              "type": "Company"
            },
            {
              "id": "idn:reuters.com",
              "name": "reuters.com",
              "type": "InternetDomainName"
            },
            {
              "id": "Xw2PY",
              "name": "Frankfurt",
              "type": "Airport"
            },
            {
```

```
              "id": "rVnb7k",
              "name": "Rhysida",
              "type": "Malware"
            },
            {
              "id": "J0Nl-p",
              "name": "Ransomware",
              "type": "MalwareCategory"
            },
            {
              "id": "K_4o-y",
              "name": "Anonymous Sudan",
              "type": "Organization"
            },
            {
              "id": "I_7J4G",
              "name": "Hacktivist",
              "type": "CyberThreatActorCategory"
            },
            {
              "id": "mitre:T1048",
              "name": "T1048",
              "type": "MitreAttackIdentifier"
            },
            {
              "id": "email:mary.silverstein@delta.com",
              "name": "mary.silverstein@delta.com",
              "type": "EmailAddress"
            },
            {
              "id": "jc5TL-",
              "name": "ProxyShell",
              "type": "CyberVulnerability",
              "description": "ProxyShell and Log4J Vulnerabilities Were the Most Exploited Flaws in
2021."
            }
          ],
          "document": {
            "source": {
              "id": "source:hPTFPY",
              "name": "RedAlert | Blog",
              "type": "Source"
            },
            "title": "2022 Activities Summary of SectorA groups (ENG)",
            "url": "https://redalert.nshc.net/2023/06/08/2022-activities-summary-of-sectora-groups-
eng/",
            "authors": []
          },
          "fragment": "In this operation, the group targeted engineering companies in the <e
id=0qjp>energy</e> and military sectors and damaged their systems by <i id=HE-xwAAZh-v>exploiting
the <e id=kvXvR5>Log4Shell</e></i> vulnerability with an initial infiltration method.",
          "id": "HE-xwAAZh-v",
          "language": "eng",
          "primary_entity": {
            "id": "kvXvR5",
            "name": "CVE-2021-44228",
            "type": "CyberVulnerability",
            "description": "Apache Log4j2 2.0-beta9 through 2.15.0 (excluding security releases
2.12.2, 2.12.3, and 2.3.1) JNDI features used in configuration, log messages, and parameters do not
protect against attacker controlled LDAP and other JNDI related endpoints. An attacker who can
control log messages or log message parameters can execute arbitrary code loaded from LDAP servers
when message lookup substitution is enabled. From log4j 2.15.0, this behavior has been disabled by
default. From version 2.16.0 (along with 2.12.2, 2.12.3, and 2.3.1), this functionality has been
completely removed. Note that this vulnerability is specific to log4j-core and does not affect
```

```
log4net, log4cxx, or other Apache Logging Services projects."
          },
          "analyst_note": null
        }
      ],
      "ai_insights": {
        "comment": "The Recorded Future AI requires more references in order to produce a summary.",
        "text": null
      },
      "log": {
        "note_author": null,
        "note_date": null,
        "status_date": null,
        "triggered": "2023-06-08T04:53:13.444Z",
        "status_change_by": null
      },
      "title": "Cyber Espionage, Related Vulnerabilities - Rise: CVE-2021-44228",
      "type": "ENTITY"
    }
  ],
  "counts": {
    "returned": 10,
    "total": 2653
  }
}
```


ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].title	Event.Title	N/A	.data[].log.note_date / .data[].log.triggered	Cyber Espionage, Related Vulnerabilities - Rise: CVE-2021-44228	If `.data[].log.note_date` is not present `.data[].log.triggered` is used as `Published Date`
.data[].log.triggered	Event.Happened_at	N/A	N/A	2023-06-08T04:53:13.444Z	N/A
.data[].ai_insights.text	Event.Description	N/A	N/A	N/A	N/A
.data[].ai_insights.comment	Event.Description	N/A	N/A	The Recorded Future AI requires more references in order to produce a summary.	N/A
.data[].review.assignee	Event.Attribute	Assignee	.data[].log.note_date / .data[].log.triggered	N/A	Updatable
.data[].log.note_author	Event.Attribute	Note Author	.data[].log.note_date / .data[].log.triggered	N/A	N/A
.data[].review.status_in_portal	Event.Attribute	Alert Status	.data[].log.note_date / .data[].log.triggered	no-action	Updatable
.data[].rule.name	Event.Attribute	Triggered Rule Name	.data[].log.note_date / .data[].log.triggered	Cyber Espionage, Related Vulnerabilities	N/A
.data[].type	Event.Attribute	Alert Type	.data[].log.note_date / .data[].log.triggered	ENTITY	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].owner_organisation_details.enterprise_name	Event.Attribute	Organisation Enterprise name	.data[].log.note_date / .data[].log.triggered	ThreatQ - Partner	N/A
.data[].hits[].document.url	Event.Attribute	URL	N/A	https://www.virustotal.com/84387248326473645	Ingested as attribute if 'www.virustotal.com' in .url
.data[].hits[].entities[].name	Event.Tags	N/A	N/A	ddosattacks	If `data.hits[].entities[].type` is `Hashtag`. Character # is removed.
.data[].hits[].entities[].name	Indicator.Value	data.hits[].entities[].type	N/A	N/A	See `Related Indicator Type Mapping` table below.
.data[].hits[].entities[].name	Event.Attribute	data.hits[].entities[].type	N/A	N/A	See `Event Attributes Mapping` table below.
.data[].hits[].entities[].name	Related.Malware.Value	N/A	N/A	Rhysida	If `data.hits[].entities[].type` is `Malware`
.data[].hits[].entities[].name	Related.Malware.Attribute	Malware Category	N/A	Ransomware	If `data.hits[].entities[].type` is `MalwareCategory`
.data[].hits[].entities[].name	Event.Attribute	Malware Category	N/A	Ransomware	If `data.hits[].entities[].type` is `MalwareCategory`
.data[].hits[].entities[].name	Event.Attribute	Organization	N/A	Anonymous Sudan	If `data.hits[].entities[].type` is `Organization` and it is not an Adversary
.data[].hits[].entities[].name	Related.Adversary.Value	N/A	N/A	Anonymous Sudan	If `data.hits[].entities[].type` is `Organization`
.data[].hits[].entities[].type	Related.Adversary.Attribute	Type	N/A	Organization	If `data.hits[].entities[].type` is `Organization`
.data[].hits[].entities[].name	Related.Adversary.Tags	N/A	N/A	Hacktivist	If `data.hits[].entities[].type` is `CyberThreatActorCategory`

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].hits[].entities[].name	Event.Attribute	Cyber Threat Actor Category	N/A	Hacktivist	If `data.hits[].entities[].type` is `CyberThreatActorCategory`
.data[].hits[].entities[].name	Related.Attack Patten.Value	N/A	N/A	T1048	If `data.hits[].entities[].type` is `MitreAttackIdentifier`
.data[].hits[].entities[].name	Related.Vulnerability.Value	N/A	N/A	ProxyShell	If `data.hits[].entities[].type` is `CyberVulnerability` or user config `Save CVE Data` as contains `Vulnerabilities`
.data[].hits[].entities[].name	Related.Identity.Value	N/A	N/A	john.doe@acme.com	If `data.hits[].entities[].type` is `EmailAddress`
.data[].hits[].entities[].name	Related.Account.Value	N/A	N/A	john.doe@acme.com	If `data.hits[].entities[].type` is `EmailAddress` && Compromised Account Rule is configured & matched
.data[].hits[].entities[].name	Related.File	N/A	N/A	"Recorded_future_e2cd9495-937b-40a4-b5d7-f0fe89184040"	The ID is used to download the image in a supplemental call, if `data.hits[].entities[].type` is `Image`. User-configurable.
.data[].triggered_by[].entity_paths[].entity.name	Related.Entity.Title	N/A	N/A	s.grishin@delta.nl	User-configurable.
.data[].triggered_by[].entity_paths[].entity.type	Entity.Attribute	RF Type	N/A	EmailAddress	N/A
.data[].triggered_by[].entity_paths[].entity.id	Entity.Attribute	Entity ID	N/A	email:s.grishin@delta.nl	N/A
.data[].triggered_by[].entity_paths[].attribute.id	Entity.Attribute	RF_ID	N/A	CredentialLeak.targets	N/A

In the previous table, there is a Related Indicator that is set dynamically. This is because the ThreatQ Object Type is extracted from the same path `.data.hits[].entities[].type` if the `.data.hits[].entities[].type` is one from the Related Indicator Type Mapping table listed below.

Related Indicator Type Mapping

RECORDED FUTURE INDICATOR TYPE	THREATQ INDICATOR TYPE	NOTES
Hash	MD5	If the length of the hash value is 32 characters.
Hash	SHA-1	If the length of the hash value is 40 characters.
Hash	SHA-256	If the length of the hash value is 64 characters.
CyberVulnerability	CVE	If '.data.hits[].entities[].name' contains 'CVE' and user config `Save CVE Data` as contains `Indicators.`

Event Attributes Mapping

In the previous table, **Related Indicator Type Mapping**, there is a **Related Indicator Attribute** that is set dynamically. We do this because the `Attribute Key` is extracted from the same path `.data.hits[].entities[].type` if the `.data.hits[].entities[].type` is one from the table listed below.

RECORDED FUTURE ATTRIBUTE TYPE	THREATQ ATTRIBUTE KEY
AttackVector	Attack Vector
Product	Affected Product
Company	Company
City	City
Country	Country
Facility	Facility
FileNameExtension	File Extension
FileType	File Type
GeoEntity	Geo Entity
Industry	Industry
IndustryTerm	Industry Term
Logotype	Logotype
Operation	Operation
OrgEntity	Organization Entity

RECORDED FUTURE ATTRIBUTE TYPE	THREATQ ATTRIBUTE KEY
PhoneNumber	Phone Number
ProvinceOrState	State
Region	Region
Technology	Technology
Topic	Topic

Recorded Future Playbook Alerts

The Recorded Future Playbook Alerts feed retrieves a list of alerts filtered by the values provided in the configuration section. For each of the alerts, the `playbook_alert_id` is used to call the Recorded Future - Get Playbook Alerts by Category supplemental feed, to fetch the full alert context.

`POST https://api.recordedfuture.com/playbook-alert/search`

Sample Response:


```
{
    "status": {
        "status_code": "Ok",
        "status_message": "Playbook alert search successful"
    },
    "data": [
        {
            "playbook_alert_id": "task:2803c5f5-aa32-41ce-98c1-41a7771cd9ad",
            "created": "2022-11-08T09:44:02.447Z",
            "updated": "2022-11-08T09:44:06.584Z",
            "status": "New",
            "category": "domain_abuse",
            "priority": "Informational",
            "title": "juhaokan.ga",
            "owner_id": "uhash:ER135KQ6oL",
            "owner_name": "ThreatQ - Partner",
            "organisation_id": "uhash:DimzHe41vx",
            "organisation_name": "ThreatQ - Partner"
        }
    ]
}
```


ThreatQuotient provides the following default mapping for this feed:

> The mapping for this feed is based on the JSON response from the **Recorded Future - Get Playbook Alerts by Category supplemental feed**. Each mapping is based on an item within the data list within the JSON response.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.panel_status.case_rule_label, .panel_status.entity_name, .panel_status.priority, .panel_status.entity_criticality`	Event.Title	Recorded Future Alert	`.panel_status.created`	`Domain Abuse Alert: juhaokan.ga Priority: Informational Criticality: Medium`	ThreatQ uses the four values to create an unique title
`.panel_status.title`	Event.Title	Recorded Future Alert	`.panel_status.created`	`juhaokan.ga`	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.panel_evidence_summary.*`, `.panel_evidence_whois.*`	Event.Description	N/A	N/A	N/A	Description HTML is built based on available fields
`.panel_status.status`	Event.Attribute	Status	`.panel_status.created`	`New`	Updatable
`.panel_status.case_rule_label`	Event.Attribute	Category	`.panel_status.created`	`Domain Abuse`	Updatable
`.panel_status.priority`	Event.Attribute	Priority	`.panel_status.created`	`Informational`	Updatable
`.panel_status.owner_name`	Event.Attribute	Owner	`.panel_status.created`	`Acme Corp`	Updatable
`.panel_status.organisation_name`	Event.Attribute	Organization	`.panel_status.created`	`Acme Corp`	N/A
`.panel_status.assignee_name`	Event.Attribute	Assignee	`.panel_status.created`	`John Doe`	N/A
`.panel_status.lifecycle_stage`	Event.Attribute	Lifecycle Stage	`.panel_status.created`	`Disclosure`	Only available for Cyber Vulnerability Alerts
`.panel_status.entity_name`	Related.Indicator	FQDN	`.panel_status.created`	`jlonsdale.social`	N/A
`.panel_status.entity_name`	Related.Vulnerability, Related.Indicator	CVE	`.panel_status.created`	`CVE-2024-10234`	N/A
`.panel_status.risk_score`	Event.Attribute, Related.Indicator.Attribute	Risk Score	`.panel_status.created`	`5`	Updatable
`.panel_status.risk_score`	Event.Attribute, Related.Indicator.Attribute	Normalized Risk	`.panel_status.created`	High	Mapped using `Risk Score Normalization Mapping` user field; Updatable
`.panel_status.entity_criticality`	Event.Attribute, Related.Indicator.Attribute	Criticality	`.panel_status.created`	`Low`	Updatable
`.panel_status.context_list[].context`	Event.Attribute, Related.Indicator.Attribute	Context Data	`.panel_status.created`	`Phishing Host`	N/A
`.panel_status.targets`	Event.Attribute, Relate.Indicator.Attribute	Target	`.panel_status.created`	`idn:lonsdale.fr`	User-configurable
`.panel_evidence_dns.ip_list[].entity`	Related.Indicator	IP Address	`.panel_status.created`	`217.160.0.153`	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.panel_evidence_dns.ip_list[].record_type`	Related.Indicator.Attribute	Record Type	`.panel_status.created`	N/A	Updatable
`.panel_evidence_dns.ip_list[].risk_score`	Related.Indicator.Attribute	Risk Score	`.panel_status.created`	`27`	Updatable
`.panel_evidence_dns.ip_list[].risk_score`	Related.Indicator.Attribute	Normalized Risk	`.panel_status.created`	Medium	Mapped using `Risk Score Normalization Mapping` user field; Updatable
`.panel_evidence_dns.ip_list[].criticality`	Related.Indicator.Attribute	Criticality	`.panel_status.created`	`Medium`	Updatable
`.panel_evidence_dns.ip_list[].context_list[].context`	Related.Indicator.Attribute	Context Data	`.panel_status.created`	`Phishing Host`	N/A
`.panel_evidence_dns.mx_list[].entity`	Related.Indicator	FQDN	`.panel_status.created`	`mx00.ionos.co.uk`	N/A
`.panel_evidence_dns.mx_list[].record_type`	Related.Indicator.Attribute	Record Type	`.panel_status.created`	N/A	Updatable
`.panel_evidence_dns.mx_list[].risk_score`	Related.Indicator.Attribute	Risk Score	`.panel_status.created`	`0`	Updatable
`.panel_evidence_dns.mx_list[].risk_score`	Related.Indicator.Attribute	Normalized Risk	`.panel_status.created`	Low	Mapped using `Risk Score Normalization Mapping` user field; Updatable
`.panel_evidence_dns.mx_list[].criticality`	Related.Indicator.Attribute	Criticality	`.panel_status.created`	`0`	Updatable
`.panel_evidence_dns.mx_list[].context_list[].context`	Related.Indicator.Attribute	Context Data	`.panel_status.created`	`Active Mail Server`	N/A
`.panel_evidence_dns.ns_list[].entity`	Related.Indicator	FQDN	`.panel_status.created`	`ns1025.ui-dns.org`	N/A
`.panel_evidence_dns.ns_list[].record_type`	Related.Indicator.Attribute	Record Type	`.panel_status.created`	N/A	Updatable
`.panel_evidence_dns.ns_list[].risk_score`	Related.Indicator.Attribute	Risk Score	`.panel_status.created`	`5`	Updatable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.panel_evidence_dns.ns_list[].risk_score`	Related.Indicator.Attribute	Normalized Risk	`.panel_status.created`	Low	Mapped using `Risk Score Normalization Mapping` user field; Updatable
`.panel_evidence_dns.ns_list[].criticality`	Related.Indicator.Attribute	Criticality	`.panel_status.created`	`Low`	Updatable
`.panel_evidence_dns.ns_list[].context_list[].context`	Related.Indicator.Attribute	Context Data	`.panel_status.created`	`Active Mail Server`	N/A
`.panel_evidence_summary.affected_products[].name`	Related.Vulnerability.Attribute	Affected Product	`.panel_status.created`	`MySQL`	Also applied to main event
`.panel_evidence_summary.assessments[].evidence.data[].malwareIpAddress`	Related.Indicator	IP Address	`.panel_status.created`	N/A	N/A
`.panel_evidence_summary.assessments[].evidence.data[].malwareFamily`	Related.Malware	N/A	`.panel_status.created`	`Lazarus`	N/A
`.panel_evidence_summary.assessments[].evidence.data[].clientIpAddress`	Related.Asset	N/A	`.panel_status.created`	N/A	N/A

Recorded Future - Get Playbook Alerts by Category (Supplemental)

The Recorded Future - Get Playbook Alerts by Category supplemental feed related data for each of the ingested events retrieved from the Alert endpoint. The key `.data[].playbook_alert_id` is used to call the supplemental feed.

```
POST https://api.recordedfuture.com/playbook-alert/{{ category }}
```

> The API will return a slightly different response based on the category of the alert. See the Recorded Future Playbook Alerts feed for the mapping of the data.

Domain Abuse

Sample Response:


```
{
    "status": {
        "status_code": "Ok",
        "status_message": "Domain Abuse lookup successful"
    },
    "data": {
        "panel_status": {
            "entity_name": "lonsdale.social",
            "entity_criticality": "Low",
            "risk_score": 5,
            "context_list": [
                {
                    "context": "Phishing Host"
                },
                {
                    "context": "Active Mail Server"
                }
            ],
            "targets": [
                "idn:lonsdale.fr",
                "idn:lonsdale.us",
                "idn:lonsdale.porn",
                "idn:lonsdale.club"
            ],
            "status": "New",
            "priority": "High",
            "created": "2022-11-09T08:20:15.778Z",
            "case_rule_id": "report:nvAj-X",
            "case_rule_label": "Domain Abuse",
            "owner_id": "uhash:ER135KQ6oL",
            "owner_name": "ThreatQ - Partner",
            "organisation_id": "uhash:DimzHe41vx",
            "organisation_name": "ThreatQ - Partner"
```

```
        },
        "panel_action": [],
        "panel_evidence_summary": {
            "explanation": "Alert was created as a result of a triggered
typosquat detection",
            "resolved_record_list": [
                {
                    "entity": "idn:ns1025.ui-dns.org",
                    "risk_score": 5,
                    "criticality": "Low",
                    "record_type": "NS",
                    "context_list": []
                },
                {
                    "entity": "ip:217.160.0.153",
                    "risk_score": 27,
                    "criticality": "Medium",
                    "record_type": "A",
                    "context_list": [
                        {
                            "context": "Phishing Host"
                        }
                    ]
                },
                {
                    "entity": "idn:mx00.ionos.co.uk",
                    "risk_score": 0,
                    "criticality": "0",
                    "record_type": "MX",
                    "context_list": [
                        {
                            "context": "Active Mail Server"
                        }
                    ]
                },
                {
                    "entity": "idn:mx01.ionos.co.uk",
                    "risk_score": 0,
                    "criticality": "0",
                    "record_type": "MX",
                    "context_list": [
                        {
                            "context": "Active Mail Server"
                        }
                    ]
                }
            ],
            "screenshots": [
                {
                    "description": "An image associated with the Playbook
```

```
Alert",
                    "image_id": "img:349f92e2-fa93-4282-be15-e7a330130686",
                    "created": "2022-11-09T08:20:51.685Z"
                }
            ]
        },
        "panel_evidence_dns": {
            "ip_list": [
                {
                    "entity": "ip:217.160.0.153",
                    "risk_score": 27,
                    "criticality": "Medium",
                    "record_type": "A",
                    "context_list": [
                        {
                            "context": "Phishing Host"
                        }
                    ]
                }
            ],
            "mx_list": [
                {
                    "entity": "idn:mx00.ionos.co.uk",
                    "risk_score": 0,
                    "criticality": "0",
                    "record_type": "MX",
                    "context_list": [
                        {
                            "context": "Active Mail Server"
                        }
                    ]
                }
            ],
            "ns_list": [
                {
                    "entity": "idn:ns1115.ui-dns.de",
                    "risk_score": 0,
                    "criticality": "0",
                    "record_type": "NS",
                    "context_list": [
                        {
                            "context": "Active Mail Server"
                        }
                    ]
                },
                {
                    "entity": "idn:ns1090.ui-dns.biz",
                    "risk_score": 5,
                    "criticality": "Low",
                    "record_type": "NS",
                    "context_list": []
```

```
            }
        ]
    },
    "panel_evidence_whois": {
        "body": [
            {
                "provider": "whois",
                "entity": "idn:lonsdale.social",
                "attribute": "attr:whois",
                "value": {
                    "privateRegistration": false,
                    "status": "clientTransferProhibited addPeriod",
                    "nameServers": [
                        "idn:ns1066.ui-dns.com",
                        "idn:ns1025.ui-dns.org",
                        "idn:ns1115.ui-dns.de",
                        "idn:ns1090.ui-dns.biz"
                    ],
                    "registrarName": "IONOS SE",
                    "createdDate": "2022-11-08T19:44:16.000Z"
                },
                "added": "2022-11-09T08:21:13.682Z"
            },
            {
                    "provider": "whois",
                    "entity": "idn:btbo2.top",
                    "attribute": "attr:whoisContacts",
                    "value": {
                        "organization": "REDACTED FOR PRIVACY",
                        "city": "REDACTED FOR PRIVACY",
                        "name": "REDACTED FOR PRIVACY",
                        "state": "REDACTED FOR PRIVACY",
                        "street1": "REDACTED FOR PRIVACY",
                        "country": "REDACTED FOR PRIVACY",
                        "postalCode": "REDACTED FOR PRIVACY",
                        "telephone": "REDACTED FOR PRIVACY",
                        "type": "technicalContact"
                    },
                    "added": "2022-11-08T10:28:20.712Z"
                }
        ]
    },
    "panel_log": [
        {
            "id": "uuid:26b4be48-e1e0-4773-97d7-b8c8260fe53b",
            "created": "2022-11-09T08:27:31.377Z",
            "modified": "2022-11-09T08:27:31.377Z",
            "action_priority": "Informational"
        }
    ]
```

```
    }
}
```

Third Party Risk

Sample Response:


```
{
  "status": {
    "status_code": "Ok",
    "status_message": "Playbook alert bulk lookup successful."
  },
  "data": [
    {
      "playbook_alert_id": "task:220833e1-6a00-489c-8e6f-08cb11561aea",
      "panel_status": {
        "status": "New",
        "priority": "Moderate",
        "created": "2024-05-09T18:03:42.784Z",
        "updated": "2024-05-13T05:11:28.845Z",
        "case_rule_id": "report:r2TUUz",
        "case_rule_label": "Third Party Risk",
        "owner_id": "uhash:1RmVv0sQ33",
        "owner_name": "Acme Corp",
        "organisation_id": "uhash:4WfuvVnaap",
        "organisation_name": "Acme Corp",
        "owner_organisation_details": {
          "organisations": [
            {
              "organisation_id": "uhash:4WfuvVnaap",
              "organisation_name": "Acme Corp"
            }
          ],
          "enterprise_id": "uhash:4WfuvVnaap",
          "enterprise_name": "Acme Corp"
        },
        "entity_id": "CEBTA",
        "entity_name": "Tele Communications",
        "entity_criticality": "Medium",
        "risk_score": 64,
        "targets": [
          {
            "name": "Infections Recently Reported in Company Infrastructure"
          },
          {
            "name": "Recent Possible Malware in Company Infrastructure"
          }
        ],
        "actions_taken": []
      },
```

```
      "panel_evidence_summary": {
        "assessments": [
          {
            "risk_rule": "Infections Recently Reported in Company
Infrastructure",
            "level": 2,
            "added": "2024-05-13T05:11:09.882Z",
            "evidence": {
              "type": "ip_rule",
              "summary": "4 sightings: Suspected Malicious Packet Source seen
for 1 IP Address on company infrastructure: 121.241.162.25. Recent Botnet
Traffic seen for 3 IP Addresses on company infrastructure: 203.199.243.0,
14.143.123.78, 14.143.187.214",
              "data": [
                {
                  "name": "Suspected Malicious Packet Source",
                  "criticality": 2,
                  "number_of_ip_addresses": 1
                },
                {
                  "name": "Recent Botnet Traffic",
                  "criticality": 2,
                  "number_of_ip_addresses": 3
                }
              ]
            }
          },
          {
            "risk_rule": "Recent Possible Malware in Company Infrastructure",
            "level": 2,
            "added": "2024-05-13T05:11:09.882Z",
            "evidence": {
              "type": "ip_rule",
              "summary": "1 sighting: Recent Positive Malware Verdict seen for
1 IP Address on company infrastructure: 14.142.45.148",
              "data": [
                {
                  "name": "Recent Positive Malware Verdict",
                  "criticality": 2,
                  "number_of_ip_addresses": 1
                }
              ]
            }
          }
        ]
      }
    }
  ]
}
```

Cyber Vulnerability

Sample Response:


```
{
  "status": {
    "status_code": "Ok",
    "status_message": "Playbook alert bulk lookup successful."
  },
  "data": [
    {
      "playbook_alert_id": "task:174cd0d2-2fad-482b-956d-97e3c3e06ab3",
      "panel_status": {
        "status": "New",
        "priority": "Informational",
        "assignee_name": "John Doe",
        "assignee_id": "uhash:12QsDAJfc1",
        "created": "2024-04-25T14:10:30.241Z",
        "updated": "2024-04-25T14:10:30.241Z",
        "case_rule_id": "report:k0g1wZ",
        "case_rule_label": "Cyber Vulnerability",
        "owner_id": "uhash:5ApZv0sR31",
        "owner_name": "Acme Corp",
        "organisation_id": "uhash:1WauvZmavb",
        "organisation_name": "Acme Corp",
        "owner_organisation_details": {
          "organisations": [
            {
              "organisation_id": "uhash:5ApZv0sR31",
              "organisation_name": "Acme Corp"
            }
          ],
          "enterprise_id": "uhash:1WauvZmavb",
          "enterprise_name": "Acme Corp"
        },
        "entity_id": "vj-Vlg",
        "entity_name": "CVE-2024-4058",
        "entity_criticality": "Medium",
        "risk_score": 33,
        "lifecycle_stage": "Disclosure",
        "targets": [
          {
            "name": "Google Chrome"
          }
        ],
        "actions_taken": []
      },
      "panel_evidence_summary": {
        "summary": {
          "targets": [
            {
```

```
              "name": "Google Chrome"
            }
          ],
          "lifecycle_stage": "Disclosure",
          "risk_rules": [
            {
              "rule": "Recently Referenced by Insikt Group",
              "description": "3 sightings on 1 source: Insikt Group. 3 reports
including Google Patches Chrome Vulnerability CVE-2024-4059 and Additional Flaw
Tracked as CVE-2024-4060. Most recent link (Apr 26, 2024): https://
app.recordedfuture.com/portal/analyst-note/doc:vn9yUw"
            },
            {
              "rule": "Linked to Historical Cyber Exploit",
              "description": "21 sightings on 7 sources including:
InfoSecPortal.ru | ÐŸÐ¾ÑÐ»ÐµÐ´Ð½Ð¸Ðµ ÐžÐ±Ð½Ð¾Ð²Ð»ÐµÐ½Ð¸Ñ, SecurityWeek, Anti-
Malware.ru | ÐÐ¾Ð²Ð¾ÑÑ‚Ð¸ Ð˜Ð½Ñ„Ð¾Ñ€Ð¼Ð°Ñ†Ð¸Ð¾Ð½Ð½Ð¾Ð¹ Ð‘ÐµÐ·Ð¾Ð¿Ð°ÑÐ½Ð¾ÑÑ‚Ð¸,Ð¸,
xynik.com, Xakep.ru. Most recent tweet: Ð’ Chrome Ð¸ÑÐ¿Ñ€Ð°Ð²Ð»Ð¸Ð»Ð¸
Ð°Ñ€Ð¸Ñ‚ÐµÐºÑ‚ÑƒÑ€Ð½ÑƒÑŽ ÑƒÑÐ·Ð²Ð¸Ð¼Ð¾ÑÑ‚ÑŒ, Ð·Ð° Ð°Ð¾Ñ‚Ð¾Ñ€Ñƒ ÑÐ°ÑÐ¿Ñ€ÐµÐ¼Ñ‹,Ñ‹
Ð¿Ð¾Ð»ÑƒÑ‡Ð¸Ð»Ð¸ 16 000 Ð´Ð¾Ð»Ð»Ð°Ñ€Ð¾Ð² ÐÐ° ÑÑ,Ð¾Ð¹ Ð½ÐµÐ´ÐµÐ»Ðµ Google
Ð²Ñ‹Ð¿ÑƒÑ‚Ð¸Ð»Ð° Ð¾Ð±Ð½Ð¾Ð²Ð»ÐµÐ½Ð¸Ðµ Ð´Ð»Ñ Chrome 124, Ð°Ð¾Ñ‚Ð¾Ñ€Ðµ
Ð¸ÑÐ¿Ñ€Ð°Ð²Ð»ÐµÐ½, Ñ‡ÐµÐ,Ñ‹Ñ€Ðµ ÑÑ€Ð°Ð·Ñƒ ÑƒÑÐ·Ð²Ð¸Ð¼Ð¾ÑÑ‚ÑŒ, Ð²Ð°Ð»ÑŽÑ‡Ð°Ñ
Ð°Ñ€Ð¸Ñ‚ÐµÐºÑ‚ÑƒÑ€Ð½ÑƒÑŽ Ð¿Ñ€Ð¾Ð±Ð»ÐµÐ¼Ñƒ CVE-2024-4058 Ð²â€¦ ÐŸÐ´Ñ€Ð¾Ð±Ð½ÐµÐµ
https://t.co/Tnmg7ZPfSg https://t.co/UpviubMKJY. Most recent link (Apr 26,
2024): https://twitter.com/pc7ooo/statuses/1783975885718098318"
            },
            {
              "rule": "Web Reporting Prior to CVSS Score",
              "description": "Reports involving CVE Vulnerability before CVSS
score is released by NVD."
            }
          ]
        },
        "affected_products": [
          {
            "name": "Google Chrome"
          }
        ],
        "insikt_notes": [
          {
            "id": "doc:vn9yUw",
            "title": "Google Patches Chrome Vulnerability CVE-2024-4059 and
Additional Flaw Tracked as CVE-2024-4060",
            "published": "2024-04-26T13:22:37.371Z",
            "topic": "Validated Intelligence Event",
            "fragment": "In recent updates announced on April 24, 2024, Google
has addressed a critical vulnerability CVE-2024-4058 in its Chrome web browser
that could allow threat actors to take control of a user's system. The
vulnerability is related to the ANGLE graphics layer engine and has a
\"critical\" severity rating."
```

```
          },
          {
            "id": "doc:vm4TAU",
            "title": "CVE-2024-4058 allows Type Confusion affecting Google
Chrome",
            "published": "2024-04-25T16:31:33.504Z",
            "topic": "Informational",
            "fragment": "CVE-2024-4058 is a type confusion bug in the ANGLE
graphics layer engine. A manipulation with an unknown input can lead to a type
confusion vulnerability."
          },
          {
            "id": "doc:vmfmEu",
            "title": "Google Patches Four Vulnerabilities Affecting Chrome,
Including Critical-Severity Vulnerability CVE-2024-4058",
            "published": "2024-04-25T09:47:23.765Z",
            "topic": "Validated Intelligence Event",
            "fragment": "On April 24, 2024, Google patched four vulnerabilities
affecting the Chrome browser. This included  CVE-2024-4058,  a critical-
severity type confusion vulnerability that arises from a misinterpretation of
data types within the Almost Native Graphics Layer Engine (ANGLE) of the Chrome
browser. Successful exploitation of CVE-2024-4058 can allow threat actors to
execute arbitrary code or evade sandboxes remotely with minimal user
interaction, potentially leading to unauthorized access, data manipulation, and
system compromise."
          }
        ]
      }
    }
  ]
}
```


Code Repo Leakage

Sample Response:


```
{
  "status": {
    "status_code": "Ok",
    "status_message": "Playbook alert bulk lookup successful."
  },
  "data": [
    {
      "playbook_alert_id": "task:f19c105a-5997-4a13-b54f-7b64816954fa",
      "panel_status": {
        "status": "New",
        "priority": "Informational",
        "created": "2024-05-01T22:05:52.838Z",
        "updated": "2024-05-01T22:05:52.838Z",
        "case_rule_id": "report:q_dg1Y",
```

```
        "case_rule_label": "Data Leakage on Code Repository",
        "owner_id": "uhash:7RaVs0sR31",
        "owner_name": "Acme Corp",
        "organisation_id": "uhash:1XfyvKnbbp",
        "organisation_name": "Acme Corp",
        "owner_organisation_details": {
          "organisations": [
            {
              "organisation_id": "uhash:7RaVs0sR31",
              "organisation_name": "Acme Corp"
            }
          ],
          "enterprise_id": "uhash:1XfyvKnbbp",
          "enterprise_name": "Acme Corp"
        },
        "entity_id": "url:https://github.com/Inclusion-Bridge/2024-bridge-to-
data-fundamentals",
        "entity_name": "https://github.com/Inclusion-Bridge/2024-bridge-to-
data-fundamentals",
        "entity_criticality": "",
        "risk_score": 0,
        "targets": [
          {
            "name": "acme.org"
          }
        ],
        "actions_taken": []
      },
      "panel_evidence_summary": {
        "repository": {
          "id": "url:https://github.com/Inclusion-Bridge/2024-bridge-to-data-
fundamentals",
          "name": "https://github.com/Inclusion-Bridge/2024-bridge-to-data-
fundamentals",
          "owner": {
            "name": "aifenaike"
          }
        },
        "evidence": [
          {
            "assessments": [
              {
                "id": "attr:watchListEntityMention",
                "title": "Watch List Entity Mention",
                "value": "acme.org"
              }
            ],
            "targets": [
              {
                "name": "acme.org"
```

```
              }
            ],
            "url": "https://github.com/Inclusion-Bridge/2024-bridge-to-data-
fundamentals/commit/5002107a89ad09e3b45bf07d45d400f1a4738f5a",
            "content": "+Shenhua Group,276,37322,-0.8,1916.9,140911,37.9,Ling
Wen,\"Mining, Crude-Oil Production\",Energy,270,China,\"Beijing,
China\",http://www.shenhuagroup.com.cn,8,202200,47962\n+Greenland Holding
Group,277,37240,12.8,1085.2,105495,-1.0,Zhang Yuliang,Real
estate,Financials,311,China,\"Shanghai, China\",http://
www.ldjt.com.cn,6,39887,8333\n+ACME,278,37105,5.5,1492.3,523194,22.9,Roger W.
Ferguson Jr.,\"Insurance: Life, Health (Mutual)\",Financials,291,USA,\"New
York, NY\",http://www.acme.org,20,12997,35583\n+Jardine
Matheson,279,37051,0.1,2503.0,71523,39.3,Ben Keswick,Motor Vehicles and
Parts,Motor Vehicles & Parts,273,China,\"Hong Kong, China\",http://
www.jardines.com,18,430000,21800\n+Oracle,280,37047,-3.1,8901.0,112180,-10.4,Sa
fra A. Catz,Computer Software,Technology,260,USA,\"Redwood City, CA\",http://
www.oracle.com,11,136000,47289",
            "published": "2024-05-01T22:03:09.273Z"
          }
        ]
      }
    }
  ]
}
```

Recorded Future Fusion Files

The Recorded Future fusion files feed ingests threat intelligence information from the user selected Fusion feeds.

`GET https://api.recordedfuture.com/v2/fusion/files?path={fusion_file_path}`

> Depending on the fetched Fusion File, the API response will be different. The following are examples and mappings for all of the possible files.

Command and Control IPs

`/public/detect/c2_scanned_ips.json`

Sample Response:


```
{
  "count": 2,
  "results": [
    {
      "ip": "2.56.116.210",
      "ports": [
        {
          "port": 26,
          "protocol": "TCP"
        },
        {
          "port": 24,
          "protocol": "TCP"
        },
        {
          "port": 50050,
          "protocol": "TCP"
        }
      ],
      "malware": ["Cobalt Strike"],
      "last_seen_active": "2106-02-07",
      "last_scan": "2024-05-14"
    },
    {
      "ip": "147.189.174.48",
      "ports": [
        {
          "port": 6666,
          "protocol": "TCP"
        }
      ],
      "malware": ["AsyncRAT"],
      "last_seen_active": "2024-05-12",
      "last_scan": "2024-05-14"
    }
  ]
}
```

ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the `results` key.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.ip`	Indicator.Value	IP Address	`.last_seen_active`	N/A	N/A
`.ports[].port`	Attribute	Scanned Port	`.last_seen_active`	`8080`	N/A
`.malware[]`	Malware	N/A	`.last_seen_active`	`AsyncRAT`	N/A
N/A	Attribute	Fusion File	`.last_seen_active`	`c2_scanned_ips`	N/A

Known TOR IPs

`/public/policy/tor_ips.json`

Sample Response:

```
[
  {
    "ip": "171.25.193.77",
    "name": "DFRI29",
    "flags": "EFGHRSDV"
  },
  {
    "ip": "171.25.193.78",
    "name": "DFRI27",
    "flags": "EFGHRSDV"
  },
  {
    "ip": "198.96.155.3",
    "name": "gurgle",
    "flags": "EFGHRSDV"
  }
]
```

ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the array.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.ip`	Indicator.Value	IP Address	N/A	N/A	N/A
`.name`	Attribute	TOR Name	N/A	`gurgle`	N/A
`.flags`	Attribute	TOR Flags	N/A	`EFGHRSDV`	N/A
N/A	Attribute	Fusion File	N/A	`tor_ips`	N/A

Active RAT C2 IPs

`/public/detect/ratcontrollers_ips.json`

Sample Response:


```
[
  {
    "hostnames": [],
    "ip": "208.100.26.240",
    "country": "",
    "asn": "",
    "port": "",
    "malware": "",
    "protocol": "",
    "signal": []
  },
  {
    "hostnames": [],
    "ip": "88.119.175.231",
    "country": "",
    "asn": "",
    "port": "",
    "malware": "",
    "protocol": "",
    "signal": []
  },
  {
    "hostnames": [],
    "ip": "103.97.176.121",
    "country": "",
    "asn": "",
    "port": "",
    "malware": "",
    "protocol": "",
    "signal": []
  }
]
```


ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the array.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.ip`	Indicator.Value	IP Address or URL	N/A	N/A	Type will depend on if the `.ip` value starts with `http` or not.
N/A	Attribute	Fusion File	N/A	`ratcontrollers_ips`	N/A
`.asn`	Attribute	ASN	N/A	N/A	N/A
`.country`	Attribute	Country	N/A	N/A	N/A
`.malware`	Malware	N/A	N/A	`Nanocore RAT`	N/A

Fast Flux IPs

`/public/detect/fflux_ips.json`

Sample Response:

```
[
  {
    "lastSeen": 1715817599000,
    "ip": "1.189.96.74"
  },
  {
    "lastSeen": 1715817599000,
    "ip": "83.48.172.198"
  },
  {
    "lastSeen": 1715817599000,
    "ip": "83.224.176.102"
  },
  {
    "lastSeen": 1715817599000,
    "ip": "37.84.163.136"
  }
]
```

ThreatQ provides the following default mapping for this pathway:

Mappings are based on each item within the array.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.ip`	Indicator.Value	IP Address	`.lastSeen`	N/A	N/A
N/A	Attribute	Fusion File	N/A	`fflux_ips`	N/A

Default IP Risklist Location Malware


```
"Name","Risk","RiskString","EvidenceDetails","MalwareFamilies","ASN","City","Co
untry"
"198.98.57.26",99,"10/81","{""EvidenceDetails"":[{""Rule"":""Historically
Linked to Intrusion Method"",""EvidenceString"":""14 sightings on 2 sources:
Twitter, GitHub. 2 related intrusion methods: Cobalt Strike, Offensive Security
Tools (OST). Most recent link (Mar 18, 2025): https://github.com/Xavier001/
IOCs/commit/
c3fda8db8e4d381df95e30ec9f9ff584e5d7735e"",""CriticalityLabel"":""Unusual"",""T
imestamp"":1742338024422,""MitigationString"":"""",""Criticality"":1},
{""Rule"":""Historical Suspected CC Server"",""EvidenceString"":""3 sightings
on 2 sources: ThreatFox Infrastructure Analysis, Malware Patrol. ThreatFox
identified 198.98.57.26:443 as possible TA0011 (Command and Control) for Cobalt
Strike on January 17, 2025. Most recent link (Jan 17, 2025): https://
threatfox.abuse.ch/ioc/
1380526"",""CriticalityLabel"":""Unusual"",""Timestamp"":1737097322000,""Mitiga
tionString"":"""",""Criticality"":1},{""Rule"":""Historically Reported as a
Defanged IP"",""EvidenceString"":""1 sighting on 1 source: Twitter. Most recent
link (Dec 18, 2024): https://twitter.com/drb_ra/statuses/
1869521052784878070"",""CriticalityLabel"":""Unusual"",""Timestamp"":1734563527
000,""MitigationString"":"""",""Criticality"":1},{""Rule"":""Historical Botnet
Traffic"",""EvidenceString"":""1 sighting on 1 source: External Sensor Data
Analysis. 198.98.57.26 was identified as botnets in External Sensor data.
Reported to Recorded Future on Oct 26,
2024."",""CriticalityLabel"":""Unusual"",""Timestamp"":1729980922163,""Mitigati
onString"":"""",""Criticality"":1},{""Rule"":""Historical Spam
Source"",""EvidenceString"":""1 sighting on 1 source: External Sensor Spam.
198.98.57.26 was identified as spam in External Sensor data. Reported to
Recorded Future on Mar 20,
2024."",""CriticalityLabel"":""Unusual"",""Timestamp"":1710929307653,""Mitigati
onString"":"""",""Criticality"":1},{""Rule"":""Historically Reported CC
Server"",""EvidenceString"":""22 sightings on 1 source: Recorded Future Command
Control Reports. 198.98.57.26:2096 was reported as a command and control server
for Cobalt Strike on Jan 18,
2025"",""CriticalityLabel"":""Suspicious"",""Timestamp"":1737275121237,""Mitiga
tionString"":"""",""Criticality"":2},{""Rule"":""Recently Communicating
Validated CC Server"",""EvidenceString"":""6 sightings on 1 source: Recorded
Future Network Intelligence. Multiple communications observed between
181.214.153.11 on 4 ports including 13995 and 198.98.57.26 (validated Cobalt
Strike C2 Server) on port 2096 on 2025-03-28 at 03:07 UTC.
"",""CriticalityLabel"":""Suspicious"",""Timestamp"":1743120000000,""Mitigation
String"":"""",""Criticality"":2},{""Rule"":""Previously Validated C
Server"",""EvidenceString"":""562 sightings on 1 source: Insikt Group Command
Control Validation. Recorded Future analysis validated 198.98.57.26:2096 as a
command and control server for Cobalt Strike on Mar 30,
2025"",""CriticalityLabel"":""Suspicious"",""Timestamp"":1743317655000,""Mitiga
tionString"":"""",""Criticality"":2},{""Rule"":""Actively Communicating
Validated CC Server"",""EvidenceString"":""2 sightings on 1 source: Recorded
```

Future Network Intelligence. Multiple communications observed between 181.214.153.11 on 2 ports including 5792 and 198.98.57.26 (validated Cobalt Strike C2 Server) on port 2096 on 2025-03-31 at 04:24 UTC.
"",""CriticalityLabel"":""Very Malicious"",""Timestamp"":1743379200000,""MitigationString"":"""",""Criticality"":4},{""Rule"":""Validated CC Server"",""EvidenceString"":""13 sightings on 1 source: Insikt Group Command Control Validation. Recorded Future analysis validated 198.98.57.26:2096 as a command and control server for Cobalt Strike on Apr 01, 2025"",""CriticalityLabel"":""Very Malicious"",""Timestamp"":1743497808000,""MitigationString"":"""",""Criticality"":4}]}","Cobalt Strike|Cobalt Strike Beacon","AS53667","New York City","United States"
"139.224.198.190",99,"11/81","{""EvidenceDetails"":[{""Rule"":""Historically Linked to Intrusion Method"",""EvidenceString"":""21 sightings on 4 sources: Twitter, Recorded Future Command Control List, C2IntelFeeds Cobalt Strike C2 Servers, GitHub. 7 related intrusion methods including Interactsh LDAP Server, Cobalt Strike, Trojan, Offensive Security Tools (OST), Banking Trojan. Most recent link (Mar 18, 2025): https://github.com/drb-ra/C2IntelFeeds/commit/4c7af7a4c0b23a4ce3e5bf91ac586e4a4b46b6cd"",""CriticalityLabel"":""Unusual"",""Timestamp"":1742331763428,""MitigationString"":"""",""Criticality"":1},{""Rule"":""Historical Suspected CC Server"",""EvidenceString"":""6 sightings on 2 sources: ThreatFox Infrastructure Analysis, Malware Patrol. ThreatFox identified 139.224.198.190:8888 as possible TA0011 (Command and Control) for Unknown malware on December 06, 2024. Most recent link (Dec 6, 2024): https://threatfox.abuse.ch/ioc/1196644"",""CriticalityLabel"":""Unusual"",""Timestamp"":1733472212000,""MitigationString"":"""",""Criticality"":1},{""Rule"":""Historical Malicious Infrastructure Admin Server"",""EvidenceString"":""976 sightings on 2 sources: Insikt Group Malicious Infrastructure Management Validation, Recorded Future Malicious Infrastructure Management Validation."",""CriticalityLabel"":""Unusual"",""Timestamp"":1742299889836,""MitigationString"":"""",""Criticality"":1},{""Rule"":""Historically Linked to Cyber Attack"",""EvidenceString"":""1 sighting on 1 source: C2IntelFeeds Cobalt Strike C2 Servers. Most recent link (Apr 21, 2021): https://github.com/drb-ra/C2IntelFeeds/blob/master/C2_configs/cobaltstrike.json?q=https%3A%2F%2F139.224.198.190%3A443_20210421"",""CriticalityLabel"":""Unusual"",""Timestamp"":1618997794823,""MitigationString"":"""",""Criticality"":1},{""Rule"":""Historically Reported as a Defanged IP"",""EvidenceString"":""6 sightings on 3 sources: redpacketsecurity.com, Twitter, yourmom.xxx. Most recent link (Jun 27, 2024): https://mirror.yourmom.xxx/vx/Papers/Malware%20Defense/Malware%20Analysis/2023/2023-11-22%20-%20Practical%20Queries%20for%20Malware%20Infrastructure%20-%20Part%203%20(Advanced%20Examples).pdf"",""CriticalityLabel"":""Unusual"",""Timestamp"":1719502587980,""MitigationString"":"""",""Criticality"":1},{""Rule"":""Historically Reported in Threat List"",""EvidenceString"":""Previous sightings on 3 sources: Recently Viewed Integrations Indicators, RAT Controller - Shodan / Recorded Future, Cobalt Strike Default Certificate Detected - Shodan / Recorded Future. Observed between Oct 2, 2022, and Oct 3, 2023."",""CriticalityLabel"":""Unusual"",""Timestamp"":1743513627891,""MitigationString"":"""",""Criticality"":1},{""Rule"":""Historically Reported CC

```
Server"",""EvidenceString"":""42 sightings on 5 sources: Polyswarm Sandbox
Analysis - Malware C2 Extractions, Recorded Future Command  Control Reports,
Recorded Future Command  Control List, Recorded Future Triage Malware Analysis
- Malware C2 Extractions, Recorded Future Sandbox - Malware C2 Extractions.
Malware sandbox analysis identified 139.224.198.190:4455 as possible TA0011
(Command and Control) for Metasploit using configuration extraction on sample
b1a6624c78f881a944e27a2451addb6c7d2b65c8db155eb9a88ce2f2f5dbdc84."",""Criticali
tyLabel"":""Suspicious"",""Timestamp"":1730234249000,""MitigationString"":"""",
""Criticality"":2},{""Rule"":""Recently Linked to Intrusion
Method"",""EvidenceString"":""1 sighting on 1 source: GitHub. 3 related
intrusion methods: Trojan, Banking Trojan, QakBot. Most recent link (Mar 31,
2025): https://github.com/drb-ra/C2IntelFeeds/commit/
38253aaf32c9e306247c8c21ebc71146fac5ec41"",""CriticalityLabel"":""Suspicious"",
""Timestamp"":1743454980696,""MitigationString"":"""",""Criticality"":2},
{""Rule"":""Previously Validated CC Server"",""EvidenceString"":""698 sightings
on 1 source: Insikt Group Command  Control Validation. Recorded Future analysis
validated 139.224.198.190:3232 as a command and control server for Supershell
on Mar 30,
2025"",""CriticalityLabel"":""Suspicious"",""Timestamp"":1743311507000,""Mitiga
tionString"":"""",""Criticality"":2},{""Rule"":""Recent Malicious
Infrastructure Admin Server"",""EvidenceString"":""70 sightings on 1 source:
Insikt Group Malicious Infrastructure Management
Validation."",""CriticalityLabel"":""Malicious"",""Timestamp"":1743505617266,""
MitigationString"":"""",""Criticality"":3},{""Rule"":""Validated CC
Server"",""EvidenceString"":""5 sightings on 1 source: Insikt Group Command
Control Validation. Recorded Future analysis validated 139.224.198.190:3232 as
a command and control server for Supershell on Apr 01,
2025"",""CriticalityLabel"":""Very
Malicious"",""Timestamp"":1743483492000,""MitigationString"":"""",""Criticality
"":4}]}","Supershell","AS37963","Shanghai","China"
```


ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the array.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	IP Address	N/A	5.120.187.119	N/A
1 (second token)	Indicator.Attribute	Risk Score	N/A	65	Updatable
1 (second token)	Indicator.Attribute	Normalized Risk	N/A	High	Mapped using `Risk Score Normalization Mapping` user field; Updatable
2 (third token)	Indicator.Attribute	Risk String	N/A	1/49	Updatable
3 (fourth token) []CriticalityLabel	Indicator.Attribute	Criticality	3 (fourth token) []Timestamp	Malicious	Updatable. The highest criticality level is selected.
3 (fourth token) []Rule	Indicator.Attribute	Associated Rule	3 (fourth token) []Timestamp	Recent Positive Malware Verdict	N/A
3 (fourth token) []EvidenceString	Indicator.Attribute	Evidence	3 (fourth token) []Timestamp	1 sighting on 1 source: ReversingLabs.	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
4 (fifth token)	Malware.Value	N/A	3 (fourth token) []Timestamp	`Nanocore RAT`	N/A
5 (sixth token)	Indicator.Attribute	ASN	3 (fourth token) []Timestamp	`AS37963`	N/A
6 (seventh token)	Indicator.Attribute	ASN Organization	N/A	3 (fourth token) []Timestamp	`Shanghai`
7 (eighth token)	Indicator.Attribute	Country	N/A	`China`	N/A

Dynamic DNS IPs

`/public/detect/ddns_ips.json`

Sample Response:

```
[
  { "lastSeen": 1592813679718, "ip": "14.207.60.10" },
  { "lastSeen": 1602551372295, "ip": "31.184.203.121" },
  { "lastSeen": 1600696916364, "ip": "200.95.170.74" },
  { "lastSeen": 1715817599000, "ip": "31.46.242.12" },
  { "lastSeen": 1715817599000, "ip": "201.151.223.102" }
]
```

ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the array.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.ip`	Indicator.Value	IP Address	`.lastSeen`	N/A	N/A
N/A	Attribute	Fusion File	N/A	`ddns_ips`	N/A

Potentially Undetectable Malware

`/public/detect/low_detect_malware_hashes.json`

Sample Response:


```
[
  {
    "lastSeen": 1637938630146,
    "hash": "00af0726cdaf4dd07375ed03513a5ce3e5055a285b932b20bc06c85d92b00e9f",
    "algorithm": "SHA-256"
  },
  {
    "lastSeen": 1517420645494,
    "hash": "0bcc5b3fbed425984f6ce7fbf1a62a7f",
    "algorithm": "MD5"
  },
  {
    "lastSeen": 1565960362167,
    "hash": "0f6bff19fd5fe46f577853c7de074072fba5c04831fddac820eacd897622d343",
    "algorithm": "SHA-256"
  },
  {
    "lastSeen": 1574942448466,
    "hash": "be62ca209f803671935370c9d05ad5d25acd55d47029f19fca75df6b74dfb957",
    "algorithm": "SHA-256"
  },
  {
    "lastSeen": 1557138379174,
    "hash": "e3a318797bdc6d45917364efdf329dd8fd6a39f1178d71dc1945ff94a425b209",
    "algorithm": "SHA-256"
  },
  {
    "lastSeen": 1572496263780,
    "hash": "39e4251cacd684dc4886bddfefdda3cf78c0d6d4",
    "algorithm": "SHA-1"
  },
  {
    "lastSeen": 1572496263780,
    "hash":
"222f4b0b2a69666cb0843af04a2d234378e284a9c05fb2ae0e6754fb52b1ee34df361fd1d3b70f3bbcd2b7611d64d5622558b4b6c127263
    "algorithm": "SHA-512"
  }
]
```


ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the the array.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.hash`	Indicator.Value	`.algorithm`	`.lastSeen`	N/A	N/A
N/A	Attribute	Fusion File	N/A	`low_detect_malware_hashes`	N/A

Weaponized Domains

`/public/detect/weaponized_domains.json`

Sample Response:


```
{
  "count": 2,
  "results": [
    {
      "domain": "dswa.1337.cx",
      "last_seen": "2024-05-15",
      "service_provider": "Afraid.org",
      "detection_strings": {
        "phishing site": false,
        "spam site": false,
        "spam image": false,
        "mining site": false,
        "malicious site": false,
        "suspicious site": false,
        "malware site": true,
        "malware hd site": false,
        "fraudulent site": false
      }
    },
    {
      "domain": "7.24-7.ro",
      "last_seen": "2024-05-13",
      "service_provider": "Afraid.org",
      "detection_strings": {
        "phishing site": true,
        "spam site": false,
        "spam image": false,
        "mining site": false,
        "malicious site": false,
        "suspicious site": false,
        "malware site": true,
        "malware hd site": false,
        "fraudulent site": false
      }
    }
  ]
}
```


ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the `results` key.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.domain`	Indicator.Value	FQDN	`.last_seen`	N/A	N/A
N/A	Attribute	Fusion File	N/A	`weaponized_domains`	N/A
`.service_provider`	Attribute	Service Provider	`.last_seen`	`Afraid.org`	N/A
`.detection_strings[phishing site]`	Attribute	Threat Type	`.last_seen`	`Phishing`	Only if flag is true

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.detection_strings[spam site]`	Attribute	Threat Type	`.last_seen`	`Spam`	Only if flag is true
`.detection_strings[spam image]`	Attribute	Threat Type	`.last_seen`	`Spam`	Only if flag is true
`.detection_strings[mining site]`	Attribute	Threat Type	`.last_seen`	`Crypotomining`	Only if flag is true
`.detection_strings[malicious site]`	Attribute	Disposition	`.last_seen`	`Malicious`	Only if flag is true
`.detection_strings[suspicious site]`	Attribute	Disposition	`.last_seen`	`Suspicious`	Only if flag is true
`.detection_strings[malware site]`	Attribute	Threat Type	`.last_seen`	`Malware`	Only if flag is true
`.detection_strings[malware hd site]`	Attribute	Threat Type	`.last_seen`	`Malware`	Only if flag is true
`.detection_strings[fraudulent site]`	Attribute	Threat Type	`.last_seen`	`Fraud`	Only if flag is true

Exploits in the Wild Hashes

`/public/prevent/exploits_itw_hashes.json`

Sample Response:


```
{
  "count": 97644,
  "results": [
    {
      "hash": "6131945bc2925a227c748f6e65d3108d0519fe03887a2353b516d75c26afb03e",
      "algorithm": "sha256",
      "cybervulnerabilities": ["CVE-2010-2568"],
      "malware": "unknown",
      "days_with_sighting": 16,
      "last_seen": "2024-05-14"
    },
    {
      "hash": "a63570d7200cb3628f2a8887bc9d5cf0",
      "algorithm": "md5",
      "cybervulnerabilities": ["CVE-2022-42889"],
      "malware": "unknown",
      "days_with_sighting": 1,
      "last_seen": "2024-05-08"
    }
  ]
}
```


ThreatQ provides the following default mapping for this pathway:

> Mappings are based on each item within the `results` key.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.hash`	Indicator.Value	`.algorithm`	`.last_seen`	N/A	N/A
N/A	Attribute	Fusion File	N/A	`exploits_itw_hashes`	N/A
`.cybervulnerabilities[]`	Indicator.Value, Vulnerability.Value	CVE	`.last_seen`	`CVE-2022-42889`	N/A
`.malware`	Malware.Value	N/A	`.last_seen`	`Lokibot`	Ingested if not 'unknown'

Recorded Future Detection Rules

The Recorded Future Detection Rules feed ingests Recorded Future detection rules (i.e. YARA, Snort, or Sigma) into ThreatQ as Signatures. Indicators and context will be extracted and added as relationships or attribution, respectively.

```
GET https://api.recordedfuture.com/detection-rule/search
```

Sample Response:


```
{
    "count": 10,
    "next_offset": "eyJvZmZzZXQiOlsxMTEyMiwiSEZCSHdBRDBTd3EiXX0=",
    "result": [
        {
            "created": "2025-01-17T20:27:13.817Z",
            "description": "The attached SNORT rule detects inbound WebSocket
data frames with commands to be interpreted and executed by RevC2 malware.",
            "id": "doc:2j65IB",
            "rules": [
                {
                    "content": "alert tcp $EXTERNAL_NET any -> $HOME_NET any
(msg:\"RevC2 Malware Inbound Command\"; flow:established,to_client; content:\"|
81|\"; depth:1; content:\"|7B 22|type|22 3A 22|\"; distance:1; within:9;
content:\"|22 2C 22|command|22 3A 22|\"; fast_pattern; distance:4; within:15;
pcre:\"/\\x81.\\x7b\\x22type\\x22\\x3a\\x22[0-9]{4,6}\\x22\\x2c\\x22command\
\x22\\x3a/\"; reference:url,https://www.zscaler.com/blogs/security-research/
unveiling-revc2-and-venom-loader; classtype:trojan-activity; sid:52460260;
rev:1; metadata:author MGUT, created_at 2025-01-15, mitre_tactic_id TA0011,
mitre_tactic_name Command-And-Control;)\n",
                    "entities": [
                        {
                            "id": "1KeNsc",
                            "name": "RevC2",
                            "type": "Malware"
                        },
                        {
                            "display_name": "T1071.001 (Application Layer
Protocol: Web Protocols)",
                            "id": "mitre:T1071.001",
                            "name": "T1071.001",
                            "type": "MitreAttackIdentifier"
                        }
                    ],
                    "file_name": "mal_revc2_snort.txt"
                }
            ],
            "title": "SNORT Rule: Detect RevC2 Malware Inbound Commands",
            "type": "snort",
            "updated": "2025-01-17T20:27:13.817Z"
```

```
        },
        {
            "created": "2024-09-27T20:12:23.632Z",
            "description": "The attached SNORT rules can be used to detect
network traffic associated with CryptBot malware.",
            "id": "doc:zA_U9i",
            "rules": [
                {
                    "content": "alert tcp $HOME_NET any -> $EXTERNAL_NET
$HTTP_PORTS (msg:\"CryptBot Malware Outbound C2 Communication\";
flow:established,to_server; urilen:14,norm; content:\"POST\"; http_method;
content:\"|2F|v1|2F|upload|2E|php\"; fast_pattern; http_uri; content:\"|3B 20|
boundary|3D 2D 2D 2D 2D|Boundary\"; http_header; content:\"|3B 20|name|3D 22|
file|22|\"; http_client_body; reference:url,https://tria.ge/240909-zh8kgsygjr;
classtype:bad-unknown; sid:52460217; rev:1; metadata:author MGUT,
mitre_tactic_id TA0011, mitre_tactic_name Command-And-Control;)\nalert tcp
$HOME_NET any -> $EXTERNAL_NET $HTTP_PORTS (msg:\"CryptBot Malware Outbound C2
Communication\"; flow:established,to_server; urilen:14,norm; content:\"POST\";
http_method; content:\"|2F|v1|2F|upload|2E|php\"; fast_pattern; http_uri;
content:\"Accept|3A 20|\"; http_header; content:\"|3B 20|boundary|3D 2D 2D 2D
2D|\"; http_header; content:\"|3B 20|name|3D 22|file|22 3B 20|filename|3D 22|
\"; http_client_body; content:\".bin|22 0D 0A|\"; http_client_body; distance:0;
within:20; reference:url,https://tria.ge/241101-1zqaxatrez; classtype:bad-
unknown; sid:52460232; rev:1; metadata:author MGUT, mitre_tactic_id TA0011,
mitre_tactic_name Command-And-Control;)\nalert tcp $HOME_NET any ->
$EXTERNAL_NET $HTTP_PORTS (msg:\"CryptBot Malware Outbound C2 Communication\";
flow:established,to_server; content:\"POST\"; http_method; content:!\"User|2D|
Agent\"; http_header; content:\"|7B 20 22 69 70 22 3A 20 22|\";
http_client_body; depth:9; content:\"|22|current_time|22|\"; http_client_body;
distance:0; content:\"|22|Num_processor|22|\"; http_client_body; distance:0;
content:\"|22|Num_ram|22|\"; http_client_body; fast_pattern; distance:0;
reference:url,https://tria.ge/250201-zdl6pa1lhm; classtype:trojan-activity;
sid:52460266; rev:1; metadata:author MGUT, created_at 2025-02-05,
mitre_tactic_id TA0011, mitre_tactic_name Command-And-Control;)\n",
                    "entities": [
                        {
                            "id": "hy-B4_",
                            "name": "CryptBot",
                            "type": "Malware"
                        }
                    ],
                    "file_name": "mal_cryptbot_snort.txt"
                }
            ],
            "title": "SNORT Rules: Detect CryptBot Malware",
            "type": "snort",
            "updated": "2025-02-06T22:20:04.717Z"
        }
```

```
    ]
}
```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
`.rules[].content`	Signature.Name, Signature.Value	YARA, Snort, or Sigma	`.created`	N/A	Content is parsed for signature data
`.rules[].content`	Tag.Name	N/A	N/A	N/A	Content metadata is parsed for tags
`.rules[].content`	Attribute	<Various Names>	N/A	N/A	Content metadata is parsed for attributes
`.rules[].content`	Indicator.Value	MD5, SHA-1, SHA-256, SHA-512	N/A	N/A	Content metadata is parsed for file hash indicators
`.rules[].entities[].name`	Attack-Pattern.Value	N/A	`.created`	`T1071 - Application Layer Protocol`	Where the entity type is `MitreAttackIdentifier`
`.rules[].entities[].name`	Malware.Value	N/A	`.created`	`CryptBot`	Where the entity type is `Malware`
`.rules[].entities[].name`	Indicator.Value	<Various Types>	`.created`	N/A	Where the entity type is in [`URL`, `InternetDomainName`, `IpAddress`, `FileName`]
`.rules[].entities[].name`	Adversary.Name	N/A	`.created`	`RedMike`	Where the entity type is `Organization`
`.rules[].entities[].name`	Indicator.Value, Vulnerability.Value	CVE	`.created`	`CVE-2025-12345`	Where the entity type is `CyberVulnerability`
`.rules[].entities[].name`	Tag.Name	N/A	N/A	N/A	Where the entity type is `Hashtag`
`.rules[].entities[].name`	Attribute	Affected Product	`.created`	N/A	Where the entity type is `Product`
`.rules[].entities[].name`	Malware.Attribute	Category	`.created`	N/A	Where the entity type is `MalwareCategory`
`.rules[].entities[].name`	Adversary.Attribute	Category	`.created`	N/A	Where the entity type is `CyberThreatActorCategory`
`.rules[].entities[].name`	Attribute	<Various Names>	`.created`	N/A	Where the entity type is a mapped attribute. See the *Entity Attributes Mapping* below.

Entities Attributes Mapping

In the previous table, there is a 'Attribute' that is set dynamically. We do this because the 'Attribute Key' is extracted from the same path `.data.rules[].entities[].name`if the `.data.rules[].entities[].type` is one from the table listed below.

RECORDED FUTURE ATTRIBUTE TYPE	THREATQ ATTRIBUTE TYPE
AttackVector	Attack Vector
Product	Affected Product
Company	Company
City	City
Country	Country
Facility	Facility
FileNameExtension	File Extension
FileType	File Type
GeoEntity	Geo Entity
Industry	Industry
IndustryTerm	Industry Term
Logotype	Logotype
Operation	Operation
OrgEntity	Organization Entity
PhoneNumber	Phone Number
ProvinceOrState	State

RECORDED FUTURE ATTRIBUTE TYPE	THREATQ ATTRIBUTE TYPE
Region	Region
Technology	Technology
Topic	Topic

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.

Recorded Future Domain Risk List

METRIC	RESULT
Run Time	105 minutes
Indicators	92,000
Indicator Attributes	1,133,950

Recorded Future IP Risk List

METRIC	RESULT
Run Time	24 minutes
Indicators	29,600
Indicator Attributes	188,280

Recorded Future URL Risk List

METRIC	RESULT
Run Time	23 minutes

METRIC	RESULT
Indicators	10,653
Indicator Attributes	92,877

Recorded Future Vulnerability Risk

METRIC	RESULT
Run Time	3 minutes
Vulnerabilities	335
Vulnerability Attributes	2,123

Recorded Future Hash Risk List

METRIC	RESULT
Run Time	7 minutes
Indicators	4,500
Indicator Attributes	32,760

Recorded Future Analyst Note

METRIC	RESULT
Run Time	1 minute

METRIC	RESULT
Adversaries	32
Identity	2
Indicators	59
Indicator Attributes	142
Malware	16
Malware Attributes	4
Reports	58
Reports Attributes	623
Vulnerability	33
Vulnerability Attributes	19

Recorded Future Alerts

METRIC	RESULT
Run Time	1 minute
Compromised Accounts	1
Entities	29
Events	13

METRIC	RESULT
Events Attributes	65
Files	15
Indicators	48
Indicator Attributes	151
Malware	6
Malware Attributes	6
Adversary	2
Adversary Attributes	2

Recorded Future Playbook Alerts

METRIC	RESULT
Run Time	1 minute
Events	104
Events Attributes	1,005
Indicators	297
Indicator Attributes	959
Vulnerability	12
Vulnerability Attributes	307
Identity	1
Identity Attributes	4

Recorded Future Fusion Files

METRIC	RESULT
Run Time	11 minutes
Indicators	36,424
Indicator Attributes	74,979
Malware	141
Malware Attributes	143
Vulnerabilities	222
Vulnerability Attributes	222

Recorded Future Detection Rules

METRIC	RESULT
Run Time	1 minute
Signatures	4
Signature Attributes	29
Malware	6
Malware Attributes	4
Indicators	6

METRIC	RESULT
Indicator Attributes	6
Adversaries	2
Attack Patterns	9

Known Issues / Limitations

- The 5 main Recorded Future feeds take progressively longer to complete as more and more lists are specified for the **Recorded Future List** configuration parameter. ThreatQ recommends pulling a targeted subset of lists for each feed instead of all of the available lists.
- If Recorded Future deletes a list, the feed will return an empty response for it.
- The Recorded Future **Analyst Notes** and **Alerts** feeds have an API limit and will only return the first 1,000 results.
- This issue only affects Recorded Future versions 2.8.7 - 2.10.1. Recorded Future CDF 2.8.7 introduced the **All** option for the **List to be Retrieved** configuration parameter with the Recorded Future Domain, Risk List Recorded Future Hash Risk List, Recorded Future IP Risk List, and Recorded Future URL Risk List feeds. There is a known bug where users can select the **All** option and also individual items in the list. Doing will cause the feed to error when run. If you are using the **All** option, you must unselect all other individual items for the **List to be Retrieved** configuration for that feed.

  The List to be Retrieved parameters have been replaced with the optional Risk Rule Triggered parameter with Recorded Future CDF version 2.11.0. The All option is no longer available with this updated parameter.

Change Log

- **Version 2.13.0**
  - Added a new feed: **Recorded Future Detection Rules** that ingests YARA & Suricata Signatures.
  - Recorded Future Fusion Files feed - added a new option, `IP Risk List w/ Geolocation & Malware`, for the **Selected Fusion Feeds** parameter.
  - Added a Recorded Future portal permalink of the Alert or Playbook Alert to the description of ingested Events.
  - Recorded Future Playbook Alerts feed - added a new configuration parameter: **Playbook Category Filter**.
  - Added Alert and Playbook Alert ID attributes to the ingested Events to be compatible with v1.5.0 of the Recorded Future Operation
  - Resolved an issue where an Analyst Note would not display properly in the ThreatQ description.
  - Recorded Future Alerts feed - added the following new configuration parameter: **Ingest Indicator Hits**.
- **Version 2.12.2**
  - Added the `Target` attribute for the events and indicators ingested by the **Recorded Future Playbook Alerts** feed.
  - Added the following configuration parameter for the Recorded Future Playbooks Alerts feed:
    - **Ingest Target Attributes** - enable this parameter to ingest Targets as event attributes and related indicator attributes.
- **Version 2.12.1**
  - Removed a "dummy" parameter that is not required for feed requests.
  - Resolved a filter mapping issue for data with null values.
  - Increased the timeout for the **Recorded Future Alerts** feed to 900.
- **Version 2.12.0**
  - The **Recorded Future Analyst Note** feed will now ingest the `Recorded Future URL` attribute.
  - Added support for the **Compromised Account** and **Entity** custom objects. Both custom objects are now required to be installed on your ThreatQ instance prior to installing or upgrading the integration to v2.12.0+.
  - Added a new configuration parameter to the **Recorded Future Playbook Alerts** feed:
    - **Ingest CVEs As** - allows you to configure how CVEs are ingested into the platform.
  - Added the following new configuration parameters to the **Recorded Future Alerts** feed:
    - **Ingest Emails as Compromised Accounts for these Rules** - allows Email Address entities to be ingested as Compromised Account (account) objects if specific rules are triggered.
    - **Ingest Images as Files Related to Alerts** - determine if the feed should download and ingest images into ThreatQ as Files.
    - **Ingest and Related Triggered By Entities to Alerts** - determine if triggered by entities related objects should be ingested into the platform.

    - URLs in event descriptions are now active/clickable for the **Recorded Future Alerts** feed.
- **Version 2.11.0**
    - Removed the functionality to ingest specific risk list due to the risk's extreme volume.
    - The **List to Be Retrieved** configuration parameter has been replaced with the optional **Risk Rule Triggered** parameter. The Risk Rule Triggered parameter allows you to configure the feed to only ingest indicators that triggered any of the selected risk rules.
- **Version 2.10.1**
    - Resolved an issue where the Analyst Note feed ingested data with undesired text tags.
    - Add the following configuration parameters to all feeds:
        - Enable SSL Verification
        - Disable Proxies
- **Version 2.10.0**
    - All feeds except Alerts, Analyst Note, and Fusion Files: added two new configuration parameters:
        - **Normalize Risk Score** - enable this option to ingest a normalized risk score value as a scorable attribute.
        - **Risk Score Normalization Mapping** - allows you to configure mapping to normalize risk score values to the scorable attribute, `Normalized Risk`.
- **Version 2.9.1**
    - Made the following changes to the Recorded Future Analyst Note feed:
        - Removed the **Ingest Selected Entities as Indicators** configuration option.
        - Added the following new configuration parameters:
            - **Ingest Selected Primary Entities as Indicators** - indicators of compromise from the "primary" entities list (note_entities) can now be ingested as indicator objects. Email Addresses from the "primary" entities list can now be ingested as indicators. Context (i.e. Malware, Adversaries, Attributes, & Attack Patterns) from the "primary" entities list will now be applied to the indicators of compromise from the "primary" entities list.
            - **Ingest Selected Supporting Entities as Indicators** - indicators from the "supporting" entities list (context_entities) can now be ingested as indicator objects. Identities (Email Addresses) will now only be ingested from the "supporting" entities list
        - "Product" entities will only be brought in as the "Affected Product" attribute when a vulnerability is associated. Otherwise, the attribute name will just be, "Product".
        - Fixes issue where reference URLs in the description would have a `url:` prefix.
        - Topics are now ingested as tags.
- **Version 2.9.0**
    - The Recorded Future Analyst Note feed has been rewritten. Changes with the new feed include:
        - Reports are now ingested with a rich text description (HTML).
        - Full lists of entities, recommended queries, topics, authors, and metadata are now included in the feed.
        - References have been moved from the attributes section to the description.
        - `EmailAddress` entities are now extracted and related as Identity objects.
        - **`InternetDomainName`, `IpAddress`, and `Hash` entities will now only be extracted and ingested as indicators if you elect to do so - which is not advised.**

        - `Organization` entities are now filtered before being related as adversaries. This change is to prevent benign organizations from being related.
        - You can now choose to ingest CVEs as Vulnerability (default) or Indicator objects.
        - `Hashtag` entities are now extracted and added as tags to reports.
        - `Product` entity attribute has been renamed to `Affected Product` to be more consistent with other feeds.
        - Analyst notes are no longer inherited to related object's descriptions.
        - Default Indicator status is now `Review`.
    - Performed the following updates to the **Risk Lists** feeds:
        - Added a new user field: **Filter Out Entries with No New Evidence**. This allows you to filter out indicators that do not have any new evidence within the feed run timeframe and will help limit the amount of indicators that the feeds ingest, improving overall system performance. You can perform a historical manual run to ingest the full list of indicators.
    - Performed the following updates to the **Recorded Future Playbook Alerts** feed:
        - Updated the default indicator status to `Review`.
        - Added enhanced Event Title and Description.
            - Events now include the category, priority, and criticality as part of the ingested Event Title.
            - Events now include a rich text description with context such as targets, assessments & WHOIS information
        - Added support for ingesting additional alert types & context data:
            - Cyber Vulnerabilities
            - Third Party Risks
            - Code Repo Leakages
        - `Domain Abuse` alerts now include WHOIS information.
        - Renamed the `Organisation` attribute to the more common, `Organization` spelling.
        - The `category` attribute will now reflect the `case_rule_label` value, rather than the more programmatic `category` value from the initial feed response.
        - Added better handling of shared attributes between the offending entity and event alert.
        - Malware Families are now parsed out from assessment results (if available).
        - Assets (Client IPs) are now parsed out from assessment results (if available).
    - Performed the following updates to the **Recorded Future Alerts** feed:
        - Alerts will now be ingested with a rich description containing a "Hits" table with the triggered entities and their respective documents.
        - This feed will no longer ingest document URLs as indicators.
        - This feed will only ingest CVEs (if enabled) and Hashes as indicators from the relevant document entities.
        - InternetDomainNames, URLs, IP Addresses, etc. have been removed as they are likely to be benign.
        - You'll will now be able to see the entities within the description of the event/alert.
        - Document entities will now be related to the event/alert.
        - The `Triggered Rule URL` attribute has been removed as it is no longer relevant.
        - Added `Logotype` as an extracted attribute.
        - Moved the `Reference URL` attribute to the event description.

        - Updated the default indicator status to Review.
        - Removed ability to add "Person" entities as related adversaries.
        - Added filtering of the Organization entities to prevent adding benign organizations as related adversaries.
        - Resolved an issue where the feed would ingest MITRE Technique IDs that do not align with existing MITRE Attack Patterns within the system.
    - Added a new feed: **Recorded Future Fusion Files**.
- **Version 2.8.7**
    - Added an **All** option to the **List to be Retrieved** parameter for the following feeds:

      Feed runs will typically complete within 40 minutes using this option so it is advised to schedule run times no more frequently than one hour.

        - Recorded Future Domain Risk List
        - Recorded Future Hash Risk List
        - Recorded Future IP Risk List
        - Recorded Future URL Risk List
    - Added new Known Issue regarding the **All** option for the **List to be Retrieved** parameter. If utilizing the **All** option, all other items in the **List to be Retrieved** parameter must be unselected. Attempting to run a feed with the **All** and other items in the list selected will cause the feed to fail.
    - Added a new attribute for the Recorded Future playbook Alerts feed: `Context data`.
    - Added `Target Entities` for related entities in the Recorded Future Alerts feed.
- **Version 2.8.6**
    - Performed optimization improvements for all feeds that contain the Risk List in their name in a effort to reduce the possibility of timeout errors.
- **Version 2.8.5**
    - Resolved a timeout error that was caused by large evidence details.
    - Removed the following no longer supported lists from Recorded Future Domain Risk List:
        - `Historical Malware Analysis DNS Name`
        - `Recent Malware Analysis DNS Name`
    - Added the following new lists to Recorded Future Domain Risk List:
        - `Frequently Abused Free DNS Provider`
        - `Historically Suspected Malware Operation`
        - `Recently Suspected Malware Operation`
        - `Recent Cryptocurrency Mining Pool`
    - Added the following new lists to Recorded Future IP Risk List
        - `Historical Malicious Infrastructure Admin Server`
        - `Recent Malicious Infrastructure Admin Server`
    - Added the following new lists to Recorded Future URL Risk List
        - `Historically Suspected Malware Distribution`
        - `Recently Suspected Malware Distribution`
        - `Recent Reported C&C URL`
        - `Historical Reported C&C URL`
- **Version 2.8.4**

  - Commonly updated attributes, such as attributes that involve timestamps and criticality, will now be updated when ingesting new data as opposed to creating duplicate attributes. See the Mapping Tables of each feed for details.
- **Version 2.8.3**
  - Introduced a results limitation for the **Recorded Future Analyst Note** feed to resolve an offset issue.
  - Added the following new **Topic** configuration options for the **Recorded Future Analyst Note** feed:
    - Geopolitical Intelligence Summary
    - Geopolitical Flash Event
    - Geopolitical Threat Forecast
    - Geopolitical Validated Event
    - Insikt Research Lead
    - Regular Vendor Vulnerability Disclosures
    - Sigma Rule
    - The Record by Recorded Future
  - Added a new issue to the **Known Issues / Limitations** chapter regarding the API limit for the Analyst Notes and Alerts feeds.
- **Version 2.8.2**
  - Improved the **Recorded Future Alerts** feed to ingest more information regarding alerts.
    - Added new configuration field for the feed: **Save CVE Data As**.
    - Guide Update - updated Recorded Future Alerts sample response, default mapping table, Related Indicator Type mapping, and added a new Related Indicator Attributes mapping entry.
- **Version 2.8.1**
  - Updated the Recorded Future Alerts endpoint to API version 3.
  - Removed support from the following problematic lists:
    - Positive Malware Verdict
    - Historical Ransomware Distribution URL
    - Recent Ransomware Distribution URL
- **Version 2.8.0**
  - The integration now synchronizes Risk lists.
- **Version 2.7.0**
  - Added a new feed: Recorded Future Playbook Alerts.
  - Added the ability to filter by minimum risk score for the Risk List feeds (Recorded Future Domain Risk List, Recorded Future IP Risk List, Recorded Future URL Risk List, Recorded Future Vulnerability Risk List and Recorded Future Hash Risk List).
  - Added the ability to select the hash types that are ingested by the Recorded Future Hash Risk List, Recorded Future Analyst Note, and Recorded Future Alerts feeds.
  - Added the ability to ingest SHA-1 indicators.
- **Version 2.6.2**
  - Synchronized the Risk lists for the Risk List feeds to match option updates that Recorded Future performed.
  - Added time constrained data ingestion for all feeds so manual runs can be performed. Previously, the manual run option was only supported by the Analyst Note feed.
- **Version 2.6.1**
  - Fixed a parsing error that would occur when no evidence details are provided.

- **Version 2.6.0**
  - Removed lists from Recorded Future Domain Risk List feed:
    - Ransomware Distribution URL
    - Ransomware Payment DNS Name
  - Removed lists from Recorded Future Vulnerability Risk feed:
    - Observed Exploit/Tool Development in the Wild
    - Historically Observed Exploit/Tool Development in the Wild
- **Version 2.5.0**
  - Refactored Recorded Future Feeds (aside from Analyst Note).
  - Fixed a bug that caused an Error applying FilterMapping error from the URL Risk List and other similar feeds.
  - Removed lists that are no longer support that would cause the feed to throw a 404 error. Lists removed include:
    - Recorded Future Domain Risk List:
      - C&C URL
    - Recorded Future URL Risk List:
      - C&C
      - Compromised URL
      - Historically Detected Malicious Browser Exploits
      - Recently Detected Malicious Browser Exploits
      - Recently Detected Suspicious Content
      - Historically Detected Suspicious Content
    - Recorded Future Vulnerability Risk List:
      - Recently Observed Exploit/Tool Development in the Wild
- **Version 2.4.1**
  - Fixed a parsing error with Analyst Note.
- **Version 2.4.0**
  - Added Alert details
- **Version 2.3.0**
  - Added support for MITRE Attack Pattern Sub-Techniques
  - Added 'Save CVE Data As' user configuration parameter for Recorded Future Vulnerability Risk List
- **Version 2.2.0**
  - Added support to multiple selection for list
  - Fixed issue with MITRE map
- **Version 2.1.0**
  - Added support for configuration list in the request
- **Version 2.0.1**
  - Fixed issue with attributes
- **Version 2.0.0**
  - Added Analyst Note Integration
- **Version 1.0.0**
  - Initial release