

ThreatQuotient



Recorded Future CDF Guide

Version 2.4.1

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ThreatQuotient

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Versioning

- Current integration version: 2.4.1
- Supported on ThreatQ versions $\geq$ 4.34.0

Introduction

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

- Domain Risk List
- IP Risk List
- URL Risk List
- Vulnerability Risk List
- Hash Risk List
- Analyst Note
- Alerts

Installation

Perform the following steps to install the integration:



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

1. Log into <https://marketplace.threatq.com/>.
2. Locate and download the integration file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the integration file on your local machine



ThreatQ will inform you if the feed already exists on the platform and will require user confirmation before proceeding. ThreatQ will also inform you if the new version of the feed contains changes to the user configuration. The new user configurations will overwrite the existing ones for the feed and will require user confirmation before proceeding.

6. If prompted, select the individual feeds to install and click **Install**. The feed will be added to the integrations page.

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

Configuration



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

To configure the feed:

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 to open its details page.
4. Enter the following parameters under the **Configuration** tab:



All Recorded Future feeds, with the exception of Recorded Future Analyst Note, Vulnerability List, and Alerts, require the following configuration parameters. See the separate accompanying tables for the [Recorded Future Analyst Note](#), [Vulnerability List](#), and [Alerts](#)' configuration parameters.

PARAMETER	DESCRIPTION
Recorded Future API Key	API Key to be used in HTTP headers for accessing feed data.
Recorded Future List	A string to search for notes by entity ID.

Recorded Future Vulnerability Risk List

PARAMETER	DESCRIPTION
Recorded Future API Key	API Key to be used in HTTP headers for accessing feed data.

Recorded Future List

Specific Recorded Future lists to be retrieved.

Save CVE Data As

Select whether to ingest CVEs as:

- ThreatQ Vulnerability objects
- Indicator objects
- both



The default setting is to ingest Indicators objects.

Recorded Future Analyst Note

PARAMETER	DESCRIPTION
Recorded Future API Key	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
- Geopolitics
- Hunting Package
- Indicator
- Informational
- Malware/Tool Profile
- SNORT Rule
- Source Profile
- 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

Tagged Text

Select whether the text should contain tags or not.

Possible values:

- True
- False

Limit	Maximum number of records per request. This will be used in the pagination.
--------------	---

Recorded Future Alerts

PARAMETER	DESCRIPTION
Recorded Future API Key	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 the 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.

5. Review the **Settings** configuration, 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

Domain Risk List

The data on this feed comes in form of a CSV list. The first token is the actual risk data (domain) and the last token (*EvidenceDetails*) contains further evidence. This token is a JSON array of dictionaries. Example data is shown below. For better visual display, it is formatted and escaping characters are removed.

GET <https://api.recordedfuture.com/v2/domain/risklist>

CSV response sample:

```
'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. Most recent link (Apr 4, 2015): https://
www.virustotal.com/file/5b7b6e9f9cac22ec0f0c6f79093cb40ca04485e4b09d4a73efbab4b3388c5a62/analysis/',
      'Timestamp': '2015-04-04T00:00:00.000Z',
      'Criticality': 1,
      'MitigationString':
    },
    {
      '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,
      'MitigationString':
    },
    {
      '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,
      'MitigationString':
    }
  ]
}"
```

ThreatQ provides the following default mapping for this feed. The mapping summarizes how the information from each field from the feed is converted to ThreatQ objects.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	FQDN		ns513726.ip-192-99-148.net	This indicator does not have a Timestamp
1 (second token)	Indicator.Attribute	Risk Score		66	
2 (third token)	Indicator.Attribute	Risk String		2/32	
3 (fourth token) [].CriticalityLabel	Indicator.Attribute	Criticality	Timestamp	Suspicious	Timestamp of <i>this</i> array element
3 (fourth token) [].Rule	Indicator.Attribute	Associated Rule	Timestamp	Blacklisted DNS Name	Timestamp of <i>this</i> array element
3 (fourth token) [].EvidenceString	Indicator.Attribute	Evidence	Timestamp		Timestamp of <i>this</i> array element

IP Risk List

Similar to the above feed, this feed gets IP addresses as indicators. The data and mapping is as shown below.

GET <https://api.recordedfuture.com/v2/ip/risklist>

CSV response sample:

```
'5.120.187.119", '65', '1/49',
"{'EvidenceDetails':
  [
    {
      'CriticalityLabel': 'Malicious',
      'Rule': 'Recent Positive Malware Verdict',
      'EvidenceString': '1 sighting on 1 source: ReversingLabs. Most recent link (Nov 22, 2018): https://
a1000.reversinglabs.com/accounts/login/?next=/
%3Fq%3Df600b62dc91602e2279364268d9cafca3c8d15de7871150883f9e083079e0e12',
      'Timestamp': '2018-11-22T00:00:00.000Z',
      'Criticality': 3,
      'MitigationString':
    }
  ]
}"
```

ThreatQ provides the following default mapping for this feed. The mapping summarizes how the information from each field from the feed is converted to ThreatQ objects.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	IP Address		5.120.187.119	This indicator does not have a Timestamp
1 (second token)	Indicator.Attribute	Risk Score		65	
2 (third token)	Indicator.Attribute	Risk String		1/49	

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
3 (fourth token) [].CriticalityLabel	Indicator.Attribute	Criticality	Timestamp	Malicious	Timestamp of <i>this</i> array element
3 (fourth token) [].Rule	Indicator.Attribute	Associated Rule	Timestamp	Recent Positive Malware Verdict	Timestamp of <i>this</i> array element
3 (fourth token) [].EvidenceString	Indicator.Attribute	Evidence	Timestamp		Timestamp of <i>this</i> array element

URL Risk List

Similar to the above feeds, this feed gets URLs as indicators. The data and mapping is as shown below:

GET <https://api.recordedfuture.com/v2/url/risklist>

CSV response sample:

```
'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
    }
  ]
}"
```

ThreatQ provides the following default mapping for this feed. The mapping summarizes how the information from each field from the feed is converted to ThreatQ objects.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	URL		http://handle.booktobi.com/css/index.html	This indicator does not have a Timestamp
1 (second token)	Indicator.Attribute	Risk Score		65	
2 (third token)	Indicator.Attribute	Risk String		1/7	
3 (fourth token) [].CriticalityLabel	Indicator.Attribute	Criticality	Timestamp	Malicious	Timestamp of <i>this</i> array element
3 (fourth token) [].Rule	Indicator.Attribute	Associated Rule	Timestamp	Active Phishing URL	Timestamp of <i>this</i> array element
3 (fourth token) [].EvidenceString	Indicator.Attribute	Evidence	Timestamp		Timestamp of <i>this</i> array element

Vulnerability Risk List

Similar to the above feeds, this feed gets CVEs as indicators. The data and mapping is as shown below:

GET <https://api.recordedfuture.com/v2/vulnerability/risklist>

CSV response sample:

```
'CVE-2018-0802', '89', '11/18',
'{"EvidenceDetails":
[
{
'CriticalityLabel': 'Low',
'Rule': 'Linked to Historical Cyber Exploit',
'EvidenceString': '4281 sightings on 351 sources including: YourThailandNet, @Alchemic_SH,
@jasongoril, JLCW, @TopSecurityVids. Most recent tweet: \"\"RT oss_py: rtf_11882_0802 - PoC for CVE-2018-0802 And
CVE-2017-11882 https://t.co/dAZajuMuGy\"\". Most recent link (Nov 14, 2018): https://twitter.com/securisec/statuses/
1062835440519184384',
'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. Most recent tweet: Cyber Security Today |
Exploited VulnerabilitiesCVE-2017-11882 Hits: 17 | Related: SHA-256, ReversingLabs, CVE-2017-8570, CVE-2018-0802
CVE-2017-15944 Hits: 15 | Related: Palo Alto Networks, PAN-OS, Metasploit Framework, Remote Root CVE-2018-6789 Hits:
12...https://t.co/XizgvBjegT. Most recent link (May 7, 2018): https://twitter.com/DTechCloud/statuses/
993589156788998144',
'Timestamp': '2018-05-07T20:31:29.000Z', 'Criticality': 1
},
]
}"
```

ThreatQ provides the following default mapping for this feed. The mapping summarizes how the information from each field from the feed is converted to ThreatQ objects.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	CVE		CVE-2018-0802	This indicator does not have a Timestamp
0 (first token)	Vulnerability.Value	N/A		CVE-2018-0802	This indicator does not have a Timestamp
1 (second token)	Indicator.Attribute/ Vulnerability.Attribute	Risk Score		89	
2 (third token)	Indicator.Attribute/ Vulnerability.Attribute	Risk String		11/18	
3 (fourth token) [].CriticalityLabel	Indicator.Attribute/ Vulnerability.Attribute	Criticality	Timestamp	Low	Timestamp of <i>this</i> array element
3 (fourth token) [].Rule	Indicator.Attribute/ Vulnerability.Attribute	Associated Rule	Linked to Historical Cyber Exploit	Timestamp of <i>this</i> array element	

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
3 (fourth token) [].EvidenceString	Indicator.Attribute/ Vulnerability.Attribute	Evidence	Timestamp		Timestamp of <i>this</i> array element

Hash Risk List

Similar to the above feeds, this feed gets Hashes as indicators. There is one difference with this feed: it brings in an additional field *algorithm*, which indicates the hash type (MD5, SHA1, or SHA256). The data and mapping is as shown below:

GET <https://api.recordedfuture.com/v2/hash/risklist>

CSV response sample:

```
'ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa', 'SHA-256', '89', '4/10',
"{'EvidenceDetails':
  [
    {
      'CriticalityLabel': 'Unusual',
      'Rule': 'Threat Researcher',
      'EvidenceString': '21 sightings on 9 sources including: Security Affairs, SecureWorks, Cylance Blog,
McAfee, Trend Micro. Most recent link (Jan 28, 2018): https://www.cylance.com/content/cylance/ja_jp/blog/jp-threat-spotlight-wannacry-ransomware.html',
      'Timestamp': '2018-01-28T11:24:35.942Z',
      'Criticality': 1.0
    },
    {
      'CriticalityLabel': 'Suspicious',
      'Rule': 'Linked to Vulnerability',
      'EvidenceString': '5 sightings on 2 sources: fb.me, comae.io. 3 related cyber vulnerabilities:
MS17-010, CWE-20, CVE-2017-0148. Most recent link (Aug 8, 2017): https://fb.me/8IiLKtP82',
      'Timestamp': '2017-08-08T14:10:11.410Z',
      'Criticality': 2
    },
    {
      'CriticalityLabel': 'Suspicious',
      'Rule': 'Linked to Malware',
      'EvidenceString': 'Previous sightings on 36 sources including: SecureWorks, blog_trendmicro_co_jp,
Facebook, Security Affairs, GitHub. 81 related malwares including Trojan.Win32.Wanna.u!c, W97M.Downloader,
Win32:WanaCry-A [Trj], malicious_confidence_100% (W), Trojan.Filecoder!LcLqIleM+lA. Most recent tweet: Please lock
out this file hash sha256: ed01ebfbc9eb5bbea545af4d01bf5fxxxxxxxxxxxxxxxxxc6e5babe8e080e41aa #Ransomware. Most recent
link (May 12, 2017): https://twitter.com/SoftcatSecurity/statuses/863056045941415936',
      'Timestamp': '2017-05-12T15:39:30.000Z',
      'Criticality': 2
    }
  ]
}"
```

ThreatQ provides the following default mapping for this feed. The mapping summarizes how the information from each field from the feed is converted to ThreatQ objects.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
0 (first token)	Indicator.Value	MD5		00d48afbba5ef9eadb572730b2d0cafa	This indicator does not have a Timestamp If algorithm (second token) == MD5
0 (first token)	Indicator.Value	SHA-1		002e3d9dd841dd36c7b434eee0e3416f0860b83a	This indicator does not have a Timestamp If algorithm (second token) == SHA-1
0 (first token)	Indicator.Value	SHA-256		ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa	This indicator does not have a Timestamp If algorithm (second token) == SHA-256
2 (third token)	Indicator.Attribute	Risk Score		89	
3 (fourth token)	Indicator.Attribute	Risk String		4/10	
4 (fifth token) [].CriticalityLabel	Indicator.Attribute	Criticality	Timestamp	Suspicious	Timestamp of <i>this</i> array element
5 (fifth token) [].Rule	Indicator.Attribute	Associated Rule	Timestamp	Linked to Malware	Timestamp of <i>this</i> array element
6 (fifth token) [].EvidenceString	Indicator.Attribute	Evidence	Timestamp		Timestamp of <i>this</i> array element

Analyst Note

This feed gets Reports, Indicators and Attack Patterns. The data sample and mapping are below:

GET <https://api.recordedfuture.com/v2/analystnote/search>

JSON response sample:

```
{
  "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": "J6Uzb0",
      "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": "culWGK"
}
]
},
"counts": {
  "returned": 10,
  "total": 19216
}
}

```

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"	
.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"	
.data.results[].source.name	Report.Attribute	Recorded Future Source	"Insikt Group"	
.data.results[].attributes.topic[].name	Report.Attribute	Topic Name	"Flash Report"	
.data.results[].attributes.validated_on	Report.Attribute	Validated On	"2020-02-06T06:59:32.784Z"	
.data.results[].attributes.context_entities				*See entities mapping
.data.results[].attributes.note_entities				*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:

JSON response sample:

```
"context_entities": [
  {
    "id": "J6Uzb0",
    "name": "Bleeping Computer",
    "type": "Source"
    "description": "some description"
  }
]

indicator_type_map:
  IPAddress: IP Address
  URL: URL
  CyberVulnerability: CVE
```

From now on, we 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
.value	Report.Attribute	.name	"Bleeping Computer"	
.text	Report.Attribute	.description	"some description"	
.name	Indicator.Value	Indicator	"Bleeping Computer"	
.type	Indicator.Type	.name	"Ip Address"	The value for this will be <code>indicator_type_map[.type]</code> if it exists there. If the value is <code>Hash</code> , the value length will be analysed and based on it it will be either <code>MD5</code> or <code>SHA-256</code> .
.description	Indicator.Attribute	Description	"some description"	
See note	Indicator.Attribute	Analyst Note	"some description"	
.name	Attack_pattern.Value	Attack Pattern	"T1001 - Data Obfuscation"	The value for the Attack Pattern objects is generated based on the ingested name and the values of already ingested MITRE attack patterns (by MITRE ATT&CK feeds). If the ingested name is 'T1001', the value will be 'T1001 - Data Obfuscation'.
.description	Attack_pattern.Attribute	Entity Description	"some description"	
See note	Attack_pattern.Attribute	Analyst Note	"some description"	

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.name	Malware.Value	Malware	"Bleeping Computer"	
.description	Malware.Attribute	Entity Description	"some description"	
See note	Malware.Attribute	Analyst Note	"some description"	



The 'Analyst Note' attribute inherits its value from the parent report's description.

Alerts

GET <https://api.recordedfuture.com/v2/alert/search>

JSON response sample:

```
{
  "data": {
    "results": [
      {
        "review": {
          "assignee": null,
          "noteAuthor": null,
          "note": null,
          "status": "no-action",
          "noteDate": null
        },
        "url": "https://app.recordedfuture.com/live/sc/notification/?id=eWnL8e",
        "rule": {
          "url": "https://app.recordedfuture.com/live/sc/ViewIdkobra_view_report_item_alert_editor?view_opts=%7B%22reportId%22%3A%22dpNEJw%22%2C%22bTitle%22%3Atrue%2C%22title%22%3A%22Possible+Fraud+related+to+COVID-19%22%7D&state.bNavbar=false",
          "name": "Possible Fraud related to COVID-19",
          "id": "dpNEJw"
        },
        "triggered": "2020-06-28T10:09:31.681Z",
        "id": "eWnL8e",
        "title": "Possible Fraud related to COVID-19 - New references in 18 documents",
        "type": "REFERENCE"
      }
    ]
  },
  "counts": {
    "returned": 1,
    "total": 63
  }
}
```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES
.data.results[].title	Event.Title	N/A	.data.results[].review.noteDate / .data.results[].triggered	Possible Fraud related to COVID-19 - New references in 18 documents
.data.results[].triggered	Event.Happened_at	N/A	N/A	2020-06-28 10:09:31-00:00
.data.results[].review.note	Event.Description	N/A	N/A	This is an event that was created today
.data.results[].review.assignee	Event.Attribute	Assignee	.data.results[].review.noteDate / .data.results[].triggered	joe@gmail.com
.data.results[].review.noteAuthor	Event.Attribute	Note Author	.data.results[].review.noteDate / .data.results[].triggered	Joe
.data.results[].review.status	Event.Attribute	Alert Status	.data.results[].review.noteDate / .data.results[].triggered	no-action
.data.results[].url	Event.Attribute	Reference URL	.data.results[].review.noteDate / .data.results[].triggered	https://app.recordedfuture.com/live/sc/notification/?id=eWnL8e
.data.results[].rule.url	Event.Attribute	Triggered Rule URL	.data.results[].review.noteDate / .data.results[].triggered	https://app.recordedfuture.com/live/sc/ViewIdkobra_view_report_item_alert_editor?view_opts=%7B%22reportId%22%3A%22dpNEJw%22%2C%22bTitle%22%3Atrue%2C%22title%22%3A%22Possible+Fraud+related+to+COVID-19%22%7D&state.bNavbar=fal
.data.results[].rule.name	Event.Attribute	Triggered Rule Name	.data.results[].review.noteDate / .data.results[].triggered	Possible Fraud related to COVID-19
.data.results[].type	Event.Attribute	Alert Type	.data.results[].review.noteDate / .data.results[].triggered	REFERENCE

Alert Details (Supplemental)

This is used to fetch related data for each of the ingested events retrieved from the Alert endpoint. The JSON Key 'data.results[].id' is used to call the supplemental feed.

GET <https://api.recordedfuture.com/v2/alert/{id}>

JSON response sample:

```
{
  "data": {
    "review": {
      "assignee": null,
      "noteAuthor": null,
      "note": null,

```

```
    "status": "no-action",
    "noteDate": null
  },
  "entities": [
    {
      "entity": null,
      "risk": {},
      "trend": {},
      "documents": [
        {
          "references": [
            {
              "fragment": "https://www.youtube.com/watch?v=hXm",
              "entities": [
                {
                  "id": "url:https://www.google.com/sorry/index?continue=https://www.youtube.com/watch%3Fv%3DhXm&q=EgQ2xjflGKXbq_kFIhKA8aeDSwvdzIPWTTJyonXEKu0LsTYQsIHKMgFy",
                  "name": "https://www.google.com/sorry/index?continue=https://www.youtube.com/watch%3Fv%3DhXm&q=EgQ2xjflGKXbq_kFIhKA8aeDSwvdzIPWTTJyonXEKu0LsTYQsIHKMgFy",
                  "type": "URL"
                }
              ],
              "language": "eng"
            }
          ],
          "source": {
            "id": "a0-Mp5",
            "name": "4chan Pol Forum",
            "type": "Source"
          },
          "url": "https://boards.4chan.org/pol/thread/274300558",
          "title": "be-european"
        }
      ],
      "type": "Source"
    },
    {
      "url": "https://app.recordedfuture.com/live/sc/notification/?id=fDC4dx",
      "rule": {
        "url": "https://app.recordedfuture.com/live/sc/ViewIdkobra_view_report_item_alert_editor?view_opts=%7B%22reportId%22%3A%22ezLL1S%22%2C%22bTitle%22%3Atrue%2C%22title%22%3A%22Domains+on+Non-Mainstream+Sources%22%7D&state.bNavbar=false",
        "name": "Domains on Non-Mainstream Sources",
        "id": "ezLL1S"
      },
      "triggered": "2020-08-26T12:46:03.135Z",
      "id": "fDC4dx",
      "counts": {
        "references": 10,
        "entities": 0,
        "documents": 9
      },
      "title": "Domains on Non-Mainstream Sources - New references in 9 documents",
      "type": "EVENT"
    }
  ]
}
```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data.results[].url	Related.Indicator	URL	.data.results[].review.noteDate / .data.results[].triggered	https://boards.4chan.org/pol/thread/280936775	Ingested as indicator if 'www.virustotal.com' not in .url
.data.results[].url	Related.Indicator.Attribute	URL	.data.results[].review.noteDate / .data.results[].triggered	https://www.virustotal.com/gui/url/b8a9468323b46d6058dbcc1598aad13fc9a331d4d9f5f4912ae43b55776bfc75	Ingested as attribute if 'www.virustotal.com' in .url
.data.results[].documents[].references[].fragment	Related.Indicator.Attribute	Fragment	.data.results[].review.noteDate / .data.results[].triggered	https://www.youtube.com/watch?v=hXm	N/A
.data.results[].documents[].references[].language	Related.Indicator.Attribute	Language	.data.results[].review.noteDate / .data.results[].triggered	eng	N/A
.data.results[].documents[].references[].entities[].name	Related.Indicator	data.results[].documents[].references[].entities[].type	.data.results[].review.noteDate / .data.results[].triggered	https://www.google.com/sorry/index?continue	See note



In the previous table, there is a 'Related Indicator' that is set dynamically. We do this because the 'ThreatQ Object Type' is extracted from the same path '.data.results[].documents[].references[].entities[].type'.

Related Indicator Type Mapping

RECORDED FUTURE INDICATOR TYPE	THREATQ INDICATOR TYPE	NOTES
InternetDomainName	FQDN	
URL	URL	
Hash	MD5	If the length of the hash value is 32 characters
Hash	SHA-256	If the length of the hash value is not 32 characters. This is the only other hash type returned by the Alert Details endpoint

Average Feed Runs



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	1 minute
Indicators	156
Indicator Attributes	1352

Recorded Future IP Risk List

METRIC	RESULT
Run Time	1 minute
Indicators	1
Indicator Attributes	13

Recorded Future URL Risk List

METRIC	RESULT
Run Time	1 minute
Indicators	109

METRIC	RESULT
Indicator Attributes	1675

Recorded Future Vulnerability Risk List

METRIC	RESULT
Run Time	1 minute
Indicators	3
Indicator Attributes	59

Recorded Future Hash Risk List

METRIC	RESULT
Run Time	1 day
Indicators	266171
Indicator Attributes	184614

Recorded Future Analyst Note

METRIC	RESULT
Run Time	2 minutes
Indicators	113
Indicator Attributes	732

METRIC	RESULT
Malware	24
Malware Attributes	131
Reports	19
Reports Attributes	335

Recorded Future Alerts

METRIC	RESULT
Run Time	15 minutes
Events	997
Events Attributes	4985
Indicators	6861
Indicator Attributes	41747

Known Issues/Limitations

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

Change Log

- **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