ThreatQuotient

Intel 471 Alerts CDF Guide

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

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

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

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

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

Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.2.1
Compatible with ThreatQ Versions	>= 4.30.0
Support Tier	ThreatQ Supported
ThreatQ Marketplace	https://marketplace.threatq.com/details/intel471-alerts-and-watcher-groups

Introduction

The Intel471 Alerts CDF ingests events, indicators, reports, adversaries, vulnerabilities, malware and tags from Intel471 TITAN API.

The integration includes the following feeds:

- **Intel471 Alerts** - returns a list of Alerts and related information.
- **Intel471 Get Report by ID - supplemental -** returns threat data using the `.alerts[].report.id` from the Intel471 Alerts feed as the reportId parameter.
- **Intel471 Get Watcher Group Name - supplemental -** returns threat data using the `.alerts[].watcherGroupUid` from the Intel471 Alerts feed as the groupId parameter.

The integration ingests the following system objects:

- Indicators
- Events
- Reports
- Adversaries
- Tags
- Vulnerabilities
- Identities
- Malware

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 integration-related credentials.

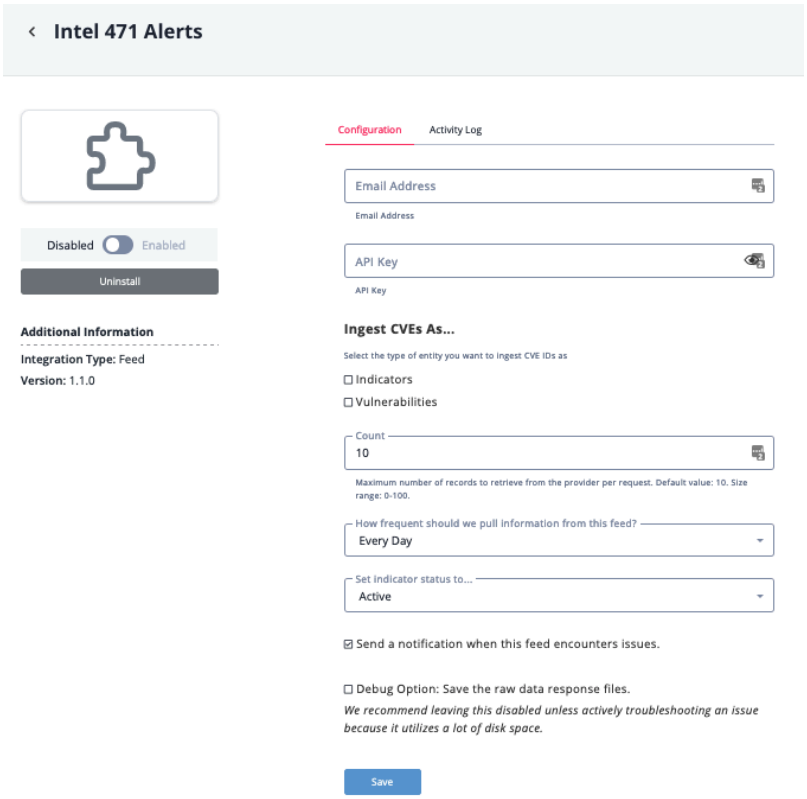
To configure the integration:

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

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

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

PARAMETER	DESCRIPTION
Email Address	Your Intel471 account email address.
API Key	Your Intel471 Account API Key.
Ingest CVEs As	Select whether to ingest CVE IDs as indicators, vulnerabilities, or both. The indicators option is selected by default.
Count	The maximum number of records to retrieve from the provider per request. The value range is 0-100. The default setting is 10.



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

Intel471 Alerts

The Intel471 Alerts endpoint returns a list of Alerts and related information.

```
GET - https://api.intel471.com/v1/alerts
```

Sample Response:

```
{
  "alertTotalCount": 133,
  "alerts": [
    {
      "uid": "6216e6d855075802a8c0a936",
      "status": "unread",
      "watcherUid": "d590d398ac5906d93428d6fd2e589f9f",
      "watcherGroupUid": "7892e0cb-8c1b-42b9-b91d-9f9e73593082",
      "foundTime": 1645668056389,
      ...
    }
  ]
}
```

An `Alert` event will be created for each item in the list and will be described below.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
N/A	event.title	Alert	.alerts[].foundtime	Intel 471 Alert 1497446972076"	View title format below
.alerts[].uid	event.attribute	UID	.alerts[].foundtime	59413a3c441d6663bf8795bb"	N/A
.alerts[].status	event.attribute	Status	.alerts[].foundtime	unread	N/A
.alerts[].uid	event.attribute	Watcher Group Name	.alerts[].foundtime	testG	Details in `Get Watcher Group Name` supplemental feed section

The Title is created by concatenating the following:

- Intel 471 Alert `.uid`
- `['Forum: ' + .post.links.forum.name]` if `.post` and `forum` are present
- `['Type: Private Message']` if `.privateMessage` is present
- `['Type: Post']` if `.post` is present
- `['Type: Instant Message']` if `.privateMessage` is present

- `['Vulnerable Product: ' + value.cveReport.data.cve_report.product_name]` if `.cveReport` is present
- `['Risk: ' + value.cveReport.data.cve_report.risk_level]` if `.cveReport` is present
- `['Type: Spot Report']` if `.spotReport` is present
- `['Type: Breach Alert']` if `.breachAlert` is present

Each alert can contain one of the following objects, which will be detailed in the following sections:

- actor
- report
- post
- privateMessage
- entity
- event
- indicator
- cveReport
- spotReport
- instantMessage
- credential
- breachAlert

All entities created based of those objects will be detailed in the sections below.

actor

Sample Response:

```
{
  "alertTotalCount": 112,
  "alerts": [
    {
      "uid": "014f7a860a14924b5cb74eeb",
      "status": "unread",
      "watcherGroupUid": "a087c78d-8997-436a-9cb2-b7ccd3de7419",
      "foundTime": 1649375878316,
      "actor": {
        "lastUpdated": 1649367894186,
        "handles": [
          "carter"
        ],
        "links": {
          "forumTotalCount": 0,
```

```
          "instantMessageChannelTotalCount": 3,
          "forumPrivateMessageTotalCount": 0,
          "reportTotalCount": 1,
          "reports": [
            {
              "subject": "Conti ransomware group's information technology team examined",
              "released": 1649367885000,
              "actorHandle": "carter",
              "motivation": [
                "CC"
              ],
              "portalReportUrl": "https://titan.intel471.com/report/inforep/9d6d955d3e94c5a5b0aeb392c3f351ca",
              "uid": "b7e50f1bae213e247505c67f67689815e8e024dc11161e8f7a2eb5f03e9beb9f",
              "sourceCharacterization": "Information was derived from the Conti ransomware gang\u2019s leaked data,
our actors\u2019 database and open sources.",
              "admiraltyCode": "F3",
              "dateOfInformation": 1648944000000
            }
          ],
          "instantMessageTotalCount": 0,
          "instantMessageServerTotalCount": 4,
          "forumPostTotalCount": 0
        },
        "uid": "3ace6bad392acc4d295727017ac5583d"
      },
      "highlights": []
    }
  ]
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].actor.handles[]	Adversary.Name	N/A	.alerts[].actor.activeFrom	carter	N/A
.alerts[].actor.handles[]	Adversary.Attribute	Intel471 Actor Link	.alerts[].actor.activeFrom	carter	Formatted as `https://titan.intel471.com/search/Actor:{{.alerts[].actor.handles[]}}`
.alerts[].actor.links.forumTotalCount	Adversary.Attribute	Linked Forums Count	.alerts[].actor.activeFrom	2	N/A
.alerts[].actor.links.forumPrivateMessageTotalCount	Adversary.Attribute	Linked Private Messages Count	.alerts[].actor.activeFrom	0	N/A
.alerts[].actor.links.forumPostTotalCount	Adversary.Attribute	Linked Posts Count	.alerts[].actor.activeFrom	2	N/A
.alerts[].actor.links.reportTotalCount	Adversary.Attribute	Linked Reports Count	.alerts[].actor.activeFrom	1	N/A
.alerts[].actor.links.instantMessageServerTotalCount	Adversary.Attribute	Linked Instant Message Server Count	.alerts[].actor.activeFrom	2	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].actor.links.instant MessageChannelTotalCount	Adversary.Attribute	Linked Instant Message Channel Count	.alerts[].actor.activeFrom	2	N/A
.alerts[].actor.links.instant MessageTotalCount	Adversary.Attribute	Linked Instant Message Count	.alerts[].actor.activeFrom	2	N/A
.alerts[].actor.links.forum TotalCount	Adversary.Attribute	Linked Forums Count	.alerts[].actor.activeFrom	4	N/A
.alerts[].links.instantMessage Servers[].serviceType - .alerts[].actor.links.instant MessageServers[].name	Adversary.Attribute	Instant Message Server	.alerts[].actor.activeFrom	2	N/A
.alerts[].actor.reports[].uid	Related Report	N/A	.alerts[].actor.activeFrom	014f7a860a149 24b5cb74eeb	Used by `Get Report by ID (Supplemental)` Feed to load information about the report
.alerts[].actor.links.forums[].uid	Adversary.Attribute	Intel 471 Forum Link	.alerts[].actor.activeFrom	37fb05bc65bf6a1 435e06a98e4266bc7	Formatted as `https://titan.intel471.com/forums/{{value.privateMessage.links.forum.uid}}/topics`
.alerts[].actor.links.forums[].name	Adversary.Attribute	Forum Name	.alerts[].actor.activeFrom	kepahoo	N/A
.alerts[].actor.links.forums[].contactInfo.value	Adversary.Attribute	Forum Contact	.alerts[].actor.activeFrom	Jabber	N/A
.alerts[].actor.links.forums[].contactInfo.type	Adversary.Attribute	Forum Contact Type	.alerts[].actor.activeFrom	Jabber	Type: EmailAddress, ICQ, Jabber, MSN, YahooIM, AIM, Skype, QQ, BitcoinAddress, etc
.alerts[].actor.links.forums[].actorHandle	Related Adversary.name	N/A	.alerts[].actor.activeFrom	John	N/A
N/A	Related Adversary.Attribute	Actor Type	.alerts[].actor.activeFrom	Author	Hardcoded Attribute

report

Sample Response:


```
{
  "alertTotalCount": 112,
  "alerts": [
    {
      "uid": "014f7a860a14924b5cb74eeb",
      "status": "unread",
      "watcherGroupUid": "a087c78d-8997-436a-9cb2-b7ccd3de7419",
      "foundTime": 1649375878316,
      "report": {
        "uid": "3487f9fe27c23efb0086faa4b80984bcbf1803820db9a0350f8bb9b32b1ae652",
```

```
        "admiraltyCode": "F3",
        "motivation": [
          "CC"
        ],
        "subject": "Conti ransomware group's information technology team examined",
        "dateOfInformation": 1648944000000,
        "sourceCharacterization": "Information was derived from the Conti ransomware gang\u2019s leaked data, our
actors\u2019 database and open sources.",
        "portalReportUrl": "https://titan.intel471.com/report/inforep/9d6d955d3e94c5a5b0aeb392c3f351ca",
        "released": 1649367885000
      },
      "highlights": []
    }
  ]
}
```


`.alerts[].report.uid` if used by `Get Report by ID (Supplemental)` feed in order to load detailed information about the report.

post

Sample Response:


```
{
  "alerts": [
    {
      "uid": "62044763cb0db71af2f8b1c8",
      "status": "read",
      "watcherUid": "8cfcff4d783bfed6d8d33a189956071d",
      "watcherGroupUid": "7892e0cb-8c1b-42b9-b91d-9f9e73593082",
      "foundTime": 1644447587028,
      "post": {
        "lastUpdated": 1644429977657,
        "links": {
          "forum": {
            "uid": "7e7757b1e12abcb736ab9a754ffb617a",
            "name": "wwh-club.co",
            "description": "WWH (aka WWHClub, WWH-Club) is a long-standing, primarily Russian-language and mostly
cybercrime-related underground forum that was started about February 2014. Its membership stands at approximately
192,000 (November 2020), and consists of actors of average sophistication. The forum has a low barrier of entry that
only requires registration for a basic (\"Observer\") profile type, however five paid profile tiers are also offered:
\"Project participant\" (US $50), \"Premium member\" (US $150), \"Gold member\" (US $350), \"Platinum member\" (US
$600) and \"WWH-Club\" (US $950). Higher tiers provide additional privileges, which include access to a restricted
forum section, ability to view messages protected by \"hides\", various profile customization options and other
features.\r\n\r\nThe forum has very active administration and moderation teams (administrator and founder the actor
W.W.H. and principal moderator the actor Makein are assisted by about 20 lower-level moderators), which regularly
patrol the forum, provide \"accreditation\" service and collect fees from actors wishing to offer commodities and
services at the forum. The forum's crew also offers an escrow service, brokering and protecting deals between forum
members, and regularly organizes \"training courses\" for newbie forum members."
          },
          "thread": {
            "uid": "1c1dc13b50afd1fb7b902d1b4ab963e0",
            "topic": "Хакеры атаковали португальское подразделение Vodafone",
            "count": 1
          },
          "authorActor": {
```

```
            "uid": "c0a03d1193163fd9d4d4c64565d6a243",
            "handle": "el_cesar"
          }
        },
        "date": 1644395628000,
        "uid": "01fb60ab6a74e66e5e75322ae0bdeef8",
        "message": "<article class=\"forumPost\">\nVodafone Portugal ;.\n \n</article>"
      },
      "highlights": [
        {
          "field": "data.post.message.escaped",
          "chunks": [
            {
              "text": "Португальское подразделение Vodafone стало жертвой хакерской атаки, в результате которой была
нарушена работа услуг компании. Как заверили [https://www.vodafone.pt/press-releases/2022/2/"
            },
            {
              "hl": "vodafone-portugal"
            },
            {
              "text": "-alvo-de-ciberataque.html] представители "
            },
            {
              "hl": "Vodafone"
            },
            {
              "text": " "
            },
            {
              "hl": "Portugal"
            },
            {
              "text": ", персональные данные клиентов не были скомпрометированы. В понедельник вечером, 7 февраля,
система "
            }
          ]
        }
      ]
    }
  ]
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].post.uid	Event.Attribute	Post UID	.alerts[].post.date	6613f939099a5db1b7b627478c74f6e9	N/A
.alerts[].post.message	Event.Attribute	Post Message	.alerts[].post.date	Dear, Волна!\r\n\r\nA virus alert was noticed on your computer	Stripped HTML tags
.alerts[].post.links.forum.uid	Event.Attribute	Intel471 Forum Link	.alerts[].post.date	37fb05bc65bf6a1435e06a98e4266bc7	Formatted as `https://titan.intel471.com/forums/{{.alerts[].post.l`

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
					`inks.forum.uid}}/topics`
.alerts[].post.links.forum.name	Event.Attribute	Forum Name	.alerts[].post.date	carder.pro	N/A
.alerts[].post.links.forum.description	Event.Attribute	Forum Description	.alerts[].post.date	carder.pro is a forum focused on carding (credit card fraud).	N/A
.alerts[].post.links.thread.uid	Event.Attribute	Intel471 Thread Link	.alerts[].post.date	41ca85374b5e87717a8474c6add09292	Formatted as `https://titan.intel471.com/post_thread/{{.alerts[].post.thread.uid}}/topics`
.alerts[].post.links.thread.topic	Event.Attribute	Thread Topic	.alerts[].post.date	Anonymous Surfing Kit 2010	N/A
.alerts[].post.links.thread.count	Event.Attribute	Thread Posts Count	.alerts[].post.date	233	N/A
.alerts[].post.links.authorActor.handle	Adversary.Name	N/A	.alerts[].post.date	BestForumTeam	N/A
.alerts[].post.links.authorActor.uid	Adversary.Attribute	Author UID	.alerts[].post.date	6613f939099a5db1b7b627478c74f6e9	N/A
.alerts[].post.links.authorActor.handle	Adversary.Attribute	Intel471 Actor Link	.alerts[].post.date	.alerts[].post.links.authorActor.handle	Formatted as `https://titan.intel471.com/search/Actor:{{.alerts[].post.links.authorActor.handle}}`
N/A	Adversary.Attribute	Actor Type	.alerts[].post.date	Author	Hardcoded Attribute

privateMessage

Sample Response:


```
{
  "alerts": [
    {
      "uid": "62044763cb0db71af2f8b1c8",
      "status": "read",
      "watcherUid": "8cfcff4d783bfed6d8d33a189956071d",
      "watcherGroupUid": "7892e0cb-8c1b-42b9-b91d-9f9e73593082",
      "foundTime": 1644447587028,
      "privateMessage": {
        "date": 1644395628000,
        "uid": "01aa60ab6a74e66e5e75322ae0bdeef8",
        "message": "Vodafone Portugal very important message",
        "subject": "Vodafone Portugal",
        "lastUpdated": 1644429977657,
        "links": {
          "forum": {
            "uid": "7e7757b1e12abcb736ab9a754ffb617a",
            "name": "wwh-club.co",
            "description": "WWH (aka WWHClub, WWH-Club) is a long-standing, primarily Russian-language and mostly
```

```
cybercrime-related underground forum that was started about February 2014. Its membership stands at approximately 192,000 (November 2020), and consists of actors of average sophistication. The forum has a low barrier of entry that only requires registration for a basic (\"Observer\") profile type, however five paid profile tiers are also offered: \"Project participant\" (US $50), \"Premium member\" (US $150), \"Gold member\" (US $350), \"Platinum member\" (US $600) and \"WWH-Club\" (US $950). Higher tiers provide additional privileges, which include access to a restricted forum section, ability to view messages protected by \"hides\", various profile customization options and other features.\r\n\r\nThe forum has very active administration and moderation teams (administrator and founder the actor W.W.H. and principal moderator the actor Makein are assisted by about 20 lower-level moderators), which regularly patrol the forum, provide \"accreditation\" service and collect fees from actors wishing to offer commodities and services at the forum. The forum's crew also offers an escrow service, brokering and protecting deals between forum members, and regularly organizes \"training courses\" for newbie forum members."
          },
          "thread": {
            "uid": "1c1dc13b50afd1fb7b902d1b4ab963e0",
            "topic": "Хакеры атаковали португальское подразделение Vodafone",
            "count": 1
          },
          "authorActor": {
            "uid": "c0a03d1193163fd9d4d4c64565d6a243",
            "handle": "el_cesar"
          },
          "recipientActor": {
            "uid": "c0a03d1193163fd9d4d4c64565d6a243",
            "handle": "john"
          }
        }
      },
      "highlights": [
      ]
    }
  ]
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].privateMessage.subject	Indicator.value	Email Subject	.alerts[].privateMessage.date	Important message from the forum administration!	N/A
.alerts[].privateMessage.uid	Indicator.Attribute	UID	.alerts[].privateMessage.date	6613f939099a5db1b7b627478c74f6e9	N/A
.alerts[].privateMessage.message	Indicator.Attribute	Message	.alerts[].privateMessage.date	Dear, Волна!\r\n\r\nA virus alert was noticed on your computer	Stripped HTML tags
.alerts[].privateMessage.links.forum.uid	Event.Attribute	Intel 471 Forum Link	.alerts[].privateMessage.date	37fb05bc65bf6a1435e06a98e4266bc7	Formatted as `https://titan.intel471.com/forums/{{.alerts[].privateMessage.links.forum.uid}}/topics`
.alerts[].privateMessage.links.forum.name	Event.Attribute	Forum Name	.alerts[].privateMessage.date	carder.pro	N/A
.alerts[].privateMessage.links.forum.description	Event.Attribute	Forum Description	.alerts[].privateMessage.date	carder.pro is a forum focused on carding (credit card fraud)	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].privateMessage.links.authorActor.handle	Adversary.Name	N/A	.alerts[].privateMessage.date	BestForumTeam	N/A
N/A	Adversary.Attribute	Actor Type	.alerts[].privateMessage.date	Author	Hardcoded Attribute
.alerts[].privateMessage.links.authorActor.uid	Adversary.Attribute	UID	.alerts[].privateMessage.date	5328c3099dbc67b62cf7ee620ffee4c2	N/A
.alerts[].privateMessage.links.authorActor.handle	Adversary.Attribute	Intel 471 Actor Link	.alerts[].privateMessage.date	BestForumTeam	Formatted as `https://titan.intel471.com/search/Actor:{{.alerts[].privateMessage.links.authorActor.handle}}`
.alerts[].privateMessage.links.recipientActor.handle	Adversary.Name	N/A	.alerts[].privateMessage.date	Волн	N/A
N/A	Adversary.Attribute	Actor Type	.alerts[].privateMessage.date	Recipient	Hardcoded Attribute
.alerts[].privateMessage.links.recipientActor.uid	Adversary.Attribute	UID	.alerts[].privateMessage.date	37fb05bc65bf6a1435e06a98e4266bc7	N/A
.alerts[].privateMessage.links.recipientActor.handle	Adversary.Attribute	Intel 471 Actor Link	.alerts[].privateMessage.date	BestForumTeam	Formatted as `https://titan.intel471.com/search/Actor:{{.alerts[].privateMessage.links.recipientActor.handle}}`

entity

Sample Response:


```
{
  "alertTotalCount": 112,
  "alerts": [
    {
      "uid": "064f7a860a14924b5cb74eeb",
      "status": "unread",
      "watcherGroupUid": "a087c78d-8997-436a-9cb2-b7ccd3de7419",
      "foundTime": 1649375878316,
      "entity": {
        "lastUpdated": 1600335702864,
        "links": {
          "actors": [
            {
              "uid": "064f7a860a14924b5cb74eeb",
              "handle": [
                "yalishanda"
              ]
            }
          ],
          "reports": [
            {
              "subject": "Actor SyntaX advertises service to offer custom fraud websites",
```

```
            "released": 1432332472000,
            "motivation": [
              "CC"
            ],
            "portalReportUrl": "https://titan.intel471.com/report/inforep/6eb72aef7e1207f57b8c2e7084e86422",
            "uid": "fc7100d3297d3df804227937c41ff92b",
            "sourceCharacterization": "Information derived from the English speaking cyber crime forum AlphaBay
hosted on TOR network and our actor database.",
            "admiraltyCode": "C3",
            "dateOfInformation": 1431561600000
          }
        ]
      },
      "uid": "0d613670b4b684ae79c797445112afe6",
      "type": "url",
      "value": "http://45.67.231.78:3214",
      "activeFrom": 1522874107000,
      "activeTill": 1522874107000
    }
  }
 ]
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].entity.value	Indicator.Value	.alerts[].entity.type	.alerts[].entity.activeFrom	http://45.67.231.78:3214	View `Indicator Type Map` table.
.alerts[].entity.uid	Indicator.Attribute	Indicator UID	.alerts[].entity.activeFrom	3ace6bad392acc4d295727017ac5583d	N/A
.alerts[].entity.links.actorTotalCount	Indicator.Attribute	Actor Count	.alerts[].entity.activeFrom	2	N/A
.alerts[].entity.links.reportTotalCount	Indicator.Attribute	Report Count	.alerts[].entity.activeFrom	3	N/A
.alerts[].entity.links.actors.handles[]	Related Adversary.Name	N/A	.alerts[].entity.activeFrom	John	N/A
N/A	Adversary.Attribute	Actor Type	.alerts[].entity.activeFrom	Author	Hardcoded Attribute
.alerts[].entity.links.actors[].uid	Adversary.Attribute	Actor UID	.alerts[].entity.activeFrom	5328c3099dbc67b62cf7ee620ffee4c2	N/A
.alerts[].entity.links.actors[].uid	Adversary.Attribute	Intel 471 Actor Link	.alerts[].entity.activeFrom	3ace6bad392acc4d295727017ac5583d	Formatted as `https://titan.intel471.com/search/Actor:{{.alerts[].entity.links.actors.uid}}`
.alerts[].entity.links.reports[].uid	Related Report	N/A	.alerts[].entity.activeFrom	014f7a860a14924b5cb74eeb	Used by `Get Report by ID (Supplement`

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
					`al)` Feed to load information about the report

event

Sample Response:

```
{
  "alerts": [
    {
      "uid": "054f7a860a14924b5cb74eeb",
      "status": "unread",
      "watcherGroupUid": "a087c78d-8997-436a-9cb2-b7ccd3de7419",
      "foundTime": 1649375878316,
      "event": {
        "uid": "334f7a860a14924b5cb74eeb",
        "activity": {
          "first": 1648160173000,
          "last": 1648160173000
        },
        "data": {
          "event_data": {
            "settings": [
              {
                "plugin_location": "http://176.111.174.67/7Ndd3SnW/plugins/cred.dll"
              },
              {
                "plugin_location": "http://176.111.174.67/7Ndd3SnW/plugins/scr.dll"
              },
              {
                "bot_version": "2.11"
              },
              {
                "campaign_id": "c5c741"
              }
            ],
            "file": {
              "md5": "59d1f5846536ae9ef334b9aebd9e8e92",
              "sha1": "4acb7917cfc125e472db270f3743ff3cff64a3ab",
              "sha256": "1fb6ed5ec4a03acd2e8a086058446e3fc19497fd3f3f53980b3bf3a2559bf24e",
              "type": "PEEXE_x86",
              "size": 344576,
              "download_url": "https://api.intel471.com/v1/download/malwareIntel/
1fb6ed5ec4a03acd2e8a086058446e3fc19497fd3f3f53980b3bf3a2559bf24e.zip"
            },
            "controllers": [
              {
                "url": "http://176.111.174.67/7Ndd3SnW/index.php"
              }
            ],
            "encryption": [
              {
                "algorithm": "RC4",
```

```
              "key": "5eba991cccd123490699d79978f03f44",
              "context": "COMMUNICATION"
            }
          ]
        },
        "intel_requirements": [
          "1.1.5",
          "1.1.6"
        ],
        "event_type": "artifact_extraction",
        "threat": {
          "type": "malware",
          "uid": "6e81e9acbdf4442ed5bb0dbde77436d5",
          "data": {
            "malware_family_profile_uid": "2ba5fdaf61b7499d50a525a9d9d3327c",
            "family": "amadey",
            "version": "2.11"
          }
        }
      }
    }
  ]
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.alerts[].event.data.event_type	Event.Attribute	Event Type	download_execute	download_execute, start_ddos, execute_command, keylog, screenshot, etc
.alerts[].event.data.mitre_tactics	Event.Attribute	mitre tactics	command_and_control	MITRE ATT&CK tactic classification
.alerts[].event.data.intel_requirements[]	Event.Attribute	Intelligence Requirements	1.1.5	N/A
.alerts[].event.data.event_data.plugin_type	Event.Attribute	Plugin Type	CREDENTIAL_STEALER	Type of plugin. i.e. REMOTE_ACCESS, CREDENTIAL_STEALER, OTHER.
.alerts[].event.data.event_data.plugin_name	Event.Attribute	Plugin Name	Contact Form	N/A
.alerts[].event.data.event_data.file.type	Event.Attribute	File Type	TEXT	N/A
.alerts[].event.data.event_data.file.md5	Event.Attribute	File MD5 hash	59d1f5846536ae9ef334b9aebd9e8e92	N/A
.alerts[].event.data.event_data.file.sha1	Event.Attribute	File SHA1 hash	4acb7917cfc125e472db270f3743ff3cff64a3ab	N/A
.alerts[].event.data.event_data.file.sha256	Event.Attribute	File SHA256 hash	1fb6ed5ec4a03acd2e8a086058446e3fc19497fd3f3f53980b3bf3a2559bf24e	N/A
.alerts[].event.data.event_data.file.size	Event.Attribute	File Size	344576	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.alerts[].event.data.event_data.file.download_url	Event.Attribute	File Download URL	https://api.intel471.com/v1/download/malwareIntel/1fb6ed5ec4a03acbf3a2559bf24e.zip	N/A
.alerts[].event.data.event_data.controllers[].url	Event.Attribute	Controller URL	http://176.111.174.67/7Ndd3SnW/index.php	N/A
.alerts[].event.data.event_data.controller.url	Event.Attribute	Controller URL	http://176.111.174.67/7Ndd3SnW/index.php	N/A
.alerts[].event.data.event_data.controller.ipv4	Event.Attribute	Controller IPV4	103.150.68.124	N/A
.alerts[].event.data.event_data.controller.geo_ip.country - .alerts[].event.data.event_data.controller.geo_ip.city	Event.Attribute	Geo IP Location	United States - New York	N/A
.alerts[].event.data.event_data.controller.geo_ip.subdivision[]	Event.Attribute	Geo IP Subdivision	n/a	N/A
.alerts[].event.data.event_data.encryption[].algorithm	Event.Attribute	Encryption Algorithm	RC4	N/A
.alerts[].event.data.event_data.encryption[].key	Event.Attribute	Encryption Key	5eba991cccd123490699d79978f03f44	N/A
.alerts[].event.data.event_data.encryption[].context	Event.Attribute	Encryption Context	COMMUNICATION	N/A
.alerts[].event.data.event_data.triggers[].trigger	Event.Attribute	Trigger	N/A	N/A
.alerts[].event.data.event_data.component_type	Event.Attribute	Component Type	CORE	N/A
.alerts[].event.data.event_data.location.url	Event.Attribute	Location URL	http://176.111.174.67/7Ndd3SnW/plugins/cred.dll	N/A
.alerts[].event.data.event_data.location.ipv4	Event.Attribute	Location IPV4	103.150.68.124	N/A
.alerts[].event.data.event_data.inject_type	Event.Attribute	Inject Type	N/A	N/A
.alerts[].event.data.event_data.config_file	Event.Attribute	Config File	N/A	N/A
.alerts[].event.data.event_data.command	Event.Attribute	Command	N/A	N/A
.alerts[].event.data.event_data.target_type	Event.Attribute	Target Type	N/A	N/A
.alerts[].event.data.event_data.senders[]	Event.Attribute	Sender	John	N/A
.alerts[].event.data.event_data.recipient_domains[].domain	Event.Attribute	Recipient Domain	domain.com	N/A
.alerts[].event.data.threat.uid	Event.Attribute	Threat Type UID	97eb1ec130425016f030886ea513dd48	N/A
.alerts[].event.data.threat.type	Event.Attribute	Threat Type	malware	malware, proxy_service etc.
.alerts[].event.data.threat.data.family	Related Malware.Value	N/A	smokeloader	for malware threat type
.alerts[].event.data.threat.data.variant	Event.Attribute	Threat variant	N/A	N/A

indicator

Sample Response:


```
{
  "data": {
    "uid": "03966eb21fe3b33e026f3363b9f012af",
    "threat": {
      "type": "malware",
      "uid": "29f58ed4a99ee32fc64c25f9670e0f4e",
      "data": {
        "malware_family_profile_uid": "29f58ed4a99ee32fc64c25f9670e0f4e",
        "family": "redline"
      }
    },
    "expiration": 1617937719000,
    "confidence": "high",
    "context": {
      "description": "redline controller URL"
    },
    "mitre_tactics": "command_and_control",
    "indicator_type": "url",
    "indicator_data": {
      "url": "http://45.67.231.78:3214"
    },
    "intel_requirements": [
      "1.1.5",
      "1.1.6"
    ]
  },
  "meta": {
    "version": "0.1"
  },
  "last_updated": 1615345743440,
  "uid": "03966eb21fe3b33e026f3363b9f012af",
  "activity": {
    "first": 1615345265000,
    "last": 1615345719000
  }
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.alerts[].indicator.data.indicator_data.url	Indicator.Value	.alerts[].indicator.data.indicator_type	http://45.67.231.78:3214	View `Indicator Type Map` table bellow
.alerts[].indicator.data.indicator_data.address	Indicator.Value	.alerts[].indicator.data.indicator_type	N/A	View `Indicator Type Map` table bellow
.alerts[].indicator.data.indicator_data.file.type?	Indicator.Attribute	File Type	TEXT	N/A
.alerts[].indicator.data.indicator_data.file.md5?	Indicator.Attribute	File MD5 hash	59d1f5846536ae9ef334b9aebd9e8e92	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
.alerts[].indicator.data. indicator_data.file.sha1?	Indicator.Attribute	File SHA1 hash	4acb7917cfc125e472db27 0f3743ff3cff64a3ab	N/A
.alerts[].indicator.data. indicator_data.file.sha256 ?	Indicator.Attribute	File SHA256 hash	1fb6ed5ec4a03acd2e8a086 058446e3fc19497fd3f3f539 80b3bf3a2559bf24e	N/A
.alerts[].indicator.data. indicator_data.file.size?	Indicator.Attribute	File size	700	N/A
.alerts[].indicator.data. indicator_data.file.download_url?	Indicator.Attribute	File Download URL	https://api.intel471.com/v1/ download/malwareIntel/1fb 6ed5ec4a03acbf3a2559bf24e.zip	N/A
.alerts[].indicator.data. indicator_data.geo_ip.country - .alerts[].indicator.data. indicator_data.geo_ip.city	Indicator.Attribute	Geo IP Location	United States - New York	N/A
.alerts[].indicator.data. indicator_data.geo_ip.subdivision[]	Indicator.Attribute	Geo IP Subdivision	N/A	N/A
.alerts[].indicator.data. indicator_data.geo_ip.isp.network	Indicator.Attribute	ISP Network	N/A	N/A
.alerts[].indicator.data. indicator_data.geo_ip. isp.autonomous_system	Indicator.Attribute	ISP Autonomous System	N/A	N/A
.alerts[].indicator.data. indicator_data.geo_ip.isp.isp	Indicator.Attribute	ISP Name	N/A	N/A
.alerts[].indicator.data. indicator_data.geo_ip. isp.organization	Indicator.Attribute	ISP organization	N/A	N/A
.alerts[].indicator.data. threat.type	Indicator.Attribute	Threat Type	proxy_service	N/A
.alerts[].indicator.data. threat.data.family	Related Malware.Value	N/A	smokeloader	N/A
.alerts[].indicator.data. threat.data.variant	Indicator.Attribute, Related Malware.Attribute	N/A	N/A	N/A
.alerts[].indicator.data.uid	Indicator.Attribute	UID	29f58ed4a99ee32fc64c25f9670 e0f4e	N/A
.alerts[].indicator.data. expiration	Indicator.Attribute	Expiration Date	1617937719000	N/A
.alerts[].indicator.data. confidence	Indicator.Attribute	Confidence	high	N/A
.alerts[].indicator.data. mitre_tactics	Indicator.Attribute	Mitre Tactics	command_and_control	N/A
.alerts[].indicator.data. intel_requirements[]	Indicator.Attribute	Intelligence Requirements	1.1.3	N/A
.alerts[].indicator.data. context.description	Indicator.Attribute	Context	redline controller URL	N/A

cveReport

Sample Response:


```
{
  "alerts": [
    {
      "uid": "61ba31e66c54bd75836158ef",
      "status": "read",
      "watcherUid": "08022e2e4fe563abafb2ea15cd5047c1",
      "watcherGroupUid": "c68903fd-6f0e-4586-9eeb-0210b421af51",
      "foundTime": 1639592422960,
      "cveReport": {
        "data": {
          "cve_report": {
            "risk_level": "high",
            "name": "CVE-2021-45046",
            "activity_location": {
              "location_opensource": true,
              "location_underground": true,
              "location_private": false
            },
            "vendor_name": "Apache",
            "exploit_status": {
              "available": false,
              "weaponized": true,
              "productized": false
            },
            "titan_links": [
              {
                "title": "Для уязвимости в Log4j вышло второе исправление",
                "url": "https://titan.intel471.com/post_thread/7b887bdfb46e938e068721750154c3da?
post_uid=a34b7e1eefe0e0dc2726553975d7dbb3"
              },
              {
                "title": "{warning} Log4Shell: RCE 0-day exploit found in log4j2,this is gonna be HUUUUGE",
                "url": "https://titan.intel471.com/post_thread/b4e4a23d91e9a808b0416e75ac560509?
post_uid=ee5faa6106cdad02731ceec7d7f16668"
              },
              {
                "title": "Apache Log4j (Java logging utility) major security flaw affects many systems across the
world",
                "url": "https://titan.intel471.com/post_thread/aacfb690e92324792ab1f6ae85853137?
post_uid=30f61c614c5df54392f326767f0deab3"
              }
            ],
            "patch_status": "available",
            "poc": "not_observed",
            "counter_measures": "Apache addressed the vulnerability in Log4j version 2.12.2 and Log4j version
2.16.0.",
            "interest_level": {
              "disclosed_publicly": true,
              "researched_publicly": true,
              "exploit_sought": false
            },
            "product_name": "Log4j",
            "cve_type": "Deserialization of untrusted data",
            "poc_links": [
              {
                "title": "Cloudflare: Protection against CVE-2021-45046, the additional Log4j RCE vulnerability ",
```

```
              "url": " https://blog.cloudflare.com/protection-against-cve-2021-45046-the-additional-log4j-rce-
vulnerability/"
            }
          ],
          "cvss_score": {
            "v3": 9
          },
          "underground_activity_summary": "Intel 471 has not observed weaponization or productization of
CVE-2021-45046 in the underground. Several actors shared information from open-source reporting.",
          "cve_status": "status_existing",
          "underground_activity": "observed",
          "patch_links": [
            {
              "title": "Apache Log4j version 2.16.0 ",
              "url": " https://logging.apache.org/log4j/2.x/download.html"
            },
            {
              "title": "Apache Log4j security update ",
              "url": " https://logging.apache.org/log4j/2.x/security.html"
            }
          ],
          "summary": "CVE-2021-45046 is a deserialization of untrusted data vulnerability impacting Apache Log4j
versions 2.0-beta9 through 2.12.1 and 2.13.0 through 2.15.0. A proof of concept (PoC) was not observed publicly or in
the underground. Security researchers claimed the vulnerability was being actively exploited in the wild. This
vulnerability exists because of an incomplete fix for CVE-2021-44228."
        }
      },
      "last_updated": 1640270894000,
      "uid": "f46441257a7d8ec08af42b1a30aa2e72",
      "classification": {
        "intel_requirements": [
          "2.1",
          "2.1.2",
          "2.2"
        ]
      },
      "activity": {
        "first": 1639572023000,
        "last": 1639572023000
      }
    },
    "highlights": []
  }
 ]
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].cveReport.data.cve_report.name	Indicator/ Vulnerability.Value	CVE	.alerts[].cveReport.last_updated	CVE-2021-44228	N/A
.alerts[].cveReport.uid	Indicator/ Vulnerability.Attribute	UID	.alerts[].cveReport.last_updated	61ba31e66c54bd75836158ef	N/A
.alerts[].cveReport.classification.intel_requirements[]	Indicator/ Vulnerability.Attribute	Intelligence Requirements	.alerts[].cveReport.last_updated	1.1.3	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].cveReport.data.cve_report.cve_type	Indicator/ Vulnerability.Attribute	CVE Type	.alerts[].cveReport.last_updated	Deserialization of untrusted data	N/A
.alerts[].cveReport.data.cve_report.risk_level	Indicator/ Vulnerability.Attribute	Risk Level	.alerts[].cveReport.last_updated	high	N/A
.alerts[].cveReport.data.cve_report.vendor_name	Indicator/ Vulnerability.Attribute	Affected Vendor	.alerts[].cveReport.last_updated	Apache	N/A
.alerts[].cveReport.data.cve_report.product_name	Indicator/ Vulnerability.Attribute	Affected Product	.alerts[].cveReport.last_updated	Log4j	N/A
.alerts[].cveReport.data.cve_report.cve_status	Indicator/ Vulnerability.Attribute	CVE Status	.alerts[].cveReport.last_updated	status_existing	N/A
.alerts[].cveReport.data.cve_report.interest_level.disclosed_publicly	Indicator/ Vulnerability.Attribute	Disclosed Publicly	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.interest_level.researched_publicly	Indicator/ Vulnerability.Attribute	Researched Publicly	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.interest_level.exploit_sought	Indicator/ Vulnerability.Attribute	Exploit Sought	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.activity_location.location_opensource	Indicator/ Vulnerability.Attribute	Location Opensource	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.activity_location.location_underground	Indicator/ Vulnerability.Attribute	Location Underground	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.activity_location.location_private	Indicator/ Vulnerability.Attribute	Location Private	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.exploit_status.available	Indicator/ Vulnerability.Attribute	Exploit Available	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.exploit_status.weaponized	Indicator/ Vulnerability.Attribute	Exploit Weaponized	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.exploit_status.productized	Indicator/ Vulnerability.Attribute	Exploit Productized	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.exploit_status.not_observed	Indicator/ Vulnerability.Attribute	Exploit Not Observed	.alerts[].cveReport.last_updated	True	N/A
.alerts[].cveReport.data.cve_report.cvss_score.v3	Indicator/ Vulnerability.Attribute	CVSSv3 Score	.alerts[].cveReport.last_updated	10	N/A
.alerts[].cveReport.data.cve_report.cvss_score.v2	Indicator/ Vulnerability.Attribute	CVSSv2 Score	.alerts[].cveReport.last_updated	10	N/A
.alerts[].cveReport.data.cve_report.patch_links[].title + .alerts[].cveReport.data.cve_report.patch_links[].URL	Indicator/ Vulnerability.Attribute	Patch Reference	.alerts[].cveReport.last_updated	https://logging.apache.org/log4j/2.x/security.html	N/A
.alerts[].cveReport.data.cve_report.patch_status	Indicator/ Vulnerability.Attribute	Patch Status	.alerts[].cveReport.last_updated	available	N/A
.alerts[].cveReport.data.cve_report.underground_activity	Indicator/ Vulnerability.Attribute	Underground Activity	.alerts[].cveReport.last_updated	not_observed	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].cveReport.data.cve_report.underground_activity_summary	Indicator/ Vulnerability.Attribute	Underground Activity Summary	.alerts[].cveReport.last_updated	it was not observed	N/A
.alerts[].cveReport.data.cve_report.summary	indicator/ vulnerability.description	N/A	.alerts[].cveReport.foundTime	Summary-CVE-2021-44228 is a remote code execution..."	Formatted as a concatenation between `.cveReport.data.cve_report.summary` and `.cveReport.data.cve_report.counter_measures` if present and `.cveReport.data.cve_report.underground_activity` if present
.alerts[].cveReport.data.cve_report.summary + .counter_measures + .underground_activity	Related Indicator/ Vulnerability.Value	CVE	N/A	CVE-2021-55555	N/A
.alerts[].cveReport.data.cve_report.detection	Indicator/ Vulnerability.Attribute	Available Detection	.alerts[].cveReport.last_updated	not_available	N/A
.alerts[].cveReport.data.cve_report.titan_links[].title + .alerts[].cveReport.data.cve_report.titan_links[].url	Indicator/ Vulnerability.Attribute	Titan Reference	.alerts[].cveReport.last_updated	https://titan.intel471.com/ims_thread/4e68..."	N/A
.alerts[].cveReport.data.cve_report.poc	Indicator/ Vulnerability.Attribute	Proof of Concept	.alerts[].cveReport.last_updated	observed	N/A
.alerts[].cveReport.data.cve_report.poc_links[].title + .alerts[].cveReport.data.cve_report.poc_links[].url	Indicator/ Vulnerability.Attribute	POC Reference	.alerts[].cveReport.last_updated	https://titan.intel471.com/ims_thread/4e68..."	N/A
.alerts[].cveReport.data.cve_report.counter_measures[].title + .alerts[].cveReport.data.cve_report.counter_measures[].url	Indicator/ Vulnerability.Attribute	Countermeasure Reference	.alerts[].cveReport.last_updated	Apache addressed the vulnerability in L..."	N/A

spotReport

Sample Response:

```
{
  "alertTotalCount": 112,
  "alerts": [
    {
      "uid": "62056cb98d92075f6ebc1964",
```

```
      "status": "unread",
      "foundTime": 1649362530976,
      "watcherGroupUid": "a087c78d-8997-436a-9cb2-b7ccd3de7419",
      "spotReport": {
        "activity": {
          "first": 1644504121000,
          "last": 1644504643000
        },
        "last_updated": 1644504643000,
        "uid": "df0ebc265cae31c8de3b329dc210e5cb",
        "data": {
          "spot_report": {
            "uid": "df0ebc265cae31c8de3b329dc210e5cb",
            "spot_report_data": {
              "victims": [
                {
                  "name": "Vodafone Portugal - Comunicações Pessoais S.A.",
                  "urls": [
                    "https://vodafone.pt/"
                  ]
                }
              ],
              "date_of_information": 1641686400000,
              "text": "[POSSIBLE BREACH ALERT] On Jan. 9, 2022, the threat group LAPSUS$ used the team's Telegram
channel to hint about its possible involvement in a recent cyberattack against the ...",
              "intel_requirements": [
                "6.2.4.39",
                "4.2.5",
                "6.1.8.3"
              ],
              "version": "1",
              "links": [
                {
                  "type": "internal",
                  "url": "https://titan.intel471.com/ims_thread/52ff52aa56d10a1287274ecf02dccb5f?
message_uid=b9d5ca129cd4134109343620f2073f36",
                  "title": "Telegram post #1"
                },
                {
                  "type": "internal",
                  "url": "https://titan.intel471.com/ims_thread/76444b3132fda0e2aca778051d776f1c?
message_uid=1a6c2dc8a7a725224d15c28b04efeac1",
                  "title": "Telegram post #2"
                },
                {
                  "type": "external",
                  "url": "https://apnews.com/article/technology-business-europe-hacking-
telecommunications-24b6daae9237b1d394f781b7e6497b04",
                  "title": "Associated Press article"
                }
              ],
              "released_at": 1644504121000,
              "title": "Threat group LAPSUS$ suggests possible involvement in cyberattack against Vodafone Portugal"
            }
          },
          "entities": [
            {
              "type": "Handle",
              "value": "LAPSUS$"
            }
          ]
```

```
        }
      }
    }
  ]
}
```

ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].spotReport.data.spot_report.spot_report_data.title	Event.Value	N/A	.alerts[].spotReport.data.spot_report.spot_report_data.released_at	Tokyo	If `.alerts[].spotReport.data.spot_report.spot_report_data.title` exists in the response
.alerts[].spotReport.uid	Event.Value	N/A	alerts[].spotReport.data.spot_report.spot_report_data.released_at	014f7a860a14924b5cb74eeb	Formatted as `Intel 471 Spot Report - 014f7a860a14924b5cb74eeb` if `.alerts[].spotReport.data.spot_report.spot_report_data.title` does not exist in the response
N/A	Event.Attribute	Report Type	alerts[].spotReport.data.spot_report.spot_report_data.released_at	Spot	Hardcoded attribute
.alerts[].spotReport.uid	Event.Attribute	Intel 471 Spot Report Link	alerts[].spotReport.data.spot_report.spot_report_data.released_at	014f7a860a14924b5cb74eeb	Formatted as `https://titan.intel471.com/spotReports/{{.alerts[].spotReport.uid}}
.alerts[].spotReport.data.spot_report.spot_report_data.victims[].name	Event.Attribute	Victim	alerts[].spotReport.data.spot_report.spot_report_data.released_at	N/A	N/A
.alerts[].spotReport.data.spot_report.spot_report_data.victims[].urls[]	Event.Attribute	Victim URL	alerts[].spotReport.data.spot_report.spot_report_data.released_at	N/A	N/A
.alerts[].spotReport.data.spot_report.spot_report_data.sensitive_source	Event.Attribute	Sensitive Source	alerts[].spotReport.data.spot_report.spot_report_data.released_at	True	N/A
.alerts[].spotReport.data.spot_report.spot_report_data.intel_requirements[]	Event.Attribute	Intelligence Requirements	alerts[].spotReport.data.spot_report.spot_report_data.released_at	1.1.3	N/A
.alerts[].spotReport.data.spot_report.spot_report_data.links[].title + .alerts[].spotReport.data.spot_report.spot_report_data.links[].url	Event.Attribute	Linked Entity	alerts[].spotReport.data.spot_report.spot_report_data.released_at	Forum thread - https://titan.intel471.com/post_thread/	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
				a6bff640bf0c8d0ea31544878935e3a6	
.alerts[].spotReport.data.entities[].value	Related Adversary.Value	N/A	alerts[].spotReport.data.spot_report.spot_report_data.released_at	LAPSUS$	If `` is `Handle`
.alerts[].spotReport.data.entities[].value	Related Indicator.Value	.alerts[].spotReport.data.entities[].type	alerts[].spotReport.data.spot_report.spot_report_data.released_at	72.217.16.46	View `Indicator Type Map` table bellow

instantMessage

Sample Response:


```
{
  "alerts": [
    {
      "uid": "61ba31e66c54bd75836158ef",
      "status": "read",
      "watcherUid": "08022e2e4fe563abafb2ea15cd5047c1",
      "watcherGroupUid": "c68903fd-6f0e-4586-9eeb-0210b421af51",
      "foundTime": 1639592422960,
      "instantMessage": {
        "data": {
          "message": {
            "uid": "88ea4933296e7c159bdf3d104720ba98",
            "text": "<article class=\"chatMessage\">...</article>",
            "attachments": [
              {
                "size": 38475,
                "uid": "telegram/media/9345/434819",
                "type": "image/jpeg",
                "original_url": "https//www.securitylab.ru/news/529621.php"
              }
            ]
          },
          "channel": {
            "name": "LAPSUS$ Chat",
            "url": "https://t.me/saudechat",
            "registration_date": 1639580760000,
            "uid": "76444b3132fda0e2aca778051d776f1c"
          },
          "server": {
            "uid": "70efdf2ec9b086079795c442636b55fb",
            "service_type": "Telegram"
          },
          "actor": {
            "uid": "fc90deed16ed5814f5b43c26299db325",
            "handle": "CARDANNZA"
          }
        },
        "last_updated": 1644647086702,
        "activity": {
```

```
        "first": 1644647078000,
        "last": 1644647078000
      }
    }
  }
 ]
}
```

ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].instantMessage.data.message.text	Event.Attribute	Message Text	.alerts[].instantMessage.last_updated	Message Instant	Stripped HTML tags
.alerts[].instantMessage.data.message.attachments[].type - .alerts[].instantMessage.data.message.attachments[].original_url	Event.Attribute	Message Attachment	.alerts[].instantMessage.last_updated	https://api.telegram.org/tg-photo/474992438154472501/-7907434886400454512 - image/jpeg	Stripped HTML tags
.alerts[].instantMessage.data.channel.name	Event.Attribute	Channel Name	.alerts[].instantMessage.last_updated	LAPSUS$ Chat	Stripped HTML tags
.alerts[].instantMessage.data.channel.url	Event.Attribute	Channel URL	.alerts[].instantMessage.last_updated	https://t.me/saudechat	N/A
.alerts[].instantMessage.data.channel.topic	Event.Attribute	Channel Topic	.alerts[].instantMessage.last_updated	Vodafone	N/A
.alerts[].instantMessage.data.server.service_type	Event.Attribute	Service Type	.alerts[].instantMessage.last_updated	Telegram	N/A
.alerts[].instantMessage.data.server.name	Event.Attribute	Service Name	.alerts[].instantMessage.last_updated	N/A	N/A
.alerts[].instantMessage.data.server.uid	Event.Attribute	Service UID	.alerts[].instantMessage.last_updated	70efdf2ec9b086079795c442636b55fb	N/A
N/A	Adversary.Attribute	Actor Type	.alerts[].instantMessage.last_updated	Recipient	N/A
.alerts[].instantMessage.data.actor.handle	Adversary.Name	N/A	.alerts[].instantMessage.last_updated	carter	Hardcoded Attribute
.alerts[].instantMessage.data.actor.handle	Adversary.Attribute	Intel471 Actor Link	.alerts[].instantMessage.last_updated	https://titan.intel471.com/search/Actor:carter	Formatted as `https://titan.intel471.com/search/Actor:{{.alerts[].instantMessage.links.authorActor.handle}}`

credential

Sample Response:


```
{
  "credentials_total_count": 123,
  "credentials": [
    {
      "uid": "08c9a1e7e811617a79290108cdc23b36",
      "data": {
        "credential_login": "john.smith@test-domain.com",
        "credential_domain": "test-domain.com",
        "detection_domain": "test-domain.com",
        "affiliations": [
          "my_employees"
        ],
        "password": {
          "complexity": {
            "lowercase": 15,
            "uppercase": 0,
            "numbers": 17,
            "symbols": 0,
            "punctuation_marks": 0,
            "separators": 0,
            "other": 0,
            "length": 32,
            "score": 0.9525726035123216,
            "weakness": 0.09375,
            "entropy": 121.83535750584332
          },
          "strength": "excellent",
          "id": "81105f09",
          "password_plain": "bad_pswrd"
        },
        "credential_sets": [
          {
            "uid": "13951971fbce4bd11dc1eb13f04da669",
            "name": "Infostealer Collection"
          }
        ],
        "detected_malware": [
          {
            "family": "[Raccoon Stealer] - v1.0 Golden Master Release"
          },
          {
            "family": "Azorult V3+"
          },
          {
            "family": "KPOT"
          }
        ]
      },
      "statistics": {
        "accessed_urls_total_count": 1
      },
      "classification": {
        "intel_requirements": [
          "2.1.1.1",
          "2.2.1",
          "2.2.2"
```

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


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].credential.data.credential_login	Identity.Value	N/A	.alerts[].credential.activeFrom	john.smith@test-domain.com	N/A
.alerts[].credential.uid	Identity.Attribute	UID	.alerts[].credential.activeFrom	08c9a1e7e811617a79290108cdc23b36	N/A
.alerts[].credential.data.credential_domain	Identity.Attribute	Credential Domain	.alerts[].credential.activeFrom	test-domain.com	N/A
.alerts[].credential.data.detection_domain	Identity.Attribute	Detection Domain	.alerts[].credential.activeFrom	test-domain.com	N/A
.alerts[].credential.data.affiliations[]	Identity.Attribute	Affiliation	.alerts[].credential.activeFrom	my_employees	N/A
.alerts[].credential.data.detected_malware[].family	Related Malware	N/A	.alerts[].credential.activeFrom	Azorult V3+	N/A
.alerts[].credential.statistics.accessed_urls_total_count	Identity.Attribute	Accessed URLs Total Count	.alerts[].credential.activeFrom	12	N/A
.alerts[].credential.data.classification.intel_requirements[]	Identity.Attribute	Intelligence Requirements	.alerts[].credential.activeFrom	1.1.2	N/A

breachAlert

Sample Response:


```
{
  "alertTotalCount": 112,
  "alerts": [
    {
      "uid": "ca4f7a860a14924b5cb74eeb",
      "status": "unread",
      "foundTime": 1649362530976,
      "watcherGroupUid": "a087c78d-8997-436a-9cb2-b7ccd3de7419",
      "breachAlert": {
        "activity": {
          "first": 1623248165000,
          "last": 1623314255000
        },
        "last_updated": 1623314255000,
        "uid": "6d4f1fafe5eadc654397e36b9001c9cb",
```

```
      "data": {
        "breach_alert": {
          "title": "BCN Telecom Inc. possibly compromised by actor/group hakkr on Feb 22, 2021",
          "date_of_information": 1613952000000,
          "released_at": 1623248165000,
          "confidence": {
            "level": "low",
            "description": "The source credibility or accuracy of the information cannot be judged."
          },
          "actor_or_group": "hakkr",
          "victim": {
            "name": "BCN Telecom Inc.",
            "urls": [
              "https://www.bcntele.com/"
            ],
            "industries": [
              {
                "industry": "Telecommunications",
                "sector": "Communications"
              }
            ],
            "revenue": "$19.9M",
            "region": "Northern America"
          },
          "sources": [
            {
              "type": "internal",
              "url": "https://titan.intel471.com/post_thread/3e7e2a9a4efb78d9f6d1fc79035c1750?
post_uid=a7906e947a62303d6afa026bbb90013d",
              "title": "Godzilla Loader",
              "date": 1534712400000,
              "source_type": "Post Thread"
            },
            {
              "type": "internal",
              "url": "https://titan.intel471.com/report/3bd7fde77e3818a12362efc5ac758395",
              "title": "Russian actor alfamale advertising a new cryptolocker dubbed TURBO.",
              "date": 1470258000000,
              "source_type": "Information Report"
            },
            {
              "type": "external",
              "url": "https://www.citrix.com/blogs/2019/03/08/citrix-investigating-unauthorized-access-to-internal-
network",
              "title": "Citrix investigating unauthorized access to internal network",
              "date": 1552082400000,
              "source_type": "Citrix blog"
            }
          ],
          "intel_requirements": [
            "1.1.3",
            "1.1.4",
            "1.1"
          ]
        },
        "entities": [
          {
            "type": "Handle",
            "value": "hakkr"
          },
          {
```

```
            "description": "One of the Google's IP",
            "geo_info": {
              "provider": "Google",
              "country": "US"
            },
            "type": "IPAddress",
            "value": "172.217.16.46"
          }
        ]
      }
    }
  }
]
}
```


ThreatQ provides the following default mapping:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
N/A	Event.Attribute	Event Type	.alerts[].breachAlert.data.breach_alert.released_at	Breach Alert	Hardcoded attribute
.alerts[].breachAlert.data.breach_alert.title	Event.Attribute	BCN Telecom Inc. possibly compromised by actor/group hakkr on Feb 22, 2021	.alerts[].breachAlert.data.breach_alert.released_at	Tokyo	N/A
.alerts[].breachAlert.uid	Event.Attribute	Intel 471 Breach Alert Link	.alerts[].breachAlert.data.breach_alert.released_at	014f7a860a1 4924b5cb74eeb	Formatted as `https://titan.intel471.com/breachAlerts/{{.alerts[].breachAlert.uid}}
.alerts[].breachAlert.data.breach_alert.confidence.description	Event.Attribute	Confidence	.alerts[].breachAlert.data.breach_alert.released_at	low	N/A
.alerts[].breachAlert.data.breach_alert.confidence.level	Event.Attribute	Confidence Level	.alerts[].breachAlert.data.breach_alert.released_at	The source credibility or accuracy of the information cannot be judged.	N/A
.alerts[].breachAlert.data.breach_alert.sensitive_source	Event.Attribute	Sensitive Source	.alerts[].breachAlert.data.breach_alert.released_at	True	N/A
.alerts[].breachAlert.data.breach_alert.intel_requirements[]	Event.Attribute	Intelligence Requirements	.alerts[].breachAlert.data.breach_alert.released_at	1.1.3	N/A
.alerts[].breachAlert.data.breach_alert.victim.name	Event.Attribute	Victim	.alerts[].breachAlert.data.breach_alert.released_at	BCN Telecom Inc.	N/A
.alerts[].breachAlert.data.breach_alert.victim.urls[]	Event.Attribute	Victim URL	.alerts[].breachAlert.data.breach_alert.released_at	https://www.bcntele.com/	N/A
.alerts[].breachAlert.data.breach_alert.victim.industries[].industry	Event.Attribute	Victim Industry	.alerts[].breachAlert.data.breach_alert.released_at	Telecommunications	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.alerts[].breachAlert.data.breach_alert.victim.industries[].sector	Event.Attribute	Victim Sector	.alerts[].breachAlert.data.breach_alert.released_at	Communications	N/A
.alerts[].breachAlert.data.breach_alert.victim.region	Event.Attribute	Victim Region	.alerts[].breachAlert.data.breach_alert.released_at	$19.9M	N/A
.alerts[].breachAlert.data.breach_alert.victim.revenue	Event.Attribute	Victim Revenue	.alerts[].breachAlert.data.breach_alert.released_at	Northern America	N/A
.alerts[].breachAlert.data.breach_alert.sources[].title - .alerts[].breachAlert.data.breach_alert.sources[].url	Event.Attribute	Source	.alerts[].breachAlert.data.breach_alert.released_at	Godzilla Loader - https://titan.intel471.com/post_thread/3e7e2a9a4efb78d9f6d1fc79035c1750post_uid=a7906e947a62303d6afa026bbb90013d	N/A
.alerts[].breachAlert.data.entities[].value	Related Adversary.Value	N/A	.alerts[].breachAlert.data.breach_alert.released_at	LAPSUS$	If `` is `Handle`
.alerts[].breachAlert.data.entities[].value	Related Indicator.Value	.alerts[].breachAlert.data.entities[].type	.alerts[].breachAlert.data.breach_alert.released_at	72.217.16.46	View `Indicator Type Map` table bellow
.alerts[].breachAlert.data.entities[].description	Related Indicator.Description	N/A	.alerts[].breachAlert.data.breach_alert.released_at	One of the Google's IP	N/A
.alerts[].breachAlert.data.entities[].geo_info.provider	Related Indicator.Attribute	Provider	.alerts[].breachAlert.data.breach_alert.released_at	Google	N/A
.alerts[].breachAlert.data.entities[].geo_info.country	Related Indicator.Attribute	Country	.alerts[].breachAlert.data.breach_alert.released_at	US	N/A

Get Report by ID (Supplemental)

The value of `.alerts[].report.id` from the Intel471 Alerts feed is used as the reportId parameter.

```
GET - https://api.intel471.com/v1/reports/{reportId}
```

Sample Response:

```
{
   "uid":"4bb9dc1c4385259236a2104227eed0c739eb5fe6c8914a955d516982c60bf358",
   "documentFamily":"INFOREP",
   "documentType":"INFOREP",
   "admiraltyCode":"B2",
   "motivation":[
      "CC"
```

```
  ],
  "subject":"Russian actor, bulletproof hoster yalishanda (aka downlow, stas_vl) adds 33 front-end proxies to fast-flux offering; Current proxy-net size sits at 305 IP addresses",
  "created":1636119112000,
  "dateOfInformation":1636070400000,
  "sourceCharacterization":"Information was derived from a reliable source in direct contact with yalishanda and visibility into the actor's bulletproof hosting service.",
  "relatedReports":[
     {
        "uid":"d2e15d5df8fe208de17733c3ed9d95c46aa5e995dca1003d3731d5e4137d6551",
        "documentFamily":"INFOREP"
     },
     {
        "uid":"aa210760432ea8bf21ed3bf42068c365bf8fa34fd4c678d321ef066055625e45",
        "documentFamily":"INFOREP"
     },
     {
        "uid":"b15c66f6ac04d8ffdb9a7034d41bd83ae27e0cf67714ec789ac4de9dfd708677",
        "documentFamily":"INFOREP"
     },
     {
        "uid":"e8899fead398c0aea60922861289dfae9ed29b9e893319af92925221027e2bdb",
        "documentFamily":"INFOREP"
     },
     {
        "uid":"64fbf40197070ae0745a8e37d5e5b6a8ae39ba512017bd1fecb795b1f37b9aab",
        "documentFamily":"INFOREP"
     }
  ],
  "locations":[
     {
        "region":"Asia",
        "country":"Vietnam",
        "link":"impacts"
     }
  ],
  "entities":[
     {
        "type":"IPAddress",
        "value":"109.248.201.128"
     },
     {
        "type":"IPAddress",
        "value":"176.118.164.123"
     },
     {
        "type":"IPAddress",
        "value":"176.57.220.153"
     },
     {
        "type":"IPAddress",
        "value":"178.208.75.53"
     }
  ],
  "tags":[
     "Banking & Finance",
     "Bulletproof Hosting",
     "Bulletproof Hosting Tracking",
     "Extortion",
     "Malware - Usage",
     "Phishing",
```

```
      "Ransomware"
   ],
   "portalReportUrl":"https://titan.intel471.com/report/inforep/119363037d964917a1a109897da0488f",
   "lastUpdated":1636119114000,
   "actorSubjectOfReport":[
      {
         "handle":"yalishanda"
      }
   ],
   "classification":{
      "intelRequirements":[
         "3.1.1"
      ]
   },
   "reportAttachments":[
      {
         "url":"https://api.intel471.com/v1/reports/download/119363037d964917a1a109897da0488f/
6637dcf7c72836a7a9a0610b7f7c5d5fbe78846b71ad75fce5a2c836efe7e595",
         "fileName":"2021-11-05_yalishanda_report.csv",
         "malicious":false,
         "mimeType":"text/csv",
         "fileSize":1669595
      }
   ],
   "researcherComments":"<p>Through the course of our research, we identified the following new domain names and
malware hashes associated with the hosts featured in the latest snapshot of <strong>yalishanda's</strong> fast-flux
network. </p><p>Note that:</p><p>(1) If an IP address is not included in the table below, this indicates no new
domain names or malware hashes were associated with that IP address.</p><p>(2) When attributing or classifying this
activity, it should be kept in mind these likely are the efforts of clients using <strong>yalishanda’s</strong> fast-
flux service. The service rotates IP addresses on an unknown schedule and pattern, so it’s unclear whether proxies
are shared across clients, specific to subsets of clients, etc.</p><p>(3) All hashes were classified as malware-
related based on automated antivirus detection and may not be accurate.</p><p>(4) The domain names listed below were
the result of passive domain name system (DNS) resolution only for the last few days.</p><p>(5) A full list of all
domain names and hashes previously and recently observed at the actor’s fast-flux infrastructure is provided (see:
Attachment). </p><figure class=\"table\"><table><thead><tr><th>IP address</th><th>Entity type</th><th>Entity</th></
tr></thead><tbody><tr><td>5.8.76.183</td><td>MaliciousURL</td><td>nksa-abn.ru</td></tr><tr><td>5.8.76.183</
td><td>MaliciousURL</td><td>5qe71b9pqv.xixa-abn.ru</td></tr><tr><td>5.8.76.183</td><td>MaliciousURL</td><td>adx-
abn.ru</td></tr><tr><td>5.8.76.183</td><td>MaliciousURL</td><td>uka-abn.ru</td></tr><tr><td>5.8.76.183</
td><td>MaliciousURL</td><td>ixax-abn.ru</td></tr><tr><td>5.8.76.183</td><td>MaliciousURL</td><td>xixa-abn.ru</td></
tr><tr><td>5.8.76.203</td><td>MaliciousURL</td><td>mobi-credits.com</td></tr><tr><td>5.8.76.203</
td><td>MaliciousURL</td><td>nationaleqc-bnc.com</td></tr><tr><td>5.8.76.203</td><td>MaliciousURL</td><td>login-
bncapp.com</td></tr><tr><td>8.209.67.54</td><td>MaliciousURL</td><td>parcel-support-redelivery.com</td></
tr><tr><td>8.209.67.54</td><td>MaliciousURL</td><td>www.parcel-support-redelivery.com</td></tr><tr><td>8.209.73.107</
td><td>MaliciousURL</td><td>hsydv.wordmerry.link</td></tr><tr><td>8.209.73.107</td><td>MaliciousURL</
td><td>ca0r43.brightfair.link</td></tr><tr><td>8.209.73.107</td><td>MaliciousURL</td><td>z4i6r.nur-fur-sie.link</
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tr></tbody></table></figure> A full list of domain names that resolved to the 305 IP addresses above during the
period is provided (see: Attachment). ",
   "rawText":" On Nov. 5, 2021, a reliable source who has direct visibility of the actor yalishanda’s</
strong> fast-flux infrastructure provided the following information: ---
As of 10 a.m. GMT, Nov. 5, 2021,

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the actor <strong>yalishanda’s</strong> fast-flux infrastructure comprised the following hosts:</p><figure
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LLC</td></tr><tr><td>77.220.213.77</td><td>NLD</td><td>Zomro B.V.</td></tr><tr><td>77.223.96.189</td><td>RUS</
td><td>OOO Network of data-centers Selectel</td></tr><tr><td>77.223.96.215</td><td>RUS</td><td>OOO Network of data-
centers Selectel</td></tr><tr><td>77.223.98.3</td><td>RUS</td><td>OOO Network of data-centers Selectel</td></
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assets LLC</td></tr><tr><td>78.155.222.151</td><td>RUS</td><td>OOO Network of data-centers Selectel</td></
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td><td>GleSYS Internet Services AB</td></tr><tr><td>79.143.29.96</td><td>RUS</td><td>OOO Network of data-centers
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Privately owned enterprise</td></tr><tr><td>80.249.144.83</td><td>RUS</td><td>OOO Network of data-centers Selectel</
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td><td>Selectel Ltd.</td></tr><tr><td>81.163.28.116</td><td>RUS</td><td>OOO Network of data-centers Selectel</td></
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Network of data-centers Selectel</td></tr><tr><td>82.148.28.91</td><td>RUS</td><td>Selectel Ltd.</td></
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centers Selectel</td></tr><tr><td>84.38.183.45</td><td>RUS</td><td>Selectel Ltd.</td></tr><tr><td>84.38.183.78</
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Baxet</td></tr><tr><td>85.143.174.172</td><td>RUS</td><td>Federal State Institution Federal Scientific Resea</td></
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NTCOM</td></tr><tr><td>93.189.42.100</td><td>RUS</td><td>Limited Liability Company NTCOM</td></
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LLC</td></tr><tr><td>185.186.142.217</td><td>RUS</td><td>Kontel LLC</td></tr><tr><td>185.186.142.237</td><td>RUS</
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td><td>DataWeb Global Group B.V.</td></tr><tr><td>185.203.118.165</td><td>BGR</td><td>Belcloud LTD</td></
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Ltd</td></tr><tr><td>193.106.175.54</td><td>RUS</td><td>IQHost Ltd</td></tr><tr><td>193.106.175.59</td><td>RUS</
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of data-centers Selectel</td></tr><tr><td>194.87.239.115</td><td>RUS</td><td>JSC Mediasoft ekspert</td></
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td><td>ITL LLC</td></tr><tr><td>195.123.219.227</td><td>NLD</td><td>ITL LLC</td></tr><tr><td>195.133.10.184</
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hours, the following hosts were added to the actor’s fast-flux infrastructure: <figure
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Management Ltd</td></tr><tr><td>47.88.7.92</td><td>USA</td><td>Alibaba</td></tr><tr><td>47.251.4.88</td><td>USA</
td><td>Alibaba</td></tr><tr><td>79.141.170.17</td><td>GBR</td><td>HZ Hosting Ltd</td></tr><tr><td>82.202.194.9</
td><td>RUS</td><td>OOO Network of data-centers Selectel</td></tr><tr><td>91.240.242.16</td><td>MDA</td><td>PQ HOSTING
S.R.L</td></tr><tr><td>91.240.242.107</td><td>MDA</td><td>PQ HOSTING S.R.L</td></tr><tr><td>95.142.35.150</
td><td>RUS</td><td>EuroByte LLC</td></tr><tr><td>95.142.35.171</td><td>RUS</td><td>EuroByte LLC</td></
tr><tr><td>95.142.38.6</td><td>RUS</td><td>EuroByte LLC</td></tr><tr><td>178.208.92.39</td><td>RUS</td><td>EuroByte
LLC</td></tr><tr><td>185.246.152.49</td><td>NLD</td><td>Melbikomas UAB</td></tr><tr><td>194.40.243.133</td><td>UKR</
td><td>Rices Privately owned enterprise</td></tr><tr><td>194.87.215.89</td><td>CZE</td><td>LLC Baxet</td></
tr><tr><td>195.69.187.21</td><td>UKR</td><td>Scientific Production Enterprise Technaukservice L</td></
tr><tr><td>195.69.187.114</td><td>UKR</td><td>Scientific Production Enterprise Technaukservice L</td></
tr><tr><td>195.69.187.141</td><td>UKR</td><td>Scientific Production Enterprise Technaukservice L</td></
tr><tr><td>195.69.187.219</td><td>UKR</td><td>Scientific Production Enterprise Technaukservice L</td></
tr><tr><td>213.183.53.159</td><td>RUS</td><td>Melbikomas UAB</td></tr><tr><td>213.183.59.161</td><td>NLD</
td><td>Melbikomas UAB</td></tr></tbody></table></figure> --- ",
   "executiveSummary":" As of 10 a.m. GMT, Nov. 5, 2021, the actor yalishanda's fast-flux network
stands at 305 total hosts. There were 33 hosts added to the network in the last 24 hours, while 24 hosts were dropped
during this period. The actor hosted phishing campaigns targeting ABN AMRO, Amazon, Blockchain, Santander, UPS
and Wells Fargo customers. "
}

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.subject	report.value	N/A	.created	Russian actor, bulletproof hoster yalishanda...	N/A
.executive Summary + .rawText	report.description	N/A	N/A	Throughout the course our research, we indentified the foilowing...	Retrieve `.researcherComments` and `.rawText` fields. Formatted as HTML markup.
.document Family	report.attribute	Document Family	.created	INFOREP	N/A
.document Type	report.attribute	Document Type	.created	INFOREP	N/A
.admiralty Code	report.attribute	Admiralty Code	.created	B2	N/A
.motivation	report.attribute	Motivation	.created	cc	N/A
.sourceCha racterization	report.attribute	Source Characterization	.created	Information was derived from a reliable source...	N/A
.portalReportUrl	report.attribute	Intel471 Link	.created	https://titan.intel471.com/ report/inforep/119363037 d964917a1a10989	N/A
.classification. intelRequirements[]	report.attribute	Intelligence Requirements	.created	3.1.1	N/A
.actorSubject OfReport[].handle	Adversary.name	N/A	N/A	yalishanda	N/A
.locations[].country	report.attribute	Country/Origin Country/ Impacted Country	.created	Vietnam	Attribute name mapped based on the .locations[].link value based on the `country_link_map` table, defaulting to Country
.entities[].value	indicator.value	Mapped based on the indicator_type_map table by using the .type value	.created	109.248.201.128	N/A
.tags[]	report.tag	N/A	N/A	Banking & Finance	Each tag is trimmed to 50 chars

Get Watcher Group Name (Supplemental)

The value of `.alerts[].watcherGroupUid` from the Intel471 Alerts feed is used as the groupId parameter.

```
GET - https://api.intel471.com/v1/watcherGroups/{groupId}
```

Sample Response:

```
{
    "name": "Apache Log4j Vulnerability (by Intel 471)",
    "description": "This Intel 471 Incident Watcher Group consists ...",
    "muted": false,
    "uid": "8d4a92f9-9946-4aa9-8a9f-58e8ae20f6b2",
    "owner": "Intel 471"
}
```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.name	tag.name	N/A	N/A	testG	UIDs are mapped after using the data fetched from the `Get Watcher Group Name` supplemental feed. Each tag is trimmed to 50 chars
.name	event.attribute	Watcher Group Name	N/A	testG	UIDs are mapped after using the data fetched from the `Get Watcher Group Name` supplemental feed.

Indicator Type Mapping

The following a mapping table for indicators.

INTEL471 VALUE	THREATQ VALUE
MD5	MD5
IPAddress	IP Address
ActorDomain	FQDN
ActorWebsite	URL
EmailAddress	Email Address
MaliciousURL	URL
SHA256	SHA-256
SHA1	SHA-1
URL	URL
CVE	CVE

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.

Intel 471 Alerts

METRIC	RESULT
Run Time	2 minutes
Adversaries	20
Adversary Attributes	120
Events	12
Event Attributes	45
Indicators	15
Indicator Attributes	6
Vulnerabilities	7
Report	7
Report Attributes	190

Change Log

- **Version 1.2.1**
  - Fixed a `Get Report by ID` supplemental feed indicator ingestion bug.
  - Added the ability to parse CVEs from CVE Report Alerts description.
- **Version 1.2.0**
  - Fixed an issue with Spot Reports Events when the event did not have relationships.
  - Fixed an indicator bug where the relationship between the report and indicator was not created if the indicator was ingested into the ThreatQ platform by another feed.
- **Version 1.1.0**
  - Updated the integration to ingest more data about events and related items.
  - Added new configuration option: `Ingest CVEs As` . See the Configuration chapter for more information.
- **Version 1.0.0**
  - Initial Release