

# ThreatQuotient



**ZeroFox CDF**

**Version 1.3.0**

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**ThreatQuotient**

20130 Lakeview Center Plaza Suite 400  
Ashburn, VA 20147

 **ThreatQ Supported**

**Support**

Email: [support@threatq.com](mailto:support@threatq.com)

Web: [support.threatq.com](http://support.threatq.com)

Phone: 703.574.9893

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# Support

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# Integration Details

ThreatQuotient provides the following details for this integration:

**Current Integration Version**      1.3.0

**Compatible with ThreatQ  
Versions**                       $\geq 5.12.1$

**Support Tier**                  ThreatQ Supported

# Introduction

The ZeroFox integration allows a ZeroFox user to ingest alerts from ZeroFox in the form of events and related indicators.

The integration provides the following feed:

- **ZeroFox Alerts** - ingests new Event objects and related Indicators.

The integration ingests indicator and event type system objects.

# 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 yaml file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration yaml file using one of the following methods:
  - Drag and drop the file into the dialog box
  - Select **Click to Browse** to locate the 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. The feeds 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		
API Token	Your ZeroFox API Token.		
Severity Filter	Specify which alerts to ingest based on their severity levels. Options include: <ul style="list-style-type: none"> <li>◦ Info</li> <li>◦ Low</li> <li>◦ Medium</li> <li>◦ High</li> <li>◦ Critical</li> </ul>		
Status Filter	Specify which alerts to ingest based on their status. Options include: <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◦ Closed</li> <li>◦ Open</li> <li>◦ Escalated</li> <li>◦ Investigation Completed</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◦ Takedown Accepted</li> <li>◦ Takedown Denied</li> <li>◦ Takedown Requested</li> <li>◦ Takedown Submitted</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>◦ Closed</li> <li>◦ Open</li> <li>◦ Escalated</li> <li>◦ Investigation Completed</li> </ul>	<ul style="list-style-type: none"> <li>◦ Takedown Accepted</li> <li>◦ Takedown Denied</li> <li>◦ Takedown Requested</li> <li>◦ Takedown Submitted</li> </ul>
<ul style="list-style-type: none"> <li>◦ Closed</li> <li>◦ Open</li> <li>◦ Escalated</li> <li>◦ Investigation Completed</li> </ul>	<ul style="list-style-type: none"> <li>◦ Takedown Accepted</li> <li>◦ Takedown Denied</li> <li>◦ Takedown Requested</li> <li>◦ Takedown Submitted</li> </ul>		
Ingest Only Escalated Alerts	Enable this option to ingest alerts that are currently marked as Escalated or have been Escalated in the past.		

PARAMETER	DESCRIPTION
<b>Ingest CVEs As</b>	<p>Select which entity type to ingest CVEs as in the ThreatQ platform. Options include:</p> <ul style="list-style-type: none"> <li>◦ Vulnerabilities (default)</li> <li>◦ Indicators (Type: CVE)</li> </ul>
<b>Context Filter</b>	<p>Select which pieces of context to ingest with each alert. This allows you pick and choose what your organization needs to see with each alert, leaving out anything that isn't relevant. Options include:</p> <ul style="list-style-type: none"> <li>◦ Alert Type (default)</li> <li>◦ Tags (default)</li> <li>◦ Assignee (default)</li> <li>◦ Dark Web Term (default)</li> <li>◦ Entity Term (default)</li> <li>◦ Escalated (default)</li> <li>◦ Reviewed (default)</li> <li>◦ Network Source (default)</li> <li>◦ Notes (default)</li> <li>◦ Alert Review (default)</li> <li>◦ Rule Name (default)</li> <li>◦ Status (default)</li> <li>◦ Severity (default)</li> <li>◦ Targeted Entity (default)</li> <li>◦ Targeted Asset (default)</li> <li>◦ Targeted Asset Label (default)</li> <li>◦ Targeted Entity Label (default)</li> <li>◦ Protected Social Object</li> <li>◦ Affected Products (default)</li> <li>◦ Affected Vendors (default)</li> <li>◦ Perpetrator Name</li> <li>◦ Perpetrator Username</li> <li>◦ Perpetrator Network</li> </ul>
<b>Enable SSL Verification</b>	<p>Enable this option if the feed should verify the SSL certificate.</p>
<b>Disable Proxies</b>	<p>Enable this option to have the feed ignore proxies set in the ThreatQ UI.</p>

< ZeroFox Alerts



Disabled  Enabled

**Additional Information**

Integration Type: Feed

Version:

Configuration Activity Log

**Authentication**

API Token   
Enter your ZeroFox API Token, found in your user profile

**API Filtering**

**Severity Filter**

Select which severities for alerts you want to ingest into ThreatQ

- Info
- Low
- Medium
- High
- Critical

**Status Filter**

Select which statuses for alerts you want to ingest into ThreatQ

- Closed
- Open
- Escalated
- Investigation Completed
- Takedown Accepted
- Takedown Denied
- Takedown Requested
- Takedown Submitted

**Ingest Options**

- Ingest Only Escalated Alerts  
Ingest alerts that are currently marked as Escalated, or have been Escalated in the past

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

## ZeroFox Alerts (Feed)

This feed automatically pulls brand alerts from the ZeroFox API.

GET <https://api.zerofox.com/1.0/alerts>

Sample Response:

```
{
  "count": 5,
  "next": null,
  "previous": null,
  "page_size": 100,
  "num_pages": 1,
  "alerts": [
    {
      "alert_type": "search query",
      "logs": [
        {
          "id": 238682352,
          "timestamp": "2021-09-28T17:36:48+00:00",
          "actor": "ZeroFox Platform Specialist",
          "subject": "",
          "action": "cancel takedown"
        },
        {
          "id": 228353522,
          "timestamp": "2021-08-18T04:36:52+00:00",
          "actor": "api_metronlabs",
          "subject": "",
          "action": "request takedown"
        }
      ]
    },
    {
      "offending_content_url": "http://acme-corporation.com",
      "asset_term": null,
      "assignee": "Kishaas",
      "entity": {
        "id": 1163869,
        "name": "Acme Corporation",
        "image": "https://cdn.zerofox.com/media/entityimages/r12rybmrht5k7890b3g93i7sifh9epsupwe2xmy5h82jyv8dtznzbnbr20n2eri.jpg",
        "labels": [
          {
            "id": 2036277,
            "name": "Brand"
          }
        ]
      }
    }
  ],
}
```

```

        "entity_group": {
            "id": 6397,
            "name": "Default"
        }
    },
    "entity_term": null,
    "content_created_at": "2021-04-21T18:05:16+00:00",
    "id": 135985017,
    "severity": 4,
    "perpetrator": {
        "name": "Concealed",
        "display_name": "Concealed",
        "id": 199987205,
        "url": "http://acme-corporation.com",
        "content": "",
        "type": "page",
        "timestamp": "2021-04-21T18:05:16+00:00",
        "network": "domains",
        "username": "Jake"
    },
    "rule_group_id": 457,
    "asset": {
        "id": 1163869,
        "name": "Acme Corporation",
        "image": "https://cdn.zerofox.com/media/entityimages/
r12rybmrht5k7890b3g93i7sifh9epsupwe2xmy5h82jyv8dtnzbwnbr20n2eri.jpg",
        "labels": [
            {
                "id": 2036277,
                "name": "Brand"
            }
        ],
        "entity_group": {
            "id": 6397,
            "name": "Default"
        }
    },
    "metadata": "{\n
        \"ai_confidence_display\": [\n
    {\n
        \"color\": \"#0072ce\", \n
        \"detections\": [\n
    {\n
        \"confidence\": 0.9999945766507031, \n
        \"label\": \"English\" \n
        } \n
        ], \n
        \"icon\": \"chat\", \n
        \"name\": \"Language
Detection\" \n
        } \n
        ], \n
        \"alert_modal\": {\n
        \"a_records\": [\"web.netzerv.com A 13.58.70.70\"], \n
        \"analysis\": 1, \"live\": true, \"mx_records\": [], \n
        \"redirects\": [
        {\n
        \"acme-corporation.com/wp-login.php?redirect_to=acme-
corporation.com\", \n
        \"acme-corporation.com\" \n
        } \n
        ], \n
        \"screenshot\": \"https://storage.restpack.io/screenshot/
0b38694ae1f34d41c4dddfa53cf6f3df9aff607b48f855276983c83c03067cee\", \n
        \"whois\": \"% IANA WHOIS server\\\n% for more information on IANA, visit

```

```

http://www.iana.org\\\n% This query returned 1 object\\\n\\\nrefer:
whois.verisign-grs.com\\\n\\\nndomain:          COM\\\n\\\norganisation:
VeriSign Global Registry Services\\\naddress:    12061 Bluemont Way\\\n
\naddress:    Reston Virginia 20190\\\naddress:    United States\\\n\\\n\\\n
\ncontact:    administrative\\\nname:          Registry Customer Service\\\n
\norganisation: VeriSign Global Registry Services\\\naddress:    12061
Bluemont Way\\\naddress:    Reston Virginia 20190\\\naddress:    United
States\\\n\nphone:    +1 703 925-6999\\\n\nfax-no:    +1 703 948 3978\\\n
\nne-mail:    info@verisign-grs.com\\\n\\\n\\\ncontact:    technical\\\n
\nname:    Registry Customer Service\\\norganisation: VeriSign Global
Registry Services\\\naddress:    12061 Bluemont Way\\\naddress:    Reston
Virginia 20190\\\naddress:    United States\\\n\nphone:    +1 703
925-6999\\\n\nfax-no:    +1 703 948 3978\\\n\nne-mail:    info@verisign-
grs.com\\\n\\\n\\\nnservers:    A.GTLD-SERVERS.NET 192.5.6.30
2001:503:a83e:0:0:0:2:30\\\nnservers:    B.GTLD-SERVERS.NET 192.33.14.30
2001:503:231d:0:0:0:2:30\\\nnservers:    C.GTLD-SERVERS.NET 192.26.92.30
2001:503:83eb:0:0:0:0:30\\\nnservers:    D.GTLD-SERVERS.NET 192.31.80.30
2001:500:856e:0:0:0:0:30\\\nnservers:    E.GTLD-SERVERS.NET 192.12.94.30
2001:502:1ca1:0:0:0:0:30\\\nnservers:    F.GTLD-SERVERS.NET 192.35.51.30
2001:503:d414:0:0:0:0:30\\\nnservers:    G.GTLD-SERVERS.NET 192.42.93.30
2001:503:eea3:0:0:0:0:30\\\nnservers:    H.GTLD-SERVERS.NET 192.54.112.30
2001:502:8cc:0:0:0:0:30\\\nnservers:    I.GTLD-SERVERS.NET 192.43.172.30
2001:503:39c1:0:0:0:0:30\\\nnservers:    J.GTLD-SERVERS.NET 192.48.79.30
2001:502:7094:0:0:0:0:30\\\nnservers:    K.GTLD-SERVERS.NET 192.52.178.30
2001:503:d2d:0:0:0:0:30\\\nnservers:    L.GTLD-SERVERS.NET 192.41.162.30
2001:500:d937:0:0:0:0:30\\\nnservers:    M.GTLD-SERVERS.NET 192.55.83.30
2001:501:b1f9:0:0:0:0:30\\\nnds-rdata:    30909 8 2
E2D3C916F6DEEAC73294E8268FB5885044A833FC5459588F4A9184CFC41A5766\\\n\\\n\\\n
\nwhois:    whois.verisign-grs.com\\\n\\\n\\\nstatus:    ACTIVE\\\n
\nremarks:    Registration information: http://www.verisigninc.com\\\n\\\n\\\n
\ncreated:    1985-01-01\\\n\nchanged:    2017-10-05\\\n\\\n\nsource:    IANA\
\\\n\\\n\\\n\\\n\n"
    },\n\n
    \n"enrichment": {\n
\n"analysis-message-mapper": {\n
    \n"enterpriseID": 5031,\n
\n"entityID": 1163869,\n
    \n"images": [\n
    \n"field": "content.domain.screenshot",\n
    \n"item":
\n"https://storage.restpack.io/screenshot/
0b38694ae1f34d41c4ddfd53cf6f3df9aff607b48f855276983c83c03067cee"\n
    ]\n
    ],\n
    \n"network": "domains",\n
\n"relation": "search_query",\n
    \n"serviceOrigin": "analyst-
console",\n
    \n"subtype": "unspecified",\n
\n"texts": null,\n
    \n"type": "page",\n
    \n"urls":
null\n
    },\n
    \n"language-detection": {\n
\n"confidence": 0.9999961125,\n
    \n"detected_language": "en",\n
\n"detection_method": "languageProbability",\n
    \n"language_probability": {\n
    \n"en":
0.9999961125\n
    },\n
    \n"text": "acme-
corporation.com"\n
    },\n
    \n"nlp-utils": {\n
\n"lemmatized_and_stop_words_filter": "acme-corporation.com",\n
\n"nlp_model": "en"\n
    },\n
    \n"ocr-analysis": {\n
\n"data": [\n
    \n"details": {\n
\n"bounding_boxes": [ [ [ 203, 599 ], [ 275, 618 ] ], [ [ 170, 665 ], [ 206,

```

```

679 ] ], [ [ 214, 664 ], [ 308, 683 ] ], [ [ 197, 727 ], [ 242, 740 ] ],
[ [ 247, 727 ], [ 283, 740 ] ] ],\n                \"confidences\":
[ 0.96, 0.96, 0.96, 0.96, 0.77 ],\n                \"height\": 900,\n
\"width\": 800,\n                \"words\": [\n
\"Register\",,\n                \"Lost\",,\n
\"password?\",,\n                \"Privacy\",,\n
\"Policy\"\\n                ]\n                },\n
\"image\": \"https://storage.restpack.io/screenshot/
0b38694ae1f34d41c4dddfa53cf6f3df9aff607b48f855276983c83c03067cee\"\\n
        }\n                ]\n                }\n                },\n\n
\"image_overlays\": [\n                {\n                \"image_url\": \"https://
storage.restpack.io/screenshot/
0b38694ae1f34d41c4dddfa53cf6f3df9aff607b48f855276983c83c03067cee\",,\n
\"image_width\": 800,\n                \"image_height\": 650,\n
\"image_highlights\": [],,\n                \"image_discovered_text\": \"Register
Lost password? Privacy Policy\"\\n                }\n                ],,\n\n
\"occurrences\": [\n                {\n                \"origin\": null,\n
\"term\": \"acme-corporation.com\"\\n                }\n                ]\n                }",
        "status": "Open",
        "timestamp": "2021-10-04T04:55:00+00:00",
        "rule_name": "Advanced Domain Analysis - Full String Match",
        "last_modified": "2021-10-04T05:14:12Z",
        "protected_locations": null,
        "darkweb_term": null,
        "business_network": null,
        "reviewed": true,
        "escalated": true,
        "network": "domains",
        "protected_social_object": null,
        "notes": "Impersonation - Name",
        "reviews": [
            {
                "id": 204501,
                "label": "NOT_HELPFUL",
                "alert": 135985017,
                "created_by": "",
                "timestamp": "2021-06-29T11:42:10Z"
            },
            {
                "id": 204502,
                "label": "IRRELEVANT",
                "alert": 135985017,
                "created_by": "",
                "timestamp": "2021-06-29T11:48:17Z"
            }
        ],
        "rule_id": 38161,
        "entity_account": null,
        "entity_email_receiver_id": null,
        "tags": [
            "a-record",

```

```

    "matching-term",
    "live-domain",
    "test",
    "tag",
    "skopje"
  ]
}
]
}

```

ThreatQ provides the following default mapping for this feed:



These mappings are based on the data pulled from the alerts list from the API response.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.alerts[].alert_type/rule_name/severity/id</code>	Event.Title	Alert	<code>.alerts[].timestamp</code>	[Search Query] Inferred Vulnerability \\ Acme Corp \\ Vulnerabilities (Severity: Medium; ID: 142919722)	Key values are concatenated to form title
<code>.alerts[].content_created_at</code>	Event.Happened_at	N/A	<code>.alerts[].timestamp</code>	2021-04-21T18:05:16+00:00	N/A
<code>.alerts[].offending_content_url</code>	Related Indicator.Value	URL or FQDN	<code>.alerts[].timestamp</code>	http://acme-corporation.com	This is not always present. Will be an FQDN if <code>.network == 'domains'</code>
<code>.alerts[].perpetrator_url</code>	Related Indicator.Value	URL	<code>.alerts[].timestamp</code>	http://acme-corporation.com	This is not always present
<code>.alerts[].tags[]</code>	Event.Tag	N/A	<code>.alerts[].timestamp</code>	a-record	Configurable
<code>.alerts[].perpetrator_name</code>	Event.Attribute	Perpetrator Name	<code>.alerts[].timestamp</code>	Concealed	Configurable
<code>.alerts[].perpetrator_username</code>	Event.Attribute	Perpetrator Username	<code>.alerts[].timestamp</code>	Jake	Configurable
<code>.alerts[].perpetrator_network</code>	Event.Attribute	Perpetrator Network	<code>.alerts[].timestamp</code>	domains	Configurable
<code>.alerts[].alert_type</code>	Event.Attribute	Alert Type	<code>.alerts[].timestamp</code>	search query	Configurable
<code>.alerts[].assignee</code>	Event.Attribute	Assignee	<code>.alerts[].timestamp</code>	Kishaas	Updatable, Configurable
<code>.alerts[].darkweb_term</code>	Event.Attribute	Dark Web Term	<code>.alerts[].timestamp</code>	N/A	Configurable
<code>.alerts[].entity_term</code>	Event.Attribute	Entity Term	<code>.alerts[].timestamp</code>	N/A	Configurable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.alerts[].escalated</code>	Event.Attribute	Escalated	<code>.alerts[].timestamp</code>	True	Mapped to True or False, Updatable, Configurable
<code>.alerts[].reviewed</code>	Event.Attribute	Reviewed	<code>.alerts[].timestamp</code>	False	Mapped to True or False, Updatable, Configurable
<code>.alerts[].network</code>	Event.Attribute	Network Source	<code>.alerts[].timestamp</code>	domains	Configurable
<code>.alerts[].notes</code>	Event.Attribute	Note	<code>.alerts[].timestamp</code>	Impersonation - Name	Configurable
<code>.alerts[].reviews.label</code>	Event.Attribute	Alert Review	<code>.alerts[].timestamp</code>	NOT_HELPFUL	Configurable
<code>.alerts[].rule_name</code>	Event.Attribute	Rule Name	<code>.alerts[].timestamp</code>	Advanced Domain Analysis - Full String Match	Configurable
<code>.alerts[].severity</code>	Event.Attribute	Severity	<code>.alerts[].timestamp</code>	4	Mapped to string-value, Configurable
<code>.alerts[].status</code>	Event.Attribute	Status	<code>.alerts[].timestamp</code>	Open	Updatable, Configurable
<code>.alerts[].entity.name</code>	Event.Attribute	Targeted Entity	<code>.alerts[].timestamp</code>	Acme Corporation	Configurable
<code>.alerts[].asset.name</code>	Event.Attribute	Targeted Asset	<code>.alerts[].timestamp</code>	Acme Corporation	Configurable
<code>.alerts[].asset.labels.name</code>	Event.Attribute	Targeted Asset Label	<code>.alerts[].timestamp</code>	Brand	Configurable
<code>.alerts[].entity.labels.name</code>	Event.Attribute	Targeted Entity Label	<code>.alerts[].timestamp</code>	Brand	Configurable
<code>.alerts[].protected_social_object</code>	Event.Attribute	Protected Social Object	<code>.alerts[].timestamp</code>	N/A	Configurable
<code>.alerts[].metadata.alert_reasons[].value.text_content</code>	Event.Attribute	Affected Product	<code>.alerts[].timestamp</code>	adobe_flashplayer	When the alert reason type is Product, Configurable
<code>.alerts[].metadata.alert_reasons[].value.text_content</code>	Event.Attribute	Affected Vendor	<code>.alerts[].timestamp</code>	google	When the alert reason type is Vendor, Configurable
<code>.alerts[].metadata.alert_reasons[].value.text_content</code>	Event.Vulnerability	N/A	<code>.alerts[].timestamp</code>	CVE-2024-12345	When the alert reason type is Vulnerability Name

## Severity Map

METRIC	VALUE
1	Info
2	Low
3	Medium
4	High
5	Critical

# 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.

## ZeroFox Alerts

METRIC	RESULT
Run Time	1 min
Events	5
Event Attributes	60
Indicators	5

---

# Change Log

- **Version 1.3.0**
  - Removed the **ZeroFox Campaigns** and **ZeroFox Indicator** feeds due to their endpoints being deprecated by the provider.
  - Resolved an issue that would trigger an error with the **ZeroFox Alerts** feed when the response from the provider is malformed.
- **Version 1.2.0**
  - Added the following configuration parameters to all feeds: **Enable SSL Verification** and **Disable Proxies**.
  - Added the following configuration parameters to the ZeroFox Alerts feed:
    - **Only Ingest Escalated Alerts** - only ingest alerts marked as escalated or have been escalated in the past.
    - **Ingest CVEs As** - select how to ingest CVEs.
    - **Context Filter** - select the pieces of context to ingest with each alert.
  - Performed the following updates to the ZeroFox Alerts feed:
    - Improved the Event Title attribute to contain the following additional information:
      - Target Asset/Entity
      - Source Network
    - Added HTML rich text descriptions to the Event objects.
    - The following attributes will now be included in the description:
      - Offending Content URL
      - Perpetrator URL
      - Perpetrator Type
    - Added the ability to:
      - extract and relate vulnerabilities (CVEs) from the alert metadata.
      - extract affected products/vendors from the alert metadata into attributes.
      - extract compromised account credentials from the alert metadata into the description.
    - Added the ability to update single-value attributes.
    - The perpetrator URL will no longer be added as a related indicator.
    - The Offending content URL will no longer be added as a related indicator if it's a ZeroFox URL.
    - The ZeroFox Alert Link attribute has been moved to the description as a hyperlink.
    - Added better handling for situations where there are multiple notes in an alert.
    - Multiple notes will now be divided into multiple attributes.
  - Updated the minimum ThreatQ version to 5.12.1.
- **Version 1.1.2**
  - Resolved an issue where users encountered a `TypeError ('Cannot parse argument of type None.')` error.
- **Version 1.1.1**
  - Updated the integration for improved handle incomplete metadata JSON responses and the offending content URL field.
- **Version 1.1.0**

- Added ZeroFox Alerts feed.
- **Version 1.0.0**
  - Initial Release