ThreatQuotient

A Securonix Company



Zscaler Action Bundle

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.3.1
Compatible with ThreatQ Versions	>= 6.1.0
ThreatQ TQO License Required	Yes
Support Tier	ThreatQ Supported

Introduction

The Zscaler Action Bundle integration provides ThreatQ users with the ability to export FQDNs, URLs, and IP Addresses in a ThreatQ data collection to a Zscaler URL Category. Users can also enrich selected indicators with information from Zscaler as well as clear URLs.

The integration provides the following actions:

- **Zscaler - Export URLs** - adds the indicators in a data collection to a predefined Zscaler URL Category.
- **Zscaler - Clear URL Category** - clears a category of URLs in Zscaler.
- **Zscaler - Get URL Categories** - enriches FQDNs and URLs with information from Zscaler.

The actions are compatible with the following indicator types:

- FQDN
- IP Address
- URL



This action is intended for use with ThreatQ TDR Orchestrator (TQO). An active TQO license is required for this feature.

Prerequisites

The following is required in order to install and use the action.

- An active ThreatQ TDR Orchestrator (TQO) license.
- A data collection containing at least one of the following indicator types:
  - FQDN
  - IP Address
  - URL
- Zscaler Username if using the `Combination of Basic Authentication and API Key` authentication method.
- Zscaler Password if using the `Combination of Basic Authentication and API Key` authentication method.
- ZScaler API Key if using the `Combination of Basic Authentication and API Key` authentication method.

  See the following link for additional information about the Zscaler API key: https://help.zscaler.com/zia/managing-cloud-service-api-key.
- OAuth 2.0 Client ID if using the `OAuth 2.0` authentication method.
- OAuth 2.0 Client Secret if using the `OAuth 2.0` authentication method.
- OAuth 2.0 Token Endpoint if using the `OAuth 2.0` authentication method.
- OAuth 2.0 Scope if using the `OAuth 2.0` authentication method.

  OAuth 2.0 credentials can be obtained from the OAuth 2.0 service console.

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 action zip file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the action zip file using one of the following methods:
    - Drag and drop the zip file into the dialog box
    - Select **Click to Browse** to locate the zip file on your local machine

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

You will still need to configure the action.

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 **Actions** option from the *Category* dropdown (optional).
3. Click on the action entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

   The configurations set on this page will be used as the default settings when inserting this action into a new workflow. Updating the configurations on this page will not update any instances of this action that have already been deployed to a workflow. In that scenario, you must update the action's configurations within the workflow itself.

Export URLs Parameters

PARAMETER	DESCRIPTION
Zscaler URL	Enter the full URL of your Zscaler instance.
Authentication Method	Select your Zscaler authentication method. Options include: ◦ Combination of Basic Authentication and API Key ◦ OAuth 2.0
Zscaler Username	Enter your Zscaler Cloud (ZIA) username to authenticate. This parameter is only accessible if you selected the `Combination of Basic Authentication`

PARAMETER	DESCRIPTION
	and `API Key` option for the **Authentication Method** parameter.
Zscaler Password	Enter your Zscaler Cloud (ZIA) password to authenticate. This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.
Zscaler ZIA API Key	Enter the API key provided in Zscaler. This can be found under Administration -> Cloud Service API Security in in your Zscaler instance. Additional information can be found at https://help.zscaler.com/zia/managing-cloud-service-api-key. This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.
OAuth 2.0 Client ID	Enter the public identifier issued to the client application during registration with the authorization server. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Client Secret	Enter the secret string used by the client application for authenticating with the authorization server. This information can be obtained from the OAuth 2.0 service console.

PARAMETER	DESCRIPTION
	This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Token Endpoint	Enter the endpoint used to obtain an access token. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Scope	Enter the scope to send in the authentication request. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
Enable SSL Verification	Enable or Disable Host SSL certificate verification.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Category Name	Enter a name for the category to export IOCs to when using the action.
Category Description	Enter a description for the category to export IOCs to when using the action.
Block Subdomains	Enable this parameter to prefix FQDN indicators with a period so Zscaler blocks all subdomains.

PARAMETER	DESCRIPTION
Automatically Activate Pending Changes	Enable this parameter to automatically activate pending policy/category changes after uploading the indicators.
Category Management Methodology	Select how category management should be applied when the action executes. This setting applies to both scheduled and manual runs. Options include: ◦ Match Data Collection Exactly ◦ Continuously Append to Category You can use the **Zscaler - Clear URL Category** action to gain more granular control over when categories are cleared. The **Category Management Methodology** configuration parameter, which provides enhanced flexibility and control, replaces the **Category Clearing Methodology** configuration parameter. By default, this integration no longer deletes categories. Instead, the `Match Data Collection Exactly` option ensures that URL categories are updated in place to reflect the current data set. Alternatively, selecting `Continuously Append to Category` allows categories to accumulate data across runs, with the option to clear them separately using the dedicated action. Review your workflows and action configurations to ensure they align with your intended category management approach and are updated to use the new methodology options.
Match Data Collection	Enable this parameter as confirmation that the action should match the data collection exactly. This is to prevent accidental data loss. ThreatQuotient recommends only using this parameter if you have

PARAMETER	DESCRIPTION
Exactly Confirmation	enabled the **Allow data to be Reprocessed** option with a value of `0` days within the individual workflow itself (under the action's Run Schedule heading). This parameter is only accessible if you have selected the `Match Data Collection Exactly` option for the **Category Management Methodology** parameter.
Objects Per Run	Enter the max number of objects to send to this action per run.

Clear URL Category Parameters

PARAMETER	DESCRIPTION
Zscaler URL	Enter the full URL of your Zscaler instance.
Authentication Method	Select your Zscaler authentication method. Options include: ◦ Combination of Basic Authentication and API Key ◦ OAuth 2.0
Zscaler Username	Enter your Zscaler Cloud (ZIA) username to authenticate. This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.
Zscaler Password	Enter your Zscaler Cloud (ZIA) password to authenticate.

PARAMETER	DESCRIPTION
	This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.
Zscaler ZIA API Key	Enter the API key provided in Zscaler. This can be found under Administration -> Cloud Service API Security in in your Zscaler instance. Additional information can be found at https://help.zscaler.com/zia/managing-cloud-service-api-key. This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.
OAuth 2.0 Client ID	Enter the public identifier issued to the client application during registration with the authorization server. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Client Secret	Enter the secret string used by the client application for authenticating with the authorization server. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.

PARAMETER	DESCRIPTION
OAuth 2.0 Token Endpoint	Enter the endpoint used to obtain an access token. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Scope	Enter the scope to send in the authentication request. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
Enable SSL Verification	Enable or Disable Host SSL certificate verification.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Category Name	Enter a name for the category to export IOCs to when using the action.
Clearing Methodology	Select which methodology to employ when checking to see if a category should be cleared. Options include: ◦ Clear on every run ◦ Clear if category URL count is greater than threshold ◦ Clear if remaining total URL quota is less than threshold ◦ Clear if category URL count is greater than X percent of the total URL quota

PARAMETER	DESCRIPTION
Clear Category if URL Count is Greater Than...	Enter the minimum number of URLs required to clear the category. This option is only available if you selected **Clear if category URL count is greater than threshold** as the **Clearing Methodology** above.
Clear Category if Remaining Total URL Quota is Less than...	Enter the maximum remaining URL quota required to clear the category. This option is only available if you selected **Clear if remaining total URL quota is less than threshold** as the **Clearing Methodology** above.
Clear Category if Count Exceeds X Percent of Total URL Quota	Enter the percentage of the total URL quota that the category URL count must exceed to clear the category. This option is only available if you selected **Clear if category URL count is greater than X percent of the total URL quota** as the **Clearing Methodology** above.
Automatically Activate Pending Changes	Enable this parameter to automatically activate pending policy/category changes after uploading the indicators.
Objects Per Run	Enter the max number of objects to send to this action per run.

Get URL Categories Parameters

PARAMETER	DESCRIPTION

PARAMETER	DESCRIPTION
Zscaler URL	Enter the full URL of your Zscaler instance.
Authentication Method	Select your Zscaler authentication method. Options include: ◦ Combination of Basic Authentication and API Key ◦ OAuth 2.0
Zscaler Username	Enter your Zscaler Cloud (ZIA) username to authenticate. This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.
Zscaler Password	Enter your Zscaler Cloud (ZIA) password to authenticate. This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.
Zscaler ZIA API Key	Enter the API key provided in Zscaler. This can be found under Administration -> Cloud Service API Security in in your Zscaler instance. Additional information can be found at https://help.zscaler.com/zia/managing-cloud-service-api-key. This parameter is only accessible if you selected the `Combination of Basic Authentication and API Key` option for the **Authentication Method** parameter.

PARAMETER	DESCRIPTION
OAuth 2.0 Client ID	Enter the public identifier issued to the client application during registration with the authorization server. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Client Secret	Enter the secret string used by the client application for authenticating with the authorization server. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Token Endpoint	Enter the endpoint used to obtain an access token. This information can be obtained from the OAuth 2.0 service console. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
OAuth 2.0 Scope	Enter the scope to send in the authentication request. This parameter is only accessible if you selected the `OAuth 2.0` option for the **Authentication Method** parameter.
Enable SSL Verification	Enable or Disable Host SSL certificate verification.

PARAMETER	DESCRIPTION
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Set Status to Active if Associated with a Security Alert	When enabled, indicators will get assigned a status of Active if the classification comes with a security alert.
Objects Per Run	Enter the max number of objects to send to this action per run.

5. Review any additional settings, make any changes if needed, and click on **Save**.

Actions

The following action is available:

ACTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
Zscaler - URL Category Export Indicators	Adds indicators to a predefined Zscaler URL Category.	Indicator	IP Address, URL, FQDN
Zscaler - Clear URL Category	Clears a category of URLs in Zscaler	Indicators	IP Address, URL, FQDN
Zscaler - Get URL Categories	Enriches Indicators with information from Zscaler	Indicators	URL, FQDN

Zscaler - Export URLs

The Zscaler - Export URLs action uploads the indicators from the selected collection to a predefined Zscaler URL Category. The name of the predefined category must be specified in the action configuration (**Category Name** parameter). The category will be deleted if it already exists, together with all the associated URLs and IP Addresses. The URLs are upload without the HTTP schema.

```
POST "{{ZSCALER_URL}}/api/v1/urlCategories"
```

Sample Body:

```
{
  "configuredName": "ThreatQ Blacklist",
  "superCategory": "SECURITY",
  "customCategory": true,
  "description": "Prioritized IOCs exported from the ThreatQ
platform.",
  "urls": [
    "217.60.9.178",
    "253.106.205.92.host.secureserver.net/konto-creedientials",
    "vetfashion.xyz/css/10/admin/index.php"
  ]
}
```

Sample Response:

```
{
  "configuredName": "ThreatQ Blacklist",
  "customCategory": true,
  "customIpRangesCount": 0,
  "customUrlsCount": 3,
  "dbCategorizedUrls": [],
  "description": "Prioritized IOCs exported from the ThreatQ
platform.",
  "editable": true,
  "id": "CUSTOM_04",
  "ipRangesRetainingParentCategoryCount": 0,
  "keywords": [],
  "keywordsRetainingParentCategory": [],
  "superCategory": "SECURITY",
  "type": "URL_CATEGORY",
  "urls": [
    "217.60.9.178",
```

```
    "vetfashion.xyz/css/10/admin/index.php",
    "253.106.205.92.host.secureserver.net/konto-creedientials"
  ],
  "urlsRetainingParentCategoryCount": 0,
  "val": 131
}
```


Zscaler - Clear URL Category

The Zscaler Clear URL Category action will clear a category of URLs in Zscaler. This is to help your team better manage your URL category lists since the limit is 25,000 URLs per organization.

```
GET "{{ZSCALER_URL}}/api/v1/urlCategories/lite"
```

Sample Response:


```
[
  {
    "configuredName": "ThreatQ Blacklist",
    "customCategory": true,
    "customIpRangesCount": 0,
    "customUrlsCount": 0,
    "dbCategorizedUrls": [],
    "description": "Prioritized IOCs exported from the ThreatQ
platform.",
    "editable": true,
    "id": "CUSTOM_06",
    "ipRangesRetainingParentCategoryCount": 0,
    "type": "URL_CATEGORY",
    "urls": [],
    "urlsRetainingParentCategoryCount": 0,
    "val": 133
  },
  {
    "configuredName": "ThreatQ Crypto Blacklist",
    "customCategory": true,
    "customIpRangesCount": 0,
    "customUrlsCount": 0,
    "dbCategorizedUrls": [],
    "description": "Prioritized IOCs exported from the ThreatQ
platform.",
    "editable": true,
```

```
    "id": "CUSTOM_07",
    "ipRangesRetainingParentCategoryCount": 0,
    "type": "URL_CATEGORY",
    "urls": [],
    "urlsRetainingParentCategoryCount": 0,
    "val": 141
  }
]
```


The IDs of the URL Categories that should be deleted are selected from the API Response according to Clearing Methodology configuration.

The .id is used to call the DELETE Endpoint: `DELETE "{{ZSCALER_URL}}/api/v1/urlCategories/{ID}"`

Zscaler - Get URL Categories

The Zscaler - Get URL Categories action will perform a bulk lookup for FQDN and URL classifications in Zscaler. Enrichment context such as the category, application, and if the URL has a security alert will be returned.

`POST "{{ZSCALER_URL}}/api/v1/urlLookup"`

Sample Body:

```
[
  "speedlab.com.eg"
]
```

Sample Response:


```
[
  {
    "url": "speedlab.com.eg",
    "urlClassifications": [
      "BLOG"
    ],
    "urlClassificationsWithSecurityAlert": [
      "MALWARE_SITE"
    ]
  }
]
```

ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.application	Indicator.Attribute	Application	N/A	N/A	N/A
.urlClassifications	Indicator.Attribute	Category	N/A	BLOG	N/A
.urlClassificationsWithSecurityAlert	Indicator.Attribute	Category	N/A	MALWARE_SITE	N/A
.urlClassificationsWithSecurityAlert	Indicator.Attribute	Has Security Alert	N/A	True	`True` if `urlClassificationsWithSecurityAlert` has a value, otherwise `False`

Known Issues / Limitations

- The changes to a URL Category must be activated in the Zscaler Portal. You can either enable the **Automatically Activate Pending Changes** configuration parameter to automatically activate any pending changes or go to the Zscaler Portal to manually activate them.
- Zscaler allows for a maximum of 25,000 values across all Categories.
- Zscaler allows for a maximum of 64 predefined categories.
- Zscaler does not accept URLs longer than 1024 characters. Anything longer than this limit is truncated.
- The endpoint used by `Zscaler - Get URL Categories` may somethings return a `412 Unexpected Error`. If this happens, the search will fail.

Change Log

- **Version 1.3.1**
  - Added a new configuration parameter, **Block Subdomains**, to the Export URLs action. When enabled, FQDN indicators are prefixed with a period so Zscaler blocks all subdomains.
- **Version 1.3.0**
  - The **Zscaler - Export URLs** action now updates URL categories in place by default to reflect the current data set, rather than clearing and recreating them on each run. It also introduces the ability to continuously append data across executions, with category clearing handled separately when needed.

    > ⚠ You should review your workflow and action configurations to ensure that they align with your desired category management methodology and are configured with the new parameters.

  - Added the following configuration parameters for the **Zscaler - Export URLs** action:
    - **Category Management Methodology** - select how you want category management to be handled when the action runs.
    - **Match Data Collection Exactly Confirmation** - confirm that you want match the data collection exactly.
  - Removed the following configuration parameters from the **Zscaler - Export URLs** action:
    - **Category Clearing Methodology**
    - **Clear on Every Run Confirmation**
- **Version 1.2.0**
  - Made the following updates to the **Zscaler - Export URLs** action:
    - Enhanced the **Zscaler – Export URLs** action by providing granular control over URL category clearing behavior, allowing categories to be cleared on every run, only during manual runs, or never, with a confirmation requirement to prevent accidental data loss when always clearing is selected.
    - Added the following new configuration parameters:
      - **Category Clearing Methodology** - specify how category clearing should be handled when the action runs.

        - **Clear on Every Run Confirmation** - prompts user confirmation that the action should clear the category on every run if you have selected the `Clear Category on Every Run` option for the **Category Clearing Methodology** parameter. This is to prevent accidental data loss.
    - Removed the **Clear Category on Manual Run** configuration parameter.
- **Version 1.1.2**
    - Added support for OAuth 2.0 authentication.
    - Added the following new configuration parameters to all actions:
        - **Authentication Method** - select your Zscaler authentication method. Options include `Combination of Basic Authentication and API Key` and `OAuth 2.0`.
        - **OAuth 2.0 Client ID** - enter the public identifier issued to the client application during registration with the authorization server.
        - **OAuth 2.0 Client Secret** - enter the secret string used by the client application for authenticating with the authorization server.
        - **OAuth 2.0 Token Endpoint** - enter the endpoint used to obtain an access token.
        - **OAuth 2.0 Scope** - enter the scope to send in the authentication request.
- **Version 1.1.1**
    - Resolved an issue with the **Automatically Activate Pending Changes** function when running an action from the Threat Library page (opposed to running the action within a workflow).
    - Resolved an issue with the first page for a newly created Zscaler URL Category when the **Clear Category on Manual Run** option is selected.
- **Version 1.1.0**
    - Added two new actions:
        - Zscaler - Clear URL Category
        - ZScaler - Export URL Categories
    - Renamed the **Zscaler URL Category Export Indicators** action to **Zscaler - Export URLs**.
    - Resolved the following issues:
        - conflicts would occur between actions within the same workflow

        - URL categories being cleared on each action run. Scheduled (incremental) runs will append new URLs to the category. Manual (full) runs will clear the category and add all URLs from your data collection.
    - Added a new parameter to the **Zscaler - Export URLs** action: **Clear Category on Manual Run.** This will allow users to append to existing categories on manual runs.
    - Added a new known issue for the **Zscaler - Get URL Categories** action regarding a `412 Unexpected Error`.
    - Renamed the integration to Zscaler Action Bundle.
- **Version 1.0.0**
    - Initial release