ThreatQuotient

ThreatQ Action Bundle for Microsoft Azure Sentinel

Version 1.1.2

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ThreatQ Supported

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Contents

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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

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.1.2
Compatible with ThreatQ Versions	>= 5.25.0
ThreatQ TQO License Required	Yes
Support Tier	ThreatQ Supported

Introduction

The ThreatQ Action Bundle for Microsoft Azure Sentinel provides actions that are used to enrich a specific collection and to add or delete them to/from your Microsoft Azure Sentinel instance.

The action yaml installs the following actions:

- **Microsoft Azure Sentinel Enrich Indicators** - queries indicators in the Threat Library against Microsoft Sentinel and enriches them with the returned data.
- **Microsoft Azure Sentinel Add Tag** - adds user defined tags to indicators in a data collection both in the Microsoft Sentinel context and in TQ.
- **Microsoft Azure Sentinel Export Collection** - queries indicators in the Threat Library against Microsoft Sentinel and adds them if not present.
- **Microsoft Azure Sentinel Export IOC** - exports indicators in the Threat Library to Microsoft Sentinel.
- **Microsoft Defender ATP Export Collection** - adds the indicators in the Threat Library to Microsoft Defender ATP.
- **Microsoft Azure Sentinel Delete Collection** - queries indicators in the Threat Library against Microsoft Sentinel and deletes them if present.
- **Microsoft Azure Sentinel Create Incidents** - uses ThreatQ objects to create incidents in Microsoft Sentinel.

The actions are compatible with the following object types:

- Campaigns
- Events
- Incidents
- Indicators
  - CIDR Block
  - Email Address
  - Filename
  - File Path
  - FQDN
  - IP Address
  - IPv6 Address
  - Mutex
  - URL
  - SHA-1
  - SHA-256
  - MD5

The actions return the following enriched system objects:

- Campaigns
  - Campaign Attributes
- Events
  - Event Attributes
- Incidents
  - Incident Attributes
- Indicators
  - Indicator Attributes

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

Prerequisites

- An active ThreatQ TDR Orchestrator (TQO) license.
- A data collection containing at least one of the following indicator objects:
  - CIDR Block
  - Email Address
  - Filename
  - File Path
  - FQDN
  - IP Address
  - IPv6 Address
  - Mutex
  - URL
  - SHA-1
  - SHA-256
  - MD5
- Application set up for Microsoft Azure
- Set Graph API Permissions
- Apply the Microsoft Contributor Role

Configure New Application

Before installing the integration on the ThreatQ side, you will need to configure a new application on Microsoft Azure. The following link will take you to Microsoft's documentation on how to connect Azure Sentinel to ThreatQ via an Azure Application. In the guide, you can skip step 4 as that step is handled by the ThreatQ integration.

https://docs.microsoft.com/en-us/azure/sentinel/connect-threat-intelligence#connect-azure-sentinel-to-your-threat-intelligence-platform

Alternatively, you can follow the instructions from the link below, without skipping any of the steps:

https://learn.microsoft.com/en-us/azure/sentinel/connect-threat-intelligence-tip#connect-azure-sentinel-to-your-threat-intelligence-platform

Use the following steps if you select **Azure Sentinel** as the **Target** in the connector configuration settings.

https://learn.microsoft.com/en-us/azure/sentinel/connect-threat-intelligence-upload-api

Applying Graph API Permissions

1. Navigate to your Azure App Registrations portal and open the ThreatQ integration app.

   > You can also search for `App Registrations` and then select the first option.

2. Open the ThreatQ integration App's configuration page.
3. Open the **API Permissions** tab located on the sidebar.
4. Click on the **Add a Permission** button.
5. Select the **Microsoft Graph** API.
6. Click on the **Application Permissions** option.
7. Search for `ThreatIndicators` and enable the `ThreatIndicators.ReadWrite.OwnedBy` entry.
8. Search for `SecurityAlert` and enable the `SecurityAlert.ReadWrite.All` entry.
9. Click on **Add Permissions** to add the two entries that have been enabled.

> You may need an administrator to grant admin consent after the permissions above have been applied.

Applying the Microsoft Contributor Role

The Microsoft Sentinel Contributor role should be assigned to application if you are using Microsoft Azure US Government Cloud environment.

1. Navigate to your Azure App Registrations portal and open the Log Analytics workspace.

   > You can also search for `Log Analytics workspaces` and then select the first option.

2. Open the workspace that contains your Microsoft Sentinel instance.
3. Click on the **Access Control (IAM)** tab.
4. Click on the **Add** dropdown and select the **Add Role Assignment** option.
5. Search for `Microsoft Sentinel Contributor` in the Add Role wizard and then click on **Next**.
6. Click on the **Select Members** button to open the search modal.
7. Use the search modal to search for your ThreatQ app registration.
8. Use the **Select** button to select the ThreatQ app.
9. Click on the **Review + Assign** button.
10. Review the assignment and then click on the **Review + Assign** button again.
11. You will now be able to see the role assignment you just added.

    > This information will not be accessible from the App's configuration page.

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:

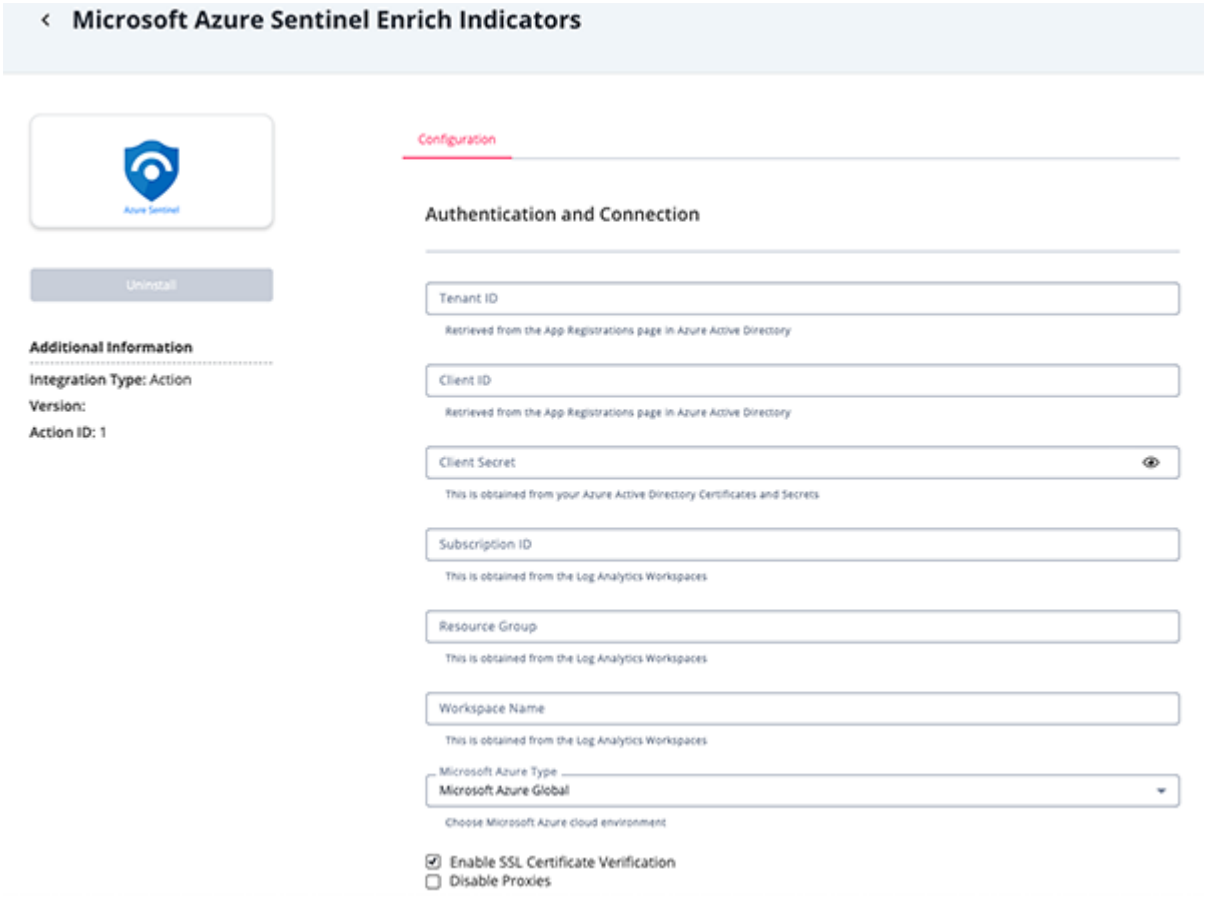
1. Navigate to your integrations management page in ThreatQ.
2. Select the **Actions** option from the *Category* dropdown (optional).
3. Click on the action entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

> 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.

Enrich Indicators Action Parameters

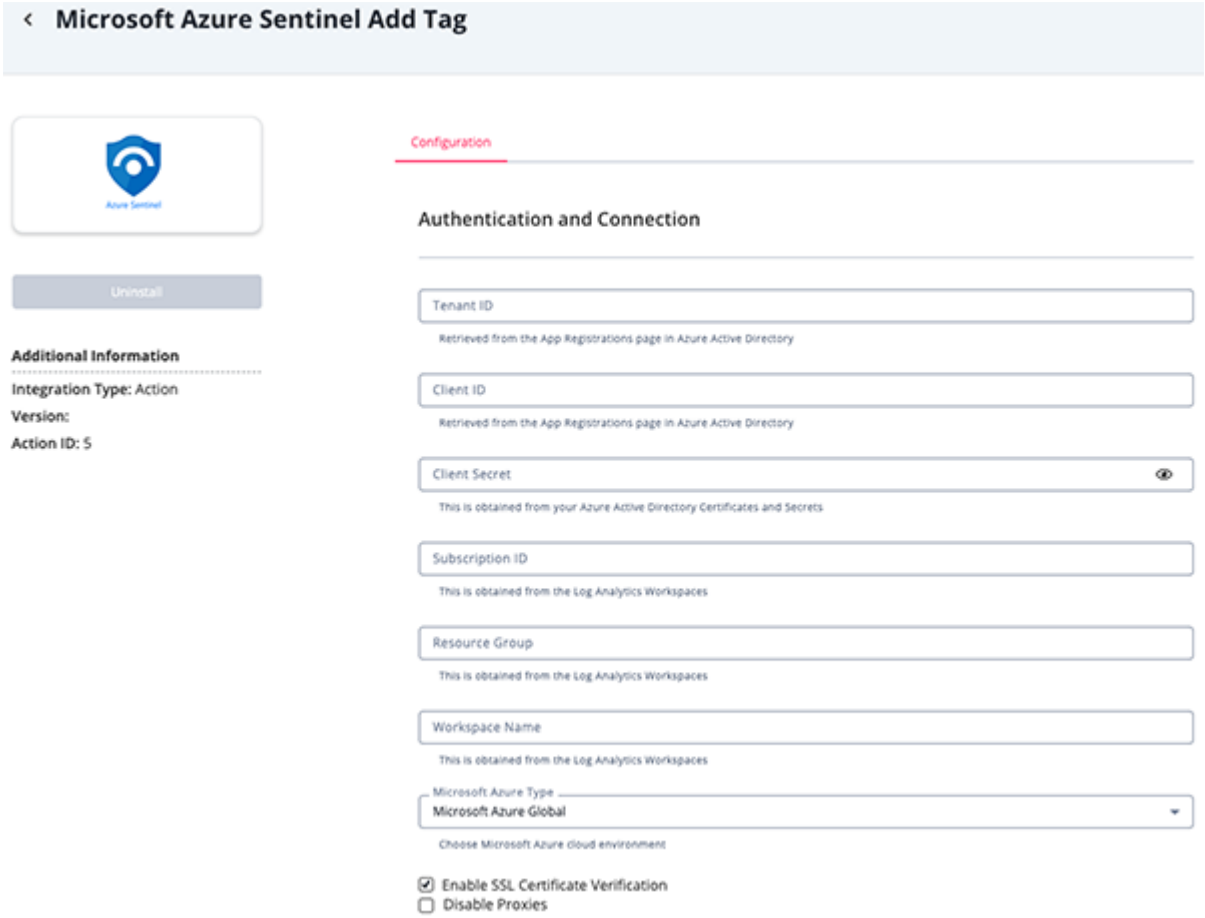
PARAMETER	DESCRIPTION
Tenant ID	Your Azure Tenant ID which can be retrieved from the App Registrations page in Azure Active Directory.
Client ID	Your Azure Client ID that can be retrieved from the App Registrations page in Azure Active Directory.
Client Secret	Your Azure Client Secret which can be retrieved from the Certificates & Secrets section.
Subscription ID	Your Azure subscription ID, obtained from the Log Analytics Workspaces.
Resource Group	The name of the resource group within the user's subscription, obtained from the Log Analytics Workspaces.

PARAMETER	DESCRIPTION
Workspace Name	The name of the workspace, obtained from the Log Analytics Workspaces.
Microsoft Azure Type	Select the Microsoft Azure cloud environment. Options include: ◦ Microsoft Azure Global ◦ Microsoft Azure US Government
Enable SSL Certificate Verification	Enable this for the action to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Objects Per Run	The max number of objects for the action to submit per run.



Add Tag Action Parameters

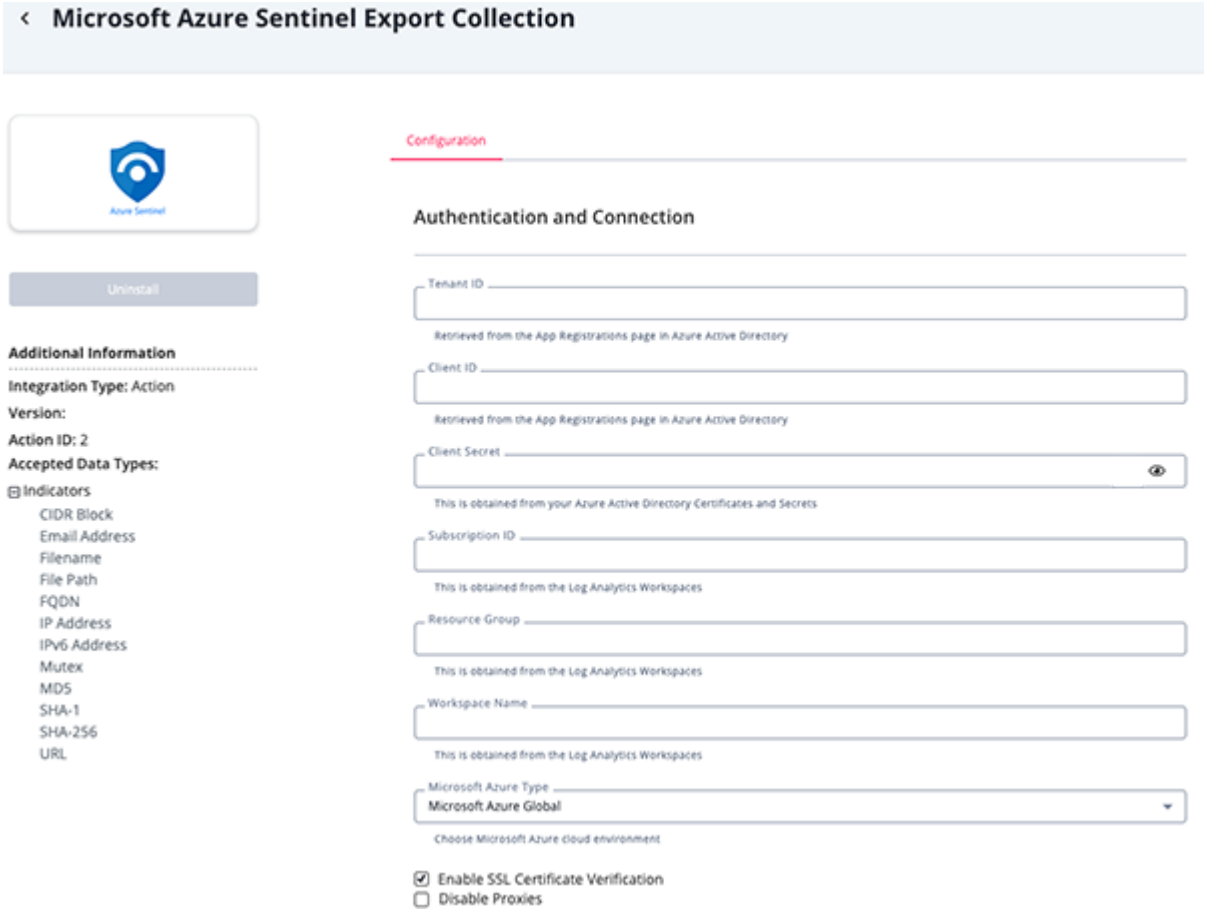
PARAMETER	DESCRIPTION
Tenant ID	Your Azure Tenant ID which can be retrieved from the App Registrations page in Azure Active Directory.
Client ID	Your Azure Client ID that can be retrieved from the App Registrations page in Azure Active Directory.
Client Secret	Your Azure Client Secret which can be retrieved from the Certificates & Secrets section.
Subscription ID	Your Azure subscription ID, obtained from the Log Analytics Workspaces.
Resource Group	The name of the resource group within the user's subscription, obtained from the Log Analytics Workspaces.
Workspace Name	The name of the workspace, obtained from the Log Analytics Workspaces.
Microsoft Azure Type	Select the Microsoft Azure cloud environment. Options include: ◦ Microsoft Azure Global ◦ Microsoft Azure US Government
Enable SSL Certificate Verification	Enable this for the action to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Tags	Enter a list of tags to be appended (separated by a comma).
Objects Per Run	The max number of objects for the action to submit per run.


Microsoft Azure Sentinel Add Tag
Azure Sentinel
Uninstall
Additional Information
Integration Type: Action
Version:
Action ID: 5
Configuration
Authentication and Connection
Tenant ID
Retrieved from the App Registrations page in Azure Active Directory
Client ID
Retrieved from the App Registrations page in Azure Active Directory
Client Secret
This is obtained from your Azure Active Directory Certificates and Secrets
Subscription ID
This is obtained from the Log Analytics Workspaces
Resource Group
This is obtained from the Log Analytics Workspaces
Workspace Name
This is obtained from the Log Analytics Workspaces
Microsoft Azure Type
Microsoft Azure Global
Choose Microsoft Azure cloud environment
Enable SSL Certificate Verification
Disable Proxies

Export Collection Action Parameters

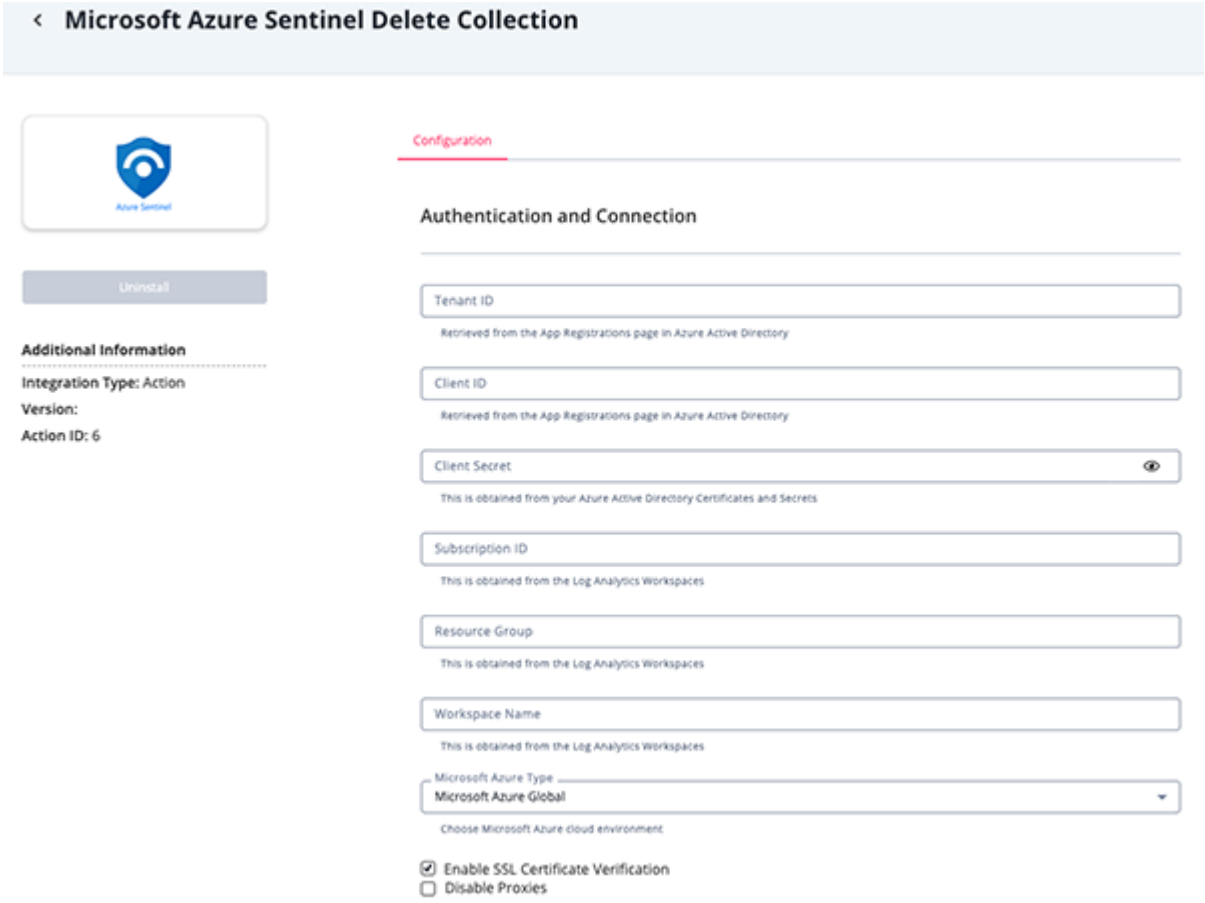
PARAMETER	DESCRIPTION
Tenant ID	Your Azure Tenant ID which can be retrieved from the App Registrations page in Azure Active Directory.
Client ID	Your Azure Client ID that can be retrieved from the App Registrations page in Azure Active Directory.
Client Secret	Your Azure Client Secret which can be retrieved from the Certificates & Secrets section.
Subscription ID	Your Azure subscription ID, obtained from the Log Analytics Workspaces.
Resource Group	The name of the resource group within the user's subscription, obtained from the Log Analytics Workspaces.
Workspace Name	The name of the workspace, obtained from the Log Analytics Workspaces.
Workspace ID	The ID of the workspace obtained from the Log Analytics Workspaces.
Microsoft Azure Type	Select the Microsoft Azure cloud environment. Options include: ◦ Microsoft Azure Global ◦ Microsoft Azure US Government
Enable SSL Certificate Verification	Enable this for the action to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.

PARAMETER	DESCRIPTION
Default Expiration Days	Enter the number of days the indicators remain valid.
Hostname	Your ThreatQ Hostname.
Related Context Filter	Select the pieces of context that should be exported.
Default Threat Type	Select the default threat type to apply to the exported IOCs if no suitable attribute exits. The `Default Threat Type` value can be overwritten by adding an indicator attribute whose value is a valid `Threat Type` value (based on the above options for `Default Threat Type`) or is an alias of a valid `Threat Type` based on the following mapping: `aliases = { 'C2': ['command and control', 'c&c', 'command & control'], 'DDoS': ['denial of service'], 'CryptoMining': ['crypto', 'mining', 'crypto miner'], 'Botnet': ['bot'] }`
Always use the selected Default Threat Type	Enable this field to always use the Default Threat Type selected above.
Objects Per Run	The max number of objects for the action to submit per run.


Microsoft Azure Sentinel Export Collection
Azure Sentinel
Uninstall
Additional Information
Integration Type: Action
Version:
Action ID: 2
Accepted Data Types:
Indicators
CIDR Block
Email Address
Filename
File Path
FQDN
IP Address
IPv6 Address
Mutex
MD5
SHA-1
SHA-256
URL
Configuration
Authentication and Connection
Tenant ID
Retrieved from the App Registrations page in Azure Active Directory
Client ID
Retrieved from the App Registrations page in Azure Active Directory
Client Secret
This is obtained from your Azure Active Directory Certificates and Secrets
Subscription ID
This is obtained from the Log Analytics Workspaces
Resource Group
This is obtained from the Log Analytics Workspaces
Workspace Name
This is obtained from the Log Analytics Workspaces
Microsoft Azure Type
Microsoft Azure Global
Choose Microsoft Azure cloud environment
Enable SSL Certificate Verification
Disable Proxies

Delete Collection Action Parameters

PARAMETER	DESCRIPTION
Tenant ID	Your Azure Tenant ID which can be retrieved from the App Registrations page in Azure Active Directory.
Client ID	Your Azure Client ID that can be retrieved from the App Registrations page in Azure Active Directory.
Client Secret	Your Azure Client Secret which can be retrieved from the Certificates & Secrets section.
Subscription ID	Your Azure subscription ID, obtained from the Log Analytics Workspaces.
Resource Group	The name of the resource group within the user's subscription, obtained from the Log Analytics Workspaces.
Workspace Name	The name of the workspace, obtained from the Log Analytics Workspaces.
Microsoft Azure Type	Select the Microsoft Azure cloud environment. Options include: ◦ Microsoft Azure Global ◦ Microsoft Azure US Government
Enable SSL Certificate Verification	Enable this for the action to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Objects Per Run	The max number of objects for the action to submit per run.


Microsoft Azure Sentinel Delete Collection
Uninstall
Additional Information
Integration Type: Action
Version:
Action ID: 6
Configuration
Authentication and Connection
Tenant ID
Retrieved from the App Registrations page in Azure Active Directory
Client ID
Retrieved from the App Registrations page in Azure Active Directory
Client Secret
This is obtained from your Azure Active Directory Certificates and Secrets
Subscription ID
This is obtained from the Log Analytics Workspaces
Resource Group
This is obtained from the Log Analytics Workspaces
Workspace Name
This is obtained from the Log Analytics Workspaces
Microsoft Azure Type
Microsoft Azure Global
Choose Microsoft Azure cloud environment
Enable SSL Certificate Verification
Disable Proxies

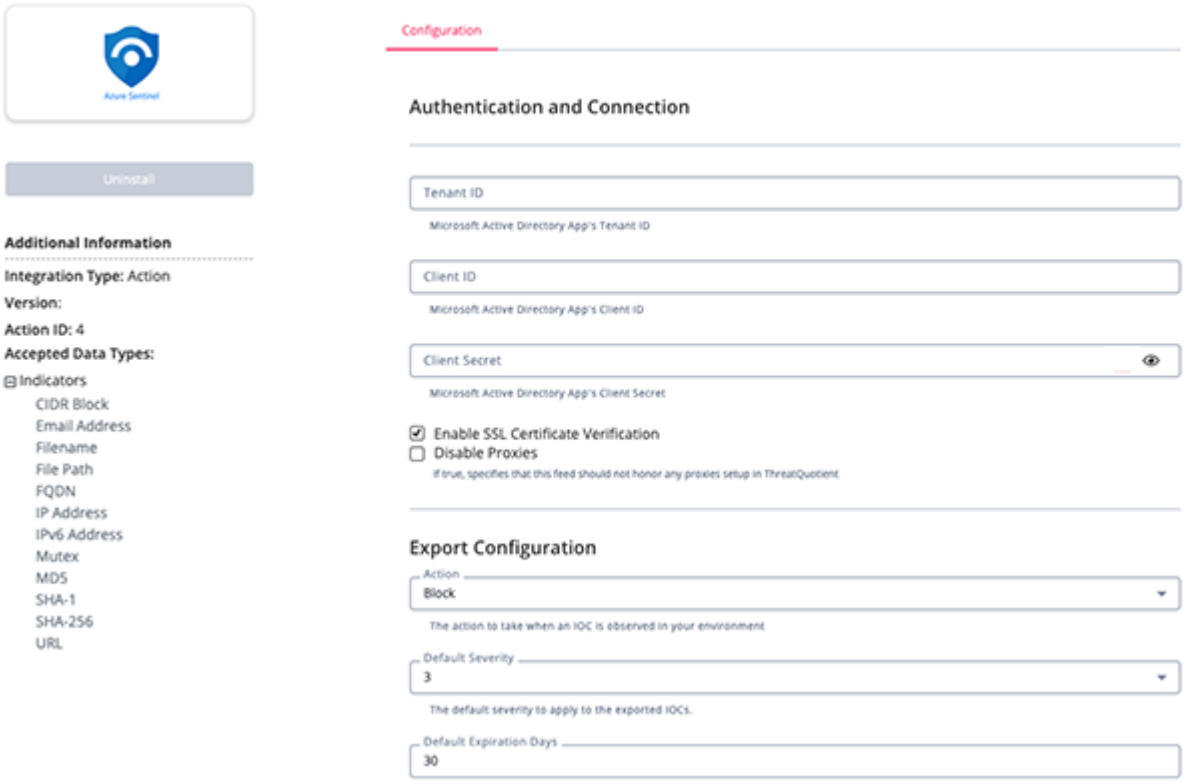
Defender ATP Export Collection Action Parameters

PARAMETER	DESCRIPTION
Tenant ID	Your Azure Tenant ID which can be retrieved from the App Registrations page in Azure Active Directory.
Client ID	Your Azure Client ID that can be retrieved from the App Registrations page in Azure Active Directory.
Client Secret	Your Azure Client Secret which can be retrieved from the Certificates & Secrets section.
Enable SSL Certificate Verification	Enable this for the action to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Action	The action to take when an IOC is observed in your environment. Options include: ◦ Unknown ◦ Allow ◦ Block ◦ Alert
Default Severity	The default severity to apply to the exported IOCs if attribute `Severity` is not present. The range available is 0 - 5. The `Default Severity` value can be overwritten by adding an indicator attribute whose name is `Severity` and whose value is between 0-5 (inclusive).
Default Expiration Days	Enter the number of days the indicators remain valid.

PARAMETER	DESCRIPTION
Hostname	Your ThreatQ Hostname.
Default Threat Type	Select the default threat type to apply to the exported IOCs if no suitable attribute exits. Options include: ◦ Botnet ◦ C2 ◦ Compromised ◦ CryptoMining ◦ Darknet ◦ DDoS ◦ MaliciousUrl ◦ Malware ◦ Phishing ◦ Proxy ◦ PUA ◦ WatchList The `Default Threat Type` value can be overwritten by adding an indicator attribute whose value is a valid `Threat Type` value (based on the above options for `Default Threat Type`) or is an alias of a valid `Threat Type` based on the following mapping: `aliases = { 'C2': ['command and control', 'c&c', 'command & control'], 'DDoS': ['denial of service'], 'CryptoMining': ['crypto', 'mining', 'crypto miner'], 'Botnet': ['bot'] }`
Always use the selected Default Threat Type	Enable this parameter to configure the action to always use the **Default Threat Type** selected above.
Related Context Filter	Select the pieces of context that should be exported. Options include: ◦ Indicator Descriptions ◦ Malware Family Attribute ◦ Attributes Having Valid Kill Chain Phases ◦ Related Adversaries
Behavior for URL indicators without a scheme defined	Defines how data collection URL indicators should be handled. Microsoft needs a scheme (http/https) defined for URL indicators. Options include: ◦ Skip Indicators

PARAMETER	DESCRIPTION
	◦ Add "http" ◦ Add "https"
Objects Per Run	The max number of objects for the action to submit per run.

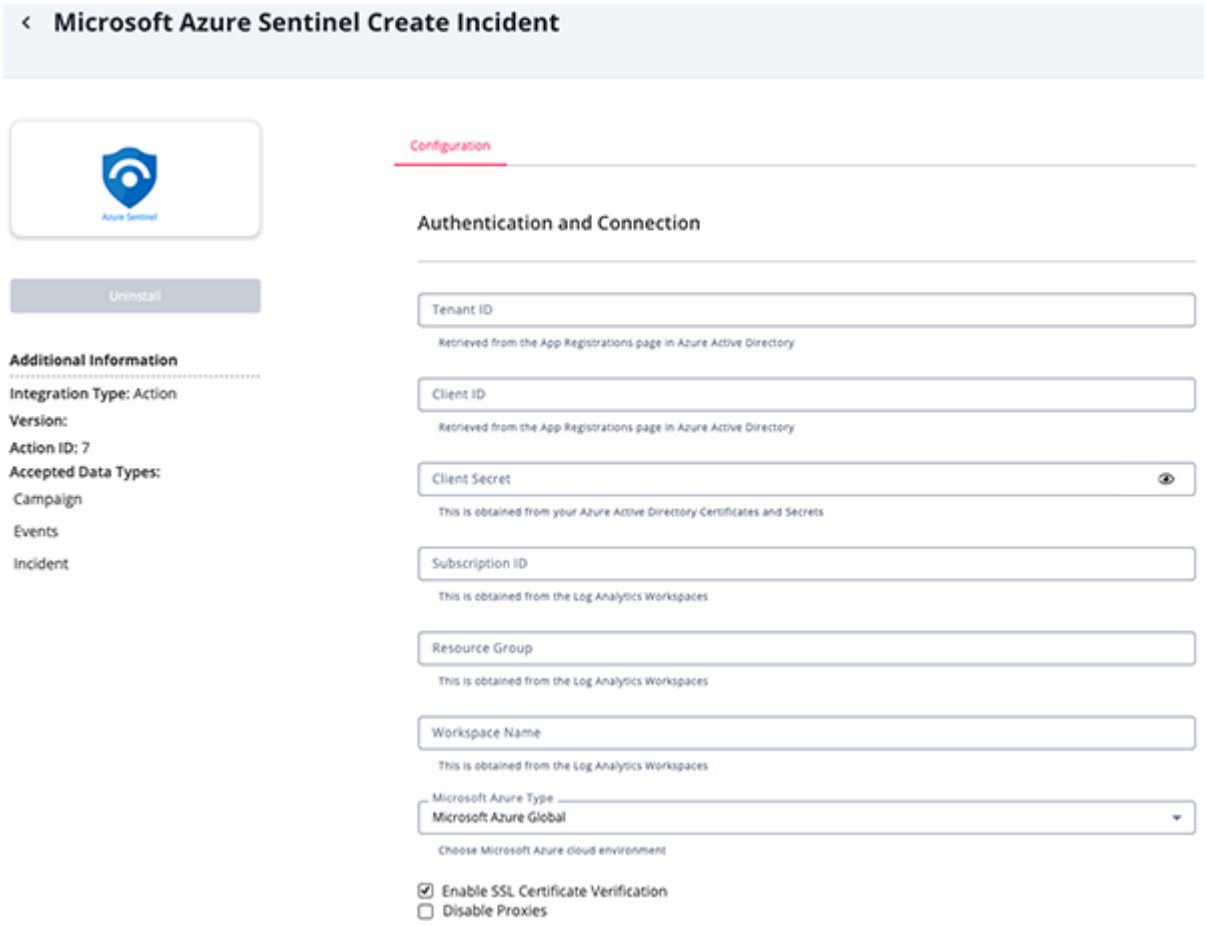
Microsoft Defender ATP Export Collection



Create Incident Action Parameters

PARAMETER	DESCRIPTION
Tenant ID	Your Azure Tenant ID which can be retrieved from the App Registrations page in Azure Active Directory.
Client ID	Your Azure Client ID that can be retrieved from the App Registrations page in Azure Active Directory.
Client Secret	Your Azure Client Secret which can be retrieved from the Certificates & Secrets section.
Subscription ID	Your Azure subscription ID, obtained from the Log Analytics Workspaces.
Resource Group	The name of the resource group within the user's subscription, obtained from the Log Analytics Workspaces.
Workspace Name	The name of the workspace, obtained from the Log Analytics Workspaces.
Microsoft Azure Type	Select the Microsoft Azure cloud environment. Options include: ◦ Microsoft Azure Global ◦ Microsoft Azure US Government
Enable SSL Certificate Verification	Enable this for the action to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Severity	The action to take when an IOC is observed in your environment. Options include: ◦ Informational ◦ Allow ◦ Block

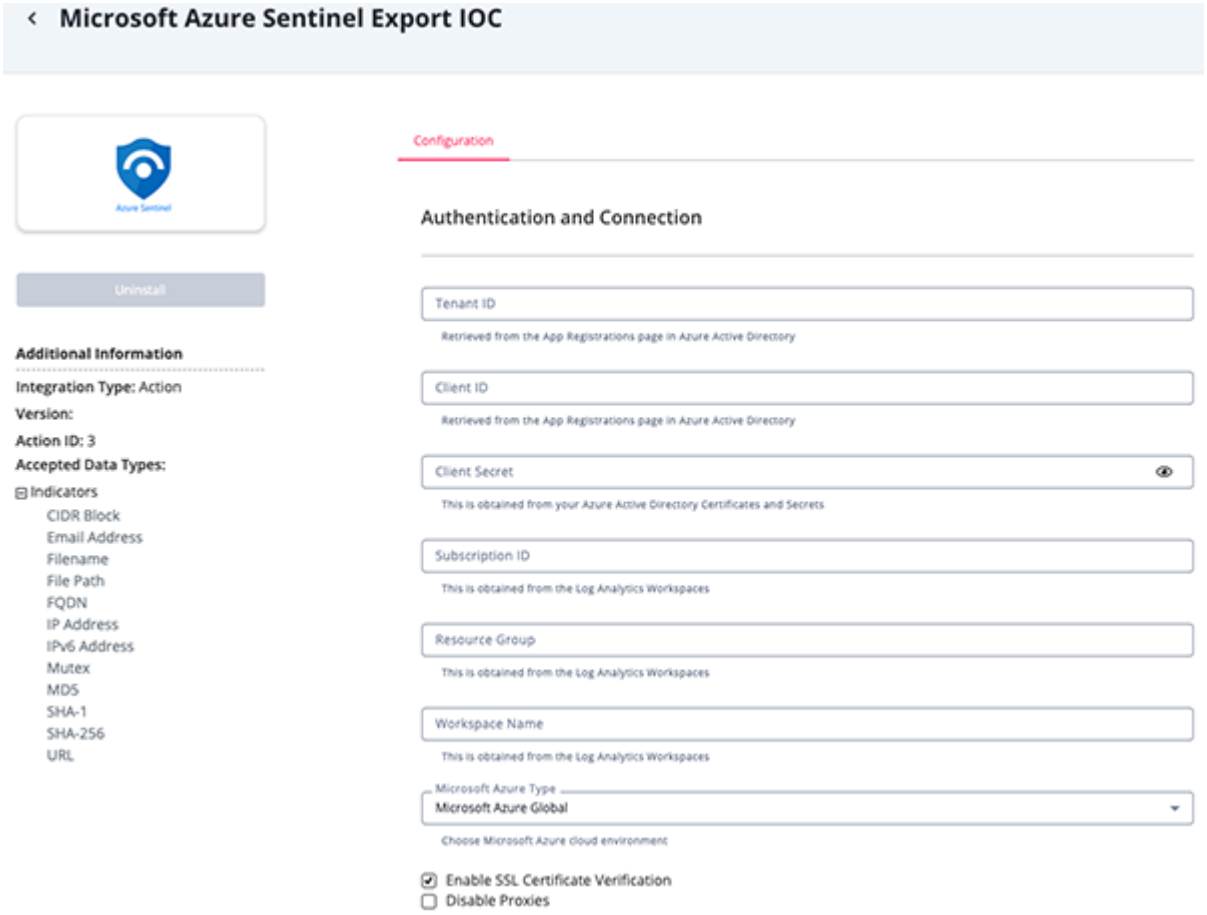
PARAMETER	DESCRIPTION
	◦ Alert
Status	The status of the incident that will be created. Options include: ◦ New ◦ Active ◦ Closed
Classification	Select the reason for closing the incident. Options include: ◦ Benign Positive ◦ False Positive ◦ True Positive ◦ Undetermined  This parameter will only be available if you selected **Closed** as your **Status**.
Classification Comment	Enter a reason for closing the incident.  This parameter will only be available if you selected **Closed** as your **Status**.
Classification Reason	Select the classification reason for why the incident was closed. Options include: ◦ Inaccurate Data ◦ Incorrect Alert Logic ◦ Suspicious Activity ◦ Suspicious But Expected  This parameter will only be available if you selected **Closed** as your **Status**.
Owner Email	The email of user the incident will be assigned to.
Objects Per Run	The max number of objects for the action to submit per run.


Microsoft Azure Sentinel Create Incident
Azure Sentinel
Uninstall
Additional Information
Integration Type: Action
Version:
Action ID: 7
Accepted Data Types:
Campaign
Events
Incident
Configuration
Authentication and Connection
Tenant ID
Retrieved from the App Registrations page in Azure Active Directory
Client ID
Retrieved from the App Registrations page in Azure Active Directory
Client Secret
This is obtained from your Azure Active Directory Certificates and Secrets
Subscription ID
This is obtained from the Log Analytics Workspaces
Resource Group
This is obtained from the Log Analytics Workspaces
Workspace Name
This is obtained from the Log Analytics Workspaces
Microsoft Azure Type
Microsoft Azure Global
Choose Microsoft Azure cloud environment
Enable SSL Certificate Verification
Disable Proxies

Export IOC Action Parameters

PARAMETER	DESCRIPTION
Tenant ID	Your Azure Tenant ID which can be retrieved from the App Registrations page in Azure Active Directory.
Client ID	Your Azure Client ID that can be retrieved from the App Registrations page in Azure Active Directory.
Client Secret	Your Azure Client Secret which can be retrieved from the Certificates & Secrets section.
Subscription ID	Your Azure subscription ID, obtained from the Log Analytics Workspaces.
Resource Group	The name of the resource group within the user's subscription, obtained from the Log Analytics Workspaces.
Workspace Name	The name of the workspace, obtained from the Log Analytics Workspaces.
Microsoft Azure Type	Select the Microsoft Azure cloud environment. Options include: ◦ Microsoft Azure Global ◦ Microsoft Azure US Government
Enable SSL Certificate Verification	Enable this for the action to validate the host-provided SSL certificate.
Disable Proxies	Enable this option if the action should not honor proxies set in the ThreatQ UI.
Default Expiration Days	Enter the number of days the indicators remain valid.

PARAMETER	DESCRIPTION
Hostname	Your ThreatQ Hostname.
Objects Per Run	The max number of objects for the action to submit per run.



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

Actions

The following actions are available:

FUNCTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
Microsoft Azure Sentinel Enrich Indicators	Enrich Indicators with attributes.	Indicators	CIDR Block, Email Address, Filename, File Path, IP Address, IPv6 Address, Mutex, URL, FQDN, MD5, SHA-256, SHA-1
Microsoft Azure Sentinel Add Tag	Add custom tags to the Indicators.	Indicators	CIDR Block, Email Address, Filename, File Path, IP Address, IPv6 Address, Mutex, URL, FQDN, MD5, SHA-256, SHA-1
Microsoft Azure Sentinel Export Collection	Add Indicators to Microsoft Azure Sentinel.	Indicators	CIDR Block, Email Address, Filename, File Path, IP Address, IPv6 Address, Mutex, URL, FQDN, MD5, SHA-256, SHA-1
Microsoft Defender ATP Export Collection	Add Indicators to Microsoft Defender ATP.	Indicators	CIDR Block, Email Address, Filename, File Path, IP Address, IPv6 Address, Mutex, URL, FQDN, MD5, SHA-256, SHA-1
Microsoft Azure Sentinel Delete Collection	Delete Indicators from Microsoft Azure Sentinel.	Indicators	CIDR Block, Email Address, Filename, File Path, IP Address, IPv6 Address, Mutex, URL, FQDN, MD5, SHA-256, SHA-1
Microsoft Azure Sentinel Create Incident	Creates Incidents in Microsoft Azure Sentinel.	Campaigns, Events, Incidents	N/A
Microsoft Azure Sentinel Export IOC	Add Indicators to Microsoft Azure Sentine.	Indicators	CIDR Block, Email Address, Filename, File Path, IP Address,

FUNCTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
			IPv6 Address, Mutex, URL, FQDN, MD5, SHA-256, SHA-1

Microsoft Azure Sentinel Enrich Indicators

This Microsoft Azure Sentinel Enrich Indicators action enriches the selected collection with attributes, tags and description.

```
POST "https://management.azure.com/subscriptions/{{subscription_id}}/
resourceGroups/{{resource_group}}/providers/Microsoft.OperationalInsights/
workspaces/{{workspace}}/providers/Microsoft.SecurityInsights/
threatIntelligence/main/queryIndicators?api-version=2021-10-01"
```

Sample Body

```
Form URL-Encoded
{"keywords": "114.33.22.185"}
```

Sample Response

```
{
  "value": [
   {
        "id": "/subscriptions/f1c10b41-49ff-4791-b366-b3bbb37fca4c/
resourceGroups/group1/providers/Microsoft.OperationalInsights/workspaces/
tqsentinal/providers/Microsoft.SecurityInsights/threatIntelligence/46a89ec4-
edc9-811f-1700-99f8b261ca6a",
        "name": "46a89ec4-edc9-811f-1700-99f8b261ca6a",
        "etag": "\"35007697-0000-0100-0000-6273b4eb0000\"",
        "type": "Microsoft.SecurityInsights/threatIntelligence",
        "kind": "indicator",
        "properties": {
            "confidence": 0,
            "created": "2022-01-25T15:24:50.2947152Z",
            "extensions": {
                "sentinelExtension": {
                    "severity": null
                },
                "isg-source-ext": {
                    "azureTenantId": "0b5a4827-4085-4ca9-a477-69bfd6ec7b76",
                    "networkIPv4": "114.33.22.185",
                    "targetProduct": "Azure Sentinel",
                    "threatType": "Darknet",
                    "id":
"0FAAB80706511F8F98301255D29FA34D1319303EC2A07374B85155E63E5A6CE4",
                    "ingestedDateTime": "2022-01-25T15:24:18.259557+00:00",
                    "action": "allow",
                    "additionalInformation": "https://127.0.0.1/indicators/
6793/details",
                    "activityGroupNames": [],
                    "confidence": 0,
                    "description": "IOC exported from ThreatQ",
                    "expirationDateTime": "2022-07-25T15:22:43+00:00",
                    "externalId": "6793",
```

```
                    "isActive": true,
                    "killChain": [],
                    "lastReportedDateTime": "2022-01-25T12:54:53+00:00",
                    "malwareFamilyNames": [],
                    "severity": 5,
                    "tags": [],
                    "tlpLevel": "unknown"
                }
            },
            "externalId": "indicator--001c5557-1145-5521-9967-eebe843d32ff",
            "externalLastUpdatedTimeUtc": "2022-01-25T15:24:18.259557Z",
            "lastUpdatedTimeUtc": "2022-01-25T15:24:50.2947486Z",
            "source": "SecurityGraph",
            "threatIntelligenceTags": [
                "tg1",
                "Test_tag",
                " Tag_2"
            ],
            "displayName": "Custom Threat Intelligence",
            "description": "IOC exported from ThreatQ",
            "threatTypes": [
                "Darknet"
            ],
            "parsedPattern": [
                {
                    "patternTypeKey": "ipv4-addr",
                    "patternTypeValues": [
                        {
                            "valueType": "ipv4-addr",
                            "value": "114.33.22.185"
                        }
                    ]
                }
            ],
            "pattern": "[ipv4-addr:value = '114.33.22.185']",
            "patternType": "stix",
            "validFrom": "2022-01-25T15:24:18.259557Z",
            "validUntil": "2022-07-25T15:22:43Z"
        }
    }
  ]
}
```

ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.value[].properties.description	Indicator.Description	N/A	N/A	IOC exported from ThreatQ	N/A
.value[].properties.threatIntelligenceTags	Indicator.Tag	N/A	N/A	tg1	N/A
.value[].properties.confidence	Indicator.Attribute	Confidence	.value[].properties.created	0	N/A
.value[].properties.extensions.isg-source-ext.severity	Indicator.Attribute	Severity	.value[].properties.created	5	N/A
.value[].properties.extensions.isg-source-ext.threatType	Indicator.Attribute	Threat Type	.value[].properties.created	Darknet	N/A
.value[].properties.source	Indicator.Attribute	Source	.value[].properties.created	SecurityGraph	N/A

Microsoft Azure Sentinel Add Tag

The Microsoft Azure Sentinel Add Tag action will enrich the selected collection with custom tags.

```
POST "https://management.azure.com/subscriptions/{{subscription_id}}/
resourceGroups/{{resource_group}}/providers/Microsoft.OperationalInsights/
workspaces/{{workspace}}/providers/Microsoft.SecurityInsights/
threatIntelligence/main/indicators/{{id}}/appendTags?api-version=2021-10-01"
```

Sample Body

```
Form URL-Encoded
{"threatIntelligenceTags": "tag1"}
```

Sample Response


```
{
    "id": "/subscriptions/f1c10b41-49ff-4791-b366-b3bbb37fca4c/resourceGroups/
group1/providers/Microsoft.OperationalInsights/workspaces/tqsentinal/providers/
Microsoft.SecurityInsights/threatIntelligence/
68cb63da-7104-79ea-3e90-0d48e8da87d3",
    "name": "68cb63da-7104-79ea-3e90-0d48e8da87d3",
    "etag": "\"3500e992-0000-0100-0000-6273b2440000\"",
    "type": "Microsoft.SecurityInsights/threatIntelligence",
    "kind": "indicator",
    "properties": {
        "confidence": 0,
        "created": "2022-01-25T15:24:46.0253884Z",
        "extensions": {
            "sentinelExtension": {
                "severity": null
            },
            "isg-source-ext": {
                "azureTenantId": "0b5a4827-4085-4ca9-a477-69bfd6ec7b76",
                "networkIPv4": "82.157.168.58",
                "targetProduct": "Azure Sentinel",
                "threatType": "Darknet",
                "id":
"FD300635CCE291874D9261CF32C969E040BF170383F3498783DCB46044F9D4C4",
                "ingestedDateTime": "2022-01-25T15:23:56.0167939+00:00",
                "action": "allow",
                "additionalInformation": "https://127.0.0.1/indicators/4856/
details",
                "activityGroupNames": [],
                "confidence": 0,
                "description": "IOC exported from ThreatQ",
                "expirationDateTime": "2022-07-25T15:22:43+00:00",
                "externalId": "4856",
                "isActive": true,
                "killChain": [],
                "lastReportedDateTime": "2022-01-25T12:53:37+00:00",
```

```
                "malwareFamilyNames": [],
                "severity": 5,
                "tags": [],
                "tlpLevel": "unknown"
            }
        },
        "externalId": "indicator--ffdafea4-f410-5a4a-bc71-a1f1e2d2b9ab",
        "externalLastUpdatedTimeUtc": "2022-01-25T15:23:56.0167939Z",
        "lastUpdatedTimeUtc": "2022-01-25T15:24:46.0254189Z",
        "source": "SecurityGraph",
        "threatIntelligenceTags": [
            "tag1",
            "tag2"
        ],
        "displayName": "Custom Threat Intelligence",
        "description": "IOC exported from ThreatQ",
        "threatTypes": [
            "Darknet"
        ],
        "parsedPattern": [
            {
                "patternTypeKey": "ipv4-addr",
                "patternTypeValues": [
                    {
                        "valueType": "ipv4-addr",
                        "value": "82.157.168.58"
                    }
                ]
            }
        ],
        "pattern": "[ipv4-addr:value = '82.157.168.58']",
        "patternType": "stix",
        "validFrom": "2022-01-25T15:23:56.0167939Z",
        "validUntil": "2022-07-25T15:22:43Z"
    }
}
```


ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.properties.threatIntelligenceTags[]	Indicator.Tag	N/A	N/A	tag1	N/A

Microsoft Azure Sentinel Export Collection

The Microsoft Azure Sentinel Export collection action will upload the indicators from the selected collection to Microsoft Sentinel Threat Intelligence Portal.

```
POST "https://management.azure.com/subscriptions/{{subscription_id}}/
resourceGroups/{{resource_group}}/providers/Microsoft.OperationalInsights/
workspaces/{{workspace}}/providers/Microsoft.SecurityInsights/
threatIntelligence/main/createIndicator?api-version=2024-03-01"
```

> The `Default Threat Type` value can be overwritten by adding an indicator attribute whose value is a valid Threat Type value (based on the above options for Default Threat Type) or is an alias of a valid Threat Type based on the following mapping:

```
aliases = {
    'C2': ['command and control', 'c&c', 'command & control'],
    'DDoS': ['denial of service'],
    'CryptoMining': ['crypto', 'mining', 'crypto miner'],
    'Botnet': ['bot']
}
```

Sample Body

```
{
  "kind": "indicator",
  "properties": {
      "confidence": 60,
      "created": "2024-09-02 06:17:59+00:00",
      "description": "IOC exported from ThreatQ. Details page: test.com/
indicators/518389/details , IOC Description: Description 2 , IOC Description:
Description 1 , Malware families: this is a fam , Adversaries: Action Fraud",
      "displayName": "ThreatQ Identified IOC",
      "externalReferences": [
          {
              "externalId": 518389,
              "sourceName": "ThreatQ",
              "url": "test.com/indicators/518389/details"
          }
      ],
      "kill_chain_phases": [],
      "labels": [
          "ipscontactedbyadetectedfile",
          "self-signed",
          "untitled_yara_ruleset"
      ],
      "modified": "2024-09-02 06:17:59+00:00",
      "pattern": "[ipv4-addr:value = '142.251.111.138']",
      "patternType": "ipv4-addr",
      "source": "ThreatQ",
      "threatIntelligenceTags": [
```

```
          "External Source: VirusTotal IOC Stream",
          "External Source: Adversary Reader"
      ],
      "validFrom": "2024-09-02 06:17:59+00:00",
      "validUntil": "2024-08-27T00:00:00Z"
  }
}
```

Sample Response

```
{
    "etag": "\"060047e2-0000-0100-0000-66d5589b0000\"",
    "id": "/subscriptions/f1c10b41-49ff-4791-b366-b3bbb37fca4c/resourceGroups/
group1/providers/Microsoft.OperationalInsights/workspaces/tqsentinal/providers/
Microsoft.SecurityInsights/threatIntelligence/main/indicators/
c2ec8116-0ffb-234c-0843-0c96c86ec537",
    "kind": "indicator",
    "name": "c2ec8116-0ffb-234c-0843-0c96c86ec537",
    "properties": {
        "confidence": 60,
        "created": "2024-08-09T07:01:57+00:00",
        "description": "IOC exported from ThreatQ. Details page: test.com/
indicators/518389/details , IOC Description: Description 2 , IOC Description:
Description 1 , Malware families: this is a fam , Adversaries: Action Fraud",
        "displayName": "ThreatQ Identified IOC",
        "extensions": {
            "sentinel-ext": {
                "severity": null
            }
        },
        "externalId": "indicator--de717f85-8063-6ac7-63a8-e2a6fbce9daa",
        "externalReferences": [
            {
                "externalId": "518389",
                "sourceName": "ThreatQ",
                "url": "test.com/indicators/518389/details"
            }
        ],
        "labels": [
            "External Source: VirusTotal IOC Stream",
            "External Source: Adversary Reader",
            "ipscontactedbyadetectedfile",
            "self-signed",
            "untitled_yara_ruleset"
        ],
        "lastUpdatedTimeUtc": "2024-09-02T06:18:03.3900744Z",
        "parsedPattern": [
            {
                "patternTypeKey": "ipv4-addr",
                "patternTypeValues": [
                    {
```

```
                        "value": "142.251.111.138",
                        "valueType": "ipv4-addr"
                    }
                ]
            }
        ],
        "pattern": "[ipv4-addr:value = '142.251.111.138']",
        "patternType": "ipv4-addr",
        "source": "ThreatQ",
        "threatIntelligenceTags": [
            "External Source: VirusTotal IOC Stream",
            "External Source: Adversary Reader",
            "ipscontactedbyadetectedfile",
            "self-signed",
            "untitled_yara_ruleset"
        ],
        "validFrom": "2024-09-02T06:17:59+00:00",
        "validUntil": "2024-08-27T00:00:00Z"
    },
    "type": "Microsoft.SecurityInsights/threatIntelligence/main/indicators"
}
```


Since this action only pushes a collection of Indicators to Microsoft Azure Sentinel, we do not ingest anything back to the TQ Threat Library.

Microsoft Defender ATP Export Collection

The Microsoft Defender ATP Export Collection action will upload the indicators from the selected collection to Microsoft Defender ATP.

`POST "https://graph.microsoft.com/beta/security/tiIndicators/submitTiIndicators"`

Sample Body:

```
Form URL-Encoded
{
    "value": [
        {
            "azureTenantId": "{{TENANT_ID}}",
            "action": "Block",
            "description": "IOC exported from ThreatQ.",
            "labels": [
                "tag1"
            ],
            "lastReportedDateTime": "2023-03-08T10:53:30Z",
            "isActive": true,
            "externalId": "79",
            "confidence": 70,
            "threatType": "WatchList",
            "targetProduct": "Microsoft Defender ATP",
            "expirationDateTime": "2023-06-08T10:53:30Z",
            "severity": 3,
            "killChain": [
                "Delivery"
            ],
            "additionalInformation": "{{THREATQ_HOSTNAME}}/indicators/79/
details",
            "malwareFamilyNames": [
                "Trojan"
            ],
            "activityGroupNames": [
                "APT40"
            ],
            "fileHashValue": "008b81f89405228597eae8bc5066a768",
            "fileHashType": "md5"
        }
    ]
}
```

Sample Response:

```
{
  "@odata.context": "https://graph.microsoft.com/beta/
$metadata#Collection(microsoft.graph.tiIndicator)",
  "value": [
```

```
{
  "action": "block",
  "activityGroupNames": [],
  "additionalInformation": "{{THREATQ_HOSTNAME}}/indicators/79/details",
  "azureTenantId": "TENANT_ID",
  "confidence": 70,
  "description": "IOC exported from ThreatQ",
  "diamondModel": null,
  "domainName": null,
  "emailEncoding": null,
  "emailLanguage": null,
  "emailRecipient": null,
  "emailSenderAddress": null,
  "emailSenderName": null,
  "emailSourceDomain": null,
  "emailSourceIpAddress": null,
  "emailSubject": null,
  "emailXMailer": null,
  "expirationDateTime": "2023-06-08T10:53:30Z",
  "externalId": "7275",
  "fileCompileDateTime": null,
  "fileCreatedDateTime": null,
  "fileHashType": "md5",
  "fileHashValue": "008b81f89405228597eae8bc5066a768",
  "fileMutexName": null,
  "fileName": null,
  "filePacker": null,
  "filePath": null,
  "fileSize": null,
  "fileType": null,
  "id": "34636",
  "ingestedDateTime": null,
  "isActive": true,
  "killChain": [],
  "knownFalsePositives": null,
  "lastReportedDateTime": "2023-03-08T10:53:30Z",
  "malwareFamilyNames": [],
  "networkCidrBlock": null,
  "networkDestinationAsn": null,
  "networkDestinationCidrBlock": null,
  "networkDestinationIPv4": null,
  "networkDestinationIPv6": null,
  "networkDestinationPort": null,
  "networkIPv4": null,
  "networkIPv6": null,
  "networkPort": null,
  "networkProtocol": null,
  "networkSourceAsn": null,
  "networkSourceCidrBlock": null,
  "networkSourceIPv4": null,
```

```
      "networkSourceIPv6": null,
      "networkSourcePort": null,
      "passiveOnly": null,
      "severity": 3,
      "tags": [],
      "targetProduct": "Microsoft Defender ATP",
      "threatType": "WatchList",
      "tlpLevel": null,
      "url": null,
      "userAgent": null,
      "vendorInformation": null
    }
  ]
}
```

Microsoft Azure Sentinel Delete Collection

The Microsoft Azure Sentinel Delete Collection action will delete the selected collection from Microsoft Azure Sentinel.

Since this Workflow it's only to delete a collection of Indicators from Microsoft Azure Sentinel, the action does not ingest any data back to the TQ Threat Library.

```
DELETE "https://management.azure.com/subscriptions/{{subscription_id}}/
resourceGroups/{{resource_group}}/providers/Microsoft.OperationalInsights/
workspaces/{{workspace}}/providers/Microsoft.SecurityInsights/
threatIntelligence/main/indicators/{{indicator_name}}api-version=2021-10-01"
```

Microsoft Azure Sentinel Create Incident

The Microsoft Azure Sentinel Create Incident action uses ThreatQ objects to create incidents in Microsoft Sentinel.

```
POST "https://management.azure.com/subscriptions/{{subscription_id}}/
resourceGroups/{{resource_group}}/providers/Microsoft.OperationalInsights/
workspaces/{{workspace}}/providers/Microsoft.SecurityInsights/incidents/main/
tq_{{object_type}}_{{id}}?api-version=2024-03-01"
```

Sample Body:

```
{
  "properties": {
    "severity": "High",
    "status": "Closed",
    "title": "Grandoreiro",
    "description": "Grandoreiro is a major cybersecurity threat.",
    "labels": [
      "malware"
    ],
    "firstActivityTimeUtc": "2024-03-14T08:23:00Z",
    "lastActivityTimeUtc": "2024-04-01T08:23:00Z",
    "classification": "FalsePositive",
    "classificationComment": "Incident investigation was finished.",
    "classificationReason": "InaccurateData",
    "owner":{
      "email": "user1@threatq.onmicrosoft.com"
    }
  }
}
```

Sample Response:

```
{
  "id": "/subscriptions/f1c10b41-49ff-4791-b366-b3bbb37fca4c/resourceGroups/
group1/providers/Microsoft.OperationalInsights/workspaces/tqsentinal/providers/
Microsoft.SecurityInsights/Incidents/tq_incident_601",
  "name": "tq_incident_601",
  "etag": "\"05007801-0000-0100-0000-660e51af0000\"",
  "type": "Microsoft.SecurityInsights/Incidents",
  "properties": {
    "title": "Grandoreiro",
    "description": "Grandoreiro is a major cybersecurity threat.",
    "severity": "Hign",
    "status": "Closed",
    "classification": "FalsePositive",
    "classificationReason": "InaccurateData",
```

```
    "classificationComment": "Incident investigation was finished.",
    "owner": {
      "objectId": null,
      "email": "user1@threatq.onmicrosoft.com",
      "assignedTo": null,
      "userPrincipalName": null,
      "ownerType": "Unknown"
    },
    "labels": [
      {
        "labelName": "malware",
        "labelType": "User"
      }
    ],
    "firstActivityTimeUtc": "2024-03-14T08:23:00Z",
    "lastActivityTimeUtc": "2024-04-01T08:23:00Z",
    "lastModifiedTimeUtc": "2024-04-01T08:23:00Z",
    "createdTimeUtc": "2024-03-14T08:23:00Z",
    "incidentNumber": 25529,
    "additionalData": {
      "alertsCount": 0,
      "bookmarksCount": 0,
      "commentsCount": 0,
      "alertProductNames": [],
      "tactics": [],
      "techniques": []
    },
    "relatedAnalyticRuleIds": [],
    "incidentUrl": "https://portal.azure.com/#asset/
Microsoft_Azure_Security_Insights/Incident/subscriptions/f1c10b41-49ff-4791-
b366-b3bbb37fca4c/resourceGroups/group1/providers/
Microsoft.OperationalInsights/workspaces/tqsentinal/providers/
Microsoft.SecurityInsights/Incidents/tq_incident_601",
    "providerName": "Azure Sentinel",
    "providerIncidentId": "25529"
  }
}
```


ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.properties.incidentUrl	Campaign/Event/ Incident.Attribute	Azure Incident URL	N/A	https:// portal.azure.com...	N/A

Microsoft Azure Sentinel Export IOC

The Microsoft Azure Sentinel Export IOC action will upload the indicators from the selected collection to Microsoft Sentinel Threat Intelligence Portal.

API Mapping

```
POST "https://sentinelus.azure-api.net/{{workspace_id}}/
threatintelligence:upload-indicators?api-version=2022-07-01"
```

Sample Body

```
{
    "kind": "indicator",
    "properties": {
        "confidence": 60,
        "created": "2024-08-12 07:33:28+00:00",
        "description": " Description 2 , Description 1 ",
        "displayName": "ThreatQ Identified IOC",
        "externalReferences": [
            {
                "externalId": 518389,
                "sourceName": "ThreatQ",
                "url": "/indicators/518389/details"
            }
        ],
        "modified": "2024-08-12 07:33:28+00:00",
        "pattern": "[ipv4-addr:value = '142.251.111.138']",
        "patternType": "ipv4-addr",
        "source": "ThreatQ",
        "threatIntelligenceTags": [
            "External Source: VirusTotal IOC Stream",
            "External Source: Adversary Reader"
        ],
        "validFrom": "2024-08-12 07:33:28+00:00",
        "validUntil": "2024-08-27T00:00:00Z"
    }
}
```

Sample Response

```
{
    "etag": "\"50029f1c-0000-0100-0000-66b9bacd0000\"",
    "id": "/subscriptions/f1c10b41-49ff-4791-b366-b3bbb37fca4c/resourceGroups/
group1/providers/Microsoft.OperationalInsights/workspaces/tqsentinal/providers/
Microsoft.SecurityInsights/threatIntelligence/main/indicators/
c2ec8116-0ffb-234c-0843-0c96c86ec537",
    "kind": "indicator",
    "name": "c2ec8116-0ffb-234c-0843-0c96c86ec537",
```

```
    "properties": {
        "confidence": 60,
        "created": "2024-08-09T07:01:57+00:00",
        "description": " Description 2 , Description 1 ",
        "displayName": "ThreatQ Identified IOC",
        "extensions": {
            "sentinel-ext": {
                "severity": null
            }
        },
        "externalId": "indicator--de717f85-8063-6ac7-63a8-e2a6fbce9daa",
        "externalReferences": [
            {
                "externalId": "518389",
                "sourceName": "ThreatQ",
                "url": "/indicators/518389/details"
            }
        ],
        "labels": [
            "External Source: VirusTotal IOC Stream",
            "External Source: Adversary Reader"
        ],
        "lastUpdatedTimeUtc": "2024-08-12T07:33:33.0236794Z",
        "parsedPattern": [
            {
                "patternTypeKey": "ipv4-addr",
                "patternTypeValues": [
                    {
                        "value": "142.251.111.138",
                        "valueType": "ipv4-addr"
                    }
                ]
            }
        ],
        "pattern": "[ipv4-addr:value = '142.251.111.138']",
        "patternType": "ipv4-addr",
        "source": "ThreatQ",
        "threatIntelligenceTags": [
            "External Source: VirusTotal IOC Stream",
            "External Source: Adversary Reader"
        ],
        "validFrom": "2024-08-12T07:33:28+00:00",
        "validUntil": "2024-08-27T00:00:00Z"
    },
    "type": "Microsoft.SecurityInsights/threatIntelligence/main/indicators"
}
```


Since this action only pushes a collection of Indicators to Microsoft Azure Sentinel and doies ingest anything back to the ThreatQ Threat Library.

Enriched Data

> Object counts and action runtime are supplied as generalities only - objects returned by a provider can differ based on credential configurations and action runtime may vary based on system resources and load.

Microsoft Azure Sentinel Enrich Indicators

METRIC	RESULT
Run Time	2 minutes
Indicators	10
Indicator Attributes	40

Microsoft Azure Sentinel Add Tag

METRIC	RESULT
Run Time	1 minute
Indicators	10

Microsoft Azure Sentinel Create Incident

METRIC	RESULT
Run Time	1 minute
Incidents	10

Known Issues / Limitations

- The following is a known Microsoft Azure Sentinel API bug. Attempting to upload indicators that were previously deleted from the platform will result in an API error. The error states that you cannot update the indicators. This is due to the indicators still existing on the platform, in some format, despite being deleted.
- The function **Microsoft Azure Sentinel Export Collection** needs a STIX identifier for each indicator that is uploaded to Microsoft Sentinel. Right now this identifier is generated random.

Change Log

- **Version 1.1.2**
  - Added support for Microsoft US Government Cloud environments for all actions except Microsoft ATP Export Collection.
  - Added the following new configuration parameters:
    - **Microsoft Azure Type** - (all actions except Microsoft ATP Export Collection) allows you to select the Microsoft Azure Cloud environment. Options include `Microsoft Azure Global` and `Microsoft Azure US Government`.
    - **Enable SSL Certificate Verification** - enable or disable verification of the server's SSL certificate.
    - **Disable Proxies** - determine if the action should honor proxy settings set in the ThreatQ UI.
- **Version 1.1.1**
  - Added additional functionality to the Microsoft Sentinel Export Collection action:
    - The action will now use the `Valid Until` from the IOC to set in Microsoft Azure Sentinel.
    - The IOC source is now added as a Tag.
    - Updated the list name from `Custom Threat Intelligence` to `ThreatQ Identified IOC.`
    - Updated the source from `Microsoft Sentinel` to `ThreatQ.`
- **Version 1.1.0**
  - Added additional functionality to the Microsoft Sentinel Export IOC action:
    - The action will now export the description of the IOC.
    - The action will now use the `Valid Until` from the IOC to set in Microsoft Azure Sentinel.
    - The IOC source is now added as a Tag.
    - Updated the list name from `Custom Threat Intelligence` to `ThreatQ Identified IOC.`
    - Updated the source from `Microsoft Sentinel` to `ThreatQ.`
- **Version 1.0.5**
  - Resolved an issue where actions applied the wrong source name to objects.
- **Version 1.0.4**
  - Added a new action: **Microsoft Azure Sentinel Export IOC**.
- **Version 1.0.3**
  - Added a new action: **Microsoft Azure Sentinel Create Incident**.
  - Updated the minimum ThreatQ version to 5.25.0.
- **Version 1.0.2**
  - Added support for the following indicator types: CIDR Block, Email Address, Filename, File Path, IPv6 Address, Mutex, and SHA-1.
  - Added the ability to collection export more information using the Microsoft Azure Sentinel Export Collection action. New parameters include:
    - Related Context Filter
    - Default Threat Type

        - Always use the selected Default Threat Type
    - Added a new action: **Microsoft Defender ATP Export Collection**. This action allows users to export indicators to Microsoft Defender ATP.
- **Version 1.0.1**
    - Updated the API endpoint for the **Microsoft Azure Sentinel Export Collection** action.
    - Added a new Known Issue for the **Microsoft Azure Sentinel Export Collection** action.
    - Added support for the Microsoft logo. Installing the action bundle via the zip file will display the logo on the action details and orchestrator builder screens.
- **Version 1.0.0**
    - Initial release