# **ThreatQuotient**



### ThreatQ App for QRadar Guide

Version 2.0.0

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### **ThreatQuotient**

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## **Contents**

App Details	5
Introduction	6
Prerequisites	7
Installation	8
Upgrading	14
Configuration	16
Generating ThreatQ Oauth Credentials	17
Configuring your ThreatQ Data Collection	18
Configuring ThreatQ in QRadar	20
Configuration Store	30
Usage	31
Right-Click Actions	32
Metadata Provider	33
Exporting Offenses / Events	35
REST Filters	35
Offense Description Parsing	36
Manual Offense Enrichment	36
Automatic Offense Enrichment	37
Accessing Application Docker	39
Checking Application Logs	40
Troubleshooting	41
Command Line Retrieval	41
Interactive API for Developers	41
Scenario 1 - App Configuration Fails with Various Error Messages	43
Error - QRadar SEC Token is Invalid	43
Error - ThreatQ Credentials Are Invalid	43
Scenario 2 - UI-Related Issues in the App	44
Scenario 3 - Inconsistency Between the Data on ThreatQ and QRadar	44
Scenario 4 - Inconsistency Between the Data on ThreatQ and QRadar while Upgrading	45
Scenario 5 - Duplicate Reference Sets Created	45
All Other Issues	45
Known Issues / Limitations	47
Change Log	48



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

Support Phone: 703.574.9893

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# **App Details**

ThreatQuotient provides the following details for this app:

**Current Integration** 

Version

Compatible with ThreatQ

**Versions** 

>= 4.44.0

2.0.0

Compatible with QRadar

**SIEM Versions** 

>=7.4.2

**Support Tier** 

ThreatQ Supported

ThreatQ Marketplace

https://

marketplace.threatq.com/ details/threatq-app-for-

qradar



### Introduction

The ThreatQ App for QRadar is a bi-directional application that runs within the QRadar SIEM's application framework. The application allows for the ingestion of ThreatQ's indicators of compromise (IoCs), exports QRadar Offenses to ThreatQ as Events, parses QRadar Events and adds the Offense Source as Indicators in ThreatQ, and provides right-click actions that allow QRadar Analysts to interact with their ThreatQ instance from within the QRadar SIEM's UI.



If a previous version of the application has been installed, ThreatQuotient recommends that you uninstall the current version and then install the new version. It's also advised to delete all ThreatQ reference sets before installing and pulling indicators with the new version. This will ensure the differential has the most accurate information. This application will be available for download from the IBM App Exchange.



## **Prerequisites**

The ThreatQ App for QRadar prerequisites are:

- Chrome browser
- ThreatQ version 4.44.0+ to take advantage of the client credentials CLI command.
- QRadar SIEM version greater than or equal to 7.4.2.
- Authentication Token from a ThreatQ Authorized Service.
- Configuration of the ThreatQ App for QRadar requires administrative privileges. All other actions are available to users.



Firefox and Internet explorer are not fully supported at this time. Please use the Chrome browser with v1.2.0+ of the app.



Upgrading does not overwrite the configurations. ThreatQuotient recommends that you uninstall the current version and then install the new version.



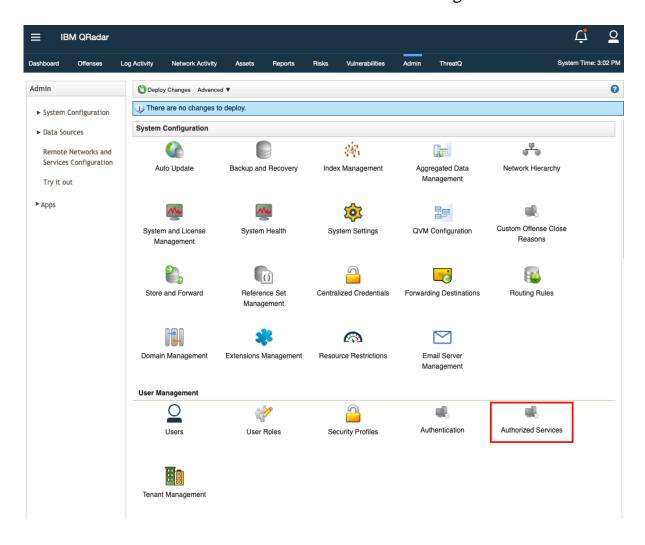
### Installation

If a previous version of the application has been installed, ThreatQuotient recommends that you uninstall the current version and then install the new version. It's also advised to delete all ThreatQ reference sets before installing and pulling indicators with the new version. This will ensure the differential has the most accurate information.

This application will be available for download from the IBM App Exchange.

The application package may be installed via the Extension Management component of the QRadar SIEM.

- 1. Click on the **Admin** tab In the QRadar SIEM.
- 2. Click on **Authorized Services** located under the *User Management* section.

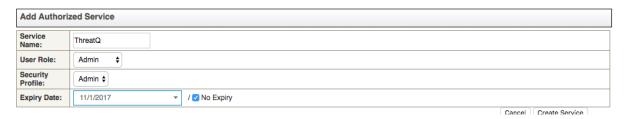




3. Click on Add Authorized Service.



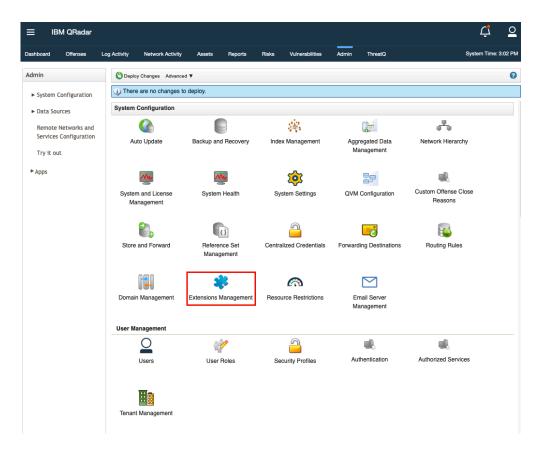
4. Complete the applicable fields and click **Create Service**.



5. Copy the **Authentication Token** that was generated and store it for later use.

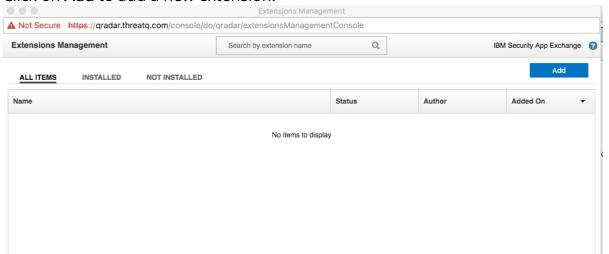


- Be sure to deploy the changes so that the app can use the token.
- 6. Open Extensions Management located under the System Configuration section.



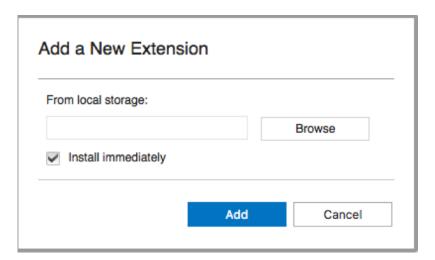


7. Click on **Add** to add a new extension.

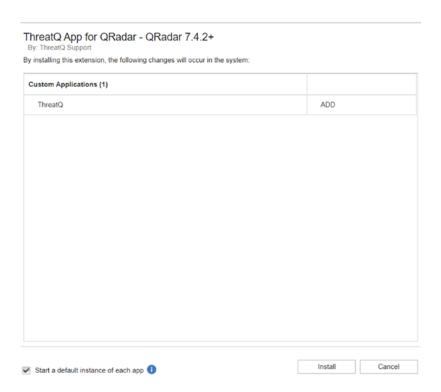




8. Browse to the location where the ThreatQ App for QRadar was downloaded, select it, and ensure that the **Install immediately** checkbox option is selected.



- 9. Click Add.
- 10. Click Install.





An installation window will pop up with a loading wheel while installing the extension.

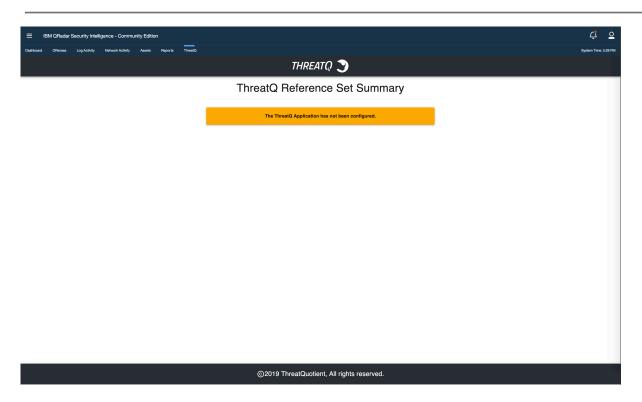


#### 11. Click **OK**.



Upon successful installation, a new tab labeled **ThreatQ** will be displayed in the QRadar SIEM UI. The tab will initially display a note indicating that the configurations need to be set in the ThreatQ Configuration page within the Admin tab.







## **Upgrading**

You must delete all the ThreatQ reference sets before upgrading the app.



The Time to Live configuration parameter will only function if the reference sets are newly created.

ThreatQuotient recommends that you uninstall the current version in order to automatically remove old files.

If you do not want to uninstall the app then you need to remove files manually and then upgrade the app by following these steps:

- 1. Go into application docker by following the steps to access application docker.
- 2. Execute the following command:

```
<> rm /opt/app-root/store/*.csv
```

3. Then upgrade the application to a newer version of the app by following Installation steps (starting from step 6).



It is important to note that the ThreatQ App for QRadar version 2.0.0 included the following new configuration fields: **Time to Live** and **ThreatQ Instance Timezone**. The app will accept the app-default values but can be updated on the ThreatQ Configuration page of the App.

#### **PARAMETER**

#### **DESCRIPTION**

#### Time to Live (TTL)

The time that is remaining until the element is removed from the reference set. The default setting is 30 days.



 $oldsymbol{lack}$  If the indicators are not updated within the configured TTL, they will be removed from the reference set once its TTL expires.



PARAMETER	DESCRIPTION
ThreatQ Instance Timezone	Timezone of the ThreatQ Instance. The default setting is <b>UTC</b> . Confirm that this field is in sync with the ThreatQ Instance otherwise there could be a data mismatch.



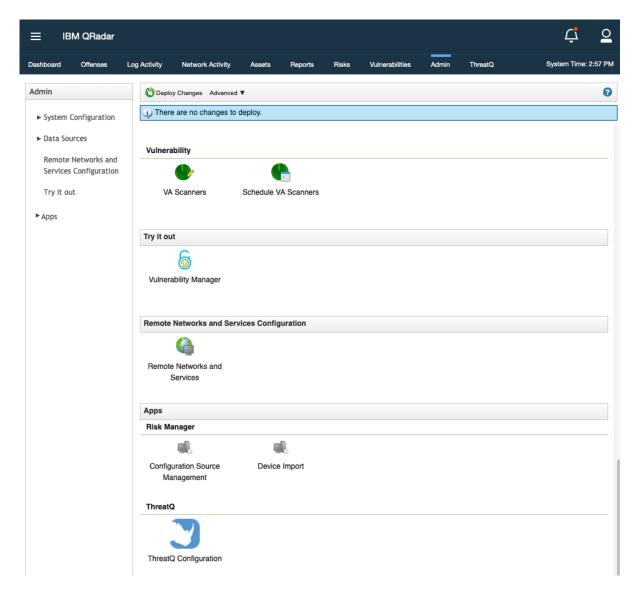
## Configuration



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

The ThreatQ Configuration option will appear in the Admin page under the Apps heading upon successful installation. To configure to app, you will need to:

- 1. Generate ThreatQ Oauth Credentials
- 2. Configure your ThreatQ Threat Library Search
- 3. Configure the ThreatQ App settings in the QRadar UI





### **Generating ThreatQ Oauth Credentials**

You will need to generate oauth2 client credentials in order to successfully have the app authenticate with ThreatQ. This is performed using the command line of the ThreatQ appliance.

- 1. SSH into the console for the ThreatQ Appliance.
- 2. Execute the Oauth2Client command:

```
<> sudo /var/www/api/artisan threatq:oauth2-client --name=Qradar
```



This name can be updated to match your needs.

3. Copy the **client\_id** and **client\_secret** for use in the configuration of the ThreatQ-QRadar application.

You should then see a similar output to below.

sudo /var/www/api/artisan threatq:oauth2-client --name=Qradar

session\_timeout\_minutes: 1440

name: Qradar type: private

 $\verb|client_id: ywewmmyymmm4mde3y2uyzdc2ytk2mjdh|\\$ 

 $\verb|client_secret: MjY10WUyM2RlZTQwZjdi0DUxN2MzNGM5ZDZhMTA0MjE1M2Vk0TdlNjUxMTI0MGY0| \\$ 

updated\_at: 2020-01-24 20:21:53 created\_at: 2020-01-24 20:21:53

id: 130



## Configuring your ThreatQ Data Collection

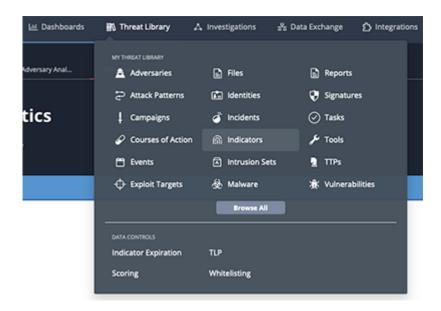
IoCs will be imported into QRadar based on the configurations from the ThreatQ Threat Library saved searches, referred to as Data Collections in the ThreatQ platform. The filter parameters for the data collection must be configured in ThreatQ.

The current parameters for filtering indicators in the Threat Library are:

- Indicator Type
- Indicator Status
- Indicator Score
- Date Created
- Last Modified
- Import ID
- Relationship
- Source
- Tag
- With Attribute
- Without Attribute.

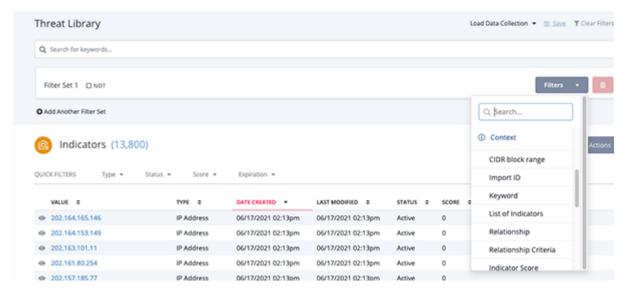
Perform the following steps to create a Data Collection in ThreatQ:

1. Navigate to the Threat Library in ThreatQ.



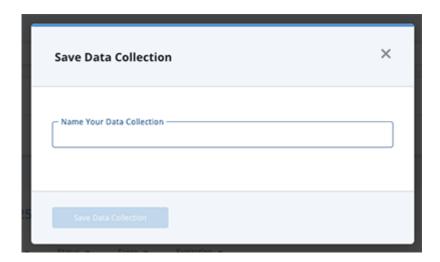


2. Select the parameters from the supplied filters.



3. Click on Save.

The Save Data Collection dialog box opens.



4. Enter the name for your search and click Save Data Collection.



Make sure to configure the ThreatQ data collections in such a way that the QRadar reference sets created for the same don't exceed 100k values. If QRadar reference set holds more than 100k values, user might see some issues.

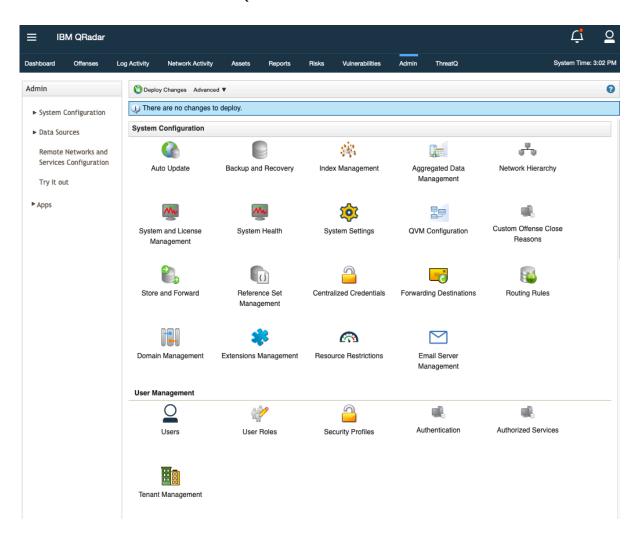


## Configuring ThreatQ in QRadar



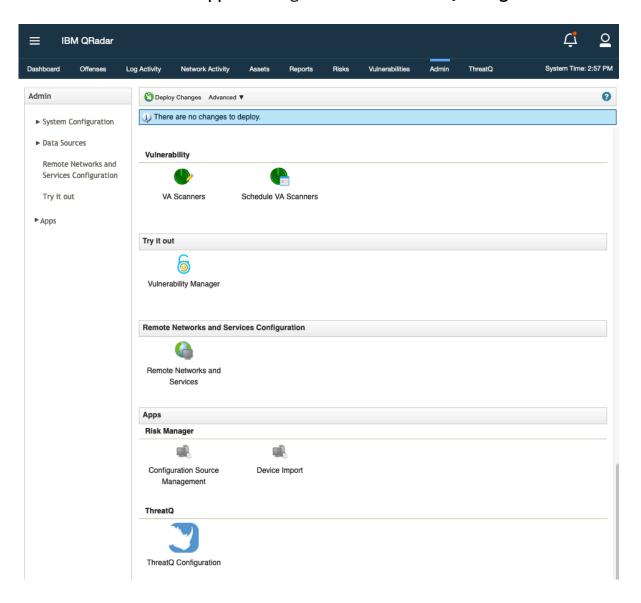
IBM requires Admin-level permissions to set the configuration in QRadar. This change was in ThreatQ App for QRadar version 1.3.5.

1. Click on the Admin tab in the QRadar SIEM UI.





2. Then scroll down to the **Apps** heading and click on **ThreatQ Configuration**.



A popup window will open with the ThreatQ Configuration form.

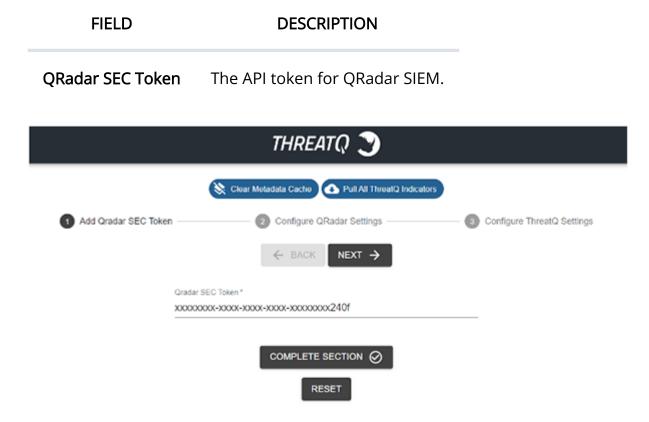




The configuration form will also include three action buttons at the top of the form:

BUTTON	DESCRIPTION
Clear Metadata Cache	This button will clear the indicator information stored in the metadata cache.
Pull All ThreatQ Indicators	This button will trigger the app to download all the indicators from ThreatQ and will remove the outdated indicators from QRadar reference sets.

3. Complete the **SEC Token** Section:

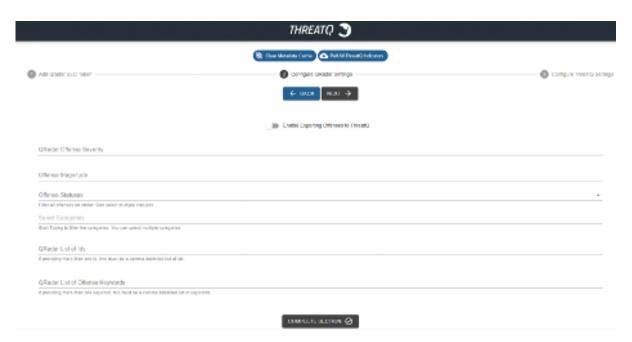


- 4. Click **Next** or **Complete Section**.
- 5. Complete the  ${\bf QRadar\ Settings}$  section:



FIELD	DESCRIPTION
Enable Exporting Offenses to ThreatQ (toggle switch)	If desired, toggling this switch on will enable QRadar to export Offenses to ThreatQ based on the filtering fields defined below. See the Exporting Offenses / Events section for more details.
QRadar Offense Severity	Offenses with severity greater than or equal to this value will be exported to ThreatQ.
Offense Magnitude	Offenses with magnitude greater than or equal to this value will be exported to ThreatQ.
Offense Statuses	Offenses with one of these statuses will be exported to ThreatQ.
Categories	Offenses with one of these categories will be exported to ThreatQ.
QRadar list of IDs	The list of ID's that of offenses that should be included in the Export to ThreatQ.
QRadar List of Offense Keywords	Comma-delimited list of strings that may be found in an Offense Description. Used to provide additional filtering of exporting Offenses to ThreatQ.





- 6. Click Next or Complete Section.
- 7. Complete the **ThreatQ Settings** section: Interval To Sync Indicators

FIELD	DESCRIPTION

### Enable Indicator Ingestion to QRadar

Toggling this switch on will enable importing indicators from ThreatQ to QRadar.

#### Pull Indicators Immediately

Toggling this switch will append the name of each data collection to the reference set names. Example: If you have a data collection named Score10, with this switch applied it will create reference sets similar to ThreatQ Score10 IP Address.

For best results, this option should be selected when first setting up the app. When toggling this option, it's recommended to delete any previous search files (if any) in the app's container while making the change. This will ensure that you have the most up to date reference sets.

#### Prefix Search Names to Reference Sets

Toggling this switch will append the name of each data collection to the reference set names. Example: If you have a data collection named **Score10**, with this switch applied it will create reference sets similar to **ThreatQ Score10 IP Address**.

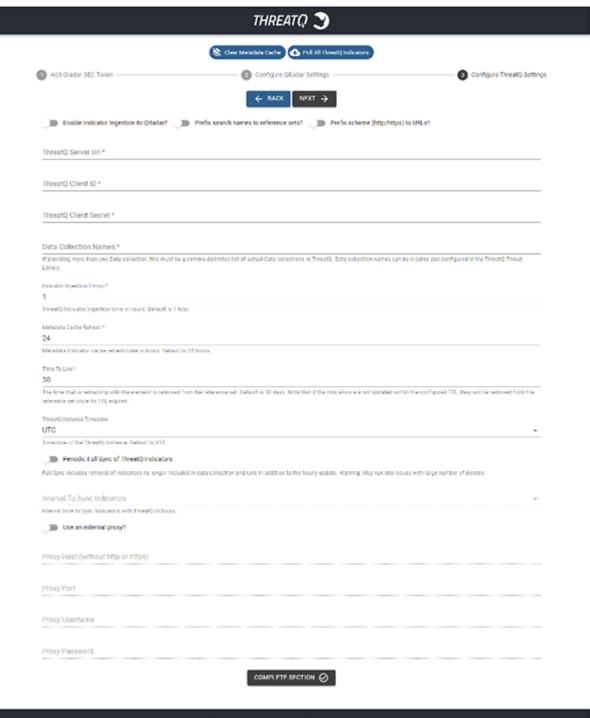


FIELD	DESCRIPTION
	For best results, this option should be selected when first setting up the app. When toggling this option, it's recommended to delete any previous search files (if any) in the app's container while making the change. This will ensure that you have the most up to date reference sets.
Prefix Scheme (http/https) to URLs	Toggling this switch will enable/disable URL normalization during the indicator import process.
ThreatQ Server URL	The URL for the applicable ThreatQ server.
ThreatQ Client ID	The client id generated from the oauth2-client command on the ThreatQ appliance.
ThreatQ Client Secret	The client secret generated from the oauth2-client command on the ThreatQ appliance.
Data Collection Names	Comma-delimited list of the names of Data Collections used to import indicators from ThreatQ to QRadar.
	Do not add spaces between data collection names if adding multiple.
	Example: score10,score9
Indicator Ingestion Timing	The time (in hours) in which the indicators from ThreatQ to QRadar will be updated. Default is 1 hour.
Metadata Cache Refresh	The time (in hours) in which indicators will remain in the metadata cache before they will start updating information. Default is 24 hours.



FIELD	DESCRIPTION
Time to Live	The time that is remaining until the element is removed from the reference set. The default setting is <b>30 days</b> .
	⚠ If the indicators are not updated within the configured TTL, they will be removed from the reference set once its TTL expires.
ThreatQ Instance Timezone	Timezone of the ThreatQ Instance. The default setting is <b>UTC</b> . Confirm that this field is in sync with the ThreatQ Instance otherwise there could be a data mismatch.
Periodic Full Sync of ThreatQ Indicators	Toggling this switch on will enable periodic synchronization of indicators between ThreatQ and QRadar. This will download all the indicators from ThreatQ, ingest them into QRadar reference sets and remove the outdated indicators from QRadar reference sets.
Interval to Sync Indicators	Interval at which the periodic synchronization of indicators between ThreatQ and QRadar executes.
Use an External Proxy	This parameter allows you to enable/disable the ability to make API calls through a proxy.
Proxy Host	The host url/ip of the proxy server.
Proxy Port	The port being used for the proxy server.
Proxy Username	The username used for the proxy server.
Proxy Password	The password used for the proxy server.





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#### 8. Click Next or Complete Section.

You will receive a message that all steps have been completed.

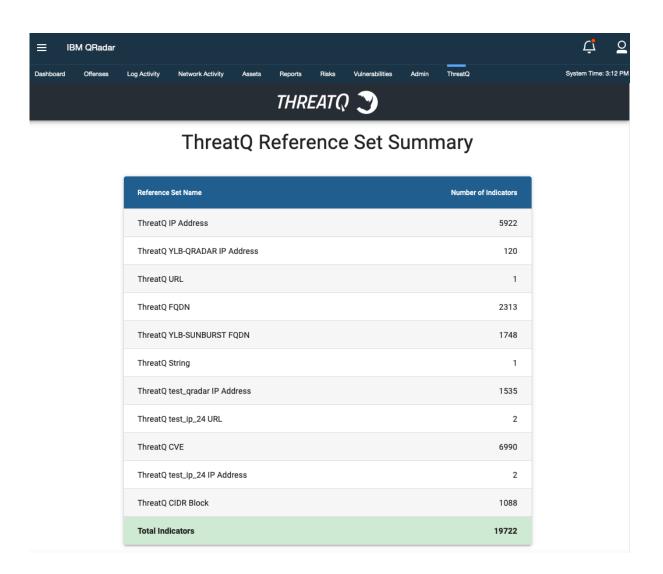
#### **Important Notes**



- If you are editing either Time To Live or Prefix Search names to reference sets then
  it is recommended to delete all the reference sets and click on the Pull All ThreatQ
  Indicators to avoid inconsistency of indicators between ThreatQ and QRadar.
- If you have enabled Prefix Search names to reference sets and you edit the Data
   Collection Names, then it is recommended to delete all the reference sets related to
   the removed data collection names to get rid of unnecessary reference sets.
- If you update any of the configured data collection on the ThreatQ side, then it is recommended to click on **Pull All ThreatQ Indicators** once as the data collection will only fetch the updated indicators. This would make sure that the data is in sync with the ThreatQ.
- As per the IBM suggestion, you should configure the data collection name app in such a way to restrict the total number of indicators in the reference sets to a maximum of 100K to avoid having performance issues. If you need to run rules on reference data, ThreatQuotient recommends to have a reference set with 10K indicators only.

Once the configurations have been set, **Reference Sets** will be dynamically created based on the Indicator Type found in the search results from ThreatQ.





If this is the first run, the ThreatQ App will create **Reference Sets** for all Indicator Types found in the results from the search query.

The ThreatQ tab in the QRadar SIEM UI will then display a table of elements containing the ThreatQ Reference Sets.



There are 25 possible Reference Sets based on ThreatQ Indicator Types:

ThreatQ CIDR Block

ThreatQ CVE

ThreatQ Email Address

ThreatQ Email Attachment

ThreatQ Email Subject

ThreatQ File Path

ThreatQ Filename

ThreatQ FQDN

ThreatQ Fuzzy Hash

ThreatQ GOST Hash

ThreatQ IP Address

ThreatQ MD5

ThreatQ Mutex

ThreatQ Password

ThreatQ Registry Key

ThreatQ SHA-1

ThreatQ SHA-256

ThreatQ SHA-384

• ThreatQ SHA-512

ThreatQ String

ThreatQ URL

ThreatQ URL Path

ThreatQ User-agent

ThreatQ Username

ThreatQ X-Mailer

### **Configuration Store**

The ThreatQ Configuration page in the QRadar SIEM's UI will collect and store the necessary fields in the store/threatq\_app\_config.ini within the App' docker container - see the Steps to Access Application Docker section for more details.



# Usage

Upon installation and configuration. The application will automatically execute and continue to run on the QRadar SIEM.

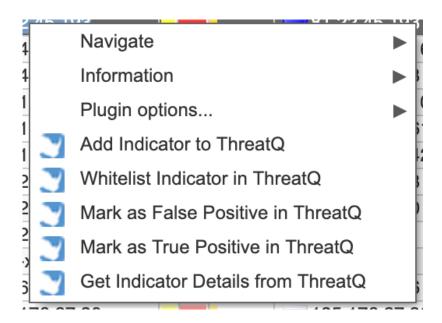
The following background scripts will be running:

THREAD	DESCRIPTION
Get Indicators	This script will periodically (according to the configured interval) to collect the Indicators from the ThreatQ instance and ingest them in the QRadar.
Offense Enrichment	This script will run every 30 minutes to fetch the offenses and add details which were obtained from ThreatQ in the Offense Notes.
Export Offense	This script will run every 2 minutes to create Indicators and Incidents on ThreatQ according to the offenses in the QRadar.



## **Right-Click Actions**

ThreatQ for QRadar provides five right-click actions within various pages of the QRadar SIEM's UI.



Actions include:

OPTION	ACTION
Add Indicator to ThreatQ	Adds an IP Address to ThreatQ, if it does not already exist, and/or returns a URL to the ThreatQ Indicator Details page.
Whitelist Indicator in ThreatQ	Changes the status of an indicator that already exists in ThreatQ to Whitelisted.
Mark as False Positive in ThreatQ	Changes the status of an indicator that already exists in ThreatQ to Review and adds a False Positive attribute with a value of Yes.
Mark as True Positive in ThreatQ	Changes the status of an indicator that already exists in ThreatQ to Review and adds a True Positive attribute with a value of Yes.

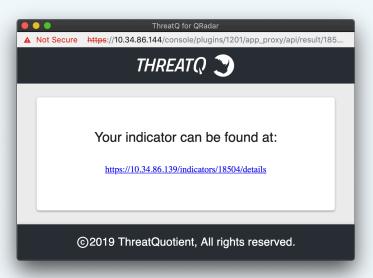


OPTION ACTION

Get Indicator Details from ThreatQ Returns the URL for the ThreatQ Indicator Details page.



Each right-click action will present a popup window with a URL to the applicable Indicator Details page in ThreatQ.



### Metadata Provider

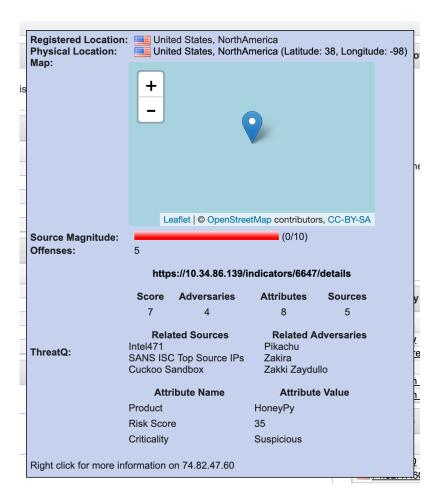
The ThreatQ app for QRadar contains a metadata provider which will provide contextual information on hover of an indicator. Currently this works for: IP Address, Ariel:URL, and Ariel:Hostname indicator types.

If contextual information is found in ThreatQ on the indicator, the following information will be displayed:

- ThreatQ Url for the indicator
- ThreatQ Score
- Total number of Adversaries
- Total number of Attributes
- Total number of Sources



- The first three Adversaries
- The first three Attributes
- The first three Sources





### **Exporting Offenses / Events**

QRadar Analysts may benefit from exporting Offenses and related Events directly to their ThreatQ instance. Once enabled by checking the Enable Exporting Offenses to ThreatQ switch in step 7 of the configuration form, the ThreatQ App provides a number of configurations to filter and parse Offenses to ensure that only the certain Offenses and related Events are exported to ThreatQ.

#### **REST Filters**

The ThreatQ App for QRadar currently provides three filters which are applied to the REST call to get a list of Offenses for exporting to ThreatQ.

The only pre-configured filter is **start\_time>[last\_hour\_in\_milliseconds]**, which is hard-coded within the App to search for only Offenses that have a start time greater than the value generated by the App. If this is the first time the ThreatQ App has been configured and run, the initial value for the start\_time>[last\_hour\_in\_milliseconds] filter is set to search for Offenses that have a start time within the last hour. That value is converted to milliseconds and applied to the start\_time> filter in the REST call.



start\_time>1509546854000 will search for Offenses that have a start\_time greater than Wednesday, November 1, 2017 2:34:14 PM.

After the first run, the ThreatQ App stores the last time it checked for offenses as a value for the key last\_checked\_offenses in the 'threatq\_app\_config.ini' file. The App regularly updates this value and uses this key/value pair for all subsequent calls to get Offenses.

The other filters are:

FILTER	DESCRIPTION
QRadar Offense Status	The value from this field is applied to the status in ([value]) filter and appended to the REST call.
QRadar Offense Severity	The value from this field is applied to the severity>=[value] filter and appended to the REST call.

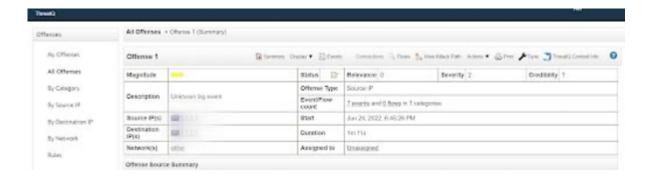


FILTER	DESCRIPTION
QRadar Offense Magnitude	The value from this field is applied to the magnitude>=[value] filter and appended to the REST call.
QRadar Category	The value from this field is applied to the categories contains "[value]" filter and appended to the REST call, for each selected category.

### Offense Description Parsing

The last configuration related to the exporting of Offenses is the **QRadar List of Offense Keywords**. Also found within the ThreatQ Configuration page in the QRadar UI, this field is an optional field which takes a one or more comma-delimited strings that may be used to search within the text of a **QRadar Offense Description** field. If this field is set, only Offenses with one or more of the keywords in its **Description** and matching the filters described above will be exported to ThreatQ.

#### **Manual Offense Enrichment**



You can click on the **ThreatQ Context Info** button from the offense details page to populate offense notes manually. As soon as you click on the button, notes containing the context information from ThreatQ will be populated:



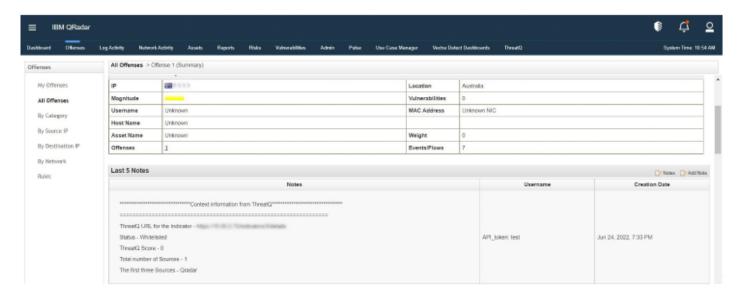


If that indicator is not present on ThreatQ then the following text will be populated on clicking the **ThreatQ context info** button.



### **Automatic Offense Enrichment**

IPv4 addresses attached to the offense source can be automatically queried from ThreatQ and the fetched context information will be populated as offense notes. Notes will be populated with updated details of offenses that are present on ThreatQ.



If that indicator is not present on ThreatQ then the following text will be populated in notes.



Notes		
**************************************		
No context information found on ThreatQ		
No context information found on ThreatQ		



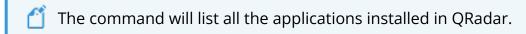
# **Accessing Application Docker**

The following steps cover how to access the Application Docker. In the docker container, you can see logs and configure parameters.

Perform the below command on your QRadar instance via SSH:

1. Run the following command:

```
<> /opt/qradar/support/recon ps
```



- 2. Find the app with the name "ThreatQ" and copy the **App-ID**.
- 3. Run the following command:

```
<> /opt/qradar/support/recon connect App-ID
```

or

```
<> docker exec -it <docker-id> bin/bash
```

4. You will now be in the docker container.



# **Checking Application Logs**

The following are steps to check application logs, which is located inside the application docker container.

- 1. Access the Application Docker.
- 2. Navigate to the log directory:

<> cd /opt/app-root/store/log

3. Run 1s to view all log files

FILE	DESCRIPTION
app.log	Contains logs of the configuration page, manual ThreatQ offense enrichment action, dashboard, and other right-click GUI actions.
startup.log	Contains logs related to socket connection and flask server.
supervisord.log	Contains logs related to process management done by supervisor.
data_collection.log	Contains logs related to data collection python script.
export_offenses.log	Contains logs related to export offenses python script.
scan_offenses.log	Contains logs related to automatic and manual offense notes population python script.



# **Troubleshooting**

The first step to troubleshooting a QRadar App is to retrieve the App ID for the affected application.

There are two methods to retrieve the App ID:

- Command Line Retrieval
- Interactive API for Developers

### **Command Line Retrieval**

The App ID may be retrieved by SSH'ing into the console and running the following command:

VERSION	COMMAND
QRadar SIEM's >= 7.3.0 <= 7.3.1 console	<pre>shell \$/opt/qradar/support/qapp_utils_730.py ps</pre>
QRadar SIEM's >= 7.3.2 console	shell \$/opt/qradar/support/recon ps

The output will display similar to:

```
shell Collecting app data..... Complete! shell ID NAME PORT CONTAINER IMAGE STATUS'
```

# Interactive API for Developers

The second method of retrieving the App ID is from the **Interactive API for Developers** under the Help menu in the QRadar SIEM's UI.

- 1. Browse to the api\_doc endpoint in QRadar by clicking Help/Interactive API for Developers
- 2. Open folder representing the API version, 8.0 (The API version, in this case 8.0, may be different depending on the version of the QRadar SIEM),
- 3. Locate the /guiappframework folder, click on it to expand the contents,
- 4. Locate the /applications endpoint and click on it to select it



5. Scroll to bottom of the page and click on Try It Now

In the Response Body of the request, there should be a list of all of the Applications that are installed. Find the appropriate application and copy down the value from the 'application\_id' key.

The full output from this command may also provide useful information in troubleshooting application issues and should be copied for review.

The output from the recon command provides some additional information with regards to how to access the application's docker container, as well as, to the state of the application.

The value from the Container field in this output can be used to execute the following docker command in order to review any application specific logs:

```
<> shell $docker exec -it <container_id> bash
```

Once in the App's docker environment, the source code for the App is located in the app/directory. All App specific logs are located in store/log/ directory.

For any application issues, ThreatQ TIS will be requesting the following:

1. The standard output from this command:

```
<> shell $/opt/qradar/support/qapp_utils_730.py ps
```

or

```
<> shell $/opt/qradar/support/recon ps
```

2. Collect and send the following log files from the Application's docker container to ThreatQ:

```
<> shell store/log/app.log store/log/startup.log store/log/
    supervisord.log
```

These steps were based on the guidance from IBM's App Troubleshooting page. Additional information can be found here: https://www.ibm.com/community/gradar/.

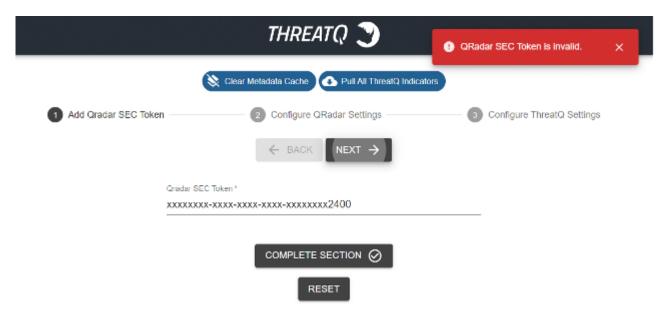


# Scenario 1 - App Configuration Fails with Various Error Messages

The following scenario will walk you through troubleshooting steps for two different configuration errors you may encounter.

### Error - QRadar SEC Token is Invalid

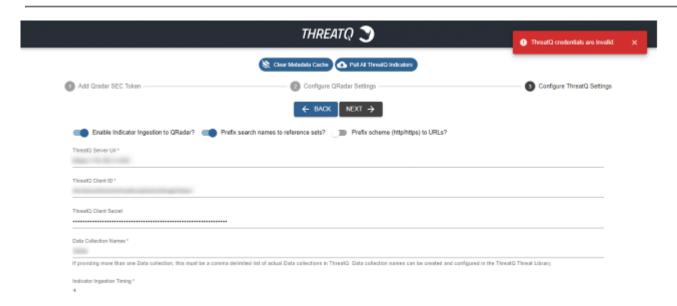
This happens when the user has entered the wrong SEC token, which resulted in the authentication failing when saving the configuration. Verify the SEC Token that you are provided. See the Checking Application Logs section for details on reviewing logs.



### **Error - ThreatQ Credentials Are Invalid**

This error occurs when a user has entered the wrong client secret key/Client ID/ThreatQ Server URL for ThreatQ. Verify the credentials that you provided. See the Checking Application Logs section for details on reviewing logs.





## Scenario 2 - UI-Related Issues in the App

You should clear browser cache and reload the site if you experience unintended behaviors or erros on the configuration and dashboard pages.

# Scenario 3 - Inconsistency Between the Data on ThreatQ and QRadar

Once the app is configured, if the you edit the **Time To Live** again or change the value of **Prefix search names to reference sets**, this can cause the inconsistency between the data of QRadar and ThreatQ.

Resolve this issue with the following steps:

- 1. Delete all the ThreatQ reference sets.
- 2. Follow below steps to delete the data collection checkpoint file:
  - Go inside application docker container see the Accessing the Application Docker chapter.
  - b. Execute the following command:

```
<> rm /opt/app-root/store/dc_checkpoint.conf
```

3. You can click the **Pull All ThreatQ Indicators** button on the configuration page to pull all the data from ThreatQ.



This process may take some time as it collects all of the data at once.



# Scenario 4 - Inconsistency Between the Data on ThreatQ and QRadar while Upgrading

You should delete all reference sets before upgrading the application to a newer version. The recommended approach would be to uninstall the older application, remove all the ThreatQ ref sets and install the newer version of the app.

## Scenario 5 - Duplicate Reference Sets Created

Perform the following steps if you encounter duplicate reference sets with the same name:

- 1. Navigate to the Admin tab and click on Reference Set Management.
- 2. Double-click on the duplicate reference set with number of elements 0.
- 3. Click on the Add button in the top-left corner.
- 4. A dialog box would open up, add any value in the Value(s) textbox and then click the Add button.
- 5. Once the value is added close the Reference Set Editor window.
- 6. On the Reference Set Management window, the duplicate reference set would have its number of elements set to 1.
- 7. Click on that reference set and then the Delete button.
- 8. Wait for the search to complete and click the Delete button.

The duplicate reference set has been deleted.

### All Other Issues

Use the following steps to generate log files:

- 1. Click on System and License Management in the Admin Panel.
- 2. Select the host on which the tab ThreatQ app for Qradar v7.4.2+ is installed.
- 3. Click on **Actions** in the top panel and select the option Collect Log Files.

A pop-up named Log File Collection will open.

- 4. Click on Advance Options.
- 5. Select the checkbox to **Include Debug Logs**, **Application Extension Log**, and **Setup Log** (Current Version).



- 6. Click on **Collect Log Files** after selecting **5 days** as data input.
- 7. Click on **Click here to download files**. This will download all the log files in a single zip to your local machine.



## **Known Issues / Limitations**

- If the QRadar reference sets hold a large number of values in them, there might be a disparity in the counts displayed in the reference set details window and the reference set list window.
- Duplicate QRadar reference sets might be created with the same name.
- If the QRadar reference sets hold a large number of values(>100k) in them, there might be issues with deleting the values from the reference set by the background script.



# **Change Log**

#### Version 2.0.0

- Added Automatic and Manual offense enrichment.
- Added validations on the configuration page.
- Added reset functionality on the configuration page.
- Moved the proxy section below the ThreatQ settings section on the configuration page.
- The **Pull ThreatQ Indicators** action was renamed to **Pull All ThreatQ Indicators**.
- Added new configuration options: Time to Live and ThreatQ Instance Timezone to the Configure ThreatQ settings section on the configuration page.
- Indicators from the Reference sets will now be deleted based on the set Time To
   Live field located under the Configure ThreatQ settings section on the configuration
   page.
- Added enhancement in data collection and export offense scripts.
- Added a background script that, when enabled, will sync the indicators between ThreatQ and QRadar at a configured interval.

### Version 1.3.6

- Fixed a token refresh issue where the app would fail to refresh the access token.
   This would halt all communication with the ThreatQ platform. This affected the following actions:
  - IoC ingestion from ThreatQ into QRadar
  - Offenses/Events exported from QRadar to ThreatQ
  - Hover to obtain metadata
  - All right-click actions
- The minimum ThreatQ version requirement has been updated to version 4.44.0 to utilize an update to the ThreatQ SDK.
- Added permissions to configuration settings (in QRadar) for endpoints.
   These settings are now restricted to Admin-level accounts per IBM requirements.
- Removed logs with sensitive information.

#### Version 1.3.1

- Fixed an issue that would cause data to sync incorrectly.
- UI field label update: Saved Searches are now Data Collections.



Reorganized user guide.

### Version 1.3.0

- Added support for QRadar 7.4.2 compatibility.
- Added toggle option, Prefix Scheme (http:/https) to URLs, to enable/disable URL normalization during the indicator import process. See the ThreatQ Settings section of the Configuration chapter for more details.

### Version 1.2.5

• Fixed a bug where accented characters would cause the app to crash.

### Version 1.2.4

- Fixed a bug where in some cases the sync would fail without warning.
- Added the ability to append saved search names to the reference sets.

#### Version 1.2.3

Fixed a bug where indicators with special characters failed to sync.

### Version 1.2.2

- Fixed a bug with the pull indicators immediately option.
- Updated indicator pull from ThreatQ to be more memory efficient.
- Updated indicator pull from ThreatQ with a search differential.

### Version 1.2.1

- Changed authentication from username/password auth to client credentials.
- Removed the source name from the QRadar app, since this is now configurable via the client credentials command.
- Added extra logging to provide better error reporting.

#### Version 1.2.0

- Redesigned User interface to improve user interactivity and looks
- $^{\circ}\,$  Added a new option to the right click context menu for 'Mark True Positive'
- $^{\circ}\,$  New filters for QRadar Offenses based on Status, Magnitude, Category, and Offense ID
- Events created in ThreatQ by QRadar now contain a link back to the QRadar Offense.
- Ability to import a larger initial offense set. Ability to change the source of indicators and events added to ThreatQ.
- Http/Https are appended to URL type indicators if a scheme is not present.
- Source name for QRadar app can now be modified.
- · Other bug fixes and performance enhancements



### Version 1.1.0

- Metadata provider for IP Address Indicators and Ariel:URL/Ariel:Hostname
  - Shows a link to the ThreatQ indicator if found
  - Shows the indicator's Score
  - Shows the number of Adversaries, Attributes, and Sources.
  - Shows the first 3 Adversaries, Attributes, and Sources.
- Ability to clear the Metadata cache of all stored indicators.
- Ability to change the timing in which the Metadata cache will start to refresh indicator data.
- Ingestion of indicators from ThreatQ to QRadar can be enabled/disabled.
- The timing for indicator ingestion from ThreatQ can be changed.
- A ThreatQ Threat Library Search can now be leveraged to import indicators into QRadar
- Proxy settings for communicating from QRadar to ThreatQ have been added.
- Other bug fixes and performance enhancements.

#### Version 1.0.0

- Right Click Context Menu which provides the following actions:
  - Add indicators to ThreatQ
  - Add Indicator to ThreatQ Whitelist
  - Mark Indicator as False Positive in ThreatQ
  - Check ThreatQ for Indicator Details
- Dashboard that shows how many indicators of what types are in QRadar from ThreatQ