

ThreatQuotient



ThreatQ App for QRadar Guide

Version 1.3.6

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 ThreatQ Supported

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Versioning

- Current Integration Version: 1.3.6
- Supported on ThreatQ Version: \geq 4.44.0
- QRadar SIEM Version: \geq 7.4.2

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, it's advised to purge all ThreatQ reference sets of data before installing and pulling indicators with the new version. This will ensure the differential has the most accurate information.

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.

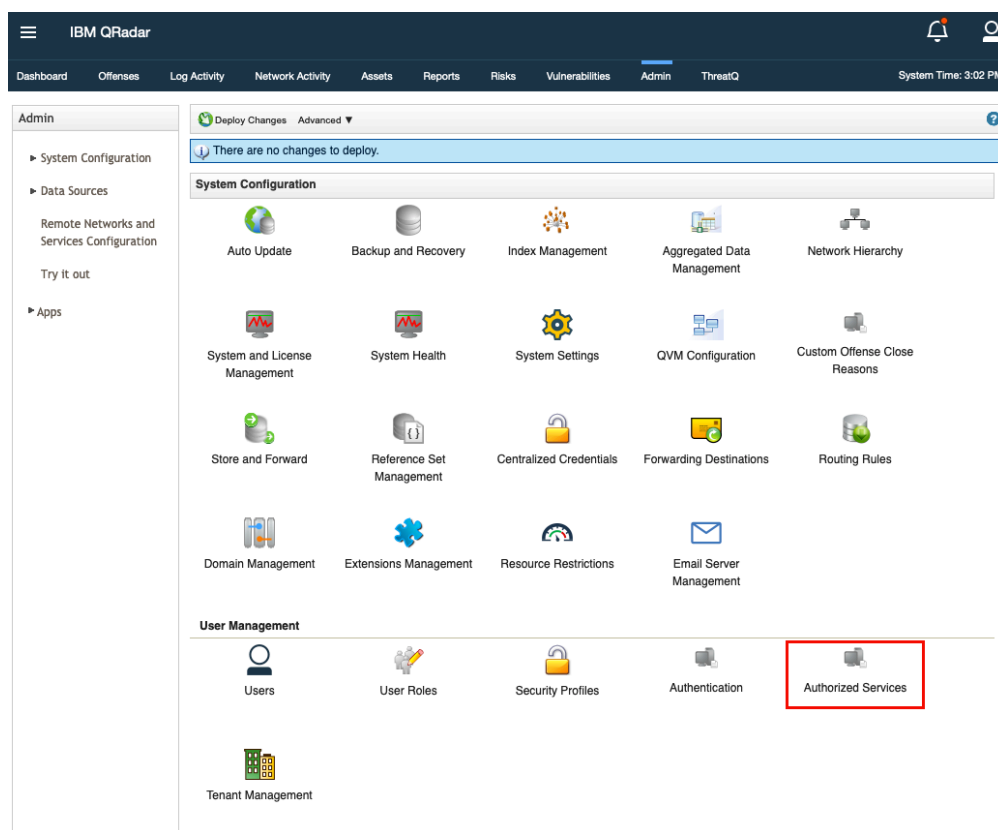
Installation

If a previous version of the application has been installed, it's advised to purge all ThreatQ reference sets of data 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**.

Add Authorized Service Delete Authorized Service Edit Authorized Service Name Selected Token:None						
Service Name	Authorized By	Authentication Token	User Role	Security Profile	Created	Expires

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

Add Authorized Service	
Service Name:	ThreatQ
User Role:	Admin
Security Profile:	Admin
Expiry Date:	11/1/2017 / <input checked="" type="checkbox"/> No Expiry
Cancel Create Service	

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

Add Authorized Service Delete Authorized Service Edit Authorized Service Name Selected Token: [REDACTED]						
Service Name	Authorized By	Authentication Token	User Role	Security Profile	Created	Expires
Local Health Console	configservices	[REDACTED]	Admin	Admin	Jul 4, 2017, 1:12:11 AM	Permanent
ThreatQ	admin	[REDACTED]	Admin	Admin	Jul 5, 2017, 10:22:57 AM	Permanent

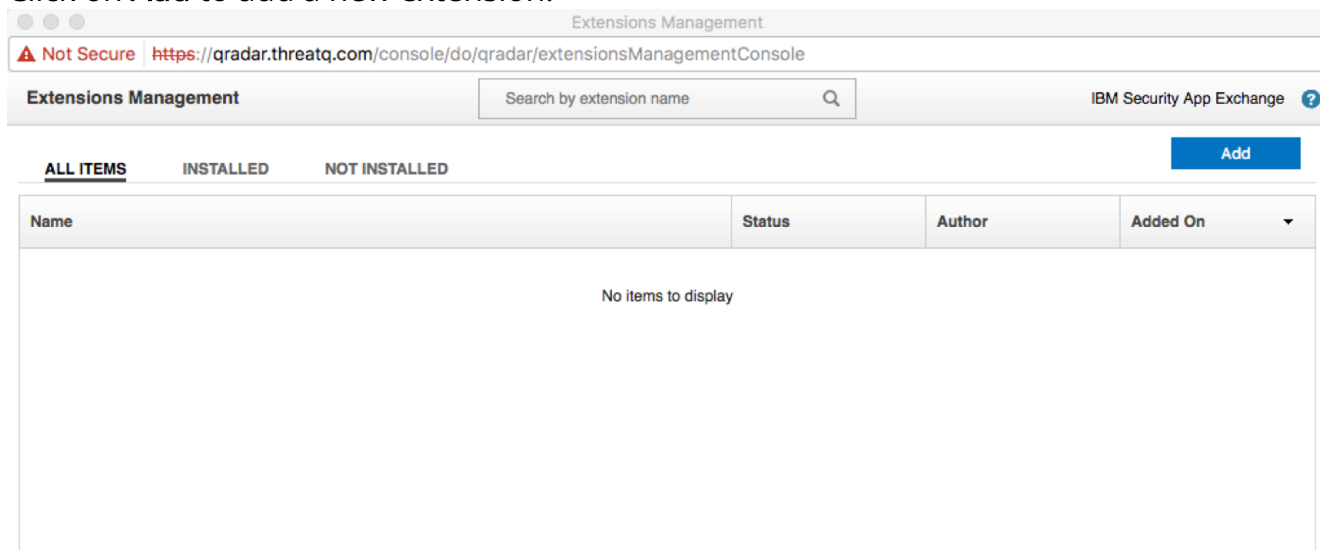


Be sure to deploy the changes so that the app can use the token.

- Open **Extensions Management** located under the *System Configuration* section.

The screenshot shows the IBM QRadar Admin console interface. The left sidebar contains the 'Admin' menu with options for System Configuration, Data Sources, Remote Networks and Services Configuration, and Apps. The main content area is titled 'System Configuration' and displays a grid of icons for various management tasks. The 'Extensions Management' icon, which is a blue gear with a plus sign, is highlighted with a red rectangle. Other icons include Auto Update, Backup and Recovery, Index Management, Aggregated Data Management, Network Hierarchy, System and License Management, System Health, System Settings, QVM Configuration, Custom Offense Close Reasons, Store and Forward, Reference Set Management, Centralized Credentials, Forwarding Destinations, Routing Rules, Domain Management, Resource Restrictions, Email Server Management, User Management (Users, User Roles, Security Profiles, Authentication, Authorized Services), and Tenant Management.

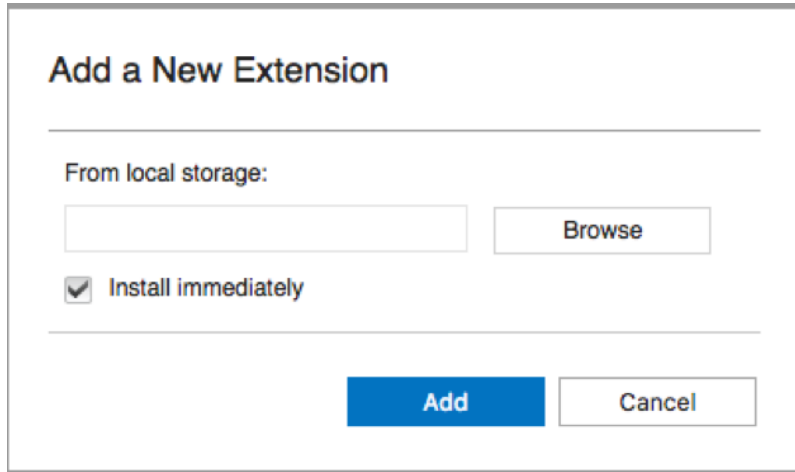
7. Click on **Add** to add a new extension.



The screenshot shows a web browser window titled "Extensions Management" with the URL <https://qradar.threatq.com/console/do/qradar/extensionsManagementConsole>. The page has a "Not Secure" warning. Below the header, there is a search bar labeled "Search by extension name" and a link to "IBM Security App Exchange". The main content area has three tabs: "ALL ITEMS", "INSTALLED", and "NOT INSTALLED". The "ALL ITEMS" tab is selected. Below the tabs is a table with columns: "Name", "Status", "Author", and "Added On". The table is currently empty, displaying the message "No items to display". A blue "Add" button is located in the top right corner of the table area.

Name	Status	Author	Added On
No items to display			

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

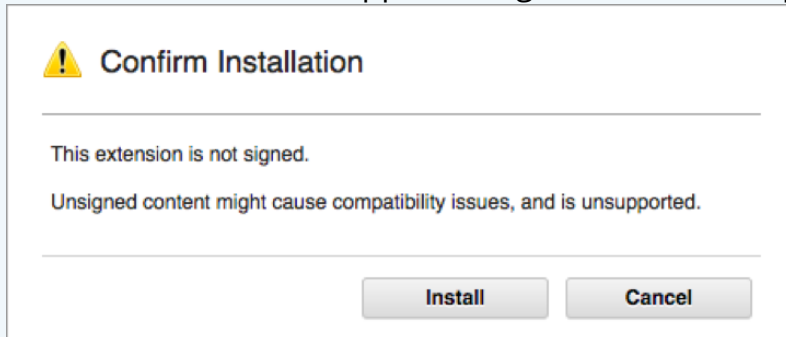


The dialog box is titled "Add a New Extension". It contains a section "From local storage:" with a text input field and a "Browse" button. Below this, there is a checkbox labeled "Install immediately" which is checked. At the bottom right, there are two buttons: "Add" (in blue) and "Cancel" (in white with a grey border).

- Click **Add**.

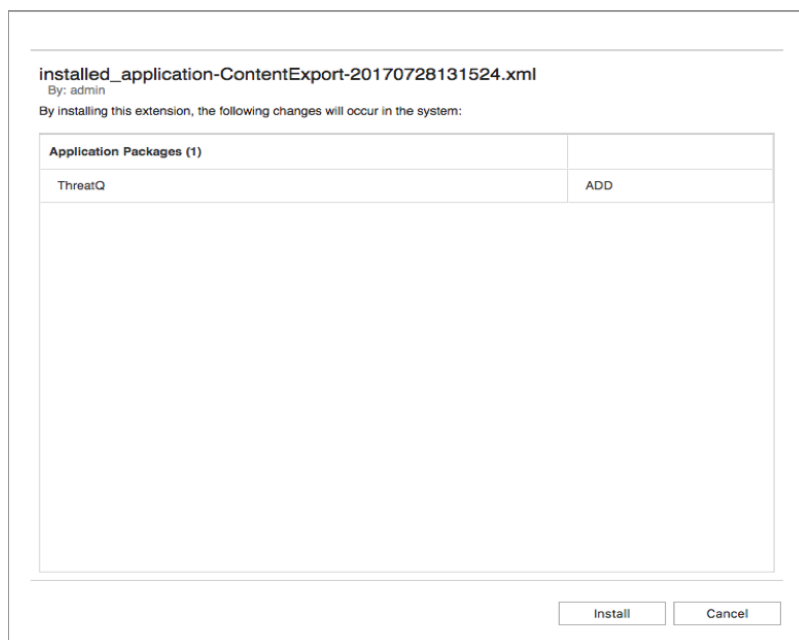


If this is a pre-release extension (it has not been submitted to IBM for validation) you will see a warning indicating that the extension has not been signed. This is expected and will be removed once the App goes through IBM validation and is available with the IBM App Exchange. Proceed to step 10.

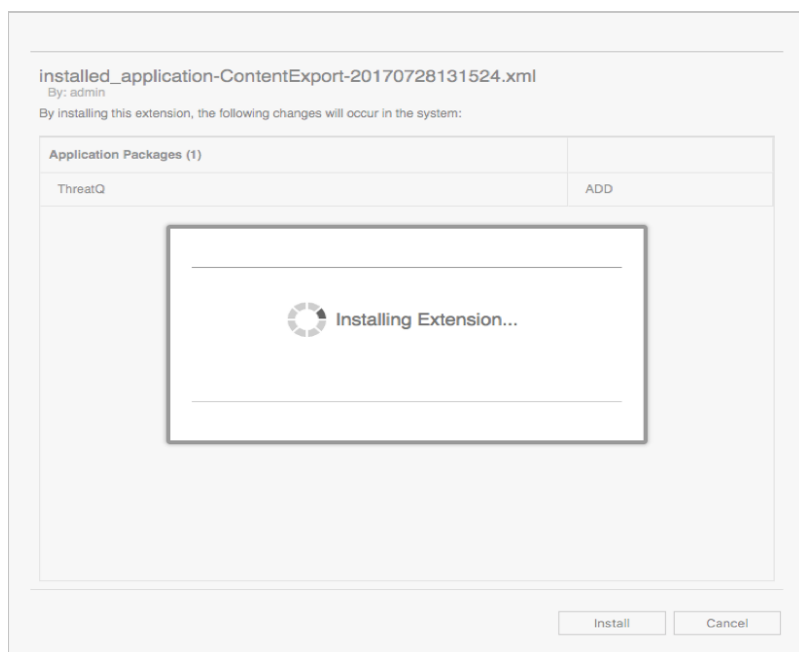


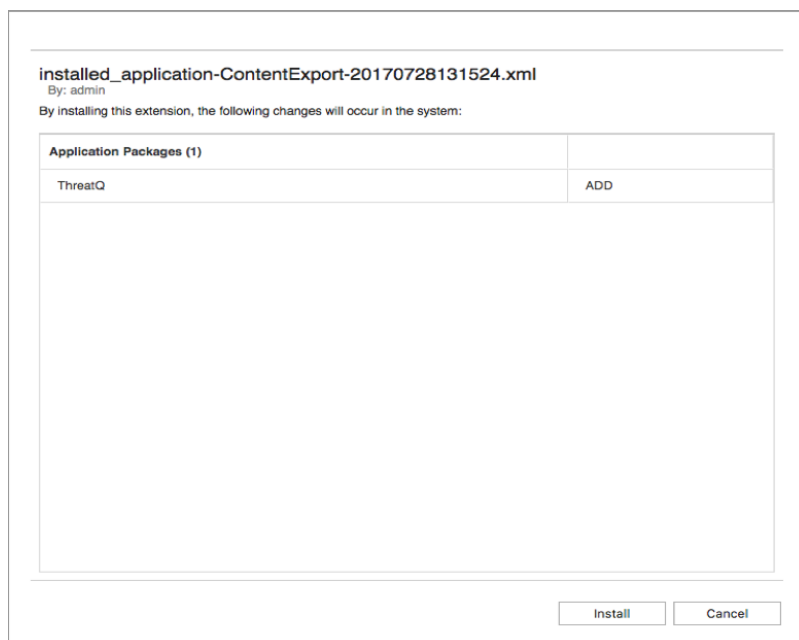
The dialog box is titled "Confirm Installation" with a yellow warning triangle icon. It contains the text: "This extension is not signed." and "Unsigned content might cause compatibility issues, and is unsupported." At the bottom right, there are two buttons: "Install" and "Cancel", both in grey.

10. Click **Install**.

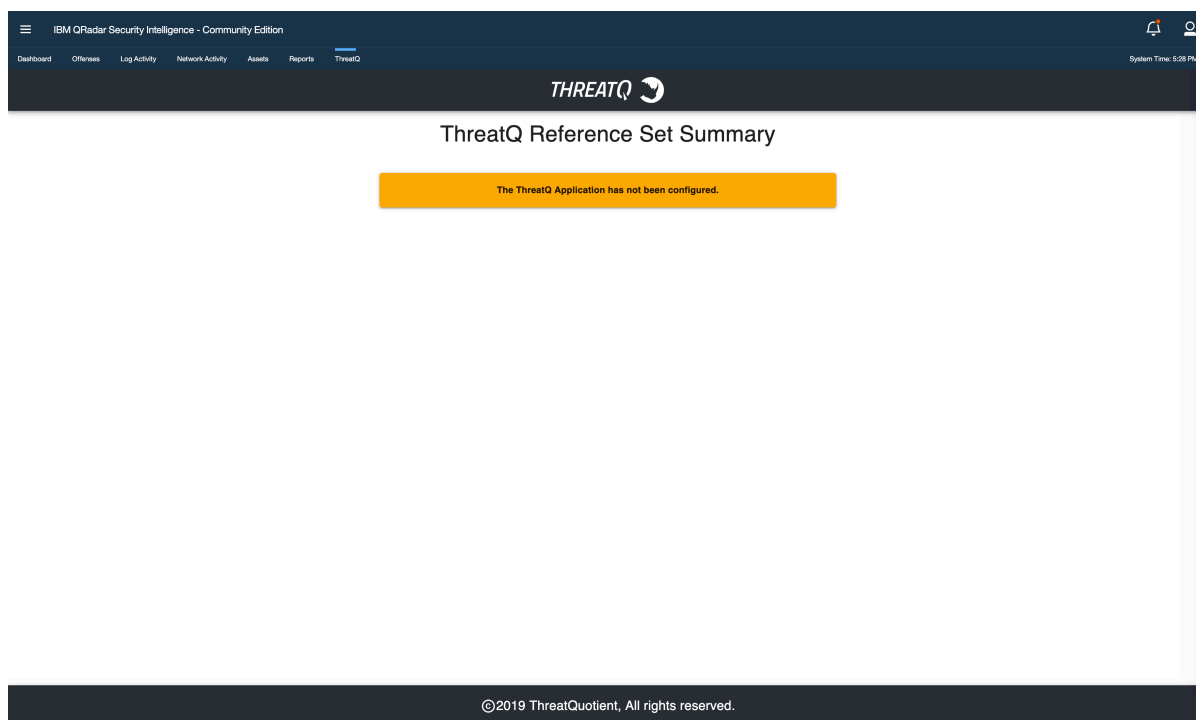


An installation window will pop up with a loading wheel while installing the extension.



11. Click **OK**.

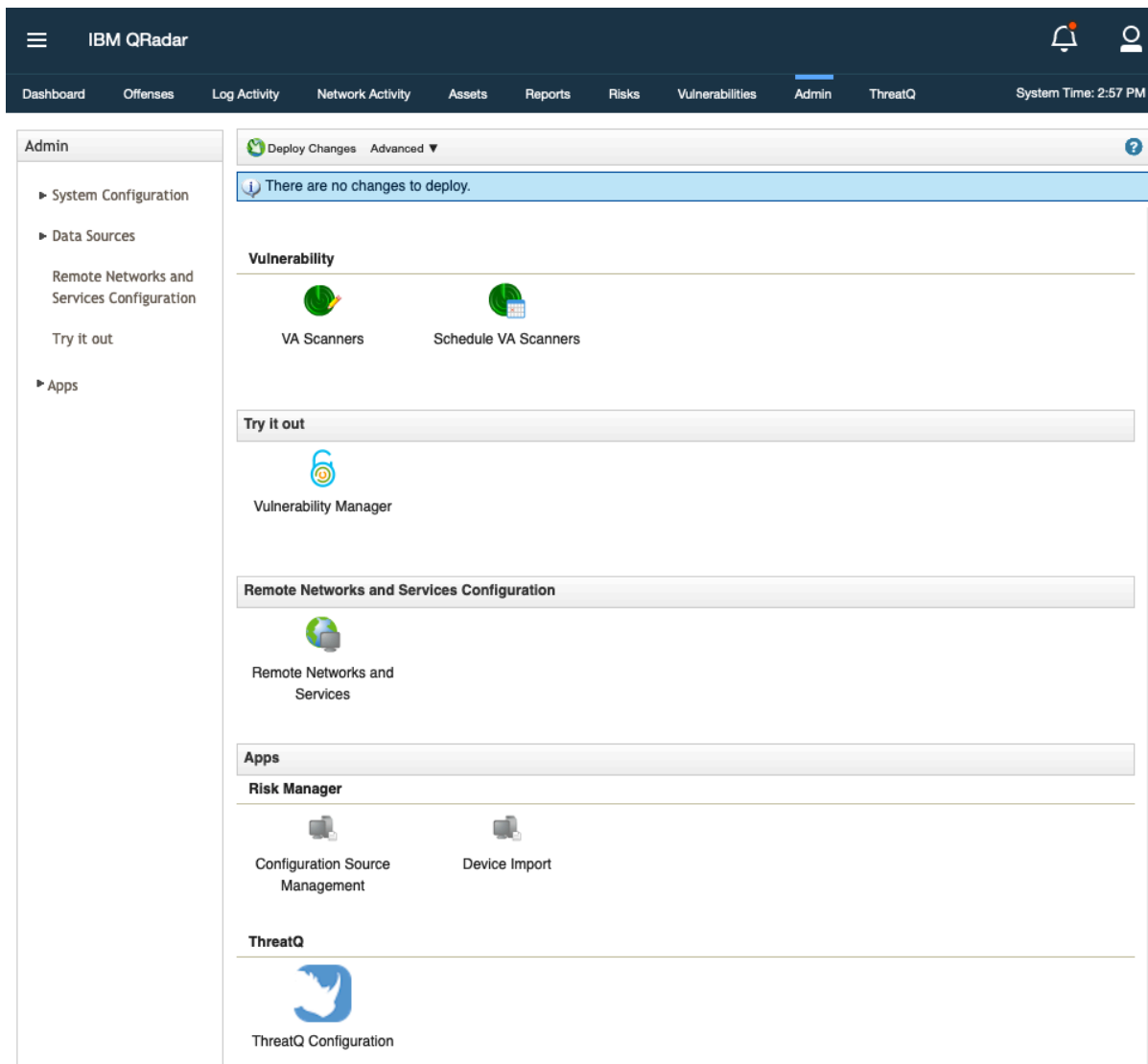
Upon successful installation, a new tab labeled **ThreatQ** will be displayed in the QRadar SIEM UI. The tab will initially display a note indicating that the configurations need to be set in the [ThreatQ Configuration](#) page within the Admin tab.



Configuration

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
client_id: ywewmmymmm4mde3y2uyzdc2ytk2mjdh
client_secret: MjY1OWUyM2RlZTQwZjdiODUxN2MzNGM5ZDZhMTA0MjE1M2VkOTd1NjUxMTI0MGY0
updated_at: 2020-01-24 20:21:53
created_at: 2020-01-24 20:21:53
id: 130
```

Configuring your ThreatQ Data Collection

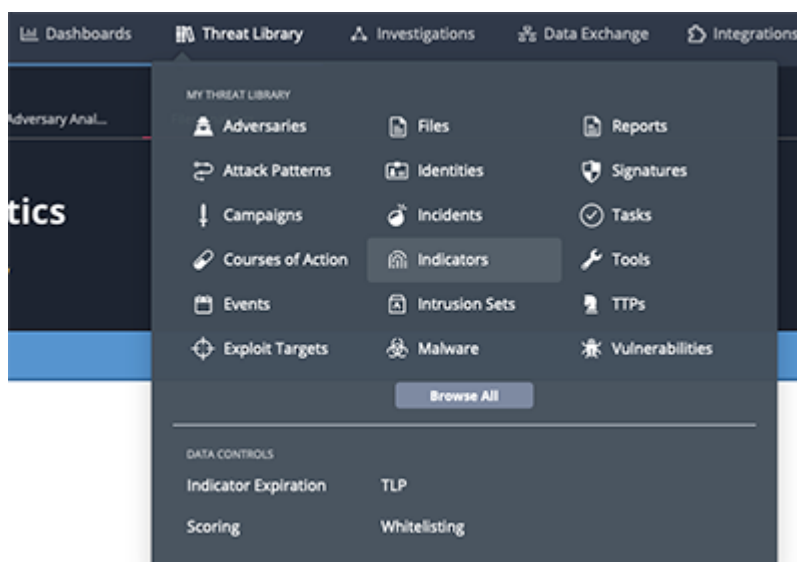
IoCs will be imported into QRadar based on the configurations from the ThreatQ Threat Library saved searches, referred to as Data Collections in the ThreatQ platform. The filter parameters for the data collection must be configured in ThreatQ.

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.

The screenshot shows the 'Threat Library' interface. At the top, there's a search bar and a 'Filter Set 1' dropdown. Below this, a table of indicators is displayed. A 'Filters' dropdown menu is open, showing various filter options.

VALUE	TYPE	DATE CREATED	LAST MODIFIED	STATUS	SCORE
202.164.165.146	IP Address	06/17/2021 02:13pm	06/17/2021 02:13pm	Active	0
202.164.153.149	IP Address	06/17/2021 02:13pm	06/17/2021 02:13pm	Active	0
202.163.101.11	IP Address	06/17/2021 02:13pm	06/17/2021 02:13pm	Active	0
202.161.80.254	IP Address	06/17/2021 02:13pm	06/17/2021 02:13pm	Active	0
202.157.185.77	IP Address	06/17/2021 02:13pm	06/17/2021 02:13pm	Active	0

The 'Filters' dropdown menu includes the following options: Context, CIDR block range, Import ID, Keyword, List of Indicators, Relationship, Relationship Criteria, and Indicator Score.

3. Click on **Save**.

The Save Data Collection dialog box opens.

The 'Save Data Collection' dialog box is shown. It has a title bar with a close button (X). Below the title bar is a text input field labeled 'Name Your Data Collection'. At the bottom of the dialog is a button labeled 'Save Data Collection'.

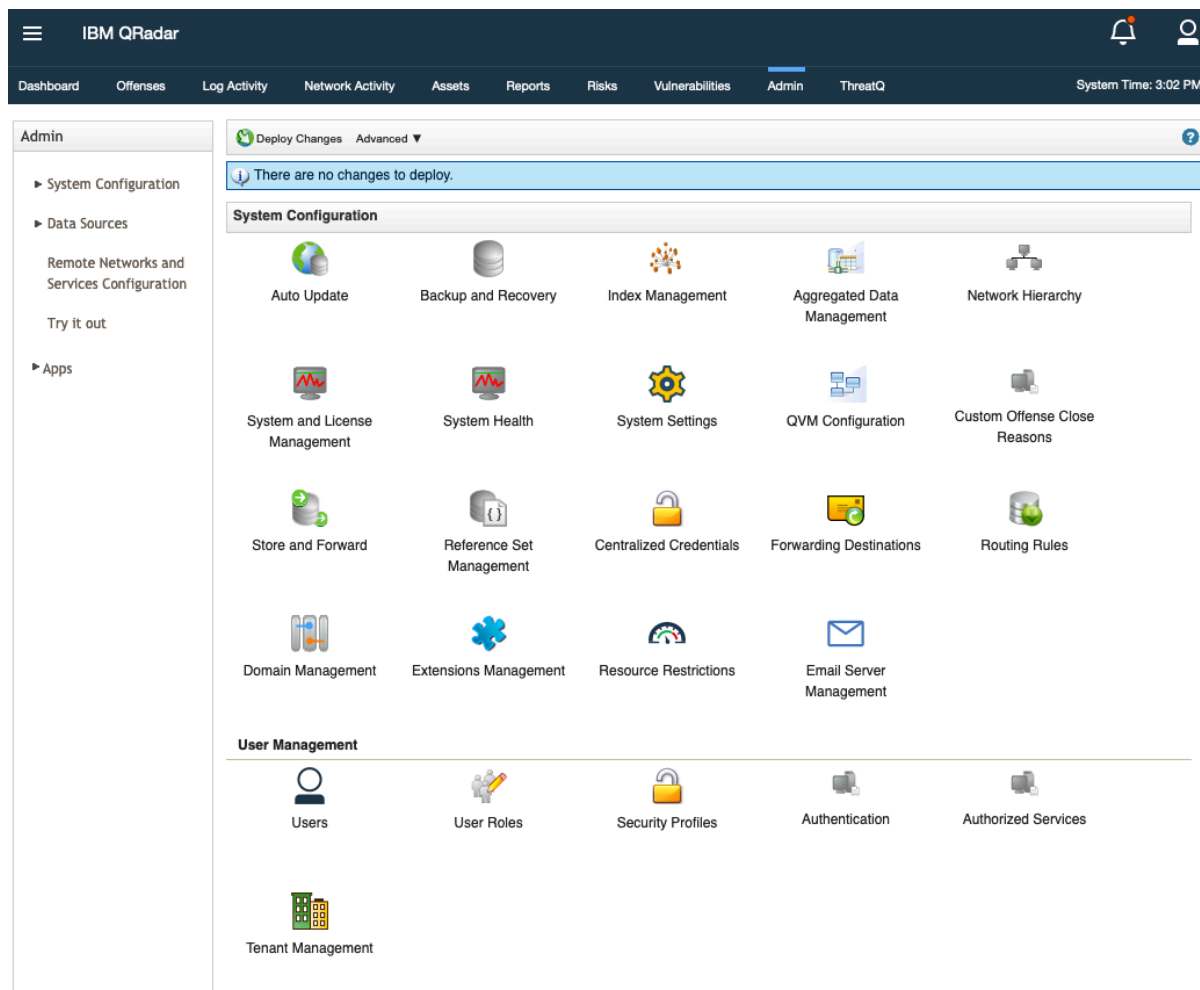
4. Enter the name for your search and click **Save Data Collection**.

Configuring ThreatQ in QRadar

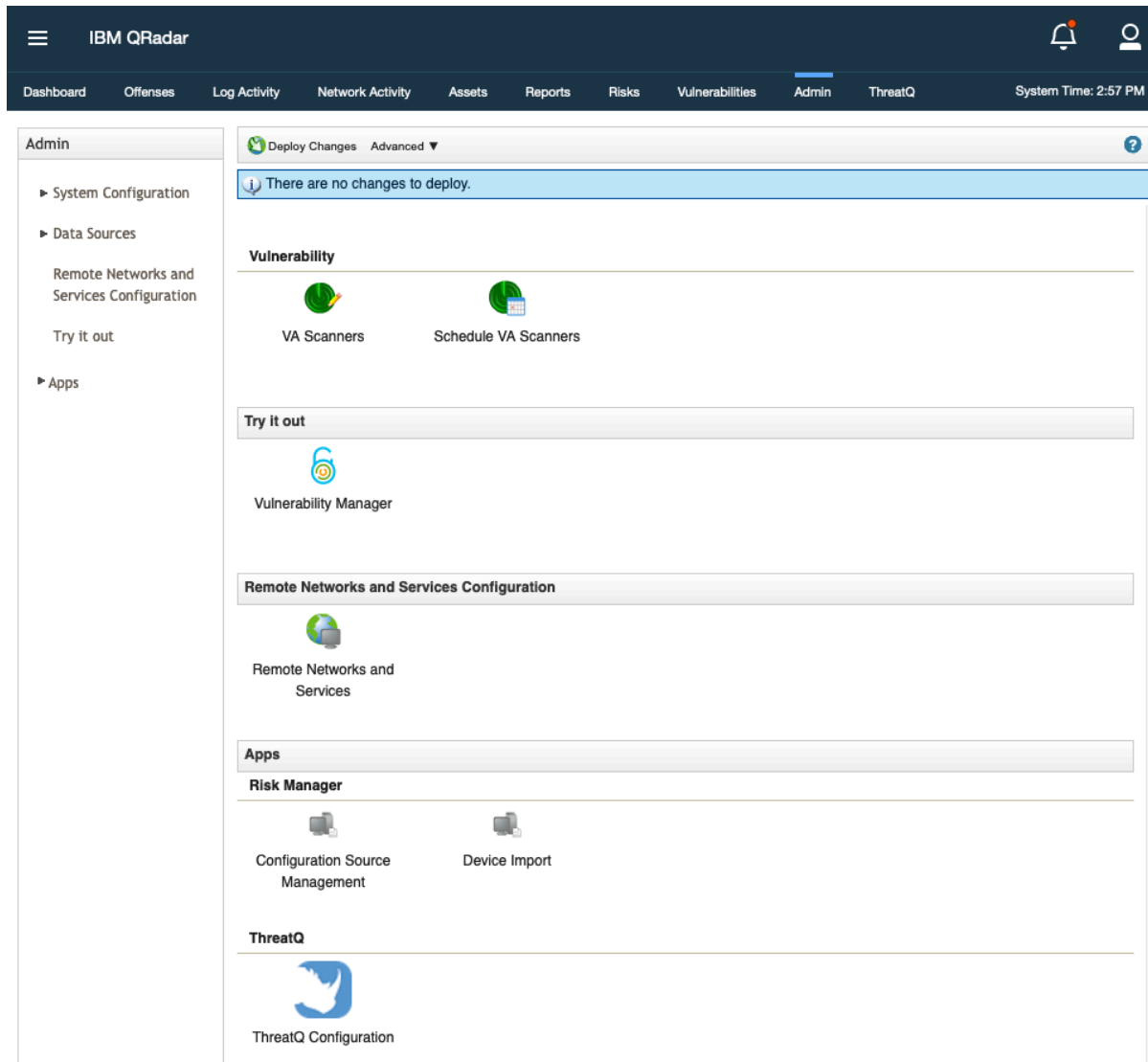


IBM requires Admin-level permissions to set the configuration in QRadar. This change was in ThreatQ App for QRadar version 1.3.5.

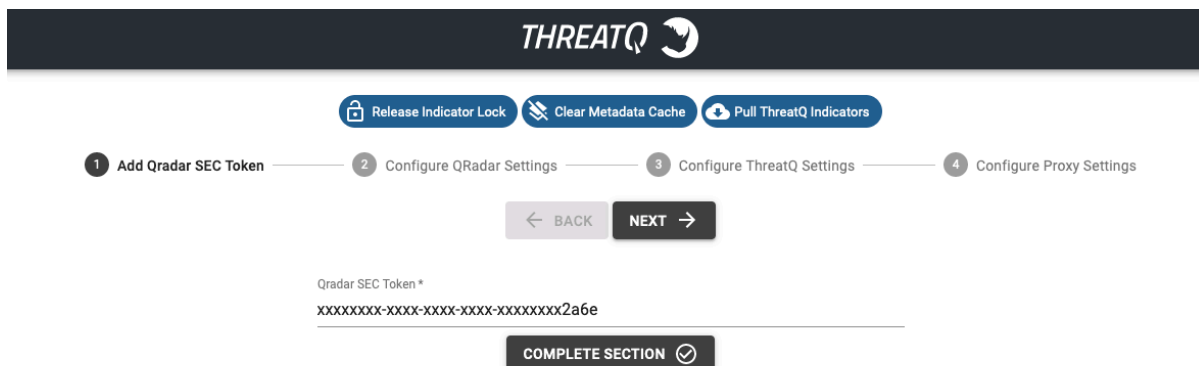
1. Click on the **Admin** tab in the QRadar SIEM UI.



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



A popup window will open with the ThreatQ Configuration form.

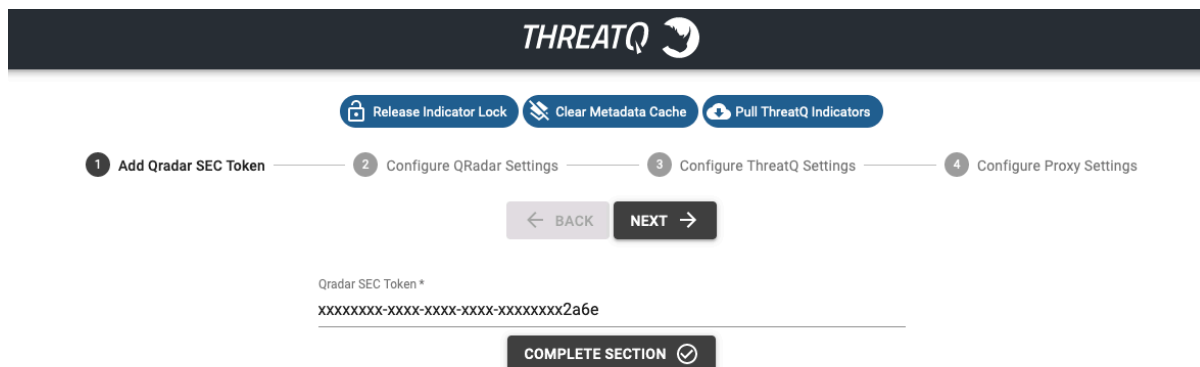


The configuration form will also include three action buttons at the top of the form:

BUTTON	DESCRIPTION
Release Indicator Lock	This button will release the Indicator lock.
Clear Metadata Cache	This button will clear the indicator information stored in the metadata cache.
Pull ThreatQ Indicators	This button will trigger the app to download ThreatQ indicators.

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

FIELD	DESCRIPTION
QRadar SEC Token	The API token for QRadar SIEM.




The screenshot shows the ThreatQ configuration interface. At the top, there's a dark header with the ThreatQ logo. Below it, three action buttons are visible: "Release Indicator Lock", "Clear Metadata Cache", and "Pull ThreatQ Indicators". A progress bar indicates four steps: 1. Add Qradar SEC Token (current), 2. Configure Qradar Settings, 3. Configure ThreatQ Settings, and 4. Configure Proxy Settings. Below the progress bar are "BACK" and "NEXT" buttons. The "QRadar SEC Token *" field contains a masked value "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx2a6e". At the bottom, there is a "COMPLETE SECTION" button with a checkmark icon.

4. Click **Next** or **Complete Section**.

5. Complete the **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.

FIELD	DESCRIPTION
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.

THREATQ 

Release Indicator Lock

Clear Metadata Cache

Pull ThreatQ Indicators

1 Add Qradar SEC Token

2 Configure QRadar Settings

3 Configure ThreatQ Settings

4 Configure Proxy Settings

← BACK

NEXT →

☐ Enable Exporting Offenses to ThreatQ

QRadar Offense Severity

Offense Magnitude

Offense Statuses

Filter all offenses on status: Can select multiple statuses

Select Categories


Start Typing to filter the categories. You can select multiple categories.

QRadar List of Ids

If providing more than one id, this must be a comma delimited list of ids.

QRadar List of Offense Keywords

If providing more than one keyword, this must be a comma delimited list of keywords.

COMPLETE SECTION 

6. Click **Next** or **Complete Section**.

7. Complete the **ThreatQ Settings** section:

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 on will have indicators pulled from ThreatQ to QRadar as soon as the form is saved.
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 .

For best results, this option should be selected when first

FIELD	DESCRIPTION
	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	<p>Comma-delimited list of the names of Data Collections used to import indicators from ThreatQ to QRadar.</p> <p>Do not add spaces between data collection names if adding multiple.</p> <p>Example: score10,score9</p>
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.

THREATQ

Release Indicator Lock

Clear Metadata Cache

Pull ThreatQ Indicators

1 Add Qradar SEC Token

2 Configure QRadar Settings

3 **Configure ThreatQ Settings**

4 Configure Proxy Settings

← BACK

NEXT →

☒ Enable Indicator Ingestion to QRadar?

☐ Pull Indicators Immediately?

☒ Prefix search names to reference sets?

☐ Prefix scheme (http/https) to URLs?

ThreatQ Server Url *

ThreatQ Client ID *

ThreatQ Client Secret *

Data Collection Names *

If providing more than one Data collection, this must be a comma delimited list of actual Data collections in ThreatQ. Data collection names can be created and configured in the ThreatQ Threat Library.

Indicator Ingestion Timing *

ThreatQ Indicator ingestion time in hours. Default is 1 hour.

Metadata Cache Refresh *


Metadata Indicator cache refresh time in hours. Default is 24 hours.

COMPLETE SECTION

8. Click **Next** or **Complete Section**.

9. Complete the **Proxy Configuration** section:

FIELD	DESCRIPTION
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.

THREATQ

Release Indicator Lock

Clear Metadata Cache

Pull ThreatQ Indicators

1 Add Qradar SEC Token

2 Configure QRadar Settings

3 Configure ThreatQ Settings

4 **Configure Proxy Settings**

← BACK

NEXT →

☐ Use an external proxy?

Proxy Host

Proxy Port

Proxy Username

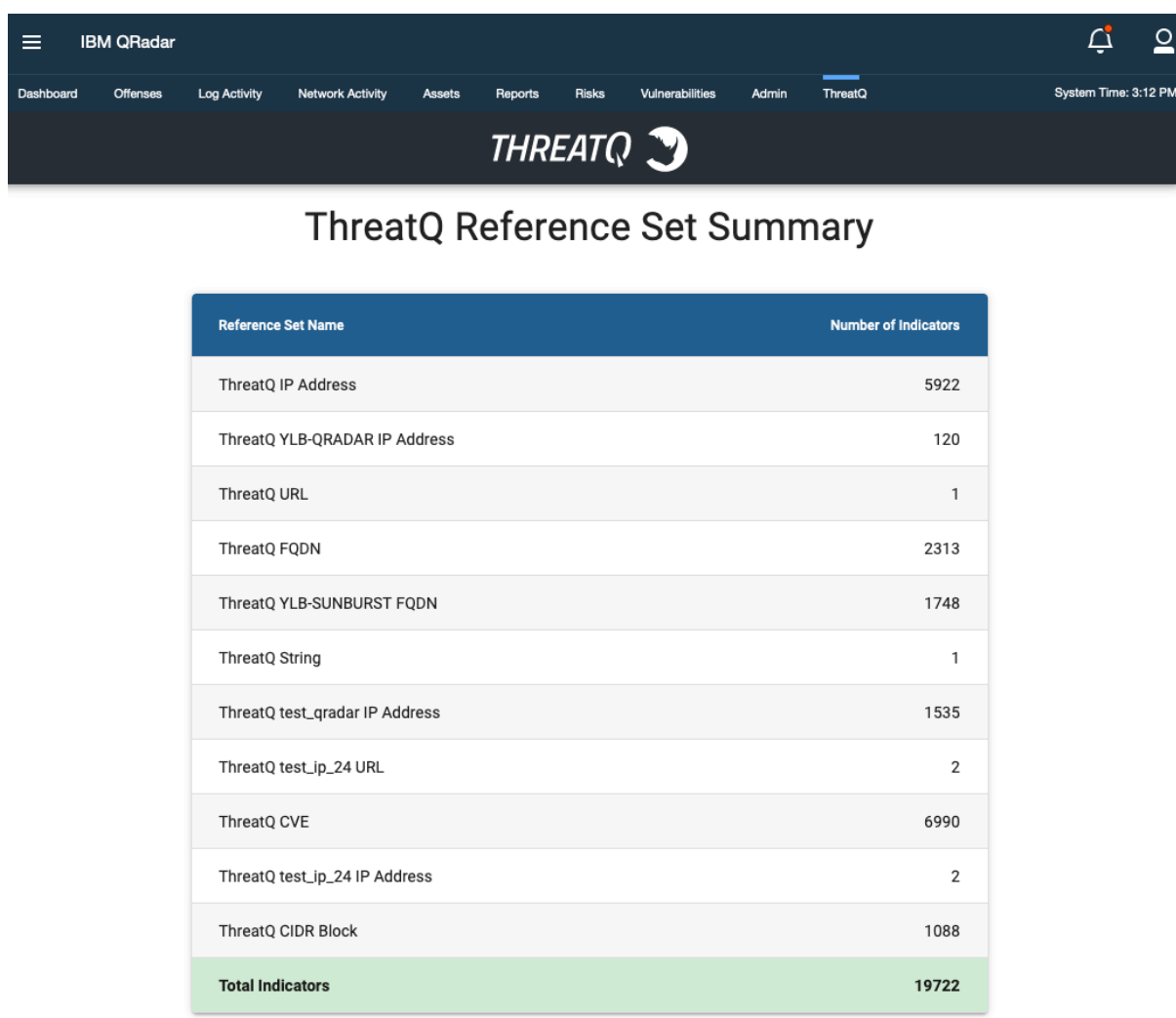
Proxy Password

COMPLETE SECTION ✓

10. Click **Next** or **Complete Section**.

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

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



The screenshot shows the IBM QRadar ThreatQ interface. The top navigation bar includes a hamburger menu, the text 'IBM QRadar', and a notification bell icon. Below this is a secondary navigation bar with tabs: Dashboard, Offenses, Log Activity, Network Activity, Assets, Reports, Risks, Vulnerabilities, Admin, and ThreatQ (which is highlighted). The system time '3:12 PM' is displayed on the right. The main content area features the ThreatQ logo and the title 'ThreatQ Reference Set Summary'. Below the title is a table with two columns: 'Reference Set Name' and 'Number of Indicators'. The table lists various reference sets and their corresponding indicator counts, with a total of 19722 indicators.

Reference Set Name	Number of Indicators
ThreatQ IP Address	5922
ThreatQ YLB-QRADAR IP Address	120
ThreatQ URL	1
ThreatQ FQDN	2313
ThreatQ YLB-SUNBURST FQDN	1748
ThreatQ String	1
ThreatQ test_qradar IP Address	1535
ThreatQ test_ip_24 URL	2
ThreatQ CVE	6990
ThreatQ test_ip_24 IP Address	2
ThreatQ CIDR Block	1088
Total Indicators	19722

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.

If there are updates in subsequent searches, the App will *purge* the contents of the Reference Set, but the integrity of the Reference Set will remain intact so as to maintain any custom rules that may have been linked to the applicable Reference Set.

If there are no updates for a particular set, the Reference Set is left in its current state. ThreatQ Reference Sets may then be used to create custom rules to alert or notify Analysts to a possible threat to their organization.

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.

Usage

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

There are two threads running:

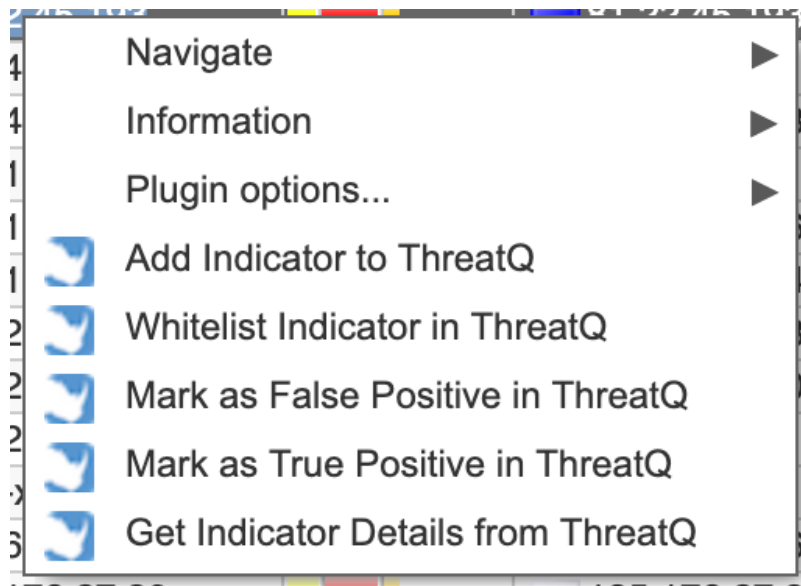
THREAD	DESCRIPTION
Get Indicators	This thread will run every hour.
Get Offenses	This thread will run every two minutes until it finds and processes offenses.



This option should be selected when first setting up the app for best results. When toggling the **Prefix Search Names to Reference Sets** 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.

Right-Click Actions

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

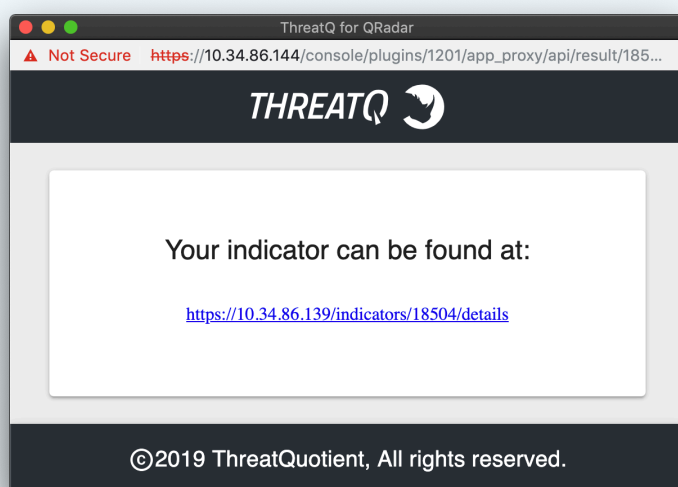


Actions include:

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.
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


Registered Location:  United States, NorthAmerica

Physical Location:  United States, NorthAmerica (Latitude: 38, Longitude: -98)


Map:

+

-



Leaflet | © OpenStreetMap contributors, CC-BY-SA

Source Magnitude:  (0/10)

Offenses: 5

https://10.34.86.139/indicators/6647/details

Score	Adversaries	Attributes	Sources
7	4	8	5

Related Sources

Intel471
SANS ISC Top Source IPs
Cuckoo Sandbox

Related Adversaries

Pikachu
Zakira
Zakki Zaydullo

Attribute Name	Attribute Value
Product	HoneyPy
Risk Score	35
Criticality	Suspicious

ThreatQ:

Right click for more information on 74.82.47.60

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 2 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.

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	<code>shell \$/opt/qradar/support/qapp_utils_730.py ps</code>
QRadar SIEM's >= 7.3.2 console	<code>shell \$/opt/qradar/support/recon ps</code>

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/qradar/>.

Change Log

- **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
 - Added a new option to the right click context menu for 'Mark True Positive'
 - 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