ThreatQuotient



ThreatQuotient for LogRhythm Implementation Guide

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Introduction

The LogRhythm integration is a single install Windows based python2 integration between ThreatQ and the LogRhythm Platform Manager (PM).

This integration uses 2 main integration points with LogRhythm, listed below:

- Admin REST API: This REST API (available as of 7.4.x) allows for the creation and management of Lists with LogRhythm using REST. Currently, ThreatQ leverages this to export data from a data collection created via the Threat Library in ThreatQ to LogRhythm for use in correlations
- **Smart Response Plugins**: Several Smart Response Plugins have been created to allow for the context of an IOC within ThreatQ to be exported to LogRhythm, and to allow LogRhythm to export context around detections back to ThreatQ

The required version of LogRhythm for this integration to work is 7.4.x. This is due to the reliance on the Admin REST API.



Requirements

The following are requirements for the ThreatQuotient for LogRhythm integration.

Versioning

- LogRhythm Version 7.4.x or newer
- Python2 version 2.7.12 or newer installed on the LogRhythm Platform Manager
- ThreatQ Version 4.23.0 or newer
- ThreatQ SDK Version 1.7 or newer (Installed Automatically)
- ThreatQ CC Version 1.3 or newer (Installed Automatically)
- Indicators loaded into the ThreatQ Appliance
- ThreatQ data collections readied for export

Users

- LogRhythm API User See the Creating an API User for LogRhythm section.
- ThreatQ User of at least Primary Contributor (User to generate data collections with and to use as connection).
 - It is suggested to create a user for this purpose (username like logrhythm@company.com)
 - Throughout the rest of this documentation, this user will be referred to as the "LogRhythm ThreatQ User" to differentiate it from admin level users



Pre-Installation

As noted in the Requirements section, this integration requires Python2 version 2.7.12 or later and a Log Rhythm API User. This section will provide the steps necessary to meet the requirements.

Creating an API User for LogRhythm

This section will describe how to create an API user to use with the ThreatQ integration.

- 1. Log into the VM where your LogRhythm instance is installed
- 2. Open up your LogRhythm Console Within the LogRhythm Console
- 3. Go to the Deployment Manager tab and then click on Third Party Applications
- 4. Select the Third Party Application tab
- 5. Right click the page and select "New" to create a new app
- 6. Click Generate Token to generate a new JWT (token) to use for authentication
- 7. Copy the JWT down somewhere to use with the ThreatQ integration



Installing Python2

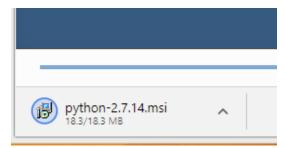
If Python 2.7.12 or newer has not been installed on the Platform Manager, follow the instructions below to install Python 2.7.12 or newer.

Note: As of the release of this document, Python 2.7.18 is the newest Python2 version. **This integration is NOT currently compatible with Python 3**.

- Navigate to The Python Downloads Page https://www.python.org/downloads/.
- 2. Select Download Python 2.7.X.



3. Click on the Downloaded Python MSI.



4. Select Install for all users and click Next.





5. Select the installation location.



Note: It is suggested that the default C:\Python27 is used.

6. Verify that Add python.exe to Path is selected and click Next.





7. Click on the Finish button after the installation is complete.

Once complete, you should be able to navigate to C:\Python27 and execute the python program.

8. Type exit() to exit the shell.



Installation

The command pip is used to install the ThreatQ Integration on the LogRhythm server.

To install this, open a command prompt Windows Key + R: cmd as an administrator.

The instructions below assume that Python 2.7.12 or newer has been installed on the system. If it has not, refer to the Installing Python2 section.

Note: Python must be installed in the Python27 directory for this to operate correctly. If another installation directory is used, replace C:\Python27 with the correct directory. A specific SRP bundle will have to be generated for this configuration. Contact support@threatq.com.

- 1. Log into the VM where LogRhythm is installed.
- 2. Open the command line from the start menu.
- 3. Navigate to the Python Directory **C:\Python27\Scripts**.
- 4. Execute the following command:

With Internet Access

If your LogRhythm instance has access to the internet:

```
pip install -i
https://<USERNAME>:<PASSWORD>@extensions.threatq.com/threatq/int
egrations tq_conn_logrhythm
```

Note: <USERNAME> and **<PASSWORD>** are the username and password used to get updates from ThreatQ on the main appliance (The ThreatQ Credentials entered during setup).

This will install several command line tools.

Without Internet Access

Download the installable with its dependencies on an instance with access to the internet, transfer all the files to LogRhythm, and run pip install:



```
mkdir /tmp/logrhythm
pip download tq_conn_logrhythm -d /tmp/logrhythm
```

Transfer the tq_conn_logrhythm-<version>-py2-none-any.whl, and its dependencies to the Downloads folder on the LogRhythm instance.

```
pip install C:\Downloads\tq_conn_logrhythm-1.2.0-py2-none-
any.whl --no-index --find-links C:\Downloads
```

- 5. Optional Add C:\Python27 to your Windows Path. This will allow you to execute commands without having to specify the directory.
- 6. Create new folders in your **Log Files** disk to store the integration's logs and config. For example:

Config: L:\ThreatQ\config

Logs: L:\ThreatQ\logs

7. Check if there is a route to ThreatQ from LogRhythm.

Note: Do not continue past this point until you have confirmed that LogRhythm can reach ThreatQ.

```
C:\ping <ThreatQ Host>
```

8. Execute the following command. If you are using different paths for the config and logs folder, please change the respective values below:

```
C:\Python27\Scripts\tq-conn-logrhythm.exe -c L:\ThreatQ\config\
-ll L:\ThreatQ\logs\ -v3
```



9. Complete the following fields:

Parameter	Description
ThreatQ Host	This is the hostname or IP Address of the ThreatQ appliance
Client ID	This is the OAuth Client ID, found by going to Gear → OAuth Credentials in the ThreatQ Appliance
Email Address	The email address of the LogRhythm ThreatQ User
Password	The password of the LogRhythm ThreatQ User
Status	The status of newly created IOCs.
	Note: It is recommended to select the Active status

Once complete, the log and config paths, and the verbosity level will be stored in $\mbox{HKEY_LOCAL_MACHINE} \setminus \mbox{Software} \setminus \mbox{ThreatQuotient} \setminus \mbox{LogRhythm}$ and will be available to this system.

After the integration is installed on the LogRhythm Platform Manager, the user must configure the integration in the ThreatQ UI.



Configuration

To configure the connector:

- 1. Navigate to your integrations management page in ThreatQ.
- 2. Select **Labs** for the Category dropdown.
- 3. Click on the integration to open its details page.
- 4. Enter the following parameters under the **Configuration** tab:

Parameter	Description
LogRhythm Host	The Hostname of IP Address of the LogRhythm Platform Manager
LogRhythm API Port	This is port 8501 by default and should not have to change. This is the port of the REST API not the SOAP API
Name of the LogRhythm user owning the Threat Lists in LogRhythm NOT the username, but the name of the user as it appears in LogRhythm	Name of the LogRhythm user who will own the threat list. This is usually the LogRhythm Administrator. The name can be found by navigating to LogRhythm Console -> Deployment Manager -> People. Enter the name as see in the first column, NOT the username.
JW Token	This is the token that was generated during the creation of the LogRhythm API User (See this article if you need help creating this token)
A ThreatQ data collection with IOCs to add to LogRhythm	This is the mapping of data collections to LogRhythm lists, explained in detail in the ThreatQ Data Collection section of this document

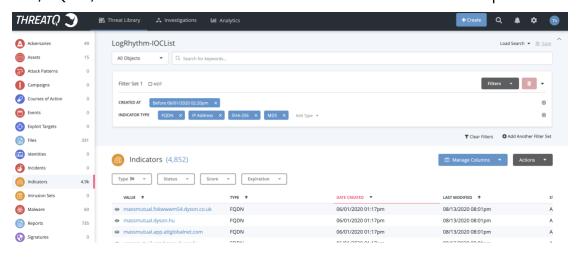
- 5. Click on **Save Changes**.
- 6. Click on the toggle switch, located above the Additional Information section, to enable the integration.



ThreatQ Data Collection

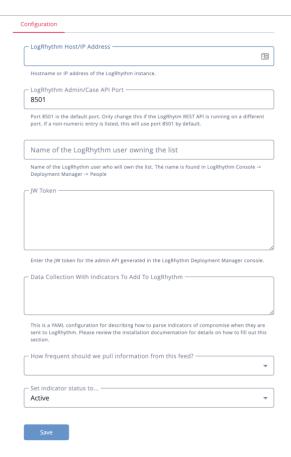
This section explains how to configure a Data Collection in ThreatQ. Go to the ThreatQ Library in ThreatQ and enter the search parameters for the indicators you would like to send to LogRhythm. The IOCs should be of the following types – IP Address, FQDN, MD5, SHA-1, and SHA-256.

This is an example of a data collection called "LogRhythm-IOCList" that includes IP Address, FQDN, SHA-256 and MD5 created before 06/01/2020 at 2:20pm:



Once the search is configured, from the top menu navigate to Integrations -> Feeds & Connectors and click on LogRhythm. Open the card for LogRhythm and enable it by moving the slider to the right.





Fill out the required information for host, LogRhythm user who will own the lists, and the JW Token. In the Data Collection box, enter the name of the data collection search followed by the name of the threat intel list you would like to create in LogRhythm similar to the syntax below, including the three dashes on the first line:



This is a YAML configuration for describing how to parse indicators of compromise when they are sent to LogRhythm. Please review the installation documentation for details on how to fill out this section.

In the line above, "LogRhythm-IOCList" is the name of the Data Collection in ThreatQ. The phrase "ThreatQ-all: " is the basename of a family of lists in LogRhythm. All of the lists will have the prefix "ThreatQ-all:" and then have the specific indicator type. For instance, FQDNs in the above list will be put into the ThreatQ: FQDN list, IP Addresses will be in the ThreatQ: IP Address list, and so on.

Note: The splitting of IoCs into their specific indicator types is a best practice for LogRhythm and is enforced in this integration.



Further splitting of lists is allowed by specifying a splitBy parameter, as below:

- Saved Search With Indicators To Add To LogRhythm ---LogRhythm-IOCList:
baseName: "ThreatQ: "
splitBy: scoreRange

This is a YAML configuration for describing how to parse indicators of compromise when they are sent to LogRhythm. Please review the installation documentation for details on how to fill out this section.

This will have a similar affect as above, except that it will create one more level of list. For instance, FQDNs in the above data collection, "LogRhythm-IOCList", will be saved by score range in the following lists:

• ThreatQ: FQDN: Very High

ThreatQ: FQDN: High

ThreatQ: FQDN: Medium

• ThreatQ: FQDN: Low

ThreatQ: FQDN: Very Low

ThreatQ: FQDN: Not Scored

The above lists will only be created if an FQDN of that level is in the data collection. For instance, if no Medium FQDNs are in the data collection, there will be no ThreatQ: FQDN: Medium list. At any point in the future, these will be added as necessary.

The following are the currently available splitBy parameters:

Parameter	Description
splitBy: score	Similar to the scoreRange, except that lists are broken out by specific score (1-10)
splitBy: scoreRange	Lists are broken out by the score range on the landing page of the appliance
splitBy: tqtype	This is the default and breaks out lists by indicator type only



Recurring Execution

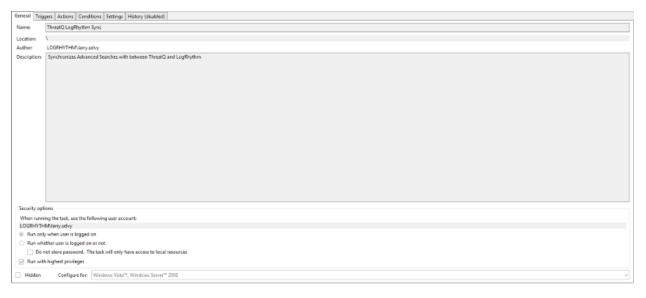
One of the commands provided during the installation is the tq-connlogrhythm.exe command. This command is what is used to read the configuration set in the UI of the ThreatQ appliance, parse the indicators from a data collection in ThreatQ and upload those indicators to the LogRhythm lists.

During the execution of tq-conn-logrhythm.exe, the UI fields are read, lists are created, and all lists are compared against the content of the data collections in the ThreatQ's Threat Library.

Each Indicator of Compromise listed in the data collection is compared to the contents of the associated list. If the IOC is not in the list, it is added during the synchronization step.

When each IOC has been compared to the list, those IOCs which are no longer in the data collection, but are in the list in LogRhythm, are tagged for deletion during the synchronization step. Finally, each list is synchronized.

This must be setup on a recurring basis to keep the data in the lists synchronized to the data in the data collections. To do this, use the Task Scheduler, and configure it as below:











Note: Each list can only have up to 1 Million IOCs in it. Anymore than this and the system will be unable to synchronize correctly.

The frequency of synchronization between ThreatQ and LogRhythm is at the discretion of the user but it should be no more than once an hour.

Other schedulers can be used, the syntax of the command above should be used in whatever scheduler is provided.



Smart Response Plugin

LogRhythm allows for tools to be added to the platform to enrich data within LogRhythm. Using these tools, IOCs can also be enriched within ThreatQ. The following SRPs are provided with the installation. All of these can be found in the C:\Python27\Scripts directory and can also be executed via the CLI on the LogRhythm host.

Name of SRP	Name of SRP	Description	Enrichment
Executable	Action		Destination
tq-whitelist-ioc.exe	ThreatQ Whitelist IOC	This changes the status to "Whitelisted" for an IOC within ThreatQ	Enriches ThreatQ
tq-sighting.exe	ThreatQ Add Sighting	This creates a "Sighting" event within ThreatQ that associates IOCs with the LogRhythm AI Engine Event	Enriches ThreatQ
tq-mark-true-	ThreatQ Mark	Adds an attribute of "True Positive" with a value "Yes" to the IOC within ThreatQ. If the IOC does not exist, this will add it. This is meant to be used during score calculations	Enriches
positive.exe	True Positive		ThreatQ
tq-mark-false-	ThreatQ Mark	Adds an attribute of "False Positive" with a value "Yes" to the IOC within ThreatQ. If the IOC does not exist, this will add it. This is meant to be used	Enriches
positive.exe	False Positive		ThreatQ



Name of SRP Executable	Name of SRP Action	Description	Enrichment Destination
		during score calculations	
tq-lookup.exe	ThreatQ Lookup IOC	Searches the ThreatQ Threat Library for an indicator with the same type and value as the indicator provided	Enriches ThreatQ
tq-add-ioc.exe	ThreatQ Add IOC	Adds an IOC of the same type and value to ThreatQ from LogRhythm. If the IOC already exists, it adds LogRhythm as a source	Enriches ThreatQ



Installation of SRPs

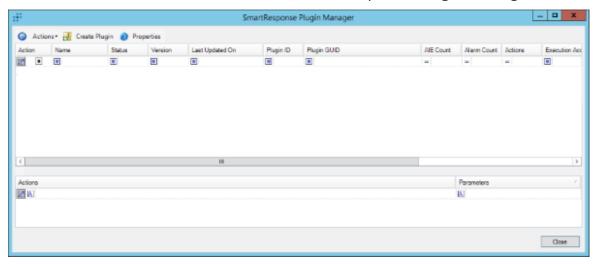
The SPR executables are installed during the original installation of the integration. However, to enable these within LogRhythm to be used in the Client or Web Consoles, the SRP bundle has to be added. The bundle is presented as an all in one.

To install the SRP bundle:

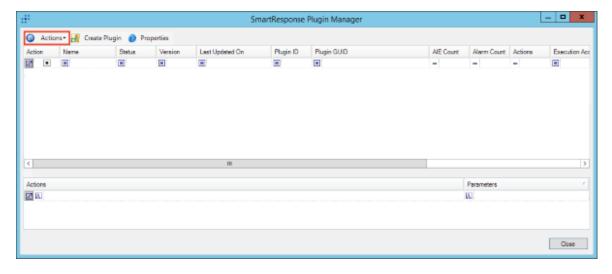
- 1. Login to the LogRhythm console
- 2. Open the Deployment Manager



3. Go to Tools → Administration → SmartResponse Plugin Manager



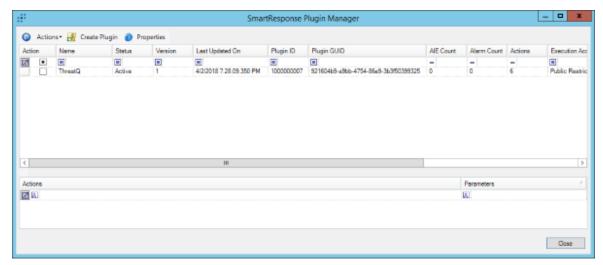
4. Click on the Actions button





5. Navigate to the ThreatQ SRP bundle and click Open.

Once complete, the ThreatQ Smart Response Plugins list found in Smart Response Plugins.





Using a Smart Response Plugin

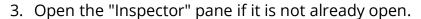
There are several ways in which a Smart Response Plugin can be used. The first is to configure it as part of an AI Engine Rule. This will not be covered in this documentation as it is covered in depth in the LogRhythm Client Console Reference in the LogRhythm Administration \rightarrow AI Engine Section. This section will focus on using the SRPs in the Web Console.

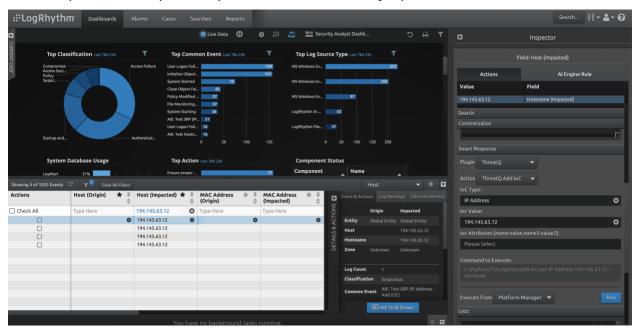
1. Log into the Web Console.



2. Open up the "Logs" pane and Navigate to a log entry that is interesting.



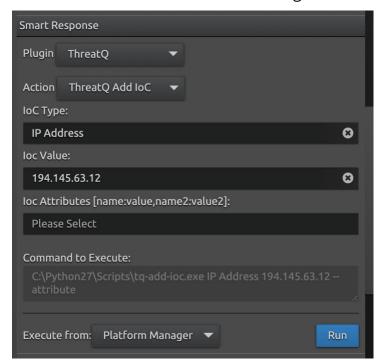




- 4. In the Inspector Pane, Navigate to "Smart Response."
 - a. Choose "Plugin: ThreatQ"
 - b. Choose the appropriate Action (in this example it will be the ThreatQ Add IOC Action).
- 5. Fill in the appropriate Values (here an IP address is used). Depending on the action executed, different values would need to be entered in the UI

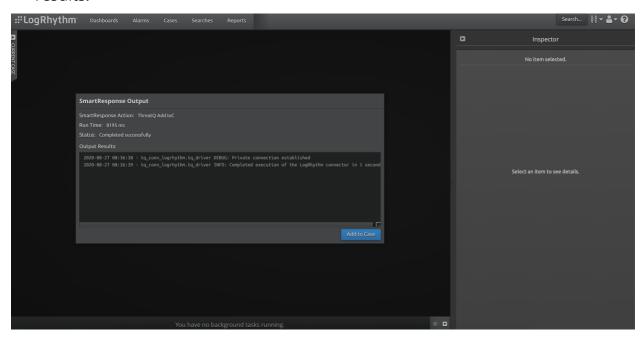


6. Ensure "Execute from: Platform Manager" is selected and click Run.





At this point LogRhythm will execute action in a separate window, retuning the results.



If a case is currently selected, this can be added to the case by clicking the Add to Case button. If it is added to a case, it will appear in that case as Evidence.

Note: The ThreatQ Add Sighting action is accessible through this interface but is not usable here. This action is to be used only in the Client Console when configuring AI Engine Rules. This is used to bring over a Case as a "Sighting" type Event in ThreatQ, including the observed IOCs.

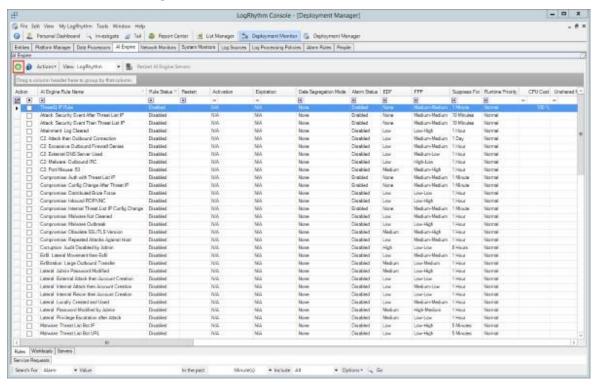


Using the ThreatQ Add Sighting

Tracking the sighting of Indicators of Compromise is an integral piece in the Threat Intelligence feedback loop. This feedback loop alerts Threat Analysts to existence of known Indicators of Compromise that have been observed in LogRhythm. Unlike the other SRPs provided above, this SRP is designed to solely be used as part of an AI Engine rule. When this rule is triggered, it creates an Event within ThreatQ with a type of "Sighting". These sightings have the AlarmID, Alarm Name, and other pieces of information configurable in the AI Engine in the LogRhythm Client Console.

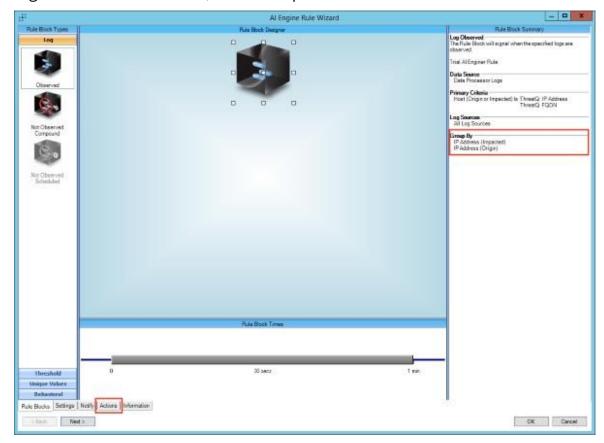
To provide the most flexible solution to capture all possible Sightings, the ThreatQ Add Sighting SRP has options for all known IOC fields. To add a rule that has uses this SRP:

- 1. Open Deployment Manager and go to the "Al Engine" tab.
- 2. Click on the Green "+" Button in the toolbar or navigate to the rule you wish to edit, select it, right click and select edit.





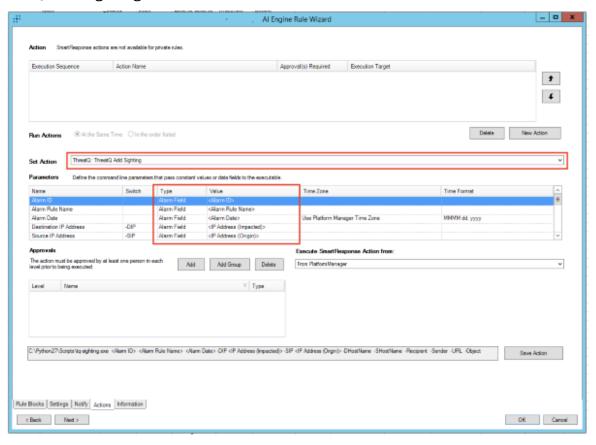
3. Configure the rule as needed, when complete select the actions tab.



Note: Only the fields listed in the "Group By" section will be available in the Actions Menu.



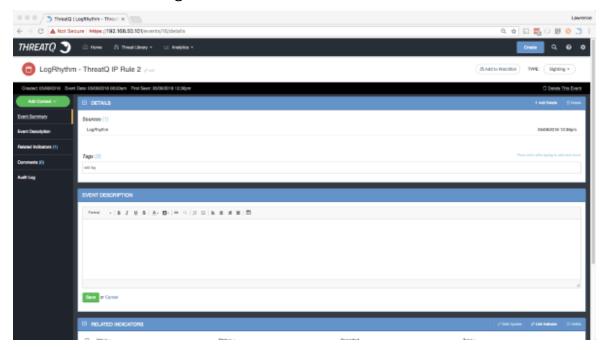
4. On the Actions screen, use the Set Action drop down and select the ThreatQ: ThreatQ Add Sighting Action.



- 5. Make sure the fields that are present in the Group by have the correct value. For instance, the Destination IP Address should have <IP Address (Impacted)> selected.
- 6. For the Alarm Date value, modify the Time Format to **yyyy-MM-dd HH:mm:ss**
- 7. For all other fields, change the Type from Alarm Field to Constant Value. Click the Save Action button.
- 8. You will be prompted to restart the AI Engine.



Once completed, when that Rule is executed, a sighting should be added that looks similar to the following:



Currently, this only records the actual IOCs associated with the sighting itself. In the future, more attributes and details will be added.



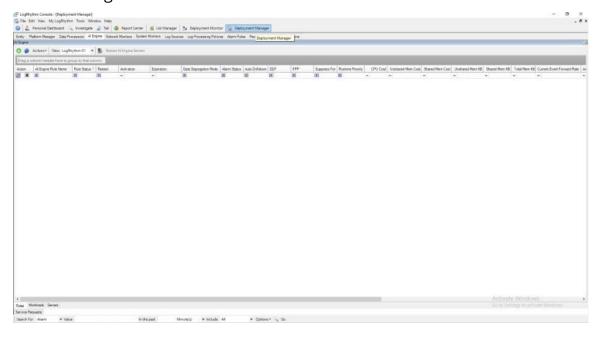
Setup Alarm Rules

LogRhythm Lists are the primary interface for which Cyber Threat Intelligence data is stored and used in LogRhythm. These lists can come from many different sources, and can store many different data types. For the purpose of ThreatQ, lists will be dynamically generated at execution time based on configurations given on the "Incoming Feeds" page of ThreatQ. (Settings \rightarrow Incoming Feeds \rightarrow TQ Labs \rightarrow LogRhythm).

These lists can be used in conjunction with the LogRhythm AI Engine to determine correlations against incoming log data.

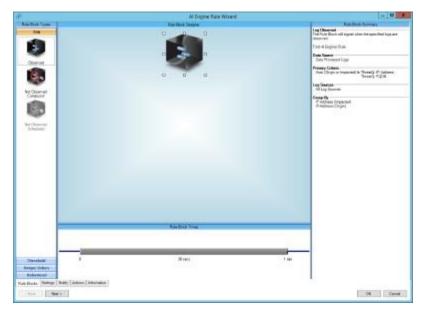
To configure the list to be used in the AI, do the following:

- 1. Open Deployment Manager and go to the **Al Engine** tab.
- 2. Click on the green + button in the toolbar.

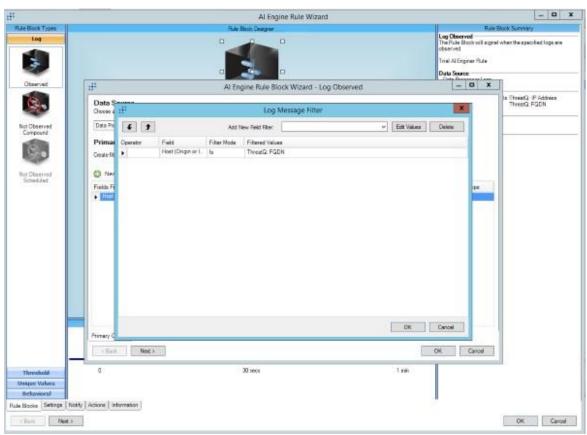




3. When the AI Engine Rule Wizard opens, select the **Observed** block on the Log Section.



4. Configure it as needed for detection of Cyber Threat Events. In the example given here, the Host (Origin or Impacted) Field must be in the ThreatQ: FQDN list. The list names and fields will vary based on the purpose of the rule.





5. Go through the rest of the Wizard and select the required settings based on your Incident Response Manifesto

Once saved and the Al Engine Service restarted, any Log that has a host field with an Origin or Impacted Host in the **ThreatQ: FQDN** list will have the associated log alerted on.

For more information on the Al Engine and its possibilities, please consult the LogRhythm Client Console Reference Guide in the LogRhythm Administration \rightarrow Al Engine Section.



Testing the Integration

Prerequisites

- LogRhythm is installed
- RDP is enabled for LogRhythm
- ThreatQ integration is installed
- Custom connector
- SRP (Smart Response Plugin) Actions

Testing Custom Connector (Sync)

This part of the integration downloads a ThreatQ data collection and uploads the intelligence to lists in LogRhythm. Here is how to test the integration.

- 1. RDP into the LogRhythm server
- 2. Install the custom connector. If you don't yet have, please see the Installation section
- 3. Run the custom connector for the first time to install it into ThreatQ
 - a. If it's already installed, the custom connector connection settings (paths to the config and log folders and the verbosity level) are stored in the Windows Registry.
 - b. To reset the connected ThreatQ host, you will need to remove the registry keys. See step 5 in the Uninstallation section.
- 4. Configure the connector using this guide: see the Configuration section.
- 5. Run the connector using this command
- 6. Here is a quick checklist on what to look out for:
 - a. The connector runs with no errors.
 - b. The connector creates LogRhythm lists to store the indicators (if it hasn't already).

Note: The lists created will be determined by your YAML configuration.

c. Make sure each list contains the same number of indicators as in the data collection



Testing the SRP Actions (Contextual Actions)

This part of the integration allows you to execute specific actions on alarms or individual indicators within the LogRhythm platform. They can also be used in the "Al Engine" to perform automatic actions when an alarm is triggered. This is usually the case for the "ThreatQ: Add Sighting" Action. Since logs are slightly complicated to get into the LogRhythm platform, we can test the actual script directly (as if LogRhythm was calling it).

- 1. RDP into the LogRhythm server.
- 2. Install the custom connector. If you don't yet have, please see the Installation section
- 3. Run the custom connector for the first time to authenticate and install it into ThreatQ.
- 4. Test each of the SRP actions by running the action command (with the required parameters). Here are some examples (replace <> text):

Add Sighting to ThreatQ

```
C:\Python27\Scripts\tq-sighting.exe <Alarm ID>
<Alarm Name> <Alarm Date> -SIP <IP Address (Origin)> -DIP <IP
Address (Destination)> -DHostName -SHostName <Host (Origin)> -
Recipient -Sender -URL -Object -c <Config Location> -ll <Logs
Location> -v <Log Verbosity Level - 1,2,3>

# Example
C:\Python27\Scripts\tq-sighting.exe 123 "ThreatQ
Blocklist" "2020-08-25 20:20:20" -SIP 156.86.198.45 -DIP
157.86.198.45 -c L:\ThreatQ\config\ -ll L:\ThreatQ\logs\ -v3
```



Add IOC to ThreatQ

```
C:\Python27\Scripts\tq-add-ioc.exe "<Indicator Type>" <Indicator
Value> [--attribute "[attr1:val1,attr2:val2]"] -c <Config
Location> -ll <Logs Location> -v <Log Verbosity Level - 1,2,3>

# Example
C:\Python27\Scripts\tq-add-ioc.exe "IP Address" 77.77.77 --
attribute "False Positive:Yes,Confidence:High" -c
L:\ThreatQ\config\ -ll L:\ThreatQ\logs\ -v3
```

Lookup IOC from ThreatQ

```
C:\Python27\Scripts\tq-lookup.exe "<Indicator Type>" <Indicator
Value> -c <Config Location> -ll <Logs Location> -v <Log
Verbosity Level - 1,2,3>

# Example
C:\Python27\Scripts\tq-lookup.exe "IP Address" 77.77.77.77 -c
L:\ThreatQ\config\ -ll L:\ThreatQ\logs\ -v3
```



Mark IOC as False Positive in ThreatQ

```
C:\Python27\Scripts\tq-mark-false-positive.exe "<Indicator
Type>" <Indicator Value> -c <Config Location> -ll <Logs
Location> -v <Log Verbosity Level - 1,2,3>

# Example
C:\Python27\Scripts\tq-mark-false-positive.exe "IP Address"
77.77.77.77 -c L:\ThreatQ\config\ -ll L:\ThreatQ\logs\ -v3
```

Mark IOC as True Positive in ThreatQ

```
C:\Python27\Scripts\tq-mark-true-positive.exe "<Indicator Type>"
<Indicator Value> -c <Config Location> -ll <Logs Location> -v
<Log Verbosity Level - 1,2,3>

# Example
C:\Python27\Scripts\tq-mark-true-positive.exe "IP Address"
77.77.77 -c L:\ThreatQ\config\ -ll L:\ThreatQ\logs\ -v3
```



Change the Status of IOC to "Whitelist" in ThreatQ

```
C:\Python27\Scripts\tq-whitelist-ioc.exe "<Indicator Type>"

<Indicator Value> -c <Config Location> -ll <Logs Location> -v

<Log Verbosity Level - 1,2,3>

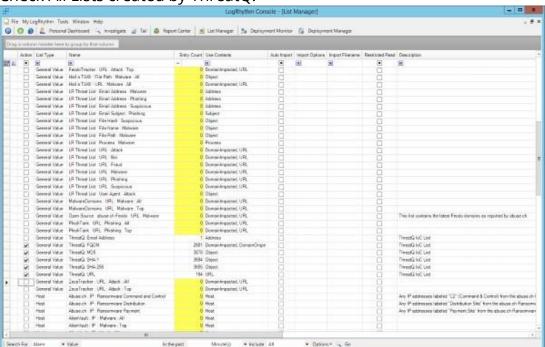
# Example
C:\Python27\Scripts\tq-whitelist-ioc.exe "IP Address" -c
L:\ThreatQ\config\ -ll L:\ThreatQ\logs\ -v3
```



Uninstall Integration

If it is decided that the integration needs to be removed, there are three main steps to uninstalling the integration. Due to audit requirements, however, it is not possible to delete the created Lists. Lists can only be disabled.

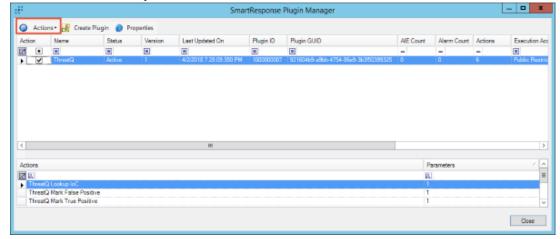
- 1. Stop the Windows Job for synchronization.
- 2. Deactivate all of the Lists created by ThreatQ.
 - a. Open the List Manager.
 - b. Check All Lists created by ThreatQ.



- c. Right Click \rightarrow Actions \rightarrow Retire.
- d. Confirm Retirement.
- Uninstall the SRPs.
 - a. Open the Deployment Manager.
 - b. Navigate to Tools \rightarrow Administration \rightarrow SmartResponse Plugin Manager.



c. Select the ThreatQ SRP and click Actions.



- d. Click Retire.
- 4. Uninstall the integration.
 - a. Open an Administrative cmd session.
 - b. Navigate to C:\Python27\Scripts.
 - c. Execute pip.exe uninstall tq-conn-logrhythm.
 - d. Confirm removal.
- 5. Clean up Windows Registry.
 - a. Click Windows Key + R and type regedit.
 - b. Navigate to HKEY_LOCAL_MACHINE \rightarrow SOFTWARE.
 - c. Delete the ThreatQuotient key and all sub keys.



Change Log

Version	Details
1.3.0	- Updated the integration for LogRhythm v7.6 - Added a parameter to the ThreatQ UI for the
	LogRhythm user that will own the threat lists
1.2.0	 Releases a version for Python3 Migrates the integration to use the latest Threat Library in the ThreatQ SDK Updates the examples
1.1.1	- Changes the search from the Advanced Search to the Threat Library - Updates the Smart Response Plugin
1.0.1	Initial Release