EclecticIQ Intelligence Center App for QRadar

1. Introduction

Follow the instructions here to install and configure the EclecticIQ Intelligence Center App for QRadar.

NOTE: This document refers to the **EclecticIQ Intelligence Center App for QRadar** as **the app** in this document.

Features:

- Dashboards
- Ingest observables from EclecticIQ Intelligence Center
- Send sightings to EclecticIQ Intelligence Center
- Use Event Rules with data

Table of Contents

Prerequisites

- IBM QRadar (on-premises) version 7.4.1 FixPack 2 or newer
- An authorized service token to use with the app
- EclecticIQ Intelligence Center 2.14.0, 3.0.0 or newer, configured with the following:
  - One or more outgoing feeds on EclecticIQ Intelligence Center. See Configure EclecticIQ Intelligence Center.
  - An EclecticIQ Intelligence Center user account. See Configure EclecticIQ Intelligence Center.
  - EclecticIQ Intelligence Center API key

Configure EclecticIQ Intelligence Center outgoing feeds

The application polls EclecticIQ Intelligence Center to retrieve observables. To do this, you must make these observables available through outgoing feeds.

Each outgoing feed must have following configuration:

Outgoing feed configuration	**Description**
Transport type	HTTP download
Content type	EclecticIQ Observables CSV
Update strategy	Diff or Replace
Public	**Do not select.** Only authenticated feeds are supported.
Authorized groups	Select one or more groups. See note on **Authorized user** below.

> **NOTE: Authorized user**
>
> You must have at least one user account for QRadar to use to authenticate with EclecticIQ Intelligence Center. This user account:
>
> - Is used to generate an API key. This API key is used by the app below.
> - Is a member of at least one of the **Authorized groups** configured above.
> - Must have these permissions:
>   - `read permissions`
>   - `read entities`
>   - `modify entities`
>   - `read extracts`
>   - `read outgoing-feeds`
> - Must have permissions to access:
>   - All the datasets used in this outgoing feed

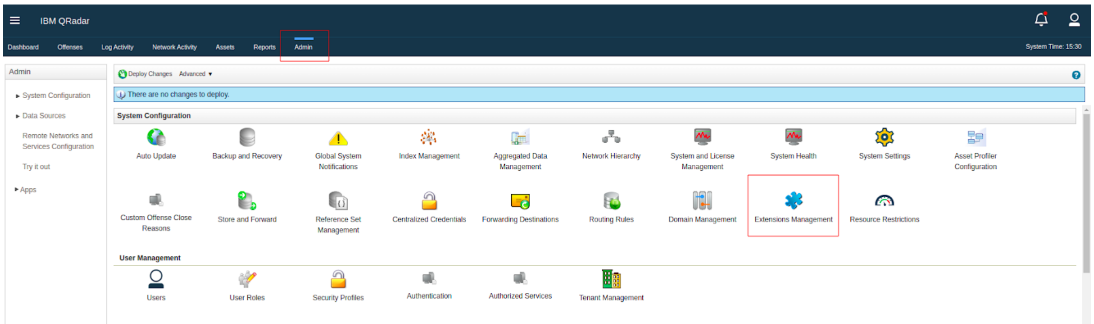
    - Workspaces that these datasets belong to

Install the app

Step 1. Download the app from IBM X-Force Exchange

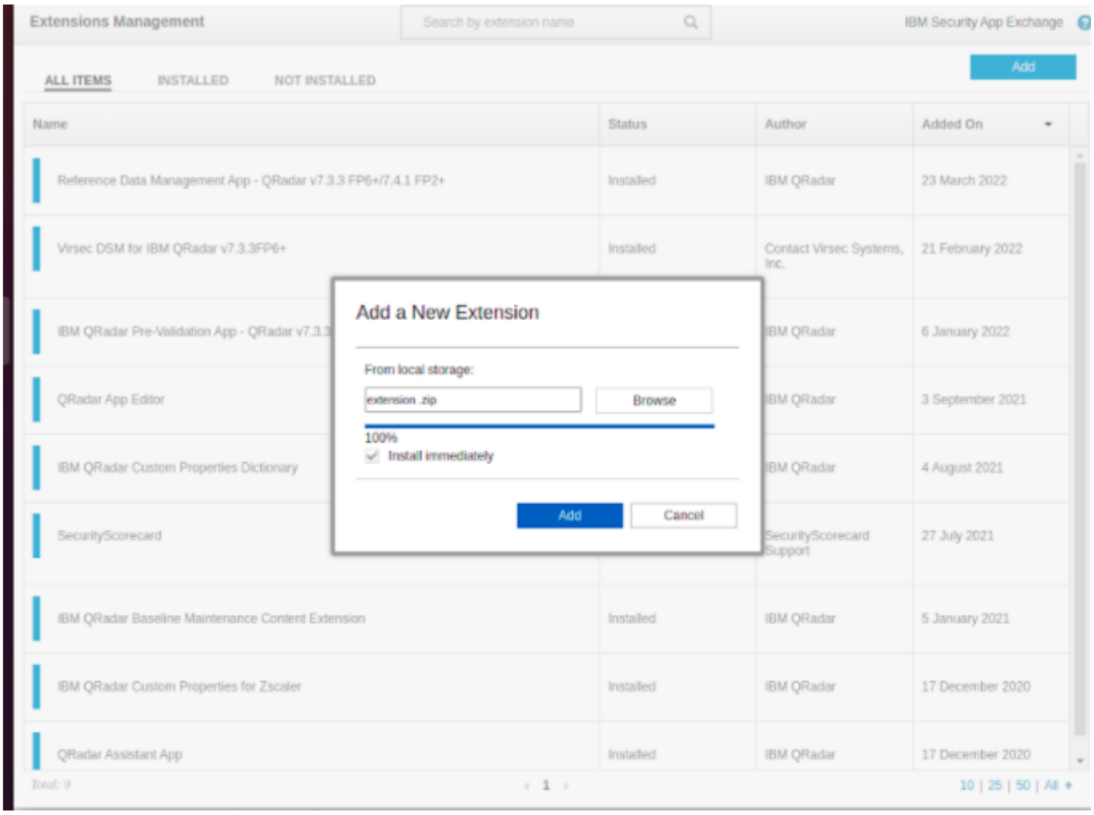
Download the app from IBM X-Force Exchange: https://exchange.xforce.ibmcloud.com/hub/extension/3107d1fd9bbe8d3dfc07bd52b8b381fd

Step 2. Navigate to the app and select Extension Management



There are no changes to deploy.

Step 3. Browse the file and install the app



Name	Status	Author	Added On
Reference Data Management App - QRadar v7.3.3 FP6+/7.4.1 FP2+	Installed	IBM QRadar	23 March 2022
Virsec DSM for IBM QRadar v7.3.3FP6+	Installed	Contact Virsec Systems, Inc.	21 February 2022
IBM QRadar Pre-Validation App - QRadar v7.3.3		IBM QRadar	6 January 2022
QRadar App Editor		IBM QRadar	3 September 2021
IBM QRadar Custom Properties Dictionary		IBM QRadar	4 August 2021
SecurityScorecard		SecurityScorecard Support	27 July 2021
IBM QRadar Baseline Maintenance Content Extension	Installed	IBM QRadar	5 January 2021
IBM QRadar Custom Properties for Zscaler	Installed	IBM QRadar	17 December 2020
QRadar Assistant App	Installed	IBM QRadar	17 December 2020

Add a New Extension

From local storage:

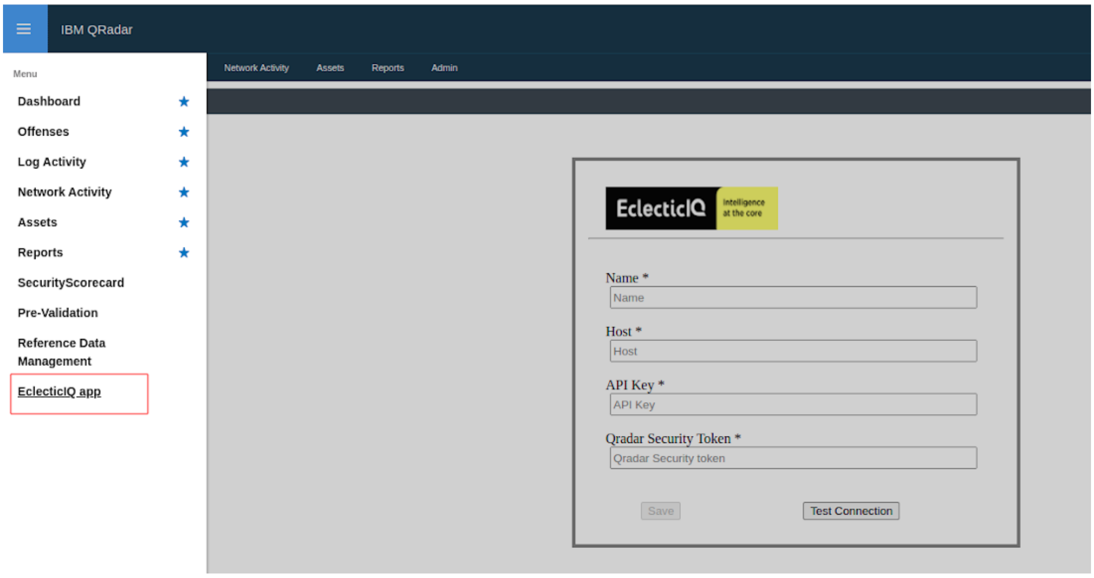
extension .zip Browse

100%

☑ Install immediately

Add Cancel

Step 4. App should be installed successfully



Configure the app

Connect to EclecticIQ Intelligence Center

After the installation, configure the app.

1. From the top navigation, select the **EclecticIQ app** tab
2. Select the **Setup** tab.
3. Fill out these fields:

   NOTE: All fields are required.

Field name	Description
Configuration name	Enter a name for this configuration.
EclecticIQ Host	Enter the API URL of your EclecticIQ Intelligence Center instance. E.g., `https://ic-playground.eclecticiq.com/api/v2`
EclecticIQ API key	Enter the API key used to authenticate with EclecticIQ Intelligence Center.
QRadar Security token	Enter your QRadar authorized service token. This token must use the **Admin** user role and security profile.

4. Select **Test connection** to test your configuration.
5. When the connection test is successful, select **Save** to save this configuration.

Connect outgoing feeds

Once you've successfully saved the connection configuration, a new screen is displayed, allowing you to connect to EclecticIQ Intelligence Center outgoing feeds.

In this configuration view, set the following:

NOTE: All fields are required.

Configuration	Description
Auth User	Default. Do not change.
Select one or more outgoing feeds to ingest	Select at least one outgoing feed from the list. Only compatible outgoing feeds are displayed. See section 1.2.1.
Select the interval to collect the observables (in seconds)	**Default:** `120`. Minimum is `60`. This application retrieves data from the selected outgoing feeds at this interval.

> **NOTE: Supported observables**
>
> - `email`
> - `ipv4`
> - `uri`
> - `domain`
> - File hashes: `hash-md5`, `hash-sha1`, `hash-sha256`, and `hash-sha512`.

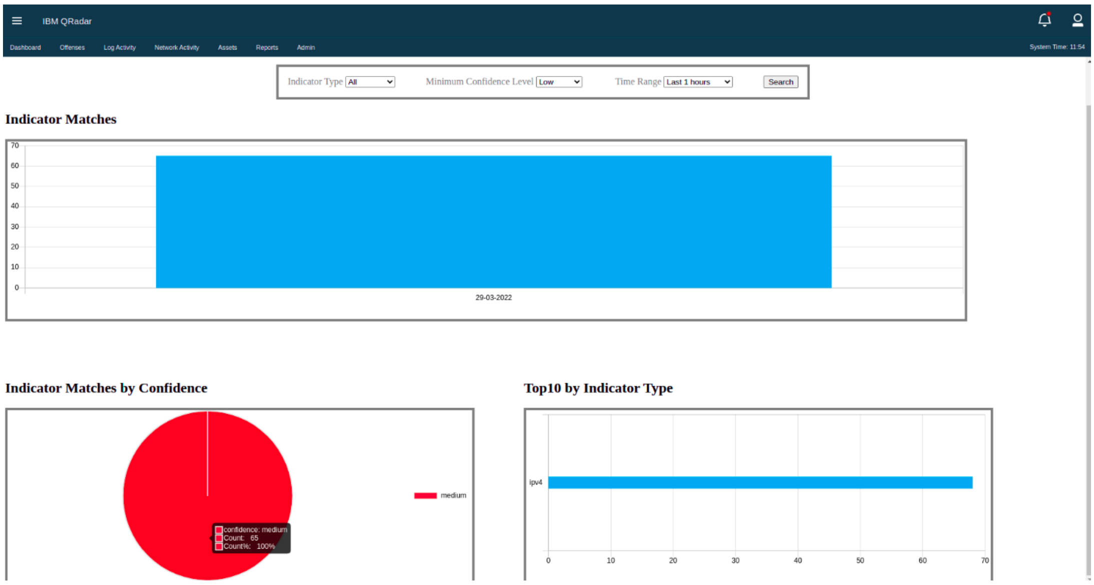
Select **Save** to save your configuration.

Features

Dashboard

The application provides 3 dashboards:

- Sightings by time (histogram)
- Sighting by Confidence (bar chart)
- Sighting by type count (bar chart)



Indicator Type: All

Minimum Confidence Level: Low

Time Range: Last 1 hours

Indicator Matches

Indicator Matches by Confidence

confidence: medium
Count: 65
Count%: 100%

Top10 by Indicator Type

Ingest observables from EclecticIQ Intelligence Center

Once the application is configured (see Configure the application), it periodically performs a one-way sync to retrieve and ingest observables from the connected EclecticIQ Intelligence Center.

This one-way sync runs periodically. When run:

- It checks outgoing feeds at the interval set in **Select the interval to collect the observables (in seconds)**.
- The application retrieves observables from outgoing feeds that:
  - Contain new data since the last time it was checked
  - Does not have the "Running" status in EclecticIQ Intelligence Center
- How the app syncs observables from outgoing feeds depending on its **Update strategy** set in EclecticIQ Intelligence Center:
  - **Diff:** If outgoing feed was updated since the last sync, retrieves newest package from outgoing feed and (a) removes data marked as deleted, and (b) adds data marked as new. If feed initial creation time has changed, all existing data from this feed is removed from IBM QRadar, and all data is retrieved again.
  - **Replace:** If outgoing feed was updated since the last sync, removes all existing data on IBM QRadar created by this feed, and retrieves all data from this outgoing feed again.

Create sightings on EclecticIQ Intelligence Center

You can create Sighting entities on EclecticIQ Intelligence Center from records from the **Log Activity** tab in IBM QRadar.

1. Go to **Log Activity**, and right-click on a record to create a sighting from.
2. In the context menu, select **More options > Create EclecticIQ sighting**.

3. In the window that appears, fill out these fields:

Field name	Description
Sighting value	(Required) This is the value selected from **Log Activity**. An observable with this value is added to the resulting Sighting entity.
Sighting type	(Required) Observable type. Possible values: `ip`, `domain`, `url`, `email`, `hash`.
Sighting title	(Required) Title of resulting Sighting entity.
Sighting description	(Required) Description contained by the resulting Sighting entity.
Sighting confidence	(Required) Confidence assigned to resulting Sighting entity. Possible values: `Low`, `Medium`, `High`.
Sighting tags delimited by comma	Add one or more tags to the resulting Sighting entity.

4. Select **Create Sighting**.

Use Event Rules with data

NOTE: Rules on reference sets over 20K in size can get slow.

The following example creates an alert rule using ingested threat intelligence data in QRadar:

This rule is connected to Destination IPs in log events and ingested IP related threat intelligence data.

1. In QRadar, click the Offenses tab.

2. Click Rules > Actions > New Event Rule.

3. In the Rule wizard, select the Events radio button, and click Next.

4. Locate when Reference Table Key data matches any|all selected event properties and selected reference table column Select operator the value of selected event property in the list of tests, and click to add this test to the rule.

   - Assign values to place holders by clicking on the following underlined parameters:
   - Click Reference Table Key > eiq_data_ip > eiq_value > Submit. This creates a rule for IP address matching.
   - Click Selected event properties > Source IP > + > Submit.
   - Click Selected reference table column > value > Submit.
   - Click Select operator > Equals > Submit.
   - Click Selected event property. For example: Destination IP

5. Filtering on network or log source is strongly recommended, as otherwise the Rule can be slow. For example,To add the filter of log source:

    - Locate `when the event(s) were detected by one or more of these log sources`.
    - Assign values to place holders by clicking on the following underlined parameters: Click these log sources > Select a log source and click 'Add' > Submit. This creates rule for matching when events are detected by one or more given log sources.

6. Click Next.

7. Select the checkbox for "Ensure the detected event is part of an offense"

    - Select "Index offense based on" according to the fields on rule is created. For example if a rule is created for matching Destination IP select Destination IP.
    - "Annotate this offense" is optional. User can select and add annotations or text explaining the offense.
    - "Include detected events by Destination IP from this point forward, in the offense, for " is also optional. User can mention time interval in seconds to include detected events in offense.

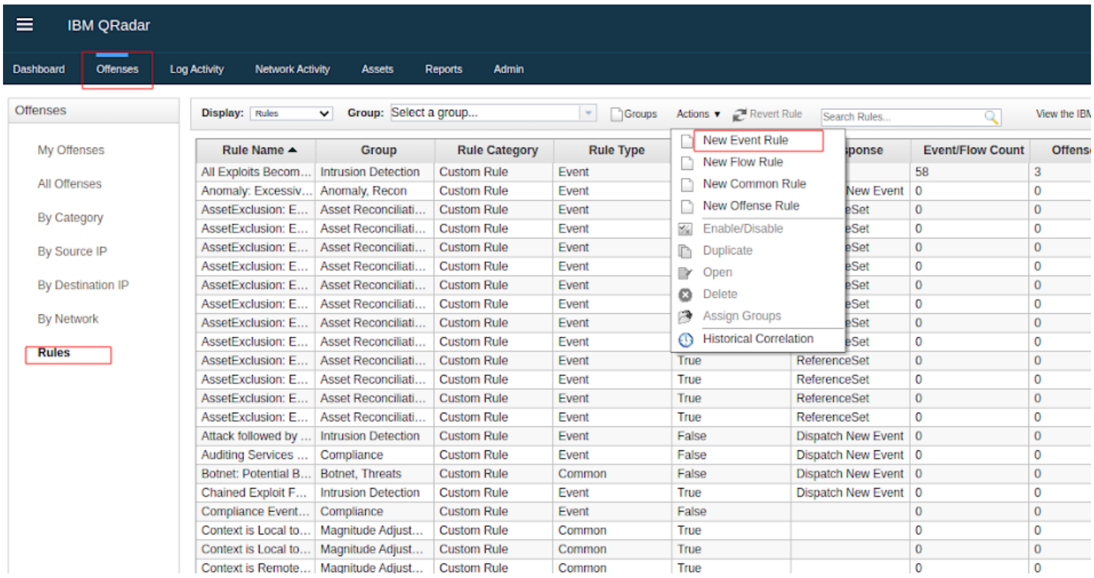
8. Click Finish.

9. To create the sighting once the offense is created by rule,

    1. User can go to Offenses > All Offenses and can View offenses with one of the selected Option: All offenses
    2. Click on any offense.
    3. Right click on the IP address > Create EclecticIQ Sighting
    4. A pop-up window will appear to ask for the details below.

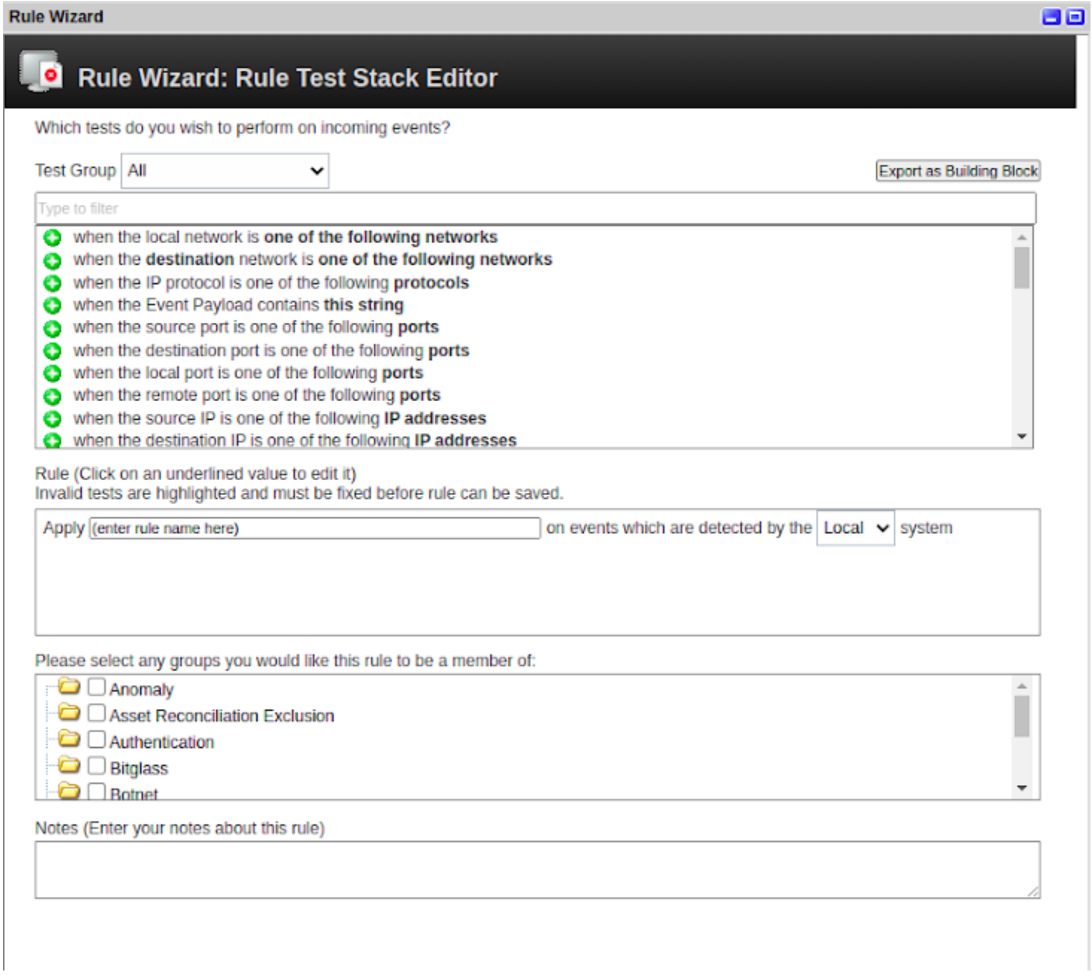
    Clicking on save will create sightings in the EIQ platform with provided details.

    - Sighting Value: Value which is clicked
    - Sighting type: Type of sighting. Possible values: `ip`, `domain`, `url`, `email`, `hash`
    - Sighting title: Title of sighting
    - Sighting description: Description of sighting
    - Sighting confidence: Confidence of sighting. Possible values: low, medium, high
    - Sighting tags delimited by a comma: Any tags to attach with sighting



Display: Rules Group: Select a group...

Rule Name ▲	Group	Rule Category	Rule Type		sponse	Event/Flow Count	Offens
All Exploits Becom...	Intrusion Detection	Custom Rule	Event			58	3
Anomaly: Excessiv...	Anomaly, Recon	Custom Rule	Event		New Event	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event		eSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event	True	ReferenceSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event	True	ReferenceSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event	True	ReferenceSet	0	0
AssetExclusion: E...	Asset Reconciliati...	Custom Rule	Event	True	ReferenceSet	0	0
Attack followed by ...	Intrusion Detection	Custom Rule	Event	False	Dispatch New Event	0	0
Auditing Services ...	Compliance	Custom Rule	Event	False	Dispatch New Event	0	0
Botnet: Potential B...	Botnet, Threats	Custom Rule	Common	False	Dispatch New Event	0	0
Chained Exploit F...	Intrusion Detection	Custom Rule	Event	True	Dispatch New Event	0	0
Compliance Event...	Compliance	Custom Rule	Event	False		0	0
Context is Local to...	Magnitude Adjust...	Custom Rule	Common	True		0	0
Context is Local to...	Magnitude Adjust...	Custom Rule	Common	True		0	0
Context is Remote...	Magnitude Adjust...	Custom Rule	Common	True		0	0



Rule Wizard: Rule Test Stack Editor

Which tests do you wish to perform on incoming events?

Test Group All

- when the local network is **one of the following networks**
- when the **destination** network is **one of the following networks**
- when the IP protocol is one of the following **protocols**
- when the Event Payload contains **this string**
- when the source port is one of the following **ports**
- when the destination port is one of the following **ports**
- when the local port is one of the following **ports**
- when the remote port is one of the following **ports**
- when the source IP is one of the following **IP addresses**
- when the destination IP is one of the following **IP addresses**

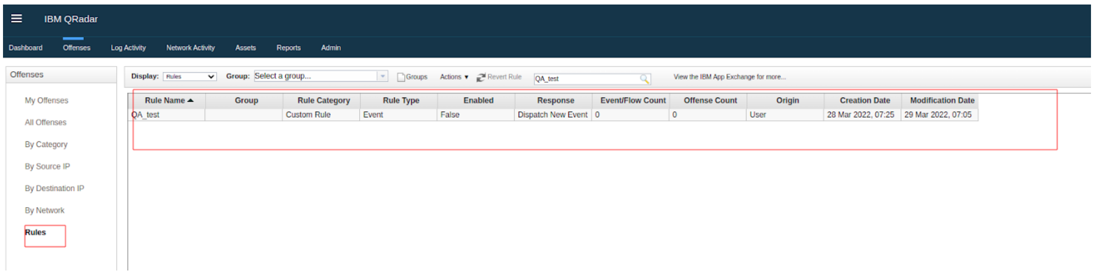
Rule (Click on an underlined value to edit it)
Invalid tests are highlighted and must be fixed before rule can be saved.

Apply (enter rule name here) on events which are detected by the Local system

Please select any groups you would like this rule to be a member of:

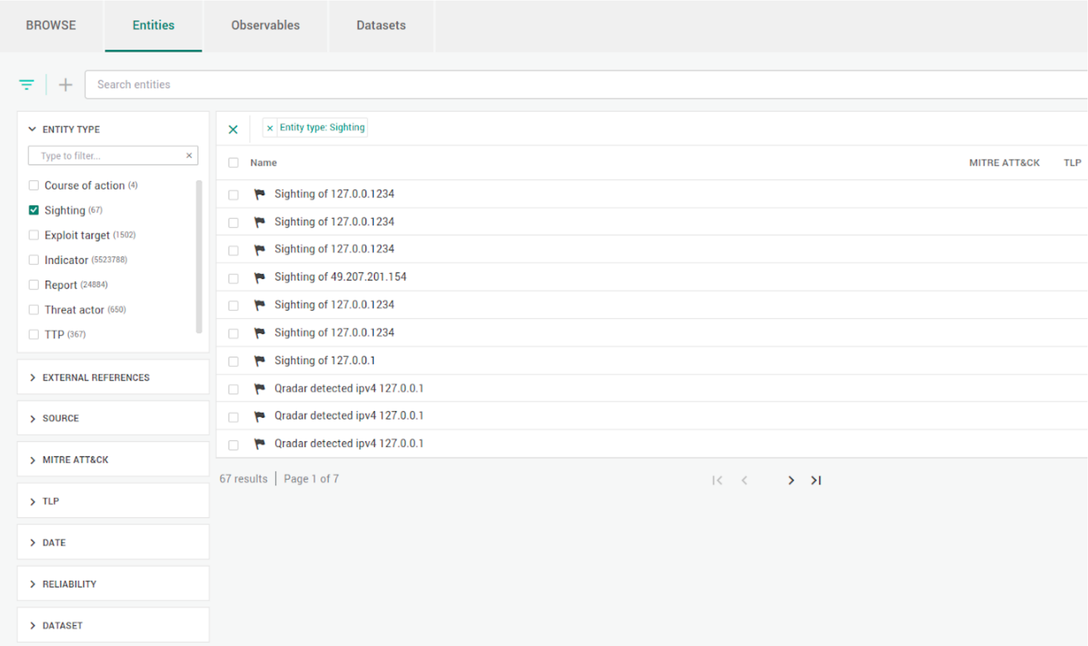
- □ Anomaly
- □ Asset Reconciliation Exclusion
- □ Authentication
- □ Bitglass
- □ Botnet

Notes (Enter your notes about this rule)



Display: Rules Group: Select a group... QA_test

Rule Name ▲	Group	Rule Category	Rule Type	Enabled	Response	Event/Flow Count	Offense Count	Origin	Creation Date	Modification Date
QA_test		Custom Rule	Event	False	Dispatch New Event	0	0	User	28 Mar 2022, 07:25	29 Mar 2022, 07:05



□ Course of action (4)
☑ Sighting (67)
□ Exploit target (1502)
□ Indicator (5523788)
□ Report (24884)
□ Threat actor (650)
□ TTP (367)

Entity type: Sighting

Name	MITRE ATT&CK	TLP
Sighting of 127.0.0.1234		
Sighting of 127.0.0.1234		
Sighting of 127.0.0.1234		
Sighting of 49.207.201.154		
Sighting of 127.0.0.1234		
Sighting of 127.0.0.1234		
Sighting of 127.0.0.1		
Qradar detected ipv4 127.0.0.1		
Qradar detected ipv4 127.0.0.1		
Qradar detected ipv4 127.0.0.1		

67 results | Page 1 of 7

Appendix

Create custom rules

See Creating a custom rule.

Observable lookup

From **Log Activity**, you select observables and perform a lookup on data retrieved from EclecticIQ Intelligence Center outgoing feeds.

NOTE: This only works on data already retrieved from outgoing feeds and ingested in IBM QRadar.

1. Go to **Log Activity**, and right-click on a record to create a sighting from.
2. In the context menu, select **More options** > **Lookup in EclecticIQ Platform**.

A new window appears, displaying all observables retrieved from EcleticIQ Intelligence Center that match the selected record.

Validate reference tables

Each outgoing feed creates its own set of Reference tables, with one table for each observable type: `domain`, `ip`, `hash`, `email`, and `uri`.

You can inspect these reference tables by using the `GET /api/reference_data/tables` endpoint on your IBM QRadar instance, or use the Reference Data Management app.

Manually delete data

WARNING: Deleting data this way is irreversible.

To remove data ingested from outgoing feeds, either:

1. Go to the **EclecticIQ app** tab, then select the **Setup** tab.
2. Re-enter your authorized service token.
3. Select **Test connection**, then **Save**.
4. From the list of outgoing feeds in **Select one or more outgoing feeds to ingest**, you can select **Remove Data** on the right of each feed to delete the reference table associated with that feed.

Or:

Manually delete the reference table associated with that feed from IBM QRadar. You can use the Reference Data Management app to do this.

Debug the app

Use the recon tool, or follow the instructions here:

1. Connect to your QRadar instance through SSH.

2. Find the container ID for the app. In the terminal, run as administrator:

   ```
   psql -U QRadar -c "select id, name from installed_application;"
   ```

   Take note of the ID of the `EclecticIQ` record (e.g. `1110`). This is the app ID.

3. In the terminal, run as administrator:

   ```
   docker ps
   ```

   Find the container whose container name contains the app ID found above. For example, for an application ID of `1110`, we need to find the container named `qapp-1110-XXXXXXX`.

4. Connect to the container:

   ```
   docker exec -ti <container_name_or_id> bash
   ```

   E.g.:

   ```
   docker exec -ti qapp-1110-XXXXXXX bash
   ```

Once inside the container, you can:

- Inspect logs in `/opt/app-root/store/log`

- Inspect configuration files: `/opt/app-root/store`

  - `checkpoint.txt`: Last recorded state of connected outgoing feeds.
  - `data.json`: Main configuration file for application.
  - `setup.json`: Configuration for outgoing feed ingestion and poll frequency.