



IBM Resilient SOAR Platform QRadar Functions Guide V2.0.4

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#### Resilient SOAR Platform QRadar Functions Guide

Version	Publication	Notes
2.0.4	April 2020	Additional configuration notes.
2.0	March 2019	Supports the 2.0 release.
1.0	July 2018	Initial publication.

IBM Security | March 2020 2

# **Table of Contents**

Overview	5
Installation	6
Function Descriptions	8
fn_rsa_netwitness: NetWitness Get Meta ID Ranges	9
fn_rsa_netwitness: NetWitness Get Meta Values	10
fn_rsa_netwitness: NetWitness Query	11
fn_rsa_netwitness: NetWitness Retrieve Log Data	11
fn_rsa_netwitness: NetWitness Retrieve PCAP Data	12
Resilient Platform Configuration	13
Troubleshooting	16
Support	17

## Overview

Resilient Functions simplify development of integrations by wrapping each activity into an individual workflow component. These components can be easily installed, then used and combined in Resilient workflows. The Resilient platform sends data to the function component that performs an activity then returns the results to the workflow. The results can be acted upon by scripts, rules, and workflow decision points to dynamically orchestrate the security incident response activities.

This guide describes the QRadar Function.

The QRadar integration with the Resilient platform package provides the following:

- Search function to perform a QRadar Ariel query
- Search function to query an item in a QRadar reference set
- Search function to find all the reference sets that contain an item
- Add function to insert a new item in a QRadar reference set
- Delete function to remove an item from a QRadar reference set

With the above functions, this package includes example workflows that demonstrate how to call the functions, rules that start the example workflows, and custom data tables updated by the example workflows.

### What's New in V2.0

The following components were added to the function package:

- Function: "QRadar Find Reference Sets"
- Workflow: "Example of finding all QRadar reference sets for artifact"
- Rule: "Find All QRadar Reference Sets"
- Data table: "QRadar Reference Sets"

## Installation

Before you install the IBM Resilient RSA NetWitness functions, make sure that your environment meets the following prerequisites:

- QRadar version 7.2.8 or later.
- Your Resilient platform version is 30 or later. If supporting the Resilient for MSSPs multi-organization feature, Resilient platform V33 or later is required.
- A Resilient integration server running Resilient Circuits V30 or later. To setup an integration server, see https://ibm.biz/res-int-server-guide.
- A dedicated Resilient account to use as the API user. This can be any account that has the permission to create incidents, and view and modify administrator and customization settings. You need to know the account username and password.

**NOTE**: Should you later change the dedicated Resilient account to another user, the new user must also have the permission to edit incidents, in addition to the permission to create incidents and view and modify administrator and customization settings. The edit permission is necessary so that the integration can continue to modify or synchronize the incidents escalated by the original user account.

If supporting the Resilient for MSSP feature, the Resilient account must have permission to access the configuration, global dashboard and all child organizations.

Perform the following procedure to install the IBM Resilient QRadar package.

- 1. Download the IBM Resilient QRadar .zip file from the IBM Security App Exchange.
- 2. Copy the zip file to your Integration Server and SSH into it.
- 3. Unzip the package:

```
unzip fn_qradar_integration-x.x.x.zip
```

4. Change directory into the unzipped directory:

```
cd fn gradar integration-x.x.x
```

5. Install the package:

```
pip install fn qradar integration-x.x.x.tar.gz
```

6. Import the configurations into your file:

```
resilient-circuits config -u
```

7. Import the fn gradar integration customizations into your Resilient platform:

```
resilient-circuits customize -y -l fn qradar integration
```

8. Open the config file, scroll to the bottom and edit your [fn\_qradar\_integration] configurations:

Use 'false' for self-signed certificates.

You have two choices for authentication with QRadar – username and a password, or a token. QRadar token is an authentication token created in QRadar's Authorized Services manager.

If the username and password and the token are given, the username and password authentication takes precedence.

- 9. Save and close the app.config file.
- 10. Optionally, run selftest to test the integration you configured:

resilient-circuits selftest -l fn\_qradar\_integration

11. Run Resilient Circuits or restart the service on Linux or Windows.

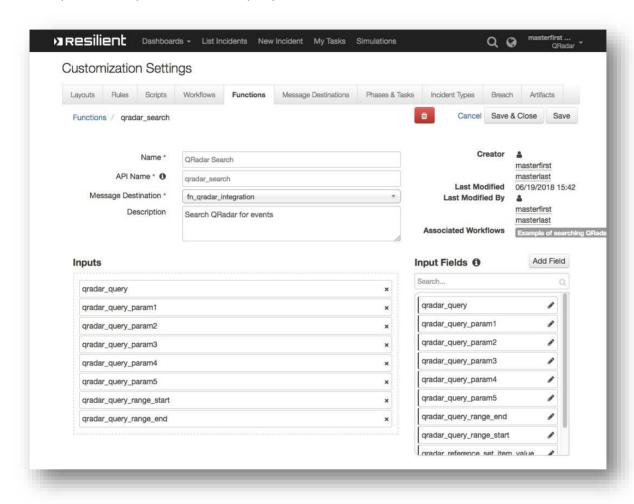
resilient-circuits run

## **Function Descriptions**

Once the function package deploys the functions, workflows, rules, and message destination, you can view them in the Resilient platform in their respective tabs. destination tab,

### **QRadar Search**

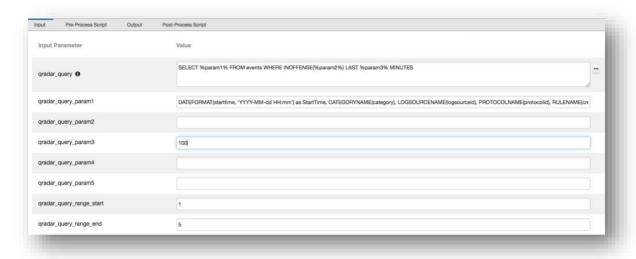
This sample function performs an Ariel query to fetch data from the QRadar server.



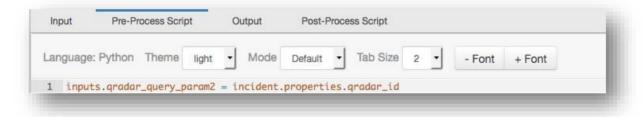
This function takes the following parameters:

- qradar\_query: Query to perform. It contains demo template queries you can select from within the calling
  workflow. The demo queries contain parameters that are replaced by the qradar\_query\_param[n] below. For
  example, one template query is: SELECT %param1% FROM events WHERE INOFFENSE(%param2%) LAST %param3%
  MINUTES. Users can set values for qradar\_query\_param1, qradar\_query\_param2, and qradar\_query\_param3 in the
  workflow.
- gradar guery param[n]: Optional. Parameters used in the guery.
- qradar\_query\_range\_start: Optional. An integer specifying QRadar return start range.

qradar\_query\_range\_end: Optional. An integer specifying QRadar return end range. The workflow (object type = Incident), "Example of searching QRadar events using offense id", sets the function's input fields and runs the function. The Input tab maps the function's input fields.



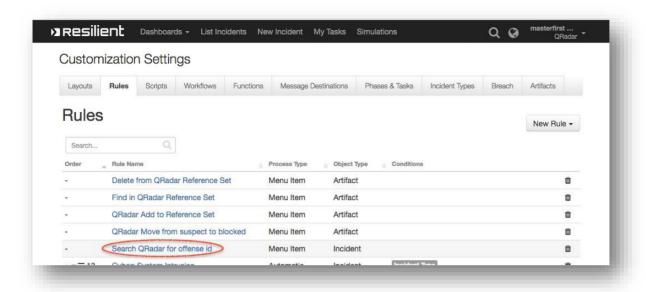
In the Pre-Process Script, the input field, "qradar\_query\_param2" is set to the incident's custom field, "qradar\_id".



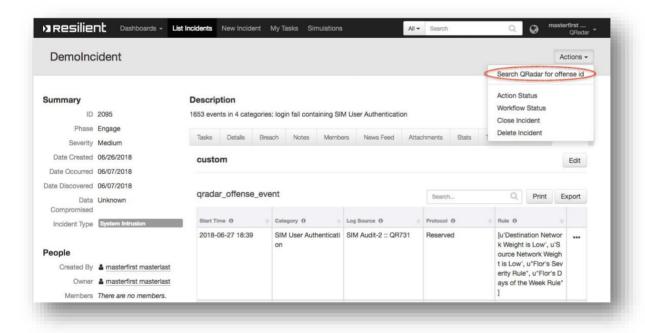
#### NOTES:

- You should create the custom field, qradar\_id, and add it to your layout for accessibility, along with the custom data tables.
- If a reduced number of QRadar events are returned when the search is run in Resilient, allocate more time to the Resilient input parameter: gradar\_query. This will allow Resilient to return the same number of QRadar events.

The example rule, "Search QRadar for offense id", is a menu item rule for an Incident. The user can select this menu item to initiate the workflow.

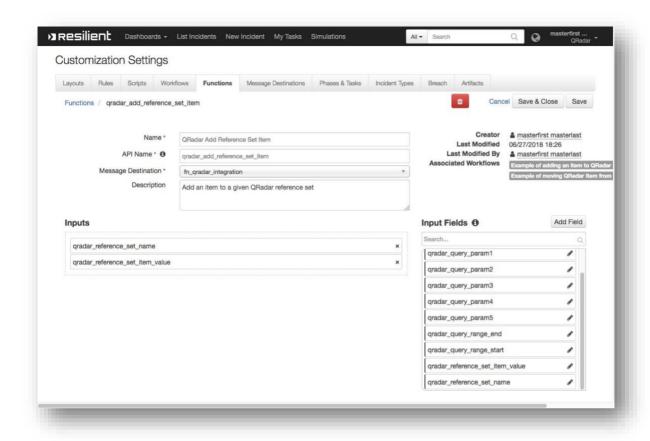


This workflow can work together with the Resilient QRadar App. An incident escalated from a QRadar offense stores the offense ID. This workflow can make use of that offense ID to perform an Ariel query and update a custom data table, which is also included in the package.



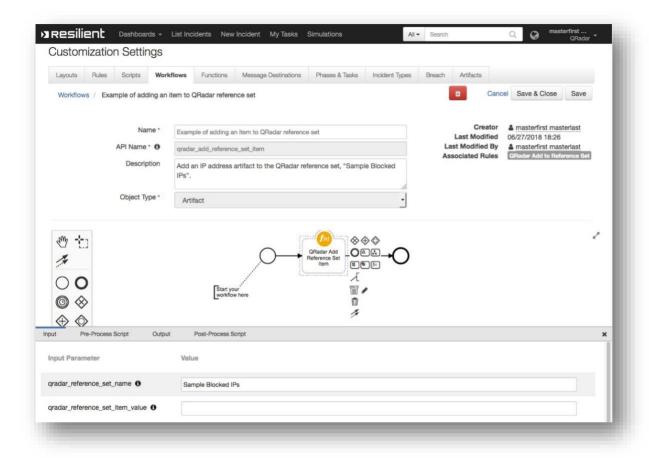
### **ORadar Add Reference Set Item**

This function adds a new item to an existing QRadar reference set. It uses two input parameters: qradar\_reference\_set\_name is the name of an existing reference set in QRadar, and qradar\_reference\_set\_item\_value is the value to be added. The input is populated by the workflow, "Example of adding an item to QRadar reference set".



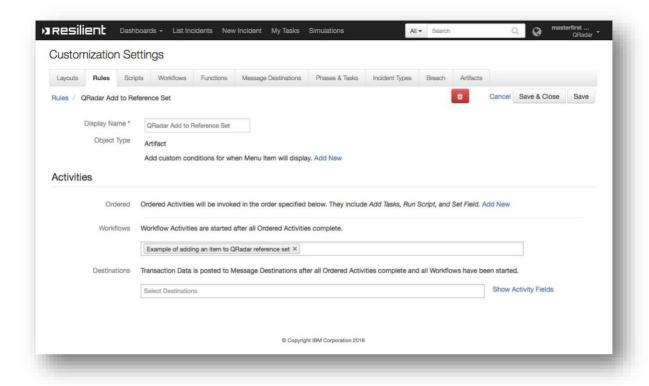
The workflow, "Example of adding an item to QRadar reference set", sets the function's input fields: "qradar\_reference\_set\_name" is mapped to "Sample Blocked IPs", and qradar\_reference\_set\_item\_value is mapped to the artifact value, and then runs the function.

The workflow is initiated by the rule, "QRadar Add to Reference Set".

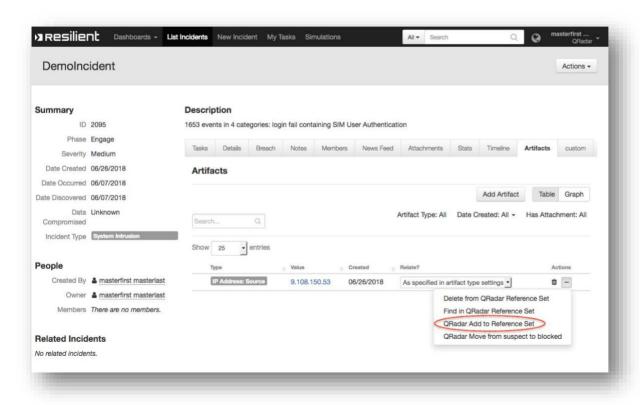


IBM Security | March 2020 12

The example rule, "QRadar Add to Reference Set", is a menu item rule for an artifact.



The user can select this action in the menu to initiate the workflow.



### **QRadar Delete Reference Set Item**

This function deletes an item from an existing QRadar reference set. It has two input fields: "qradar\_reference\_set\_name" and "qradar\_reference\_set\_item\_value".

The function is called by the workflow, "Example of deleting QRadar reference set item".

The workflow, "Example of deleting QRadar reference set item", sets the function's input fields:

"qradar\_reference\_set\_name" is mapped to "Sample Suspect IPs", and "qradar\_reference\_set\_item\_value" is mapped to the artifact value, and then runs the function. The workflow is initiated by the rule, "Delete from QRadar Reference Set".

The rule, "Delete from QRadar Reference Set" is a menu item rule for artifacts. The user can select this menu item to initiate the workflow.

### **QRadar Find Reference Set Item**

This function looks for an item in an existing QRadar reference set. It has two input fields: "qradar\_reference\_set\_name" and "qradar\_reference\_set\_item\_value". The function is called by the workflow, "Example of finding an item from a QRadar reference set".

The workflow, "Example of finding an item from a QRadar reference set", sets the function's input fields: "qradar\_reference\_set\_name" is mapped to "Sample Blocked IPs", and "qradar\_reference\_set\_item\_value" is mapped to the artifact value. After running the function, the workflow adds a note to the corresponding incident.

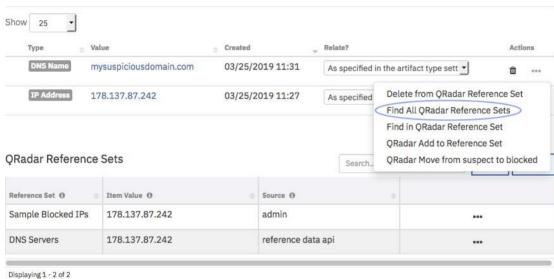
The rule, "Find in QRadar Reference Set," is a menu item rule for artifacts. The user can select this action from the menu to initiate the workflow.

## **QRadar Find Reference Sets**

This function looks for all QRadar reference sets that contain a given item. It has one input field, "qradar\_reference\_set\_item\_value." The function is called by the workflow, "Example of finding all QRadar reference sets for artifact."

The workflow, "Example of finding all QRadar reference sets for artifact", sets the input field, "qradar\_reference\_set\_item\_value" to the artifact value. After running the function, the workflow populates the "QRadar Reference Sets" data table with the returned reference sets.

The rule, "Find All QRadar Reference Sets," is a menu item rule for the artifact. The user can click this menu item for a selected artifact, and the example workflow commences.



# **Troubleshooting**

There are several ways to verify the successful operation of a function.

#### Resilient Action Status

When viewing an incident, use the Actions menu to view Action Status. By default, pending and errors are displayed. Modify the filter for actions to also show Completed actions. Clicking on an action displays additional information on the progress made or what error occurred.

#### Resilient Scripting Log

A separate log file is available to review scripting errors. This is useful when issues occur in the pre-processing or post-processing scripts. The default location for this log file is: /var/log/resilient-scripting/resilient-scripting.log.

#### Resilient Logs

By default, Resilient logs are retained at /usr/share/co3/logs. The client.log may contain additional information regarding the execution of functions.

#### Resilient-Circuits

The log is controlled in the <code>.resilient/app.config</code> file under the section <code>[resilient]</code> and the property <code>logdir</code>. The default file name is <code>app.log</code>. Each function will create progress information. Failures will show up as errors and may contain python trace statements.

IBM Security | March 2020

16

# Support

For support, visit <a href="https://ibm.com/mysupport">https://ibm.com/mysupport</a>.

Including relevant information from the log files will help us resolve your issue.