McAfee OpenDXL Functions for IBM Resilient

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Release Notes

v1.2.0

• App Host support

v1.1.0

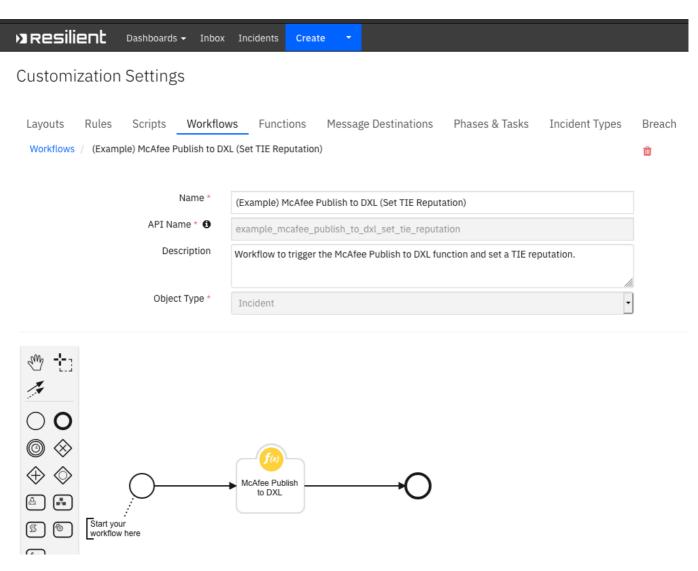
• Added Resilient Subscriber component

v1.0.0

• Initial Release

Overview

Resilient Circuits Components for McAfee publishing to DXL Functions



Resilient Circuits Components for McAfee publishing to DXL Functions

Key Features

- The McAfee Publish to DXL function contains the ability to publish a synchronous or asynchronous message to an event or a service.
- The McAfee DXL Subscriber listens on defined topics and maps the data to the Resilient platform to create incidents and artifacts.

Installation

Requirements

- Resilient platform >= v35.0.0
- An App Host or an Integration Server:
 - To setup up an App Host see: ibm.biz/res-app-host-setup
 - An Integration Server running resilient_circuits>=30.0.0 (if using an Integration Server)
 - To set up an Integration Server see: ibm.biz/res-int-server-guide
 - If using an API key account, minimum required permissions are:

Name	Permissions		
Org Data	Read		
Incident	Create, Read All		
Function	Read		

Install

• To install or uninstall an App using the App Host see ibm.biz/res-install-app

• To install or uninstall an Integration using the Integration Server see the ibm.biz/res-install-int

App Configuration

The following table describes the settings you need to configure in the app.config file. If using App Host, see the Resilient System Administrator Guide. If using the integration server, see the Integration Server Guide.

Config	Required	Example	Description
dxlclient_config	Yes	<pre>/home/integration/.resilient/fn_mcafee_opendxl/dxlclient.config</pre>	Path to the dxlclient.config file
topic_listener_on	Yes	False	Boolean to turn ON/OFF Listener
custom_template_dir	No	**	Path to custom jinja template

More information on the dxlclient.config file and provisioning the system can be found here:

https://opendxl.github.io/opendxl-client-python/pydoc/provisioningoverview.html https://opendxl.github.io/opendxl-client-python/pydoc/basiccliprovisioning.html#basiccliprovisioning

An example of the CLI provisioning command:

python -m dxlclient -vv provisionconfig /home/integration/.resilient/fn_mcafee_opendxl X.X.X.X client1 u admin -p password

where X.X.X.X is the IP address of the McAfee ePO server or OpenDXL Broker.

Function - McAfee Publish to DXL

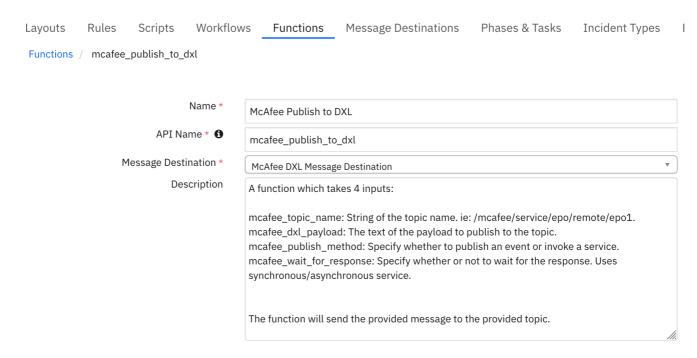
A function which takes 4 inputs:

mcafee_topic_name: String of the topic name. ie: /mcafee/service/epo/remote/epo1. mcafee_dxl_payload: The text of the payload to publish to the topic. mcafee_publish_method: Specify whether to publish an event or invoke a service. mcafee_wait_for_response: Specify whether or not to wait for the response. Uses synchronous/asynchronous service.

The function will send the provided message to the provided topic.



Customization Settings



Inputs

mcafee_topic_name	×	
mcafee_dxl_payload	×	
mcafee_publish_method	×	
mcafee_wait_for_response	×	
	mcafee_dxl_payload mcafee_publish_method	mcafee_dxl_payload x mcafee_publish_method x

► Inputs:

Name	Туре	Required	Example	Tooltip
mcafee_dxl_payload	text	Yes	_	The text of the payload to publish to the topic
mcafee_publish_method	select	Yes	_	Specify whether to publish an event or invoke a service
mcafee_topic_name	text	Yes	_	String of the topic name. ie: /mcafee/service/epo/remote/epo1
mcafee_wait_for_response	select	No	-	Specify whether or not to wait for the response. Uses synchronous/asynchronous service

► Outputs:

```
'_source_client_id': '',
                                '_source_broker_id': ''
                                '_destination_topic': '',
                                '_payload': '',
                                '_broker_ids': [],
                                 _client_ids': [],
                                '_other_fields': {},
                                '_source_tenant_guid': '',
                                '_destination_tenant_guids': [],
                                '_request': None,
                                '_request_message_id': None,
                                '_service_id': ''}},
        'raw': '{"mcafee_topic_name": "/mcafee/service/epo/remote/epo1", "mcafee_dxl_payload": "
{\\"command\\": \\"system.applyTag\\", \\"output\\": \\"json\\", \\"params\\": {\\"names\\":
\\"10.0.2.15\\", \\"tagName\\": \\"Shut Down\\"}}", "mcafee_publish_method": "Service",
"mcafee_wait_for_response": "Yes", "response": {"_version": "2", "_message_id": "{eb976a7f-2051-43f7-bd13-0205630385a7}", "_source_client_id": "", "_source_broker_id": "", "_destination_topic":
"", "_payload": "", "_broker_ids": [], "_client_ids": [], "_other_fields": {},
"_source_tenant_guid": "", "_destination_tenant_guids": [], "_request": null,
"_request_message_id": null, "_service_id": ""}}',
        'inputs': {'mcafee_publish_method': {'id': 305, 'name': 'Service'},
                    'mcafee_topic_name': '/mcafee/service/epo/remote/epo1',
                    'mcafee_dxl_payload': '{"command": "system.applyTag", "output": "json",
"params": {"names": "10.0.2.15", "tagName": "Shut Down"}}',
                    'mcafee_wait_for_response': {'id': 302, 'name': 'Yes'}},
        'metrics': {'version': '1.0',
                      'package': 'fn-mcafee-opendxl',
                     'package_version': '1.2.0',
                     'host': 'MacBook-Pro.local',
                     'execution_time_ms': 2534,
                     'timestamp': '2020-10-20 17:34:14'},
        'mcafee_topic_name': '/mcafee/service/epo/remote/epo1',
        'mcafee_dxl_payload': '{"command": "system.applyTag", "output": "json", "params":
{"names": "10.0.2.15", "tagName": "Shut Down"}}',
        'mcafee_publish_method': 'Service',
        'mcafee_wait_for_response': 'Yes'}
}
```

► Example Pre-Process Script:

```
# Replaces trust level string with acceptable value to publish to topic
inputs.mcafee_dxl_payload = inputs.mcafee_dxl_payload.replace("\"Known Malicious\"", "1")
inputs.mcafee_dxl_payload = inputs.mcafee_dxl_payload.replace("\"Most Likely Malicious\"", "15")
inputs.mcafee_dxl_payload = inputs.mcafee_dxl_payload.replace("\"Might Be Malicious\"", "30")
```

► Example Post-Process Script:

```
Response returned provides the input values in the following format
{
    "mcafee_topic_name": "<topic_name>",
    "mcafee_dxl_payload": "<payload>",
    "mcafee_publish_method": "<method>",
    "mcafee_wait_for_response": "<wait for response>"
"""

trust_level = ""
content = results.get("content")
```

Rules

Rule Name	Object	Workflow Triggered
(Example) McAfee Publish to DXL (Set TIE Reputation Known Malicious)	incident	example_mcafee_publish_to_dxl_set_tie_reputation
(Example) McAfee Publish to DXL (Tag System Shut Down)	incident	example_mcafee_publish_to_dxl_tag_system

DXL Subscriber

The DXL subscriber is designed using Resilient Circuits but does not rely on the functions capabilities. The subscriber connects to the Data Exchange Layer and listens on the topic specified topic(s). When a message is sent to the topic, the integration uses a mapping template to map the data into a Resilient incident DTO and create incidents and artifacts within the Resilient platform.

To use the DXL Subscriber, set the topic_listener_on configuration parameter to True.

When you run Resilient Circuits, the subscriber listens on the default topic, /mcafee/event/epo/threat/response, and uses the default provided jinja template to map incident and artifact data into the Resilient Platform.

Troubleshooting & Support

If using the app with an App Host, see the Resilient System Administrator Guide and the App Host Deployment Guide for troubleshooting procedures. You can find these guides on the IBM Knowledge Center, where you can select which version of the Resilient platform you are using.

If using the app with an integration server, see the Integration Server Guide

For Support

This is an IBM Supported app. Please search https://ibm.com/mysupport for assistance.