

# McAfee Threat Intelligence Exchange (TIE) Functions for IBM Resilient

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## Release Notes

### v1.0.2

- Support added for App Host.

### v1.0.1

- Support added for App Host.

### v1.0.0

- Initial Release
- 

## Overview

### Resilient Circuits Components for McAfee TIE Functions

The McAfee TIE Functions for IBM Resilient provides the ability to search McAfee Threat Intelligence Exchange (TIE) server for information on a specific file hash. This information can come from any of the providers:

- Enterprise
- GTI
- ATD
- MWG

In addition, a system list is returned by the function.

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## Installation

### Requirements

- Resilient platform **>= v35.0.0**
  - To setup up an App Host see: [ibm.biz/res-app-host-setup](https://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](https://ibm.biz/res-int-server-guide)
- If using an API key account, minimum required permissions are:

Name	Permissions
Org Data	Read
Function	Read

- Proxy supported: No (OpenDXL does not support proxy in on-prem installations)

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## Install

- To install or uninstall an App using the App Host see [ibm.biz/res-install-app](https://ibm.biz/res-install-app)
- To install or uninstall an Integration using the Integration Server see the [ibm.biz/res-install-int](https://ibm.biz/res-install-int)

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## 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
<b>dxlclient_config</b>	Yes	<code>/home/integration/.resilient/mcafee_tie/dxlclient.config</code>	Path to the dxlclient.config file

In addition to updating the app.config file and before running the McAfee TIE functions, you need to generate the dxlclient.config, certificates and key files using an OpenDXL client provisioning command. 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/basiccli provisioning.html#basiccli provisioning>

Here is an example of the OpenDXL client provisioning command:

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

In this example, `X.X.X.X` is the IP address of the McAfee ePO server or OpenDXL Broker.

The generated files are created in the `/home/integration/.resilient/fn_mcafee_tie` directory.

If installing the app on an integration server, set the `dxlclient_config` app.config parameter to the location of the created dxlclient.config file.

```
dxlclient_config=/home/integration/.resilient/fn_mcafee_tie/dxlclient.config
```

If installing the app directly to the Resilient platform (App Host environment), you need to use the New File button to create each file that was created by the provisioning command. As you create each file, copy the contents of the file into your new file. Make sure to enter `/etc/rescircuits/fn_mcafee_tie` as the File Path. See the Resilient Platform System Administrator Guide for the detailed procedure.

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## Custom Layouts

- Customize the Artifacts Tab page by dragging the TIE Results data table on to it as pictured below or create your own McAfee TIE incident tab and drag the TIE Results on to it:

McAfee SHA-256 Hash	7E2C0F9A7EAD783895F8FCE9F	02/22/2018	As specified in artifact type settings	
McAfee SHA-1 Hash	22C7B6594CC5830BA3B10D0724	02/22/2018	As specified in artifact type settings	
McAfee MD5 Hash	0E4D13CC8AF04CC64B68FC38F1	02/22/2018	As specified in artifact type settings	

TIE Results			
File Provider	Trust Level	Create Date	
Enterprise	Known Malicious	2018-02-21 12:19:23	***

Displaying 1 - 1 of 1

## Function - McAfee TIE search hash

A function which takes two inputs:

mcafee\_tie\_hash\_type: The type of file hash (md5, sha1, sha256). mcafee\_tie\_hash: The value of the hash.

The function returns a JSON object containing the available information from the different file providers (Enterprise, GTI, ATD, MWG) along with the list of systems related to it.

resilient

Dashboards
Inbox
Incidents
Create

Resilient Sysadmin  
resilient

Customization Settings

Layouts
Rules
Scripts
Workflows
Functions
Message Destinations
Phases & Tasks
Incident Types
Breach
Artifacts

Functions / mcafee\_tie\_search\_hash

Name \*

McAfee TIE search hash

API Name \*

mcafee\_tie\_search\_hash

Message Destination \*

McAfee TIE MD

Description

A function which takes two inputs:  
  
mcafee\_tie\_hash\_type: The type of file hash (md5, sha1, sha256).  
mcafee\_tie\_hash: The value of the hash.  
  
The function returns back a dict of all the available information from the different file providers (Enterprise, GTI, ATD, MWG) along with the list of systems related to it.

Inputs

mcafee\_tie\_hash\_type

mcafee\_tie\_hash

Input Fields

attachment\_id

Cancel

Save & Close

Save

Creator

Resilient Sysadmin

Last Modified

09/25/2020 15:34

Last Modified By

Resilient Sysadmin

Associated Workflows

(Example) McAfee TIE hash search workflow

Add Field

► Inputs:

Name	Type	Required	Example	Tooltip
mcafee_tie_hash	text	No	—	The value of the hash
mcafee_tie_hash_type	text	No	—	The type of file hash (md5, sha1, sha256)

► Outputs:

```
results = {
  "GTI":{
    "File Provider":"GTI",
    "Attributes":{

    },
    "Create Date":"2018-02-21 12:17:10",
    "Trust Level":"Known Malicious"
  },
}
```

```

"ATD":{
  "File Provider":"ATD",
  "Create Date":"2018-03-14 11:53:09",
  "Trust Level":"Most Likely Malicious"
},
"MWG":{
  "File Provider":"MWG",
  "Create Date":"2018-03-14 11:53:55",
  "Trust Level":"Most Likely Malicious"
},
"Enterprise":{
  "File Provider":"Enterprise",
  "Attributes":{
    "Average Local Rep":"Most Likely Malicious",
    "First Contact":"2018-02-21 12:17:10",
    "Min Local Rep":"Most Likely Malicious",
    "Is Prevalent":"0",
    "File Name Count":"1",
    "Max Local Rep":"Most Likely Malicious"
  },
  "Create Date":"2018-02-21 12:17:10",
  "Trust Level":"Most Likely Malicious"
}
}
"system_list":[{
  "date": 1519233563,
  "agentGuid": {a00728ff-3187-46c1-97d2-8e0f26ea940b}
}]
}

```

## ► Workflows:



## Customization Settings

Layouts Rules Scripts **Workflows** Functions Message Destinations Phases & Tasks Incident Types Breach Artifacts

Workflows / (Example) McAfee TIE hash search workflow

Cancel Save & Close Save

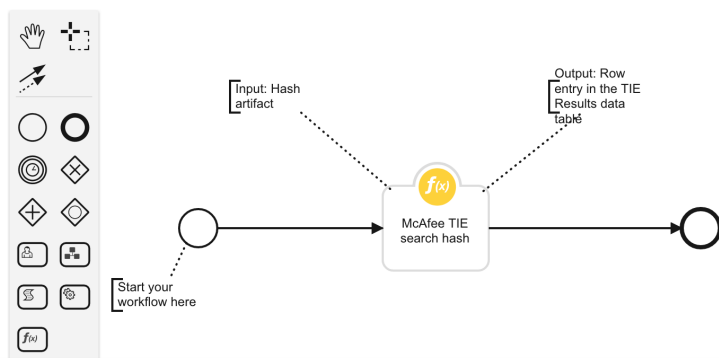
Name \* (Example) McAfee TIE hash search workflow

API Name \* mcafee\_tie\_hash\_search\_workflow

Description Workflow to trigger function to search hash in TIE. Results are written as a row in the TIE Results data table.

Object Type \* Artifact

Creator Resilient Sysadmin  
Last Modified 09/28/2020 15:57  
Last Modified By Resilient Sysadmin  
Associated Rules (Example) McAfee artifact hash search



## ► Example Pre-Process Script:

```

if artifact.type == "Malware MD5 Hash":
    inputs.mcafee_tie_hash_type = "md5"
    inputs.mcafee_tie_hash = artifact.value
elif artifact.type == "Malware SHA-1 Hash":
    inputs.mcafee_tie_hash_type = "sha1"
    inputs.mcafee_tie_hash = artifact.value
elif artifact.type == "Malware SHA-256 Hash":
    inputs.mcafee_tie_hash_type = "sha256"
    inputs.mcafee_tie_hash = artifact.value
else:
    helper.fail("Artifact hash was not set correctly")

```

► Example Post-Process Script:

```

"""
Data returned will be in the following structure

{
  "GTI":{
    "File Provider":"GTI",
    "Attributes":{

    },
    "Create Date":"2018-02-21 12:17:10",
    "Trust Level":"Known Malicious"
  },
  "ATD":{
    "File Provider":"ATD",
    "Create Date":"2018-03-14 11:53:09",
    "Trust Level":"Most Likely Malicious"
  },
  "MWG":{
    "File Provider":"MWG",
    "Create Date":"2018-03-14 11:53:55",
    "Trust Level":"Most Likely Malicious"
  },
  "Enterprise":{
    "File Provider":"Enterprise",
    "Attributes":{
      "Average Local Rep":"Most Likely Malicious",
      "First Contact":"2018-02-21 12:17:10",
      "Min Local Rep":"Most Likely Malicious",
      "Is Prevalent":"0",
      "File Name Count":"1",
      "Max Local Rep":"Most Likely Malicious"
    },
    "Create Date":"2018-02-21 12:17:10",
    "Trust Level":"Most Likely Malicious"
  }
  "system_list":[{
    "date": 1519233563,
    "agentGuid": {a00728ff-3187-46c1-97d2-8e0f26ea940b}
  }]
}
"""

row = incident.addRow("tie_results")

```

```
row["hash_type"] = artifact.type
row["hash"] = artifact.value
row["file_provider"] = results["Enterprise"]["File Provider"]
row["trust_level"] = results["Enterprise"]["Trust Level"]
row["tie_create_date"] = results["Enterprise"]["Create Date"]
```

Data Table - TIE Results

RESILIENT

Dashboards

Inbox

Incidents

Create

Q

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McAfee TIE testing

Actions

Description

No description.

Tasks

Details

Breach

Notes

Members

News Feed

Attachments

Stats

Timeline

Artifacts

Email

Secureworks CTP

Exchange Online

Twilio

Data Table Utils

McAfee TIE

Save

Cancel

TIE Results

Search...

Row +

Hash Type	Hash	File Provider	Trust Level	Create Date	
Malware SHA-256 Hash	A8B03AD33BC6D7A7F376B943F763EEDD1CDAF125D012F9018F2F56678AE67EA4	Enterprise	Not Set	2020-09-28 16:44:14	🗑
Malware SHA-1 Hash	C61AC5FE73D50BD41D0CAD1A43C471925E7DDCD4	Enterprise	Not Set	2020-09-28 16:44:11	🗑
Malware MD5 Hash	30CB8BA19E19B42701CDB3627D6F4023	Enterprise	Not Set	2020-09-28 15:39:56	🗑

Displaying 1 - 3 of 3

Summary

ID2147

PhaseEngage

SeverityLow

Date Created09/28/2020

Date Occurred—

Date Discovered09/28/2020

Date Determined09/28/2020

Data CompromisedUnknown

Incident TypeMalware

People

Created ByResilient Sysadmin

OwnerResilient Sysadmin

MembersThere are no members.

Related Incidents

No related incidents.

Attachments

There are no attachments.

API Name:

tie\_results

Columns:

Column Name	API Access Name	Type	Tooltip
File Provider	file_provider	text	-
Hash	hash	text	-
Hash Type	hash_type	text	-
Create Date	tie_create_date	text	-
Trust Level	trust_level	text	-

Rules

Rule Name	Object	Workflow Triggered
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Rule Name	Object	Workflow Triggered
(Example) McAfee artifact hash search	artifact	mcafee_tie_hash_search_workflow

► Rules:

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Dashboards

Inbox

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Customization Settings

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Message Destinations

Phases & Tasks

Incident Types

Breach

Artifacts

Rules / (Example) McAfee artifact hash search

Display Name \*

(Example) McAfee artifact hash s

Object Type

Artifact

Conditions

Add conditions in which to invoke the rule. [Clear All](#)

Type

has one of

Malware MD5 Hash

Malware SHA-1 Hash

Malware SHA-256 Hash

Cancel

Save & Close

Save

Activities

Ordered

Ordered Activities will be invoked in the order specified below. They include: *Add Tasks, Run Script, and Set Field.* [Add New](#)

Workflows

Workflow Activities are started after all Ordered Activities complete.

(Example) McAfee TIE hash search workflow

Destinations

Transaction Data is posted to Message Destinations after all Ordered Activities complete and all Workflows have been started.

Select Destinations

[► Show Activity Fields](#)

## 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.