

User Guide: fn_mcafee_epo_v1.0.2

Table of Contents

- [Key Features](#)
 - [Function - McAfee ePO find a system](#)
 - [Function - McAfee tag an ePO asset](#)
 - [Function - McAfee ePO remove tag](#)
 - [Function - McAfee ePO list tags](#)
 - [Data Table - McAfee ePO tags](#)
 - [Rules](#)
-

Release Notes

v1.0.2

- New functions
- Enhanced rules and workflows

v1.0.1

- Bug fixes

v1.0.0

- Initial Release

Key Features

- Add and remove tags to an ePO system
 - List available tags
 - Get info on an ePO system
-

Configuration

App Host Installation

All the components for running this integration in a container already exist when using the App Host app.

To install,

- Navigate to Administrative Settings and then the Apps tab.
- Click the Install button and select the downloaded file: app-fn_mcafee_epo-x.x.x.zip.
- Go to the Configuration tab and edit the app.config file, editing the API key, user and password for McAfee ePO and making any additional setting changes. Edit the `[fn_mcafee_epo]` portion of the

app.config file:

Config	Required	Example	Description
epo_url	Yes	<code>https://<your_epo_server>:8443</code>	URL to your McAfee ePO server
epo_username	Yes	<code><your_epo_username></code>	Login credentials
epo_password	Yes	<code><your_epo_password></code>	Login credential
epo_trust_cert	Yes	<code>false</code>	path to server certificate or false to bypass verification

Integration Server Installation

- Download the `fn_mcafee_epo.zip` file.
- Copy the `.zip` to your Integration Server and SSH into it.
- **Unzip** the package:

```
$ unzip fn_mcafee_epo-x.x.x.zip
```

- **Change Directory** into the unzipped directory:

```
$ cd fn_mcafee_epo-x.x.x
```

- **Install** the package:

```
$ pip install fn_mcafee_epo-x.x.x.tar.gz
```

- Import the **configurations** into your app.config file:

```
$ resilient-circuits config -u -l fn-mcafee-epo
```

- Import the `fn_mcafee_epo` **customizations** into the Resilient platform:

```
$ resilient-circuits customize -y -l fn-mcafee-epo
```

- Open the config file, scroll to the bottom and edit your `fn_mcafee_epo` configurations:

Config	Required	Example	Description
epo_url	Yes	<code>https://<your_epo_server>:8443</code>	URL to your McAfee ePO server
epo_username	Yes	<code><your_epo_username></code>	Login credentials
epo_password	Yes	<code><your_epo_password></code>	Login credential
epo_trust_cert	Yes	<code>false</code>	path to server certificate or false to bypass verification

Layout changes

A datatable, McAfee ePO Tags, is available to list and act upon ePO tags. Add this table to your Layout by either creating a new tab or simply drag the datatable to an existing tab.

The screenshot shows the McAfee ePO console interface. The 'Layouts' tab is selected in the top navigation bar. On the left, the 'Incident: ePO' section is active, and the 'McAfee ePO tags' datatable is being added to the layout. A large black arrow points from the 'McAfee ePO tags' entry in the 'Data Tables' list on the right to the 'McAfee ePO tags' entry in the 'Incident: ePO' section on the left.

Function - McAfee ePO find a system

Find an ePO system based on a property such as system name, tag, IP address, MAC address, etc.

test_server

Details

Edit

Created

10/01/2020 15:11

Created By

Resilient Sysadmin

Value

test_server

Type

System Name

Description

ePO system info

EPOComputerProperties.NetAddress:
EPOBranchNode.AutoID: 2
EPOLeafNode.AgentGUID: None
EPOComputerProperties.IPSubnetMask: None
EPOComputerProperties.ParentID: 13
EPOLeafNode.ManagedState: 0
EPOComputerProperties.IPSubnet: None
EPOComputerProperties.SubnetAddress:
EPOComputerProperties.SubnetMask:
EPOComputerProperties.OSBitMode: -1
EPOComputerProperties.OSPlatform:
EPOComputerProperties.IPAddress:
EPOComputerProperties.IPXAddress:
EPOComputerProperties.TotalDiskSpace: 0
EPOComputerProperties.CPUSerialNumber:
EPOLeafNode.AgentVersion: None
EPOComputerProperties.NumOfCPU: 0
EPOComputerProperties.UserName:
EPOComputerProperties.ComputerName: test_server
EPOComputerProperties.TotalPhysicalMemory: 0
EPOComputerProperties.UserProperty3: None
EPOComputerProperties.OSType:
EPOComputerProperties.UserProperty2: None
EPOComputerProperties.UserProperty1: None
EPOComputerProperties.FreeMemory: 0
EPOLeafNode.ExcludedTags:
EPOComputerProperties.OSCsdVersion:
EPOComputerProperties.OSOEMID:
EPOComputerProperties.UserProperty8: None
EPOComputerProperties.UserProperty7: None

► Inputs:

Name	Type	Required	Example	Tooltip
mcafee_epo_systems	text	No	server_name	Comma separated list of Hostnames/IpAddress. These systems must be managed on ePO

► Outputs:

```
results = {  
  'version': '1.0',  
  'success': True,  
  'reason': None,  
  'content': [  
    {
```

```
'EPOComputerProperties.ParentID': 13,
'EPOComputerProperties.ComputerName': 'test_server',
'EPOComputerProperties.Description': None,
'EPOComputerProperties.ComputerDescription': None,
'EPOComputerProperties.TimeZone': '',
'EPOComputerProperties.DefaultLangID': '',
'EPOComputerProperties.UserName': '',
'EPOComputerProperties.DomainName': '',
'EPOComputerProperties.IPHostName': '',
'EPOComputerProperties.IPV6': None,
'EPOComputerProperties.IPAddress': '',
'EPOComputerProperties.IPSubnet': None,
'EPOComputerProperties.IPSubnetMask': None,
'EPOComputerProperties.IPV4x': None,
'EPOComputerProperties.IPXAddress': '',
'EPOComputerProperties.SubnetAddress': '',
'EPOComputerProperties.SubnetMask': '',
'EPOComputerProperties.NetAddress': '',
'EPOComputerProperties.OSType': '',
'EPOComputerProperties.OSVersion': '',
'EPOComputerProperties.OSCsdVersion': '',
'EPOComputerProperties.OSBuildNum': 0,
'EPOComputerProperties.OSPlatform': '',
'EPOComputerProperties.OSOEMID': '',
'EPOComputerProperties.CPUType': '',
'EPOComputerProperties.CPUSpeed': 0,
'EPOComputerProperties.NumOfCPU': 0,
'EPOComputerProperties.CPUSerialNumber': '',
'EPOComputerProperties.TotalPhysicalMemory': 0,
'EPOComputerProperties.FreeMemory': 0,
'EPOComputerProperties.FreeDiskSpace': 0,
'EPOComputerProperties.TotalDiskSpace': 0,
'EPOComputerProperties.IsPortable': -1,
'EPOComputerProperties.Vdi': -1,
'EPOComputerProperties.OSBitMode': -1,
'EPOComputerProperties.LastAgentHandler': None,
'EPOComputerProperties.UserProperty1': None,
'EPOComputerProperties.UserProperty2': None,
'EPOComputerProperties.UserProperty3': None,
'EPOComputerProperties.UserProperty4': None,
'EPOComputerProperties.UserProperty5': None,
'EPOComputerProperties.UserProperty6': None,
'EPOComputerProperties.UserProperty7': None,
'EPOComputerProperties.UserProperty8': None,
'EPOComputerProperties.Free_Space_of_Drive_C': 0,
'EPOComputerProperties.Total_Space_of_Drive_C': 0,
'EPOLeafNode.Tags': 'Resilient',
'EPOLeafNode.ExcludedTags': '',
'EPOLeafNode.LastUpdate': None,
'EPOLeafNode.ManagedState': 0,
'EPOLeafNode.AgentGUID': None,
'EPOLeafNode.AgentVersion': None,
'EPOBranchNode.AutoID': 2
}
```

```

],
'raw': ' [{...}] ',
'inputs': {
  'mcafee_epo_systems': 'test_server'
},
'metrics': {
  'version': '1.0',
  'package': 'fn-mcafee-epo',
  'package_version': '1.0.2',
  'host': 'Marks-MacBook-Pro.local',
  'execution_time_ms': 346,
  'timestamp': '2020-10-05 15:28:47'
}
}

```

► Workflows

► Example Pre-Process Script:

```
inputs.mcafee_epo_systems = artifact.value
```

► Example Post-Process Script:

```

if not results.content:
    info = u"ePO system not found"
else:
    info = u"ePO system info\n"
    for system in results.content:
        for setting in system:
            info = u"{}\n{}: {}".format(info, setting, system[setting])

    if artifact.description:
        artifact.description = u"{}\n\n{}".format(artifact.description.content,
        info)
    else:
        artifact.description = info

```

Function - McAfee tag an ePO asset

Applies tag to systems in ePO. Inputs include:

- mcafee_epo_system: Comma separated list of Hostnames/IpAddress. These systems must be managed on ePO.
- mcafee_epo_tag: A tag managed on ePO.

► Inputs:

Name	Type	Required	Example	Tooltip
------	------	----------	---------	---------

Name	Type	Required	Example	Tooltip
mcafee_epo_systems	text	No	server_name	Comma separated list of Hostnames/IpAddress. These systems must be managed on ePO
mcafee_epo_tag	text	No	Workstation	Tag managed on ePO

► Outputs:

```

results = {
  'version': '1.0',
  'success': True,
  'reason': None,
  'content': 1,
  'raw': '1',
  'inputs': {
    'mcafee_epo_systems': 'test_server',
    'mcafee_epo_tag': "[u'Workstation']"
  },
  'metrics': {
    'version': '1.0',
    'package': 'fn-mcafee-epo',
    'package_version': '1.0.2',
    'host': 'Marks-MacBook-Pro.local',
    'execution_time_ms': 461,
    'timestamp': '2020-10-05 15:38:13'
  },
  'Systems': 'test_server',
  'Tag': "[u'Workstation']"
}

```

► Workflows

► Example Pre-Process Script:

```

inputs.mcafee_epo_systems = rule.properties.epo_system
inputs.mcafee_epo_tag = row['epo_tag']

```

► Example Post-Process Script:

```

if results.content:
    note = u"ePO tags: {} applied to system:
    {}".format(results.inputs['mcafee_epo_tag'],
    results.inputs['mcafee_epo_systems'])
else:
    note = u"ePO system: {} either not found or tag already applied for tags:
    {}".format(results.inputs['mcafee_epo_systems'],
    results.inputs['mcafee_epo_tag'])

```

```
incident.addNote(note)
```

Function - McAfee ePO remove tag

Remove a tag associated with ePO system(s).

► Inputs:

Name	Type	Required	Example	Tooltip
mcafee_epo_systems	text	No	test_server	Comma separated list of Hostnames/IpAddress. These systems must be managed on ePO
mcafee_epo_tag	text	No	Workstation	Tag managed on ePO

► Outputs:

```
results = {
  'version': '1.0',
  'success': True,
  'reason': None,
  'content': 1,
  'raw': '1',
  'inputs': {
    'mcafee_epo_systems': 'test_server',
    'mcafee_epo_tag': "[u'Workstation']"
  },
  'metrics': {
    'version': '1.0',
    'package': 'fn-mcafee-epo',
    'package_version': '1.0.2',
    'host': 'Marks-MacBook-Pro.local',
    'execution_time_ms': 383,
    'timestamp': '2020-10-05 15:39:47'
  }
}
```

► Workflows

► Example Pre-Process Script:

```
inputs.mcafee_epo_systems = artifact.value
inputs.mcafee_epo_tag = str(rule.properties.ss_tags)
```

► Example Post-Process Script:


```

if not results.content:
    note = u"ePO system not found or tag not applied:
    {}".format(results.inputs['mcafee_epo_tag'])
else:
    note = u"ePO tag(s) removed: {}".format(results.inputs['mcafee_epo_tag'])

if artifact.description:
    artifact.description = u"{}\n\n{}".format(artifact.description.content,
    note)
else:
    artifact.description = note

```

Function - McAfee ePO list tags

Find all tags specified in ePO

McAfee ePO tags

Id *	Tag *	Notes	
11	Shut Down	—	
10	MARAGG	Apply Tag to Active Response Server	
9	MARSERVER	Apply Tag to Active Response Server	
1	Server	Default tag for systems identified as a Server	
2	Workstation	Default tag for systems identified as a Workstation	
4	DXLBROKER	DXL Broker	
6	Escalated	Protection Workspace tag for escalated systems	
7	Excluded from Compliance Check	Protection Workspace tag for systems to be excluded from the compliance check	
8	IBM QRadar	Sample tag creation for partners	
3	EE:ALDU	This will automatically be assigned to system where the users have had Local Domain Users added.	

► Inputs:

None

► Outputs:

```

results = {
    'version': '1.0',
    'success': True,
    'reason': None,
    'content': [
        {
            'tagNotes': 'Default tag for systems identified as a Server',
            'tagId': 1,
            'tagName': 'Server'
        },
    ],
}

```

```
{
  'tagNotes': 'Default tag for systems identified as a Workstation',
  'tagId': 2,
  'tagName': 'Workstation'
},
{
  'tagNotes': 'This will automatically be assigned to system where the
users have had Local Domain Users added.',
  'tagId': 3,
  'tagName': 'EE:ALDU'
},
{
  'tagNotes': 'DXL Broker',
  'tagId': 4,
  'tagName': 'DXLBROKER'
},
{
  'tagNotes': 'Apply Tag to TIEServers',
  'tagId': 5,
  'tagName': 'TIESERVER'
},
{
  'tagNotes': 'Protection Workspace tag for escalated systems',
  'tagId': 6,
  'tagName': 'Escalated'
},
{
  'tagNotes': 'Protection Workspace tag for systems to be excluded
from the compliance check',
  'tagId': 7,
  'tagName': 'Excluded from Compliance Check'
},
{
  'tagNotes': 'Sample tag creation for partners',
  'tagId': 8,
  'tagName': 'IBM QRadar'
},
{
  'tagNotes': 'Apply Tag to Active Response Server',
  'tagId': 9,
  'tagName': 'MARSERVER'
},
{
  'tagNotes': 'Apply Tag to Active Response Server',
  'tagId': 10,
  'tagName': 'MARAGG'
},
{
  'tagNotes': '',
  'tagId': 11,
  'tagName': 'Shut Down'
},
{
  'tagNotes': '',
```

```

    'tagId': 12,
    'tagName': 'myTag'
  },
  {
    'tagNotes': 'aaa',
    'tagId': 13,
    'tagName': 'Ã ā Ă ă Å å '
  },
  {
    'tagNotes': 'Ã ā Ă ă Å å ',
    'tagId': 14,
    'tagName': 'Resilient'
  }
],
'raw': ' [{...}] ',
'inputs': {

},
'metrics': {
  'version': '1.0',
  'package': 'fn-mcafee-epo',
  'package_version': '1.0.2',
  'host': 'Marks-MacBook-Pro.local',
  'execution_time_ms': 277,
  'timestamp': '2020-10-05 15:35:35'
}
}

```

► Workflows

► Example Pre-Process Script:

None

► Example Post-Process Script:

```

if results.success:
for tag in sorted(results.content, key = lambda i: i['tagName'].lower()):
    row = incident.addRow("mcafee_epo_tags")
    row['epo_id'] = tag['tagId']
    row['epo_tag'] = tag['tagName']
    row['epo_notes'] = tag['tagNotes']

```

Data Table - McAfee ePO tags

API Name:

mcafee_epo_tags

Columns:

Column Name	API Access Name	Type	Tooltip
Id	epo_id	number	-
Notes	epo_notes	text	-
Tag	epo_tag	text	-

Rules

Rule Name	Object	Workflow Triggered
McAfee ePO remove tags	artifact	mcafee_epo_remove_tag
McAfee ePO apply a tag	mcafee_epo_tags	mcafee_epo_apply_a_tag
McAfee ePO list tags	incident	mcafee_epo_list_tags
McAfee ePO apply tags	artifact	mcafee_epo_apply_tags
McAfee ePO get system info	artifact	mcafee_epo_get_system_info