User Guide: fn_mcafee_epo_v1.0.3

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Release Notes

v1.0.3

- New functions
- Enhanced rules and workflows

v1.0.2

App Host support

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	`https://<your_epo_server>:8443`	*URL to your McAfee ePO server*
epo_username	Yes	`<your_epo_username>`	*Login credentials*
epo_password	Yes	`<your_epo_password>`	*Login credential*
epo_trust_cert	Yes	`false`	*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:

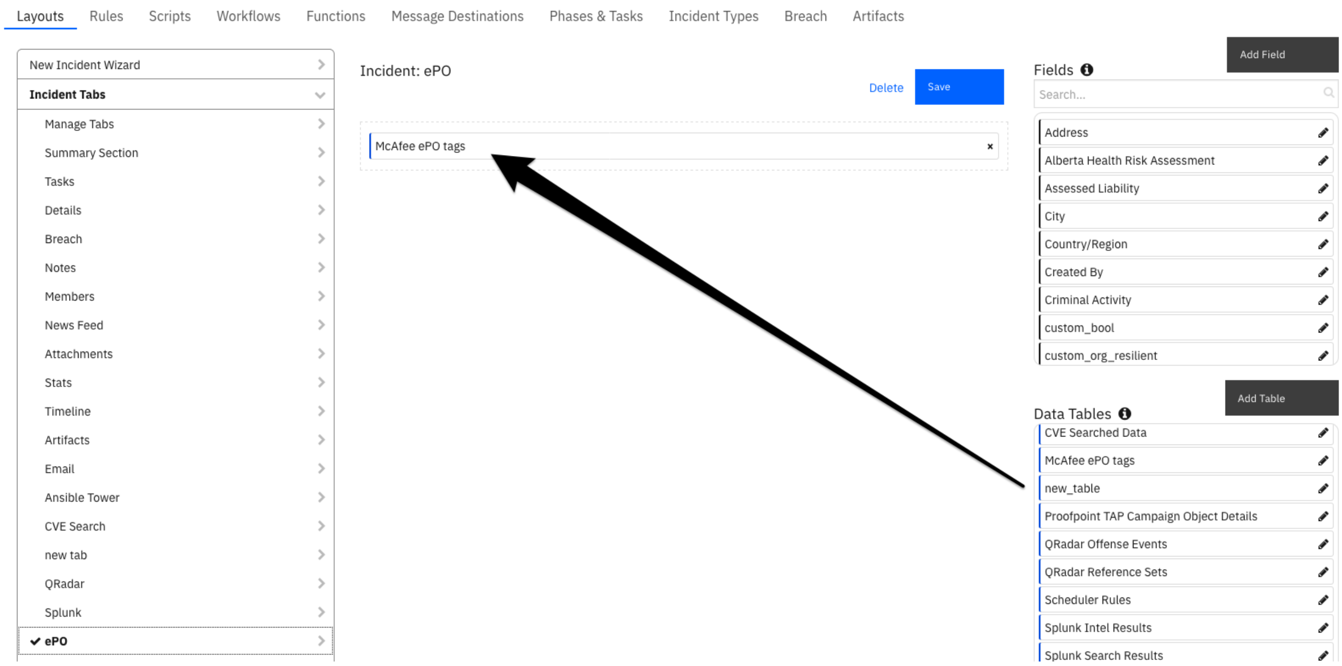
```
$ resilient-circuits customize -y -l fn-mcafee-epo
```

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

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

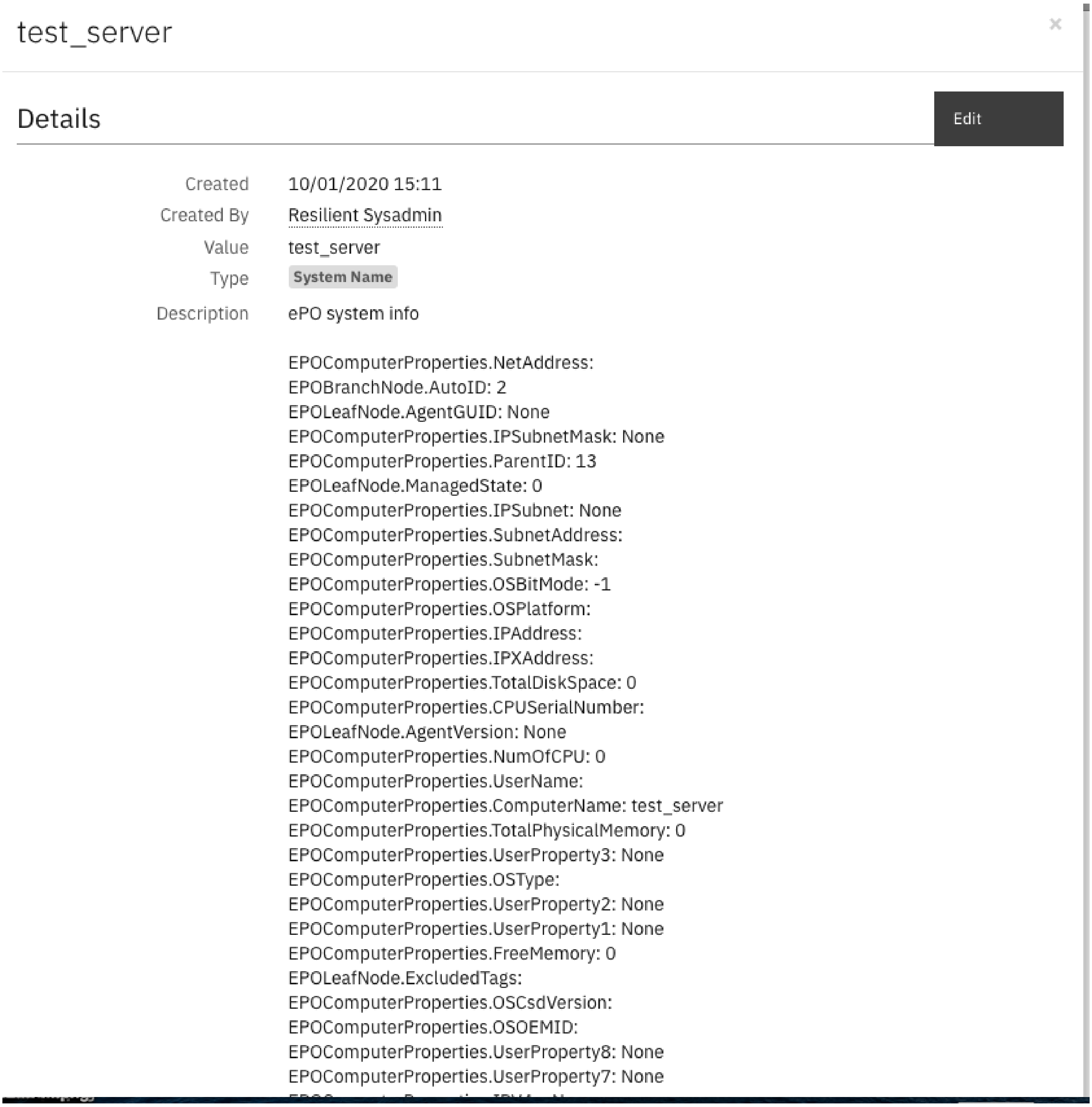
Layout changes

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.



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

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)
```

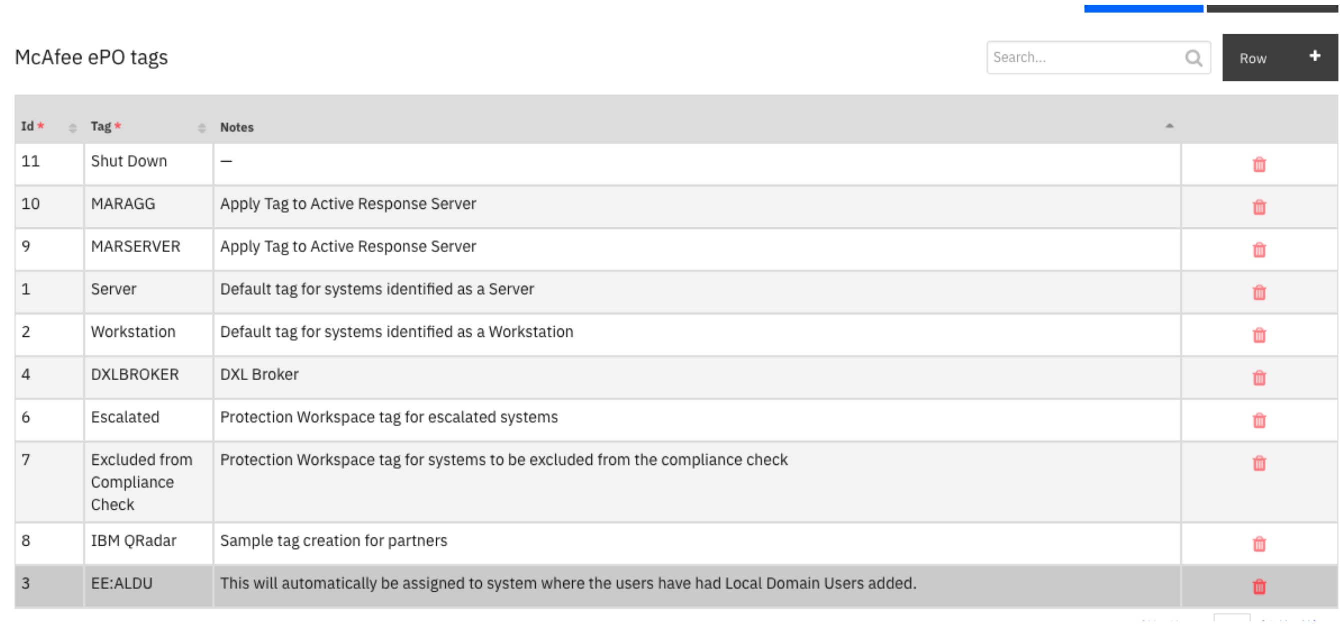
▶ Example Post-Process Script:

```
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': 'Ā ā Ă ă Ą ą '
    },
    {
      'tagNotes': 'Ā ā Ă ă Ą ą ',
      '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`
