fn-sep Functions for IBM Resilient

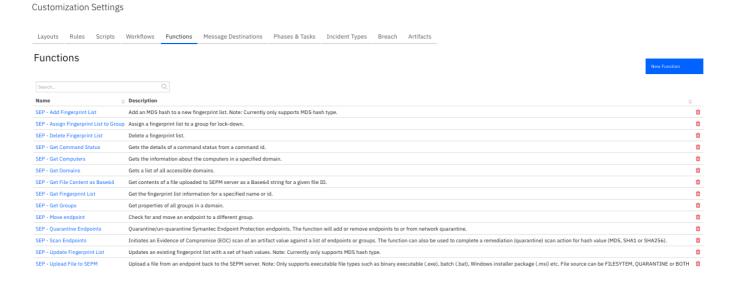
- Release Notes
- Overview
- Requirements
- Installation
- Uninstall
- Functions
- Sample workflows
- Sample rules
- Example
- Troubleshooting
- Support

Release Notes

	Date	Version	Notes
	11/2022	1.0.2	Bug fix for osname
	11/2020	1.0.1	Support added for App Host
,	08/2019	1.0.0	Initial Release

Overview

Resilient Circuits Components for 'fn_sep'



The Symantec Endpoint Protection (SEP) integration with the Resilient platform allows for querying and updating of a SEP deployment.

Key Features

- Execute an Evidence of Compromise (EOC) scan for artifacts of type file (name or path) and hash (MD5, SHA1 or SHA256).
- Upload a file from an endpoint to the Symantec Endpoint Protect Manager (SEPM).
- Download a file from the SEPM as base64.
- Remediate (quarantine) files (by hash match) discovered in an EOC scan.
- Get endpoint details or status.
- Get groups.
- Get fingerprint lists.
- Add or delete an MD5 hash value from a fingerprint list, which can be used to blacklist files.
- Assign a fingerprint list to a group for system lockdown.
- Delete a fingerprint list.
- Move an endpoint to a new group.
- Quarantine an endpoint.

Requirements

- Resilient version 32 or later
- Resilient circuits version 32 or later
- Resilient Generic Email Parsing Script 1.0.1 or later
- Symantec Endpoint Protection 14.2 or later
- To setup up an App Host see: ibm.biz/res-app-host-setup
- An Integration Server running resilient_circuits>=30.0.0
 - To set up an Integration Server see: ibm.biz/res-int-server-guide
 - If using API Keys, minimum required permissions are:

Name	Permissions	
Org Data	Read, Edit	
Incident fields	Edit all	

• Proxy supported: Yes

Installation

- 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

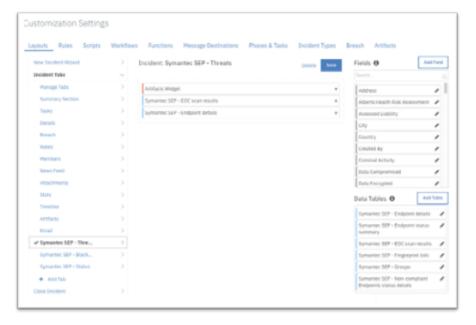
The following table describes the settings you need to configure in the app.config file. If using App Host, see the Resilient System Administrator Guide. If using the integration server, see the Integration Server Guide.

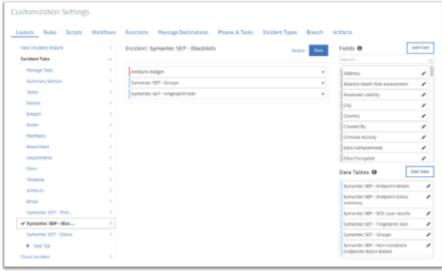
Config	Required	Example	Description
--------	----------	---------	-------------

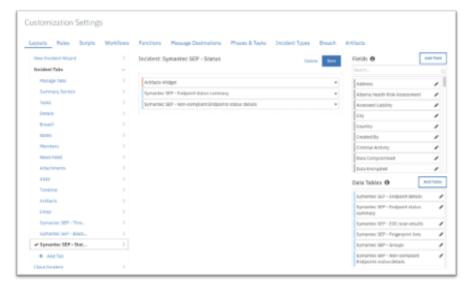
Config	Required	Example	Description
sep_base_path	Yes	/sepm/api/v1	Base path for SEP api.
sep_auth_path	Yes	/sepm/api/v1/identity/authenticate	Authentiaction Path for SEP api.
sep_host	Yes	192.168.190.190	DNS name of ip address of the SEP server.
sep_username	Yes	sep_username	User name for SEP api access.
sep_password	Yes	sep_password	User password for SEP api access.
sep_domain	Yes	Default	User password for McAfee ESM api access.
sep_results_limit	Yes	200	Limit result sent to Resilient, add full result as an attachment.
sep_scan_timeout	Yes	`1800	Period of time (seconds) to wait for all endpoints to return a scan result.
http_proxy	No	0	Optional setting for an http proxy if required.
https_proxy	No	0	Optional setting for an https proxy if required.

Custom Layouts

• To use the functions, create new Incident tabs e.g. Symantec SEP - Threats, Symantec SEP - Blacklists and Symantec SEP - Status. Drag the SEP data tables on to the layouts and click Save as shown in the screenshots below:







Uninstall

- SSH into your Integration Server.
- Uninstall the package:

```
$ pip uninstall fn-sep
```

- Open the config file, scroll to the [fn_sep] section and remove the section or prefix # to comment out the section.
- Save and Close the app.config file.

Functions:

```
SEP - Scan Endpoints (fn_sep_scan_endpoints)
SEP - Upload File to SEPM (fn_sep_upload_file_to_sepm)
SEP - Get File Content as Base64 (fn_sep_get_file_content_as_base64)
SEP - Get Computers (fn_sep_get_computers)
SEP - Move Endpoint (fn_sep_move_endpoint)
SEP - Quarantine Endpoints (fn_sep_quarantine_endpoints)
SEP - Get Fingerprint List (fn_sep_get_fingerprint_list)
SEP - Add Fingerprint List (fn_sep_add_fingerprint_list)
SEP - Update Fingerprint List (fn_sep_update_fingerprint_list)
SEP - Get Groups (fn_sep_get_groups)
SEP - Assign Fingerprint List to Group
(fn_sep_assign_fingerprint_list_to_group)
SEP - Delete Fingerprint List (fn_sep_delete_fingerprint_list)
SEP - Get Command Status (fn_sep_get_command_status)
SEP - Get Domains (fn_sep_get_domains)
```

Sample workflows:

```
Example: SEP - Add Hash to Blacklist
Example: SEP - Assign Blacklist to lockdown group
Example: SEP - Delete Blacklist
Example: SEP - Delete Hash from Blacklist
Example: SEP - Get Blacklist information
Example: SEP - Get Endpoint Details
Example: SEP - Get Endpoint Details for artifact
Example: SEP - Get Endpoints status summary
Example: SEP - Get Endpoints status summary (refresh)
Example: SEP - Get File Content as Base64 string
Example: SEP - Get Groups information
Example: SEP - Get Non-Compliant Endpoints status details
Example: SEP - Get Quarantine status
Example: SEP - Get Remediation status
Example: SEP - Get Scan results
Example: SEP - Get Upload status
Example: SEP - Initiate EOC Scan for Artifact
Example: SEP - Move Endpoint
Example: SEP - Quarantine Endpoint
```

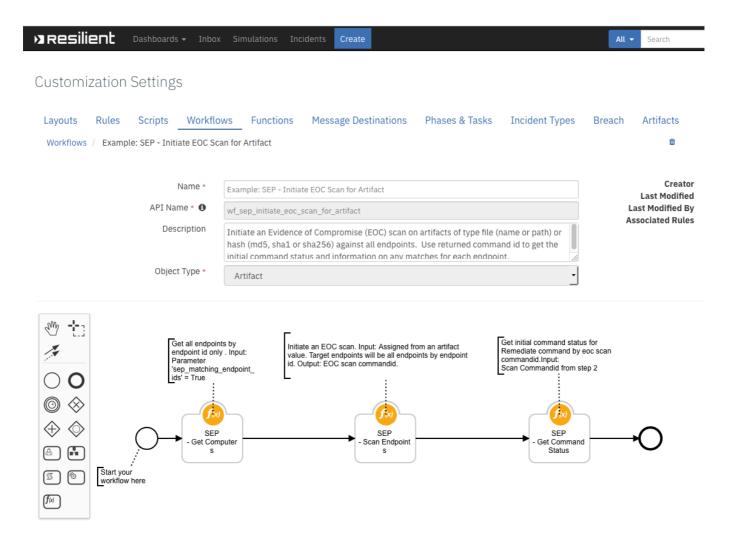
```
Example: SEP - Remediate Artifact on Endpoint
Example: SEP - Upload file to SEPM server
```

Sample rules:

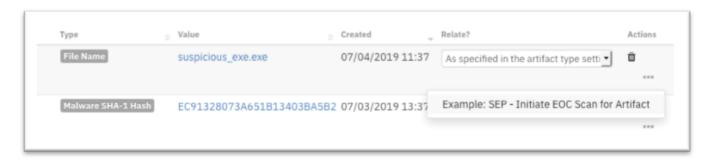
```
Example: SEP - Add Artifact from Scan Result
Example: SEP - Add Hash to Blacklist
Example: SEP - Assign Blacklist to lockdown group
Example: SEP - Delete Blacklist
Example: SEP - Delete Hash from Blacklist
Example: SEP - Get Blacklist information
Example: SEP - Get Endpoint Details
Example: SEP - Get Endpoint Details for artifact
Example: SEP - Get Endpoints status summary
Example: SEP - Get Endpoints status summary (refresh)
Example: SEP - Get File Content as Base64 string
Example: SEP - Get Groups information
Example: SEP - Get Non-Compliant Endpoints status details
Example: SEP - Get Quarantine status
Example: SEP - Get Remediation status
Example: SEP - Get Scan results
Example: SEP - Get Upload status
Example: SEP - Initiate EOC Scan for Artifact
Example: SEP - Move Endpoint
Example: SEP - Parse notification
Example: SEP - Quarantine Endpoint
Example: SEP - Remediate Artifact on Endpoint
Example: SEP - Un-Quarantine Endpoint
Example: SEP - Upload file to SEPM server
```

Example

The provided **SEP - Scan Endpoints** function with the **Initiate EOC Scan for Artifact** workflow initiates an Evidence of Compromise (EOC) scan of an artifact value against a list of endpoints or groups.



The function can also be used to complete a remediation delete action on a SHA256 hash value in conjunction with a scan.



► Outputs:

► Example Pre-Process Script:

```
GET COMPUTERS CONTENT = workflow.properties.get computers results.content
ARTIFACT_TYPE = artifact.type
ARTIFACT_VALUE = artifact.value
ARTIFACT_DESCRIPTION = artifact.description
ARTIFACT TYPE TO ROW = {
    "File Name": "file name",
    "File Path": "file_path",
    "Malware MD5 Hash": "md5",
    "Malware SHA-1 Hash": "sha1",
    "Malware SHA-256 Hash": "sha256"
ARTIFACT_TYPES = [ v for v in sorted(ARTIFACT_TYPE_TO_ROW.values())]
COMPUTER_IDS = []
## Processing
def get_computers():
    global COMPUTER_IDS
    # Get computers to run scan against from previous step.
    if GET_COMPUTERS_CONTENT is not None and
GET_COMPUTERS_CONTENT["endpoints_matching_ids"]:
        COMPUTER_IDS = GET_COMPUTERS_CONTENT["endpoints_matching ids"]
def set_inputs(fn, fp, md5, sha1, sha256):
    global COMPUTER_IDS
    inputs.sep_file_path = fn if fp is None else fp
    inputs.sep_md5 = md5
    inputs.sep_sha1 = sha1
    inputs.sep_sha256 = sha256
    inputs.sep_computer_ids = ','.join(COMPUTER_IDS)
    inputs.sep_scan_type = rule.properties.sep_scan_type
    inputs.sep_scan_action = None
    if ARTIFACT_DESCRIPTION is not None:
        inputs.sep_description = u"Scan eoc for
{0}".format(unicode(ARTIFACT DESCRIPTION["content"]))
   else:
        inputs.sep_description = u"Scan eoc for for suspicious hash of
type {0} and value {1} in the SEP environment.".format(ARTIFACT_TYPE,
ARTIFACT_VALUE)
def main():
    get_computers()
```

```
# Assign values to correct row based on artifact type
  types = [None if t not in ARTIFACT_TYPE_TO_ROW[ARTIFACT_TYPE] else
ARTIFACT_VALUE for t in ARTIFACT_TYPES]
  set_inputs(*types)

if __name__ == "__main__":
  main()
```

► Example Post-Process Script:

```
## Symantec Endpoint Protection - fn_sep_upload_file_to_sepm script ##
# Example result:
Result: {'inputs': {u'sep_description': u'Scan to remediate file based on
sha256', u'sep_computer_ids': u'D31AA16E0946C25D40C83823C500518B',
                    u'sep scan action': None, u'sep file path':
u'C:\\temp\\eicar.zip', u'sep_group_ids':
u'CAD80F000946C25D6C150831060AA326',
                    u'sep sha256': None, u'sep scan type': {u'name':
u'FULL SCAN', u'id': 229}},
         'metrics': {'package': 'fn-sep', 'timestamp': '2019-04-12
10:49:22', 'package_version': '1.0.0', 'host': 'myhost', 'version': '1.0',
'execution_time_ms': 12349},
         'success': True, 'content': {u'commandID_computer':
u'0F0CBDD7EDFF4634B23FA11F5AB81FFC', u'commandID group':
u'BB37F78894DB451B8E8921EC127667A3'},
         'raw': '{"commandID_computer":
"0F0CBDD7EDFF4634B23FA11F5AB81FFC", "commandID_group":
"BB37F78894DB451B8E8921EC127667A3"}',
         'reason': None,
         'version': '1.0'
}
0.00
# Globals
# List of fields in datatable fn_sep_get_command_status script
DATA_TBL_FIELDS = ["scan_commandID"]
FN_NAME = "fn_sep_scan_endpoints"
WF NAME = "Initiate EOC Scan for Artifact"
# Processing
CONTENT = results.content
INPUTS = results.inputs
QUERY_EXECUTION_DATE = results["metrics"]["timestamp"]
note_text = ''
def main():
    note_text = ''
    if CONTENT is not None:
        note_text = u"Symantec SEP Integration: Workflow <b>{0}</b>:
Returned command id <b>{1}</b> for a <b>{2}</b> " \
                    "scan on artifact <b>{3}</b> for Resilient function
<b>{4}</b>"\
```

Troubleshooting

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

Support

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