None

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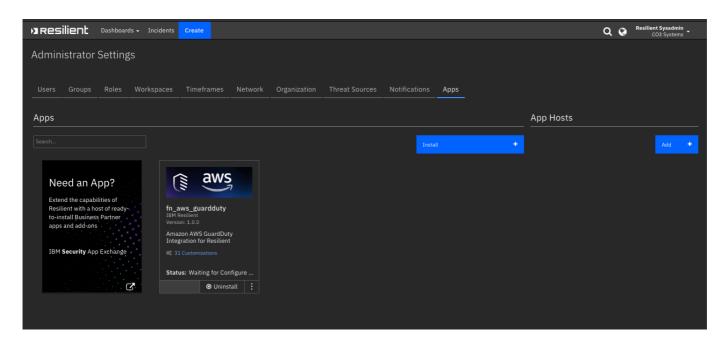
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Release Notes

Version	Date	Notes
1.0.0	02/2021	Initial Release

Overview

Amazon AWS GuardDuty Integration for Resilient.



Amazon AWS GuardDuty is a continuous security monitoring service that identifies unexpected and potentially unauthorized and malicious activity within an AWS environment. GuardDuty informs the user of the status of their AWS environment by producing security findings that can be viewed in the GuardDuty console. A finding is a potential security issue discovered by GuardDuty.

The Amazon AWS GuardDuty Integration for Resilient allows you to process and respond to GuardDuty findings within the IBM Resilient Platform.

Key Features

The GuardDuty Integration provides the following functionality:

- A poller which gathers current findings from GuardDuty and escalates to the Resilient platform as incidents.
- A function to archive a GuardDuty finding when the corresponding Resilient incident is closed.
- A function to refresh a Resilient incident with the latest information from the corresponding GuardDuty finding.
- Close Resilient incidents if the corresponding GuardDuty findings are archived.
- · Archive GuardDuty findings if the corresponding Resilient incidents are closed.
- Trigger a refresh for a Resilient incident if the corresponding GuardDuty finding gets updated.
- A refresh of Resilient incidents can be executed manually.

Requirements

This app supports the IBM Resilient SOAR Platform and the IBM Cloud Pak for Security.

Resilient platform

The Resilient platform supports two app deployment mechanisms, App Host and integration server.

If deploying to a Resilient platform with an App Host, the requirements are:

- Resilient platform >= 39.0.6328.
- The app is in a container-based format (available from the AppExchange as a zip file).

If deploying to a Resilient platform with an integration server, the requirements are:

• Resilient platform >= 39.0.6328.

• The app is in the older integration format (available from the AppExchange as a zip file which contains a tar.gz file).

- Integration server is running resilient_circuits>=35.0.0, <v39.0.0.
- If using an API key account, make sure the account provides the following minimum permissions:

Name	Permissions
Org Data	Read
Function	Read
incident	create
all incidents	Read

The following Resilient platform guides provide additional information:

- App Host Deployment Guide: provides installation, configuration, and troubleshooting information, including proxy server settings.
- Integration Server Guide: provides installation, configuration, and troubleshooting information, including proxy server settings.
- System Administrator Guide: provides the procedure to install, configure and deploy apps.

The above guides are available on the IBM Knowledge Center at ibm.biz/resilient-docs. On this web page, select your Resilient platform version. On the follow-on page, you can find the *App Host Deployment Guide* or *Integration Server Guide* by expanding **Resilient Apps** in the Table of Contents pane. The System Administrator Guide is available by expanding **System Administrator**.

Cloud Pak for Security

If you are deploying to IBM Cloud Pak for Security, the requirements are:

- IBM Cloud Pak for Security >= 1.4.
- Cloud Pak is configured with an App Host.
- The app is in a container-based format (available from the AppExchange as a zip file).

The following Cloud Pak guides provide additional information:

- App Host Deployment Guide: provides installation, configuration, and troubleshooting information, including proxy server settings. From the Table of Contents, select Case Management and Orchestration & Automation > Orchestration and Automation Apps.
- System Administrator Guide: provides information to install, configure, and deploy apps. From the IBM Cloud Pak for Security Knowledge Center table of contents, select Case Management and Orchestration & Automation > System administrator.

These guides are available on the IBM Knowledge Center at ibm.biz/cp4s-docs. From this web page, select your IBM Cloud Pak for Security version. From the version-specific Knowledge Center page, select Case Management and Orchestration & Automation.

Proxy Server

The app does support a proxy server.

Installation

Install

• To install or uninstall an App or Integration on the *Resilient platform*, see the documentation at ibm.biz/resilient-docs.

• To install or uninstall an App on *IBM Cloud Pak for Security*, see the documentation at ibm.biz/cp4s-docs and follow the instructions above to navigate to Orchestration and Automation.

App Configuration

The following table provides the settings you need to configure the app. These settings are made in the app.config file. See the documentation discussed in the Requirements section for the procedure.

Config	Required	Example	Description
aws_gd_access_key_id	Yes	ABCD1EFGHI2JK3L4MNOP	Enter a description of the config here.
aws_gd_secret_access_key	Yes	aBcdeFGH/iJkl1MNo2P3Q4rs5tuV6wXYZAbc+Def	Enter a description of the config here.
aws_gd_master_region	Yes	us-west-1	Default or master region for the integration.
aws_gd_regions	Yes	"^us.*"	Filter by GuardDuty region names. Can be a string or regular expression.
aws_gd_regions_interval	Yes	60	Interval to refresh regions information (in minutes).
aws_gd_polling_interval	Yes	15	Interval to poll Guardduty for findings (in minutes).

Config	Required	Example	Description
aws_gd_severity_threshold	No	7	Severity threshold (int) to use in criterion to filter findings.
aws_gd_lookback_interval	No	60	How long, (in minutes) to check back for previous findings at startup. Filter to process only more recent findings.
aws_gd_close_incident_template	No		User defined JSON template file to use for closing Resilient incidents.
http_proxy	No	http://proxy:80	Optional setting for an http proxy if required.
https_proxy	No	https://proxy:443	Optional setting for an https proxy if required.

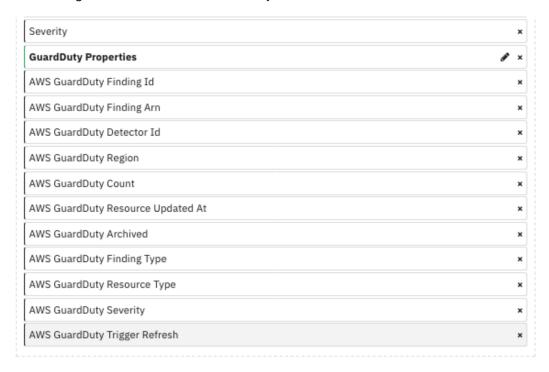
Custom Layouts

Import the Data Tables and Custom Fields as shown in the screenshot below.

Configure the Incident Details tab layout to display the AWS GuardDuty information as follows:

- 1. Navigate to the 'Customization Settings' and select the Layouts tab.
- 2. Click on 'Incident Tabs'.
- 3. Create new heading 'AWS GuardDuty Properties' in the Details tab.
- 4. Drag and Drop the GuardDuty custom properties under the new heading.

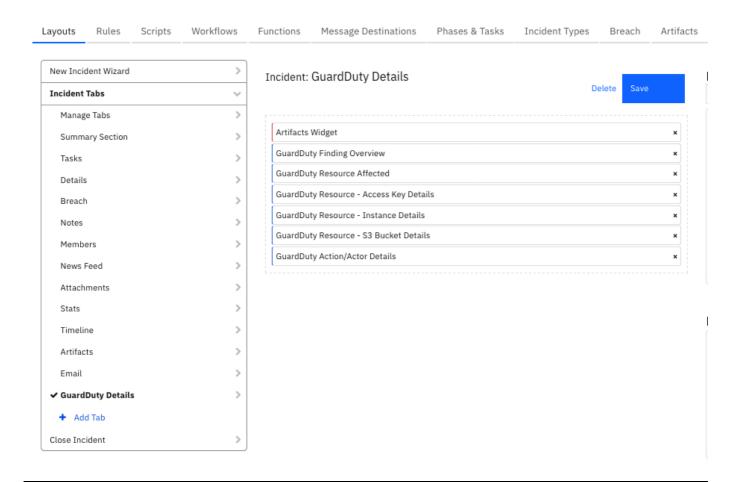
The following screenshot shows the GuardDuty fields added to the Details tab.



- 5. Add a new incident tab named 'AWS GuardDuty Details'.
- 6. Drag and drop the GuardDuty data tables under the new tab.
- 7. Click Save.

The following screenshot shows the GuardDuty data tables added to the GuardDuty tab:

Customization Settings



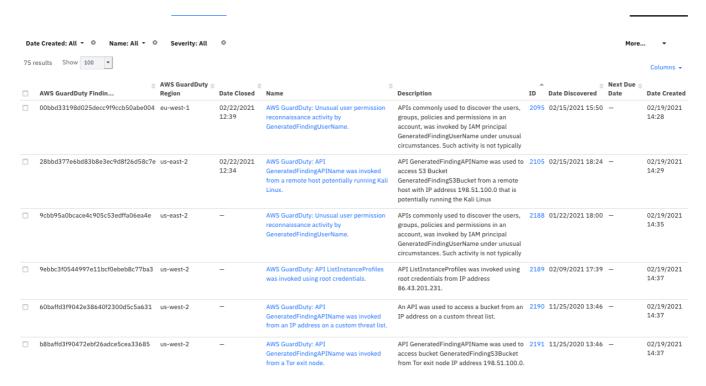
Poller - AWS GUARDDUTY: Escalate Findings

The GuardDuty integration poller starts querying GuardDuty for findings as soon as the app begins running.

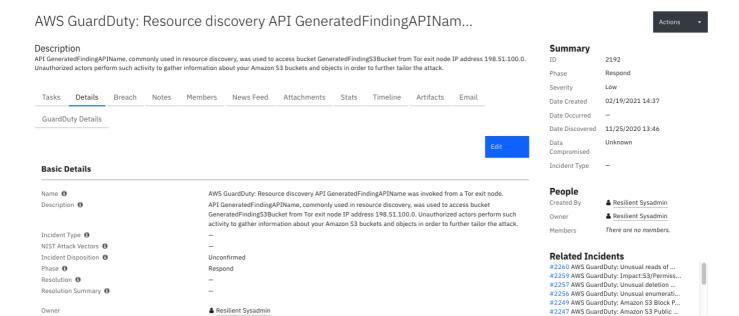
The poller provide the following functionality.

- For any new findings discovered, creates a matching incident in the Resilient platform.
- Enhances the incidents by adding artifacts, data tables and a note with data from the findings. The note includes the JSON content of the finding.
- Can be configured to filter the findings, which are escalated to the Resilient incidents.
- · Closes Resilient incidents if the corresponding GuardDuty findings are archived.
- · Archives GuardDuty findings if the corresponding Resilient incidents are closed.
- Triggers a refresh of GuardDuty information for a Resilient incident if the corresponding GuardDuty finding is updated.

The following screenshot shows examples of Resilient incidents created by the poller from GuardDuty findings:



The following screenshot shows an example of a Resilient incident Details tab created by the poller:

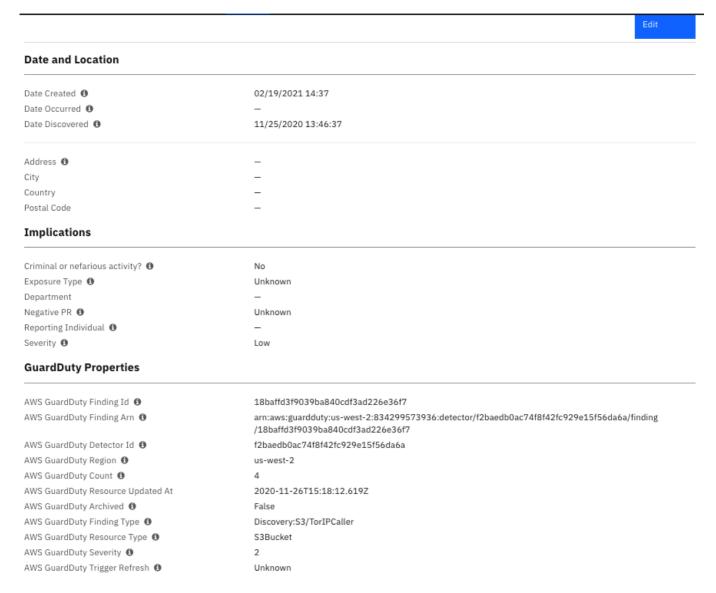


The following screenshot shows an example of GuardDuty finding custom properties in the Details tab of a Resilient incident created by the poller:

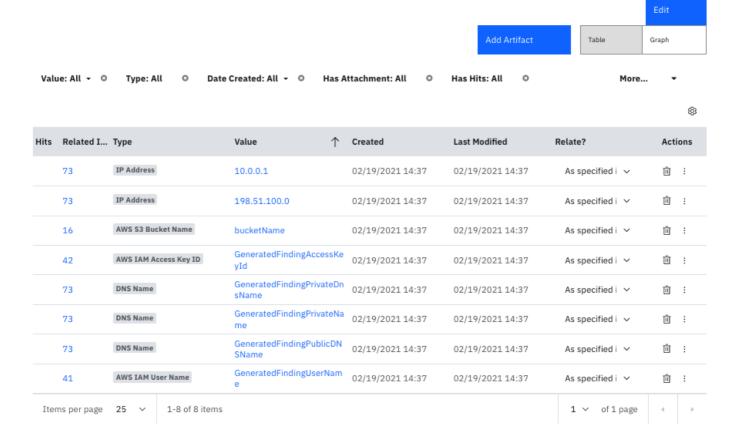
#2246 AWS GuardDuty: Amazon S3 Block P...

& Resilient Sysadmin

Created By



The following screenshot shows examples of artifacts added to a Resilient incident created by the poller:



The following screenshot shows an example of a note added to a Resilient incident created by the poller:

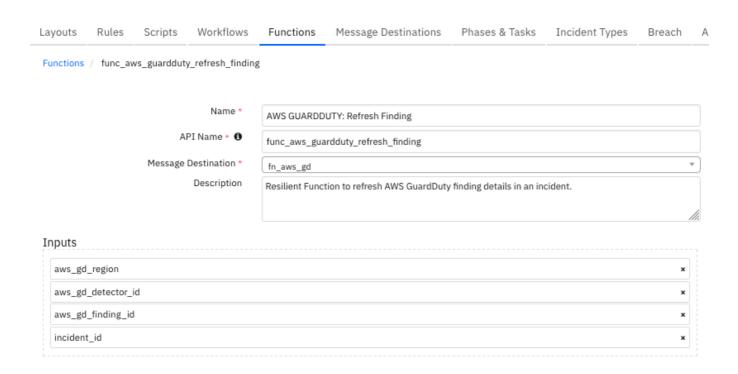
```
& Resilient Sysadmin added a note to the Incident 02/19/2021 14:37
                                                                                                                                                    / h 📋 🗄
AWS GuardDuty finding Payload:
{ 'AccountId': '834299573936',
 'Arn': 'arn:aws:guardduty:us-west-2:834299573936:detector/f2baedb0ac74f8f42fc929e15f56da6a/finding/18baffd3f9039ba840cdf3ad226e36f7',
 'CreatedAt': '2020-11-25T13:46:37.959Z'.
  'Description': 'API GeneratedFindingAPIName, commonly used in resource '
         'discovery, was used to access bucket'
          'GeneratedFindingS3Bucket from Tor exit node IP address'
         '198.51.100.0. Unauthorized actors perform such activity to '
          'gather information about your Amazon S3 buckets and '
          'objects in order to further tailor the attack.',
 'Id': '18baffd3f9039ba840cdf3ad226e36f7',
  'Partition': 'aws',
 'Region': 'us-west-2',
  'Resource': { 'AccessKeyDetails': { 'AccessKeyId': 'GeneratedFindingAccessKeyId',
                      'PrincipalId': 'GeneratedFindingPrincipalId',
                       'UserName': 'GeneratedFindingUserName',
                      'UserType': 'IAMUser'},
          'InstanceDetails': { 'AvailabilityZone': 'GeneratedFindingInstaceAvailabilityZone',
                      'IamInstanceProfile': { 'Arn': 'arn:aws:iam::834299573936:example/instance/profile',
                                   'Id': 'GeneratedFindingInstanceProfileId'},
                      'ImageDescription': 'GeneratedFindingInstaceImageDescription',
                      'ImageId': 'ami-99999999',
                      'InstanceId': 'i-99999999'.
                      'InstanceState': 'running',
                      'InstanceType': 'm3.xlarge',
                      'LaunchTime': '2016-08-02T02:05:06Z',
                      'NetworkInterfaces': [ { 'Ipv6Addresses': [ ],
                                     'NetworkInterfaceId': 'eni-bfcffe88',
                                     'PrivateDnsName': 'GeneratedFindingPrivateDnsName',
                                     'PrivateIpAddress': '10.0.0.1',
                                      'PrivateIpAddresses': [ { 'PrivateDnsName': 'GeneratedFindingPrivateName',
                                                     'PrivateIpAddress': '10.0.0.1'}],
                                     'PublicDnsName': 'GeneratedFindingPublicDNSName',
                                     'PublicIp': '198.51.100.0'.
                                      'SecurityGroups': [ { 'GroupId': 'GeneratedFindingSecurityId',
                                                   'GroupNama': 'GanaratadEindindSacurityGrou
```

Note: See the data tables section for examples of data tables added by the poller.

Function - AWS GUARDDUTY: Refresh Finding

Resilient function to refresh AWS GuardDuty finding details in an incident.

Customization Settings



The function provides the following functionality.

- Updates incident fields such as the aws_guardduty_count, aws_guardduty_finding_updated_at and aws_guardduty_severity.
- · Refreshes all related data tables of the Resilient incident.
- Adds new or missing artifacts discovered in the GuardDuty finding.
- Adds two notes to the Resilient incident. One of the notes includes the JSON refreshed content of the finding.

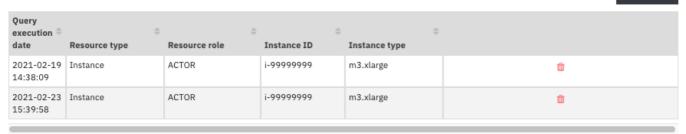
The following screenshot shows an example of data tables updated by the function:

GuardDuty Finding Overview



Displaying 1 - 2 of 2

GuardDuty Resource Affected



Displaying 1 - 2 of 2

The following screenshot shows an example of notes added to a Resilient incident created by the poller:

```
Resilient Sysadmin added a note to the Incident 02/23/2021 15:40
                                                                                                                                                      †
                                                                                                                                                               :
AWS GuardDuty Integration: Workflow Example: AWS GuardDuty: Refresh Finding: Finding data returned for Resilient function
func_aws_guardduty_refresh_finding
Resilient Sysadmin added a note to the Incident 02/23/2021 15:39
                                                                                                                                                   / h 📋 🗄
AWS GuardDuty finding Payload for refresh:
{ 'AccountId': '834299573936',
  'Arn': 'arn:aws:guardduty:us-west-2:834299573936:detector/f2baedb0ac74f8f42fc929e15f56da6a/finding/32baffd3f90387cc1097fdf9a63469d7',
  'CreatedAt': '2020-11-25T13:46:37.959Z',
  'Description': 'EC2 instance i-99999999 is behaving in a manner that may '
          'indicate it is being used to perform a Denial of Service
          '(DoS) attack using UDP protocol.',
  'Id': '32baffd3f90387cc1097fdf9a63469d7',
  'Partition': 'aws',
  'Region': 'us-west-2',
  'Resource': { 'InstanceDetails': { 'AvailabilityZone': 'GeneratedFindingInstaceAvailabilityZone',
                      'IamInstanceProfile': { 'Arn': 'arn:aws:iam::834299573936:example/instance/profile',
                                    'Id': 'GeneratedFindingInstanceProfileId'},
                      'ImageDescription': 'GeneratedFindingInstaceImageDescription',
                      'ImageId': 'ami-99999999',
                      'InstanceId': 'i-99999999'.
                      'InstanceState': 'running',
                      'InstanceType': 'm3.xlarge',
                      'LaunchTime': '2016-08-02T02:05:06Z',
                      'NetworkInterfaces': [ { 'Ipv6Addresses': [ ],
                                     'NetworkInterfaceId': 'eni-bfcffe88',
                                     'PrivateDnsName': 'GeneratedFindingPrivateDnsName',
                                     'PrivateIpAddress': '10.0.0.1',
                                     'PrivateIpAddresses': [ { 'PrivateDnsName': 'GeneratedFindingPrivateName',
                                                     'PrivateIpAddress': '10.0.0.1'}],
                                     'PublicDnsName': 'GeneratedFindingPublicDNSName',
                                     'PublicIp': '198.51.100.0',
                                     'SecurityGroups': [ { 'GroupId': 'GeneratedFindingSecurityId',
                                                   'GroupName': 'GeneratedFindingSecurityGroupName'}],
                                     'SubnetId': 'GeneratedFindingSubnetId',
                                      'VpcId': 'GeneratedFindingVPCId'}],
                      'OutpostArn': 'arn:aws:outposts:us-west-2:123456789000:outpost/op-0fbc006e9abbc73c3',
                      'ProductCodes': [{}],
                      'Tags': [ { 'Key': 'GeneratedFindingInstaceTag1',
                               'Value': 'GeneratedFindingInstaceValue1'},
                            { 'Key': 'GeneratedFindingInstaceTag2',
                               'Value': 'GeneratedFindingInstaceTagValue2'},
                            { 'Kev': 'GeneratedFindingInstaceTag3'
```

► Inputs:

Name	Type	Required	Example	Tooltip
aws_gd_detector_id	text	No	_	AWS GuardDuty detector ID.
aws_gd_finding_id	text	No	_	AWS GuardDuty finding ID.
aws_gd_region	text	No	_	AWS GuardDuty region.
incident_id	number	No	_	Resilient incident ID.

► Outputs:

```
results = {
    # TODO: Copy and paste an example of the Function Output within this code
block.
    # To view the output of a Function, run resilient-circuits in DEBUG mode and
invoke the Function.
    # The Function results will be printed in the logs: "resilient-circuits run ---
loglevel=DEBUG"
}
```

► Example Pre-Process Script:

```
inputs.aws_gd_region = incident.properties.aws_guardduty_region
inputs.aws_gd_detector_id = incident.properties.aws_guardduty_detector_id
inputs.aws_gd_finding_id = incident.properties.aws_guardduty_finding_id
inputs.incident_id = incident.id
```

► Example Post-Process Script:

```
## wf_aws_guardduty_refresh_finding ##
# Example result:
Result: { 'version': '1.0',
          'success': True,
          'reason': None,
          'content': {'payload': {'name': 'AWS GuardDuty: API
GeneratedFindingAPIName was invoked from an IP address on a custom threat list.',
                                  'description': {'format': 'text', 'content': 'An
API was used to access a bucket from an IP address on a custom threat list.'},
                                  'discovered_date': '2020-11-25T13:46:37.960Z',
                                  'severity_code': 'Low',
                                   'properties': {'aws_guardduty_finding_id':
'60baffd3f9042e38640f2300d5c5a631',
                                                  'aws_guardduty_finding_arn':
'arn:aws:guardduty:us-west-
2:834299573936:detector/f2baedb0ac74f8f42fc929e15f56da6a/finding/60baffd3f9042e386
40f2300d5c5a631',
                                                  'aws quardduty finding type':
'UnauthorizedAccess:S3/MaliciousIPCaller.Custom',
'aws_guardduty_finding_updated_at': '2020-11-26T15:18:12.620Z',
'aws_guardduty_region': 'us-west-2',
```

```
'aws_guardduty_resource_type':
'S3Bucket', 'aws quardduty count': 4,
                                                  'aws_guardduty_detector_id':
'f2baedb0ac74f8f42fc929e15f56da6a'}.
                                   'artifacts': [],
                                  'comments': [{'text': {'format': 'text',
'content': "AWS GuardDuty finding Payload:\n<FINDING_PAYLOAD_AS_STRING>"}}]
                      "data_tables": {"gd_action_details": [{"cells":
{"action_type": {"value": "AWS_API_CALL"},
                                                              "action api":
{"value": "GeneratedFindingAPIName"},
                                                              "event first seen":
{"value": "2020-11-25T13:46:37.960Z"},
                                                             "event_last_seen":
{"value": "2020-11-26T15:18:12.620Z"},
                                                             "actor_caller_type":
{"value": "Remote IP"}, "city name": {"value": "GeneratedFindingCityName"},
"country_name": {"value": "GeneratedFindingCountryName"}, "asn": {"value": "-1"},
"asn_org": {"value": "GeneratedFindingASNOrg"}, "isp": {"value":
"GeneratedFindingISP"}, "org": {"value": "GeneratedFindingORG"},
"action_service_name": {"value": "GeneratedFindingAPIServiceName"}, "remote_ip":
{"value": "198.51.100.0"}}}],
                                     "gd resource affected": [{"cells":
{"resource_type": {"value": "S3Bucket"}, "instance_id": {"value": "i-99999999"},
"instance_type": {"value": "m3.xlarge"}, "instance_state": {"value": "running"},
"resource_role": {"value": "TARGET"}, "instance_private_ip": {"value":
"10.0.0.1"}, "instance_private_dns": {"value": "GeneratedFindingPrivateName"},
"instance_public_ip": {"value": "198.51.100.0"}, "instance_public_dns": {"value":
"GeneratedFindingPublicDNSName"}, "s3bucket_name": {"value": "bucketName"},
"s3bucket_owner": {"value": "CanonicalId of Owner"}}}]
                      }}',
            'inputs': {'incident id': 2168, 'aws gd finding id':
'60baffd3f9042e38640f2300d5c5a631',
                       'aws_gd_region': 'us-west-2', 'aws_gd_detector_id':
'f2baedb0ac74f8f42fc929e15f56da6a'},
            'metrics': {'version': '1.0', 'package': 'fn-aws-guardduty',
'package_version': '1.0.0',
                        'host': 'Johnp-MacBook-Pro-2.galway.ie.ibm.com',
'execution_time_ms': 10739,
                        'timestamp': '2021-01-18 16:51:10'}
}
.....
# Globals
# List of fields in datatable for wf_aws_guardduty_refresh_finding script
DATA_TABLES = ["gd_action_details", "gd_resource_affected"]
FN_NAME = "func_aws_guardduty_refresh_finding"
WF NAME = "Example: AWS GuardDuty: Refresh Finding"
# Resilient artifact names to api names.
ARTIFACT_API_TO_TYPE = {
    "aws_iam_access_key_id": "AWS IAM Access Key ID",
    "aws_iam_user_name": "AWS IAM User Name",
    "aws_s3_bucket_name": "AWS S3 Bucket Name",
   "IP Address": "IP Address",
    "DNS Name": "DNS Name",
    "Port": "Port"
}
```

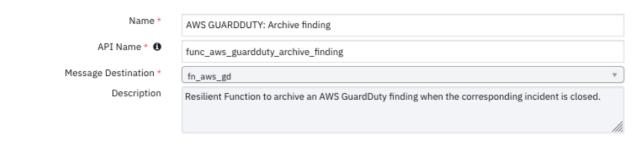
```
CONTENT = results.content
QUERY EXECUTION DATE = results["metrics"]["timestamp"]
if CONTENT:
    FINDING = CONTENT.finding
    PAYLOAD = CONTENT.payload
    ARTIFACTS = PAYLOAD.artifacts
    DATA TABLES = CONTENT.data tables
# Processing
def main():
   note_text = ''
    if CONTENT:
        note_text = "AWS GuardDuty Integration: Workflow <b>{0}</b>: Finding data
returned for Resilient function " \
                    "<b>{2}</b>".format(WF_NAME, len(CONTENT), FN_NAME)
        update_fields()
        update datatables()
        if ARTIFACTS:
            add_artifacts()
    else:
        note_text = "AWS GuardDuty Integration: Workflow <b>{0}</b>: No finding
data returned for Resilient function " \
                    "<b>{2}</b>".format(WF_NAME, len(CONTENT), FN_NAME)
    incident.addNote(helper.createRichText(note_text))
def update_fields():
    incident.severity code = PAYLOAD["severity code"]
    incident.properties.aws_guardduty_finding_updated_at = PAYLOAD["properties"]
["aws_guardduty_finding_updated_at"]
    incident.properties.aws_guardduty_count = str(PAYLOAD["properties"]
["aws_guardduty_count"])
    incident.properties.aws_guardduty_archived = str(PAYLOAD["properties"]
["aws_guardduty_archived"])
    incident.properties.aws_guardduty_severity = str(PAYLOAD["properties"]
["aws_guardduty_severity"])
def update datatables():
    for data_table in DATA_TABLES:
        for row in DATA_TABLES[data_table]:
            newrow = incident.addRow(data_table)
            newrow.guery execution date = QUERY EXECUTION DATE
            data table fields = row["cells"]
            for f, v_info in data_table_fields.items():
                newrow[f] = v_info.value
def add artifacts():
    for artifact in ARTIFACTS:
        artifact_type = ARTIFACT_API_TO_TYPE[artifact["type"]["name"]]
        artifact_value = artifact["value"]
        description = artifact["description"]["content"]
        incident.addArtifact(artifact type, artifact value, description)
if __name__ == "__main__":
```

main()

Function - AWS GUARDDUTY: Archive finding

Resilient function to archive an AWS GuardDuty finding when the corresponding incident is closed.

Functions / func_aws_guardduty_archive_finding



Inputs



The function provides the following functionality.

- When a Resilient incident corresponding to a GuardDuty find is closed, an automatic rule Example: AWS
 GuardDuty: Archive Finding is triggered which executes the function.
- Archives the related GuardDuty finding.
- · Adds a note to the Resilient incident.

The following screenshot shows an example of a note added to a Resilient incident created by the function:

AWS IAM Integration: Workflow Example: AWS GuardDuty: Archive Finding: The finding with id 00bbd33198d025decc9f9ccb50abe004 and detector id 08bbd32fa5611be6536217f2e4711b3f in region eu-west-1 was successfully archived for Resilient function func_aws_guardduty_archive_finding

► Inputs:

Name	Type	Required	Example	Tooltip
aws_gd_detector_id	text	No	_	AWS GuardDuty detector ID.
aws_gd_finding_id	text	No	_	AWS GuardDuty finding ID.
aws_gd_region	text	No	_	AWS GuardDuty region.

▶ Outputs:

```
results = {
    # TODO: Copy and paste an example of the Function Output within this code
block.
    # To view the output of a Function, run resilient-circuits in DEBUG mode and
invoke the Function.
```

```
# The Function results will be printed in the logs: "resilient-circuits run --
loglevel=DEBUG"
}
```

► Example Pre-Process Script:

```
inputs.aws_gd_region = incident.properties.aws_guardduty_region
inputs.aws_gd_detector_id = incident.properties.aws_guardduty_detector_id
inputs.aws_gd_finding_id = incident.properties.aws_guardduty_finding_id
```

▶ Example Post-Process Script:

```
## wf_aws_guardduty_refresh_finding ##
# Example result:
.....
Good
Result: {'version': '1.0', 'success': True, 'reason': None,
         'content': {'status': 'ok'},
         'raw': '{"status": "ok"}',
         'inputs': {'aws_gd_finding_id': 'c2bb95a17b879bffc96c58f8a1689785',
'aws gd region': 'us-east-2',
                     'aws_gd_detector_id': '32b7017d2019dfe922abc4e07c3fdded'
                    },
         'metrics': {'version': '1.0', 'package': 'fn-aws-guardduty',
'package_version': '1.0.0',
         'host': 'myhost.ibm.com', 'execution time ms': 1310, 'timestamp': '2021-
01-28 11:31:30'
        }
}
Error:
Result: {'version': '1.0', 'success': True, 'reason': None,
         'content': {'status': 'error',
                      'msg': 'An error occurred (BadRequestException) when calling
the ArchiveFindings operation:
                     The request is rejected because the input detectorId is not
owned by the current account.'},
                     'raw': '<content_as_string>',
         'inputs': {'aws_gd_finding_id': 'c2bb95a17b879bffc96c58f8a1689784',
'aws_gd_region': 'us-east-2',
                     'aws_gd_detector_id': '32b7017d2019dfe922abc4e07c3fdfff'
         'metrics': {'version': '1.0', 'package': 'fn-aws-guardduty',
'package_version': '1.0.0',
         'host': 'myhost.ibm.com', 'execution_time_ms': 1446, 'timestamp': '2021-
01-28 11:34:53'
        }
}
\mathbf{n}
# Globals
FN_NAME = "func_aws_guardduty_archive_finding"
WF_NAME = "Example: AWS GuardDuty: Archive Finding"
# Resilient artifact names to api names.
# Processing
```

```
# Processing
CONTENT = results.content
INPUTS = results.inputs
QUERY EXECUTION DATE = results["metrics"]["timestamp"]
# Processing
def main():
    note text = ''
    if CONTENT:
        if CONTENT["status"] == "ok":
            note text = "AWS IAM Integration: Workflow <b>{0}</b>: The finding
with id <b>{1}</b> and detector id " \
                        "<b>{2}</b> in region <b>{3}</b> was successfully archived
for Resilient function <b>{4}</b>"\
                .format(WF_NAME, INPUTS["aws_gd_finding_id"],
INPUTS["aws_gd_detector_id"], INPUTS["aws_gd_region"], FN_NAME)
            # Update archived property.
            incident.properties.aws_guardduty_archived = "True"
        elif CONTENT["status"] == "error":
            note_text = "AWS IAM Integration: Workflow <b>{0}</b>: The finding
with id <b>{1}</b> and detector id " \
                        "<b>{2}</b> in region <b>{3}</b> failed archive with error
<b>{4}</b> for Resilient function <b>{5}</b>"\
                .format(WF_NAME, INPUTS["aws_gd_finding_id"],
INPUTS["aws_gd_detector_id"], INPUTS["aws_gd_region"],
                        CONTENT["msg"], FN_NAME)
        else:
            note_text = "AWS IAM Integration: Workflow <b>{0}</b>: The finding
with id <b>{1}</b> and detector id " \
                        "<b>{2}</b> in region <b>{3}</b> got unexpected status <b>
{4}</b> for Resilient function <b>{5}</b>" \
                .format(WF_NAME, INPUTS["aws_gd_finding_id"],
INPUTS["aws_gd_detector_id"], CONTENT["status"], INPUTS["aws_gd_region"],
                        FN_NAME)
    else:
        note_text += "AWS IAM Integration: Workflow <b>{0}</b>: There was no
result returned for Resilient function <b>{0}</b>"\
            .format(WF_NAME, FN_NAME)
    incident.addNote(helper.createRichText(note_text))
if __name__ == "__main__":
    main()
```

Data Table - GuardDuty Finding Overview



API Name:

gd_finding_overview

Columns:

Column Name	API Access Name	Туре	Tooltip
Account ID	account_id	text	-
Count	count	text	-
Created at	created_at	text	-
Query Execution date	query_execution_date	text	-
Region	region	text	-
Resource ID	resource_id	text	-
Severity	severity	text	-
Updated at	updated_at	text	-

Data Table - GuardDuty Resource Affected



API Name:

gd_resource_affected

Columns:

Column Name	API Access Name	Туре	Tooltip
Instance ID	instance_id	text	-
Instance type	instance_type	text	-
Query execution date	query_execution_date	text	-

Column Name	API Access Name	Туре	Tooltip
Resource role	resource_role	text	-
Resource type	resource_type	text	-

Data Table - GuardDuty Resource - Instance Details



API Name:

gd_instance_details

Columns:

Column Name	API Access Name	Туре	Tooltip
ID	instance_id	text	-
State	instance_state	text	-
Private dns name	private_dns_name	text	-
Private ip address	private_ip	text	-
Public dns name	public_dns_name	text	-
Public ip address	public_ip	text	-
Query execution date	query_execution_date	text	-
Туре	type	text	-

Data Table - GuardDuty Resource - Access Key Details



API Name:

gd_access_key_details

Columns:

Column Name	API Access Name	Type	Tooltip
Access key ID	access_key_id	text	-
Principal ID	principal_id	text	-
Query Execution date	query_execution_date	text	-
User name	user_name	text	-
User type	user_type	text	-

Data Table - GuardDuty Resource - S3 Bucket Details



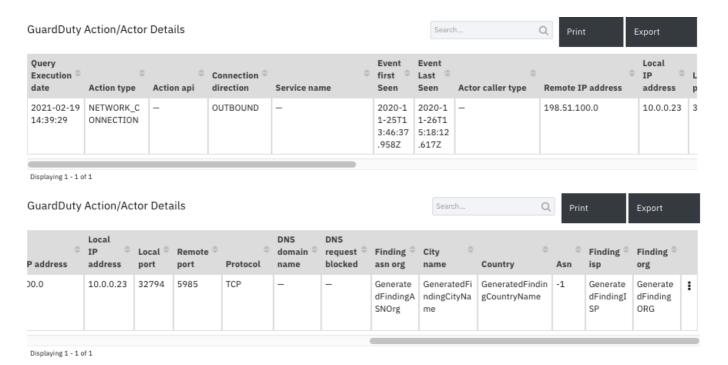
API Name:

gd_s3_bucket_details

Columns:

Column Name	API Access Name	Type	Tooltip
Bucket Arn	bucket_arn	text	-
Bucket name	bucket_name	text	-
Bucket owner	bucket_owner	text	-
Bucket Type	bucket_type	text	-
Effective Permission	effective_permissions	text	-
Encryption type	encryption_type	text	-
Kms master key ARN	kms_master_key_arn	text	-
Query execution date	query_execution_date	text	-

Data Table - GuardDuty Action/Actor Details



API Name:

gd_action_details

Columns:

Column Name	API Access Name	Туре	Tooltip
Action api	action_api	text	-
Action type	action_type	text	-
Actor caller type	actor_caller_type	text	-
Asn	asn	text	-
Finding asn org	asn_org	text	-
City name	city_name	text	-
Connection direction	connection_direction	text	-
Country	country_name	text	-
DNS request blocked	dns_blocked	text	-
DNS domain name	dns_domain_name	text	-
Event first Seen	event_first_seen	text	-
Event Last Seen	event_last_seen	text	-
Finding isp	isp	text	-
Local IP address	local_ip	text	-
Local port	local_port	text	-
Finding org	org	text	-
Protocol	protocol	text	-

Column Name	API Access Name	Туре	Tooltip
Query Execution date	query_execution_date	text	-
Remote IP address	remote_ip	text	-
Remote port	remote_port	text	-
Service name	service_name	text	-

Custom Fields

Label	API Access Name	Туре	Prefix	Placeholder	Tooltip
AWS GuardDuty Finding Arn	aws_guardduty_finding_arn	text	properties	-	Arn of the GuardDuty finding.
AWS GuardDuty Resource Updated At	aws_guardduty_finding_updated_at	text	properties	The last time this finding was updated with new activity matching the pattern that prompted GuardDuty to generate this finding.	-
AWS GuardDuty Resource Type	aws_guardduty_resource_type	text	properties	-	The type of the affected resource of the GuardDuty finding. This value is either AccessKey, S3 bucket or Instance.

Label	API Access Name	Туре	Prefix	Placeholder	Tooltip
AWS GuardDuty Finding Id	aws_guardduty_finding_id	text	properties	-	A unique Finding ID for this GuardDuty finding type and set of parameters. New occurrences of activity matching this pattern will be aggregated to the same ID.
AWS GuardDuty Region	aws_guardduty_region	text	properties	-	The AWS Region in which the GuarDuty finding was generated.
AWS GuardDuty Archived	aws_guardduty_archived	text	properties	_	A true or false value that indicates whether this is GuardDuty finding has been archived.
AWS GuardDuty Detector Id	aws_guardduty_detector_id	text	properties	-	The detector ID where the GuardDuty finding was detected.

Label	API Access Name	Туре	Prefix	Placeholder	Tooltip
AWS GuardDuty Count	aws_guardduty_count	text	properties	-	The number of times GuardDuty has aggregated an activity matching this pattern to this finding ID.
AWS GuardDuty Trigger Refresh	aws_guardduty_trigger_refresh	boolean	properties	False	Used by integration to trigger an refresh of GuarDuty incidents.
AWS GuardDuty Finding Type	aws_guardduty_finding_type	text	properties	-	The type of activity that triggered the GuardDuty finding.

Custom Artifact Types

Display Name	API Access Name	Description
AWS S3 Bucket Name	aws_s3_bucket_name	Amazon Web Services (AWS) S3 bucket name.
AWS IAM Access Key ID	aws_iam_access_key_id	Amazon Web Services (AWS) IAM access key id.
AWS IAM User Name	aws_iam_user_name	Amazon Web Services (AWS) IAM user name.

Rules

Rule Name	Object	Workflow Triggered
Example: AWS GuardDuty: Refresh Finding Details	incident	wf_aws_guardduty_refresh_finding
Example: AWS GuardDuty: Archive Finding	incident	wf_aws_guardduty_archive_finding
Example: AWS GuardDuty: Update Finding Details	incident	wf_aws_guardduty_refresh_finding

Troubleshooting & Support

Refer to the documentation listed in the Requirements section for troubleshooting information.

For Support

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