

Guardium Insights Integration

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Release Notes

Version	Date	Notes
1.0.0	08/2021	Initial Release

Overview

Resilient Circuits Components for 'fn_guardium_insights_integration'

This Resilient component support Guardium Insights version >= 3.0.

Resilient Dashboards ▾ Inbox Incidents Create ▾

Customization Settings

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

Rules

Guardium Insights

Order	Rule Name	Process Type	Object Type	Conditions
36	Guardium Insights populate breach data types	Automatic	Incident	Incident is created
-	Guardium Insights Block User	Menu Item	Incident	Guardium Insights Event ID
-	Guardium Insights classification report data	Menu Item	Incident	Guardium Insights Event ID

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Resilient Circuits Components for 'fn_guardium_insights_integration'

Key Features

- Automatic Resilient incident's creation based on realtime anomalies generated in Guardium Insights.
- Block a specifiec user from Resilient

- Generate classification report
- Automatically populate the breach data types based on classification report data.
- Automatically create artifacts based on anomalies data in each created incident.
- Enrich who, what, when, where information for each created incidents.

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 > 36.0.5634.
- 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 > 36.0.5634.
- 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>=37.0.0](#).
- If using an API key account, make sure the account provides the following minimum permissions:

Name	Permissions
Org Data	Read
Function	Read
Incident	Create, Read, Edit Member
Incident fields, Artifacts, Attachments, Milestones, Datatables	Edit
Notes	Edit

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. proxy server configuration should be done via app.configuration file.

Python Environment

Both Python 2.7 and Python 3.6 are supported. Additional package dependencies may exist for each of these packages:

- resilient_circuits>=37.0.0
- resilient_lib>=37.0.0
- resilient>=37.0.0
- circuits>=3.2
- six>=1.15.0
- requests>=2.25.0
- pytz>=2020.5

Installation**App Host**

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_guardium_insights_integration-x.x.x.zip.
- Go to the Configuration tab and edit the app.config file, editing the url, access credentials, etc.

Config	Required	Example	Description
datatable_id	Yes	<i>guardium_insights_classification_report</i>	*Resilient data table to hold classification
report data*			
insights_host	Yes	``	<i>Guardium Insights IP/DNS</i>
rest_service_port	Yes	<i>8443</i>	<i>Guardium Insights Restful Service port, By Default 8443</i>
insights_encoded_token	Yes	``	<i>Guardium Insights Restful service API Key Configuration.</i>
analytics_poll_time	Yes	``	*Periodic time interval to fetch anomalies from GI, poll time should be
configured in seconds.*			
report_period	yes	<i>Now minus 7 days</i>	*classification report period, to populate breach data types data.

Config	Required	Example	Description
values can be <code>Now</code> <code>minus 3 hours,Now</code> <code>minus 24 hours,Now</code> <code>minus 7 days,Now</code> <code>minus 14 days*</code>			
report_fetch_size	yes	500	Maximum classification report records size.
incident_member	Yes	``	Incident member to be added, for new created anomaly incidents. value can be group name, individual user account. If multiple value specified each should be separated by comma ex: user@domain.com, group_name.
proxy	Yes	``	Guardium http/https proxy server address, leave blank for no proxy.
insights_ca_file	Yes	false	Mention certificate path for SSL/TSL. Default Disabled.
enable_firewall_auth	Yes	false	false - disable firewall authentication, true - enable firewall authentication.
bso_ip	Yes	``	Firewall Server IP Address.
bso_user	Yes	``	Firewall Auth User Name, should be given if <code>enable_firewall_auth=true</code> .
bso_password	Yes	``	Firewall Auth Password, should be given if <code>enable_firewall_auth=true</code> .

Integration Server

- Download the `app-fn_guardium_insights_integration-x.x.x.zip`.
- Copy the `.zip` to your Integration Server and SSH into it.
- **Unzip** the package:

```
$ unzip app-fn_guardium_insights_integration-x.x.x.zip
```

- **Install** the package:

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

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

```
$ resilient-circuits config -u
```

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

```
$ resilient-circuits customize -y -l fn-guardium-insights-integration
```

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

```
$ nano ~/.resilient/app.config
```

App Configuration

Config	Required	Example	Description
datatable_id	Yes	<code>guardium_insights_classification_report</code>	*Resilient data table to hold classification
report data*			
insights_host	Yes	<code>``</code>	<i>Guardium Insights IP/DNS</i>
rest_service_port	Yes	<code>8443</code>	<i>Guardium Insights Restful Service port, By Default 8443</i>
insights_encoded_token	Yes	<code>``</code>	<i>Guardium Insights Restful service API Key Configuration.</i>
analytics_poll_time	Yes	<code>``</code>	*Periodic time interval to fetch anomalies from GI, poll time should be
configured in seconds.*			
report_period	yes	<code>Now minus 7 days</code>	<i>classification report period, to populate breach data types data. values can be <code>Now minus 3 hours</code>, <code>Now minus 24 hours</code>, <code>Now minus 7 days</code>, <code>Now minus 14 days</code></i>
report_fetch_size	yes	<code>500</code>	<i>Maximum classification report records size.</i>
incident_member	Yes	<code>``</code>	<i>Incident member to be added, for new created anomaly incidents. value can be group name, individual user account. If multiple value specified each should be separated by comma ex: <code>user@domain.com</code>, <code>group_name</code>.</i>
proxy	Yes	<code>``</code>	<i>Guardium http/https proxy server address, leave blank for no proxy.</i>
insights_ca_file	Yes	<code>false</code>	<i>Mention certificate path for SSL/TSL. Default Disabled.</i>
enable_firewall_auth	Yes	<code>false</code>	*false - disable firewall authentication, true - enable firewall

Config	Required	Example	Description
authentication.*			
bso_ip	Yes	` `	Firewall Server IP Address.
bso_user	Yes	` `	Firewall Auth User Name, should be given if <i>enable_firewall_auth=true.</i>
bso_password	Yes	` `	Firewall Auth Password, should be given if <i>enable_firewall_auth=true.</i>

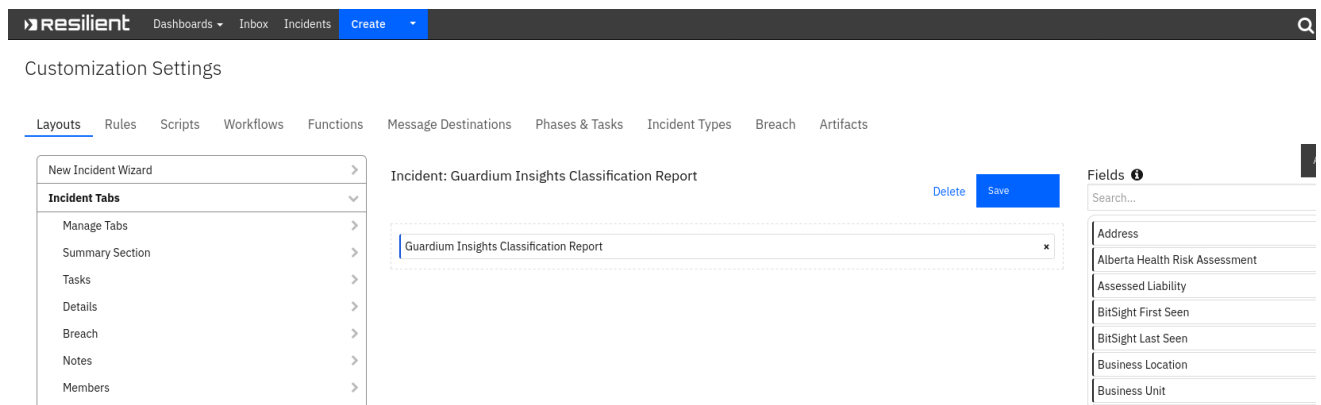
- **Save** and **Close** the app.config file.

Run resilient-circuits or restart the Service on Windows/Linux:

```
$ resilient-circuits run
```

Custom Layouts

- Import the Data Tables and Custom Fields like the screenshot below:



Function - Function Guardium Insights Block User

A Function to Block User From Guardium Insights.

Resilient

Dashboards

Inbox

Incidents

Create

Layouts

Rules

Scripts

Workflows

Functions

Message Destinations

Phases & Tasks

Incident Types

Breach

Artifacts

Workflows

Workflow Guardium Insights Block User

Name *

Workflow Guardium Insights Block User

API Name *

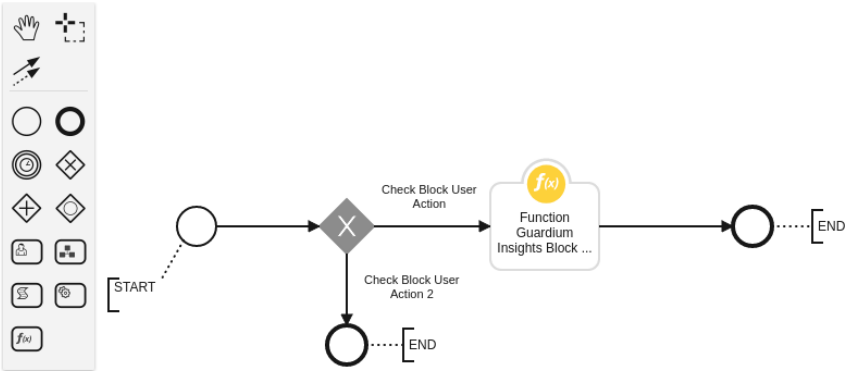
workflow_guardium_insights_block_user

Description

A Workflow to Block User from Guardium Insights

Object Type *

Incident



► Inputs:

Name	Type	Required	Example	Tooltip
input_field_guardium_insights_config_id	text	YES	-	-
input_field_guardium_insights_guardium_id	text	YES	-	-
input_field_guardium_insights_what	text	YES	-	-
input_field_guardium_insights_who	text	YES	-	-

► Outputs:

```
results = {
  "version": "1.0",
  "success": True,
  "reason": None,
  "content": {
    "block_result": True,
    "err": "no error"
  },
},
"raw": "{\\"block_result\\": true, \\"err\\": \\"no error\\"}",
"inputs": {
  "guardium_id": "grd_id",
  "config_id": "0",
  "database_user/actor/who": "DB_USER",
  "what": {
    "database_name": "SAMPLE",
    "server_port": "PORT",
    "service_name": "SERVICE_NAME",
    "sever_hostname": "HOST_NAME",
    "server_ip": "SERVER_IP"
  }
},
"metrics": {
  "version": "1.0",
```

```

    "package": "fn-guardium-insights-integration",
    "package_version": "1.0.0",
    "host": "host_dns",
    "execution_time_ms": 2671,
    "timestamp": "2021-09-30 20:04:23"
  }
}

```

► Example Pre-Process Script:

```

inputs.input_field_guardium_insights_config_id =
incident.properties.field_guardium_insights_config_id
inputs.input_field_guardium_insights_guardium_id =
incident.properties.field_guardium_insights_global_id
inputs.input_field_guardium_insights_who = incident.properties.field_guardium_insights_who
inputs.input_field_guardium_insights_what = incident.properties.field_guardium_insights_what

```

► Example Post-Process Script:

```

import re
notes_string = u"Block user action successful\n"
content = results.get("value", {}).get("content", {})
for k, v in content.items():
    notes_string += u"{}: {}\n".format(k, str(v))
inputs_data = results.get("value", {}).get("inputs", {})
for k, v in inputs_data.items():
    if k == "what":
        for sub_k, sub_v in v.items():
            notes_string += u"{}: {}\n".format(re.sub("_", " ", sub_k).title(), sub_v)
    else:
        notes_string += u"{}: {}\n".format(re.sub("_", " ", k).title(), v)
incident.addNote(notes_string)

```

Function - Function Guardium Insights Classification Report

A function to get classification report data.

Name	Type	Required	Example	Tooltip
incident_id	number	Yes	-	-
input_field_guardium_insights_fetch_size	number	Yes	-	-
input_field_guardium_insights_from_date	datetimepicker	Yes	-	-
input_field_guardium_insights_to_date	datetimepicker	Yes	-	-
input_field_guardium_insights_what	text	No	-	-
input_field_guardium_insights_who	text	No	-	-

```
results = {
  "version": "1.0",
  "success": True,
  "reason": "Classification report generated successfully...",
  "content": {},
  "raw": "{}",
  "inputs": {
    "incident_id": 3805,
    "input_field_guardium_insights_to_date": 1632940200000,
    "input_field_guardium_insights_who": "Finance_GOE",
    "input_field_guardium_insights_fetch_size": 5,
    "input_field_guardium_insights_from_date": 1630434600000,
    "input_field_guardium_insights_what": "{\"database_name\": \"database_name\",
    \"server_port\": \"server_port\", \"service_name\": \"service_name\", \"sever_hostname\":
    \"sever_hostname\", \"server_ip\": \"server_ip\"}"
  },
  "metrics": {
    "version": "1.0",
    "package": "fn-guardium-insights-integration",
    "package_version": "1.0.0",
    "host": "host",
```

► Example Pre-Process Script:

► Example Post-Process Script:

Function - Function Guardium Insights populate breach data types

A function to populate the incident breach data types.

► Inputs:

10 / 13

Name	Type	Required	Example	Tooltip
input_field_guardium_insights_who	text	No	-	-

► Outputs:

```

results = {
  "version": "1.0",
  "success": False,
  "reason": "populating breach data types completed: incident ID3810",
  "content": {},
  "raw": "{}",
  "inputs": {
    "incident_id": 3810,
    "input_field_guardium_insights_who": "Finance_GOE",
    "input_field_guardium_insights_what": "{\"database_name\": \"database_name\",
    \"server_port\": \"server_port\", \"service_name\": \"service_name\", \"sever_hostname\":
    \"sever_hostname\", \"server_ip\": \"server_ip\"}"
  },
  "metrics": {
    "version": "1.0",
    "package": "fn-guardium-insights-integration",
    "package_version": "1.0.0",
    "host": "host",
    "execution_time_ms": 6250,
    "timestamp": "2021-09-30 20:36:00"
  }
}

```

► Example Pre-Process Script:

```


inputs.incident_id = incident.id
inputs.input_field_guardium_insights_who = incident.properties.field_guardium_insights_who
inputs.input_field_guardium_insights_what = incident.properties.field_guardium_insights_what

```

► Example Post-Process Script:

None

Data Table - Guardium Insights Classification Report


Dashboards ▾
Inbox
Incidents
Create ▾

Tasks
Details
Breach
Notes
Members
News Feed
Attachments
Stats
Timeline
Artifacts
Email
fn_mitre
stTable
2929it_tickets

[Guardium Insights Classification Report](#)
ansible

Edit

Guardium Insights Classification Report

Q

Print
Export

Date Created	Start Date(local time)	Datasource IP	Datasource name	Datasource type	Port	Service name	Schema	Catalog	Table	Column	Description	Classification name	Classification rule	Category	Comprehensive
There is no data for this table															

Showing 0 to 0 of 0 entries

API Name:

guardium_insights_classification_report

Columns:

Column Name	API Access Name	Type	Tooltip
Catalog	gi_dt_cl_catalog	text	-
Category	gi_dt_cl_category	text	-
Classification name	gi_dt_cl_classification_name	text	-
Classification rule	gi_dt_cl_classification_rule	text	-
Column	gi_dt_cl_column	text	-
Comprehensive	gi_dt_cl_comprehensive	text	-
Datasource IP	gi_dt_cl_datasource_ip	text	-
Datasource name	gi_dt_cl_datasource_name	text	-
Datasource type	gi_dt_cl_datasource_type	text	-
Date Created	gi_dt_cl_date_created	datetimepicker	-
Description	gi_dt_cl_description	text	-
Port	gi_dt_cl_port	text	-
Schema	gi_dt_cl_schema	text	-
Service name	gi_dt_cl_service_name	text	-
Start Date(local time)	gi_dt_cl_start_datelocal_time	datetimepicker	-
Table	gi_dt_cl_table	text	-

Custom Fields

Label	API Access Name	Type	Prefix	Placeholder	Tooltip
what	field_guardium_insights_what	text	properties	-	-
when	field_guardium_insights_when	text	properties	-	-
Guardium Insights Config ID	field_guardium_insights_config_id	text	properties	-	-

Label	API Access Name	Type	Prefix	Placeholder	Tooltip
where	field_guardium_insights_where	text	properties	-	-
Guardium Insights Event ID	guardium_insights_event_id	text	properties	-	-
who	field_guardium_insights_who	text	properties	-	-
Guardium Insights Global ID	field_guardium_insights_global_id	text	properties	-	-
why	field_guardium_insights_why	text	properties	-	-

Rules

Rule Name	Object	Workflow Triggered
Guardium Insights Block User	incident	workflow_guardium_insights_block_user
Guardium Insights classification report data	incident	workflow_guardium_insights_classification_report

Troubleshooting & Support

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

For Support

This is a IBM Community provided App. Please search the Community <https://ibm.biz/resilientcommunity> for assistance.