# fn\_google\_cloud\_dlp

## **Table of Contents**

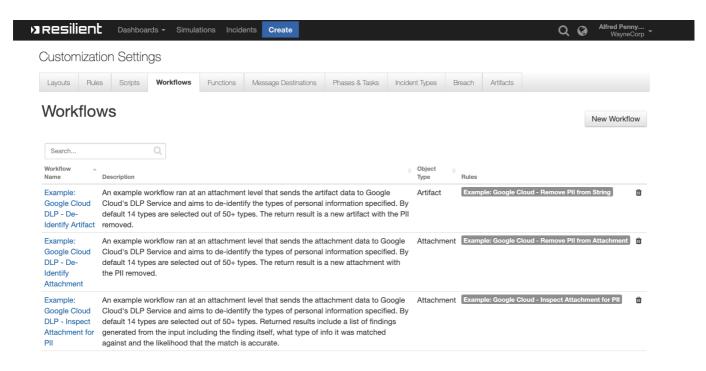
- Release Notes
- Overview
  - Key Features
- Requirements
  - Resilient platform
  - Cloud Pak for Security
  - Authenticating to Google Cloud
  - Proxy Server
  - Python Environment
- Installation
  - Install
  - App Configuration
- Function Google Cloud DLP: De-Identify Content
- Function Google Cloud DLP: Inspect Content
- Rules
- Troubleshooting & Support

## Release Notes

Version	Date	Notes
1.0.0	06/2019	Initial Release
1.1.0	09/2021	Added App Host Support
1.2.0	06/2022	Dropped Python v2 Support

## Overview

Resilient Circuits Components for 'fn\_google\_cloud\_dlp'



The Resilient Integration with Google Cloud DLP provides tools to integrate into your Incident Response Plan. The integration brings Automation and Orchestration capabilities for either identifying, redacting or de-identifying Personally identifiable information (PII) in a body of text.

### **Key Features**

- Inspect a text-based attachment for Personal Identifiable Information
- · Search for and redact Personal Identifiable Information from an attachment or artifact

## 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 >= 43.1.49.
- 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 >= 43.1.49.
- The app is in the older integration format (available from the AppExchange as a zip file which contains a tar. qz file).
- Integration server is running resilient\_circuits>=30.0.0.
- If using an API key account, make sure the account provides the following minimum permissions:

Name	Permissions		
Org Data	Read		

Name	Permissions			
Function	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 >= 1.7.
- 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.

### Authenticating to Google Cloud

Google Cloud requires an environment variable named GOOGLE\_APPLICATION\_CREDENTIALS in order to authenticate. To get the contents of this variable, you need to create a new service account with the DLP User permission in the service accounts tab. Then, under the actions column of the service accounts, select the Manage keys option and create a new key that is a JSON type.

### **Using an Integration Server:**

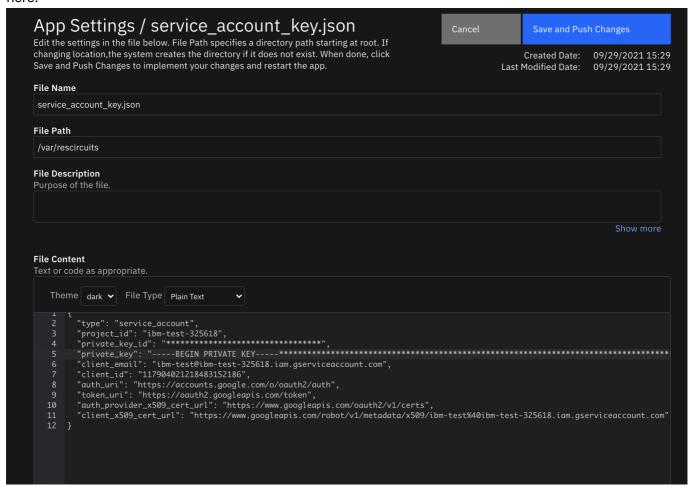
You will need to use the export command in terminal using the path to the json file and with whatever name you'd like.

export

GOOGLE\_APPLICATION\_CREDENTIALS="/Path/to/json/whatever\_name\_you\_want.json"

### **Using App Host:**

When configuring the app after installing, you must create a new file in the "Configuration" tab. Name the file "service\_account\_key.json" and have the path be "/var/rescircuits". Paste in the contents of the json file here.



### **Proxy Server**

The app does support a proxy server.

### Python Environment

Both Python 3.6 and Python 3.9 are supported. Additional package dependencies may exist for each of these packages: \*'resilient\_circuits>=45.0.0', \*'google-cloud-dlp~=3.7.1', \*'PyPDF2~=2.1.0', \*'python-docx~=0.8.11', \*'defusedxml~=0.7.1'

### 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.

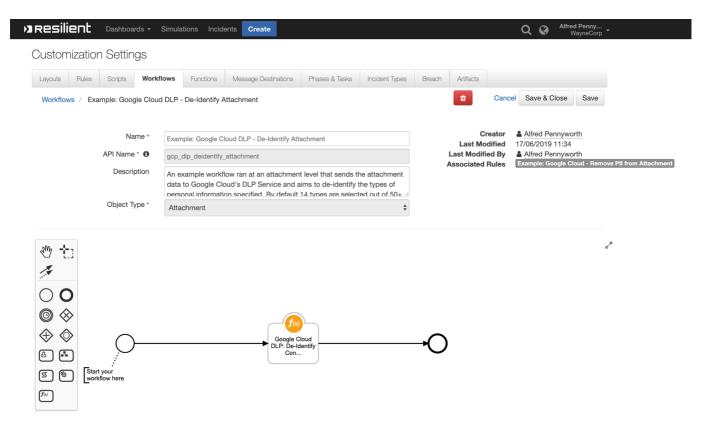
### **App Configuration**

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
gcp_project	Yes	<your_google_project_id></your_google_project_id>	Found in GCP
gcp_dlp_masking_char	Yes	#	

## Function - Google Cloud DLP: De-Identify Content

### None



### ► Inputs:

Name	Туре	Required	Example	Tooltip
artifact_id	number	No	_	-
attachment_id	number	No	_	-
gcp_artifact_input	text	No	-	A optional input to be used when the function is ran from an artifact and is used to capture the artifacts value.

Name	Туре	Required	Example	Tooltip
<pre>gcp_dlp_info_types</pre>	multiselect	No	_	Which types of PII do you want to de-identify.
incident_id	number	Yes	_	-
task_id	number	No	_	-

### ► Outputs:

```
{'version': '1.0', 'success': True, 'reason': None, 'content': {'de_identified_text': '\ufeffSSN,gender,birthdat...########"}, 'raw': '{"de_identified_text...#######"}', 'inputs': {'gcp_dlp_info_types': [...], 'incident_id': 2114, 'attachment_id': 22}, 'metrics': {'version': '1.0', 'package': 'fn-google-cloud-dlp', 'package_version': '1.1.0', 'host': [hostname], 'execution_time_ms': 2740086, 'timestamp': '2021-09-28 17:34:07'}}
```

### ► Example Pre-Process Script:

```
inputs.incident_id = incident.id
if artifact.type == "string":
  inputs.gcp_artifact_input = artifact.value
else:
  inputs.artifact_id = artifact.id
```

### ► Example Post-Process Script:

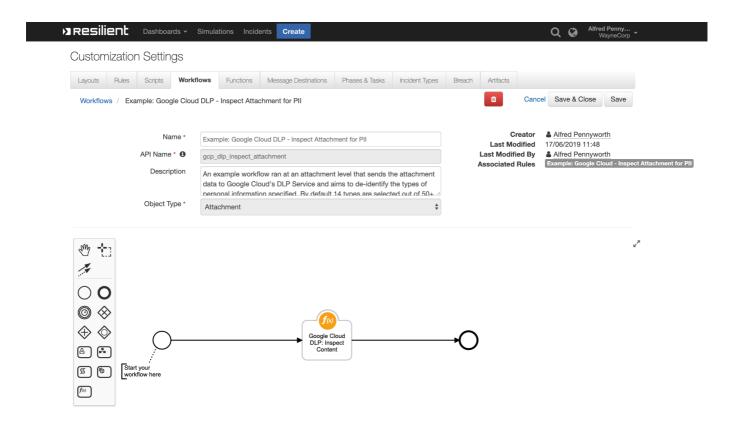
```
If the integration was successful in operation, upload a new artifact
containing the now de-identified text.

"""

if results.success:
   incident.addNote(u"""De-Identified using Google Cloud DLP<b>
{}""".format(results.content["de_identified_text"]))
```

## Function - Google Cloud DLP: Inspect Content

None



### ► Inputs:

Name	Туре	Required	Example	Tooltip
artifact_id	number	No	_	-
attachment_id	number	No	_	-
<pre>gcp_artifact_input</pre>	text	No	-	A optional input to be used when the function is ran from an artifact and is used to capture the artifacts value.
gcp_dlp_info_types	multiselect	No	_	Which types of PII do you want to de-identify.
incident_id	number	Yes	_	-
task_id	number	No	_	-

### ▶ Outputs:

{'version': '1.0', 'success': True, 'reason': None, 'content': {'findings': [...], 'attachment\_name': '[PII Removed]sample-...ta.csv.txt'}, 'raw': '{"findings": [], "at....csv.txt"}', 'inputs': {'gcp\_dlp\_info\_types': [...], 'incident\_id': 2114, 'attachment\_id': 38}, 'metrics': {'version': '1.0', 'package': 'fn-google-cloud-dlp', 'package\_version': '1.1.0', 'host': [hostname], 'execution\_time\_ms': 11913, 'timestamp': '2021-09-28 19:03:18'}}

### ► Example Pre-Process Script:

```
inputs.incident_id = incident.id

# If this workflow has the task_id available, gather it incase we need it.
if task:
   inputs.task_id = task.id

# If this workflow has the attachment_id available, gather it incase we need it.
if attachment:
   inputs.attachment_id = attachment.id

# If this workflow has the artifact_id available, gather it incase we need it.
try:
   if artifact:
      inputs.artifact_id = artifact.id
except:
   pass
```

### ► Example Post-Process Script:

### Rules

Rule Name	Object	Workflow Triggered
Example: Google Cloud - Remove PII from String	artifact	<pre>gcp_dlp_deidentify_artifact</pre>
Example: Google Cloud - Inspect Attachment for PII	attachment	gcp_dlp_inspect_attachment
Example: Google Cloud - Remove PII from Attachment	attachment	<pre>gcp_dlp_deidentify_attachment</pre>

## **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.