

# Resilient Integration with Google Cloud Functions

This package contains functions which invoke or interact with Google Cloud Functions.

Workflows / Example: GCP Cloud Functions: Sandbox and Screenshot Webpage

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Name \* Example: GCP Cloud Functions: Sandbox and Screenshot Webpage

API Name \* example\_gcp\_cloud\_functions\_sandbox\_and\_screenshot\_webpage

Description An example workflow which takes in an input of a URL and returns a screenshot of the UI for that webpage in base64. Utilises Cloud Functions provided by Google Cloud Platform

Object Type \* Artifact

Creator Resilient Sysadmin

Last Modified 31/10/2018 15:04

Last Modified By Resilient Sysadmin

Associated Rules Send URL to Google Cloud function for

Start your workflow here

GCP Cloud Functions: Sandbox and Screenshot Webpage

Utilities: Base64 to Attachment

Input Pre-Process Script Output Post-Process Script

Language: Python Theme light Mode Default Tab Size 2 - Font + Font

```

1 url = workflow.properties.sandbox_screenshot["input_url"]
2 attachment_desc = "GCP Sandbox Screenshot of {0}".format(url)
3
4 inputs.incident_id = incident.id
5 inputs.file_name = attachment_desc
6 inputs.base64content = workflow.properties.sandbox_screenshot["base64Screenshot"]

```

Do you have a use-case or a need to get data / perform an operation from a service without exposing your IP? Why not build out a cloud function which does that work for you under a different network configuration and target that instead.

The cloud function used by this example workflow leverages a headless chrome instance to consume a URL and screenshot the result. For information on how to set this up see [this post](#)

**Note:** This Package depends on the fn\_utilities package. fn\_utilities must be installed for the function to work as expected. In this example Workflow the output of the Google Cloud Function is used as an input into a Utility function called Base64ToAttachment. This function takes the base64 result from the previous function and saves it in the Resilient Platform as an attachment.

app.config settings:

```

[fn_google_cloud_functions]
gcp_region = <GCP_REGION_ID>
gcp_project_id = <GCP_PROJECT_ID>
gcp_function_name = <NAME_OF_CLOUD_FUNCTION>
# Optional Config values

```

```
gcp_http_proxy = None
gcp_https_proxy = None
```

## Function Inputs: Google Cloud Function:

Function Name	Type	Required	Example
gcp_url	String	Yes	'https://google.com'

## Function Inputs: Base64 to Attachment:

The inputs used by this function are acquired using the outputs of the Google Cloud Function

Function Name	Type	Required	Example
base64content	String	Yes	'cmFuZG9t.....'
incident_id	Number	Yes	2011
file_name	String	Yes	'GCP Screenshot of ibm.com.png'

## Pre-Processing Scripts

The workflow [Example: GCP Cloud Functions: Sandbox and Screenshot Webpage](#) includes 2 functions.

### Function: GCP Cloud Functions: Sandbox and Screenshot Webpage

```
inputs.gcp_url = artifact.value
```

### Function: Utilities: Base64 to Attachment

```
url = workflow.properties.sandbox_screenshot["input_url"]
attachment_desc = "GCP Sandbox Screenshot of {0}".format(url)

inputs.incident_id = incident.id
inputs.file_name = attachment_desc
inputs.base64content =
workflow.properties.sandbox_screenshot["base64Screenshot"]
```

## Google Cloud Function Output:

The function returns the results as a Python Dictionary. Here is an example output:

```
results : {
  success: True
  inputs: {
    "input_url": google.com,
    "input_full_url": https://google.com
  },
  base64Screenshot: cmFuZG9t.....
}
```

## Rules

Rule Name	Object Type	Workflow Triggered
Send URL to Google Cloud function for Sandboxing	Artifact	Example: GCP Cloud Functions: Sandbox and Screenshot Webpage

## Dependancies

Other function packages are needed to use this package. Below is a table detailing what packages are needed to make the integration work and where to get them.

Name	Min Version	Function Used	Link
fn_utilities	1.0.3	utilities_base64_to_attachment.py	<a href="#">AppX Link</a>