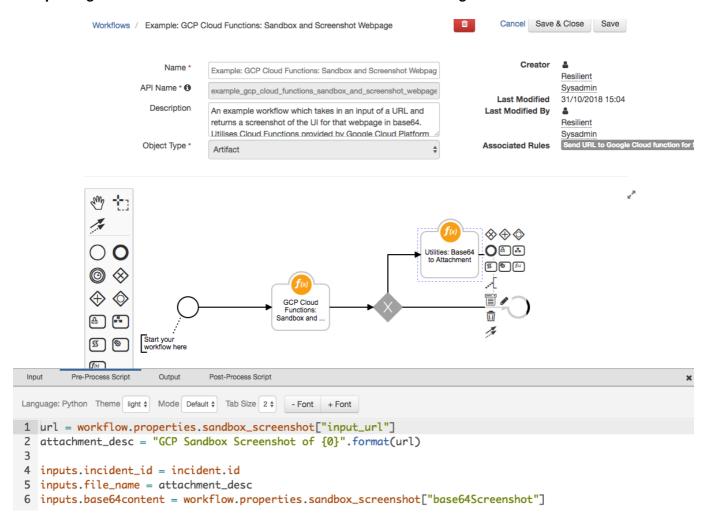
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Resilient Integration with Google Cloud Functions

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



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
```

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

Function Inputs: Google Cloud Function:

Function Name	Туре	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	Туре	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 ouput:

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```
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	Artifact	Example: GCP Cloud Functions: Sandbox
function for Sandboxing	ALLIIACL	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	AppX Link