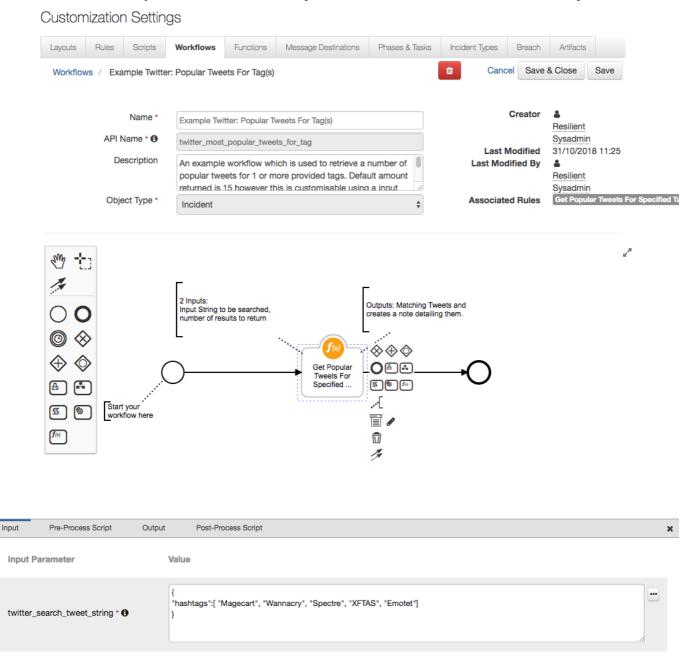# Resilient Integration with Twitter Search API

This package contains one function which targets the Twitter Search API. Takes in an input of multiple possible hashtags and a number of Tweets to be returned and contacts the Twitter Search API to return the results. Requires Twitter Access Key and Secret to obtain a OAuth2 read-only token.

app.config settings:

```
twitter_api_key = <API_KEY>
twitter_api_secret = <API_SECRET>
```

Function Inputs:

Function Name	Type	Required	Example
twitter_search_tweet_string	String Representation of JSON	Yes	'{"hashtags":["Malware", "Ransomware", "Phishing"]}'
twitter_search_tweet_count	Number	Yes	10

Function Output:

```
results = {
  success = True,
  inputs :{
    twitter_search_tweet_string: '{"hashtags":[ "Malware", "Ransomware",
"Phishing"]}',
    twitter_search_tweet_count: 10
  }
  tweets: {
    statuses: [{
      text: "Hello World",
      id_str: "123",
      entities: {
          urls:[{
            url : "https://twitter.com/i/web/status/123"
          }]
        },
        ...OtherAttributes
      }
    }]
  }
}
```

Review the Twitter API documentation for more info on all the attributes returned.

The Twython documentation has details specific to the Twython package used by this integration

Pre-Process Script:

Rather than manipulating potential inputs in the Pre-Processing script, this integration uses inputs taken from the Inputs tab. See screenshot for example.

Post-Process Script:

This example **adds a Note to the Incident.**

```python
#Prepare the start of the note text
noteText = u"""<br>Twitter search:
            Successful : {0}
            <b>Searched Tags:<b>{1}</b>""".format("True" if
results["success"] is True else False, results["inputs"]
["twitter_search_tweet_string"])

if (results.success):
  # For each returned tweet add the text and URL of the tweet to the
noteText
  for tweet in results.tweets["statuses"]:
    noteText += u"""<br><br>Tweet Text: <br><b>{0}</b>
    <b>Tweet URL</b> :<a>{1}</a>""".format(tweet["text"],tweet["entities"]
["urls"][0]["url"])
else:
  noteText += u"""<b>No Results found</b>"""
# Now add the note to our incident
incident.addNote(helper.createRichText(noteText))
```

Rules

Rule Name	Object Type	Workflow Triggered
Get Popular Tweets For Specified Tag(s)	Incident	Example Twitter: Popular Tweets For Tag(s)