IPVOID Lookup Function for IBM Resilient

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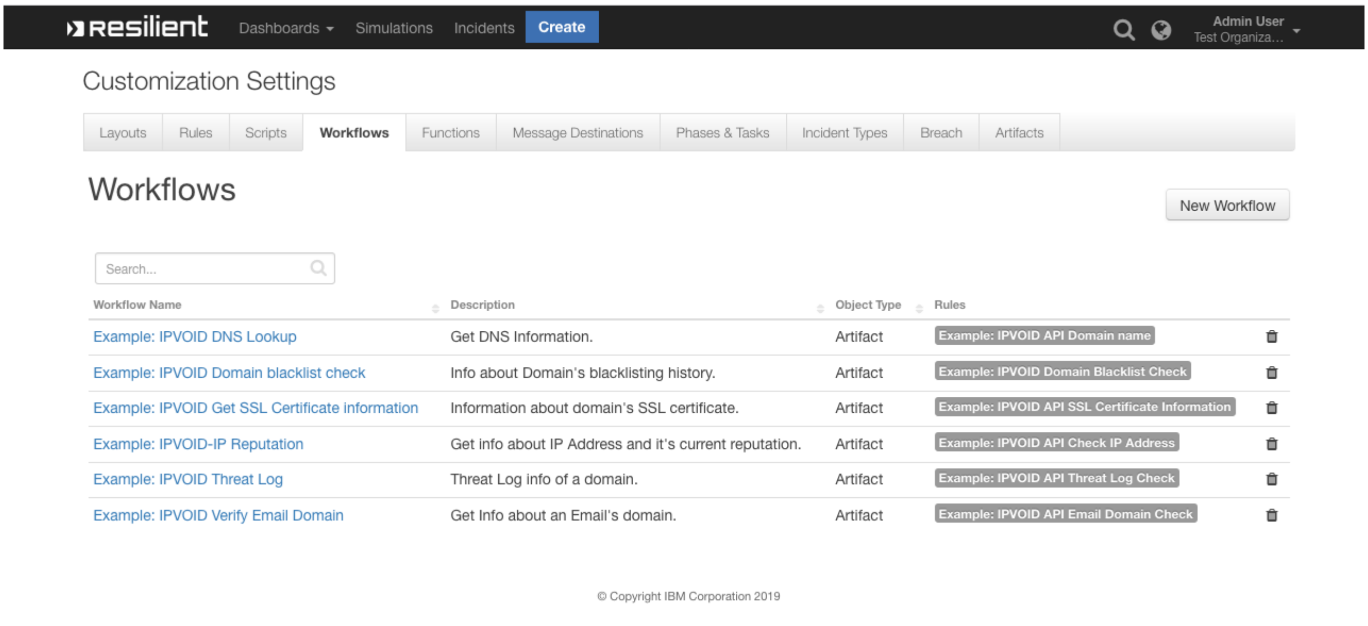
About This Package:

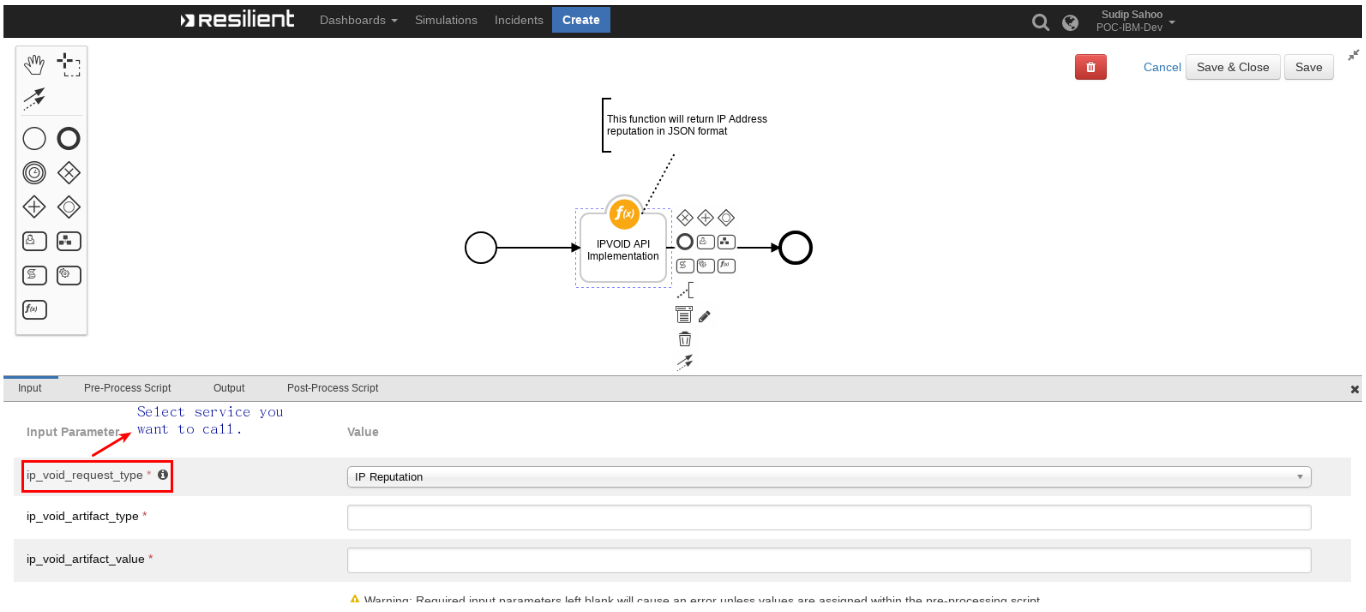
This package contains a Function that integrates with your IPVOID account using their APIs



Workflow Name	Description	Object Type	Rules
Example: IPVOID DNS Lookup	Get DNS Information.	Artifact	Example: IPVOID API Domain name
Example: IPVOID Domain blacklist check	Info about Domain's blacklisting history.	Artifact	Example: IPVOID Domain Blacklist Check
Example: IPVOID Get SSL Certificate information	Information about domain's SSL certificate.	Artifact	Example: IPVOID API SSL Certificate Information
Example: IPVOID-IP Reputation	Get info about IP Address and it's current reputation.	Artifact	Example: IPVOID API Check IP Address
Example: IPVOID Threat Log	Threat Log info of a domain.	Artifact	Example: IPVOID API Threat Log Check
Example: IPVOID Verify Email Domain	Get Info about an Email's domain.	Artifact	Example: IPVOID API Email Domain Check

- Integrates with IPVOID's vast range of IP Address tools to discover details about IP address helping you get enriched information about a Resilient Artifact
- This package supports the following API calls:
  - IP Reputation `/iprep/v1/pay-as-you-go/`
  - SSL Info `/sslinfo/v1/pay-as-you-go/`
  - Threat Log `/threatlog/v1/pay-as-you-go/`
  - Email Verify `/emailverify/v1/pay-as-you-go/`
  - DNS Lookup `/dnslookup/v1/pay-as-you-go/`
  - Domain Blacklist `/domainbl/v1/pay-as-you-go/`

Sample Workflow:



This function will return IP Address reputation in JSON format

Select service you want to call.

Input Parameter	Value
ip_void_request_type *	IP Reputation
ip_void_artifact_type *	
ip_void_artifact_value *	

⚠ Warning: Required input parameters left blank will cause an error unless values are assigned within the pre-processing script

Prerequisites:

- Resilient Appliance >= v31.0.0
- Integrations Server running resilient_circuits >= v30.0.0
- Account with IPVOID
- An API Key from IPVOID

Installation

This package requires that it is installed on a RHEL or CentOS platform and uses the resilient-circuits framework.

- Install this package using `pip`:
- Download the `.zip` file from our App Exchange and extract it. You will find a file called: `fn_ip_void-<version>.tar.gz`
- Copy this file to your Integrations Server
- To install the package, run:

```
$ pip install pip install fn_ip_void-<version>.tar.gz
```

- To import the function, example rules and workflows into your Resilient Appliance, run:

```
$ resilient-circuits customize -y -l fn-ip-void
```

- To update your `app.config` file with the required IPVOID configurations, run:

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

- Then open your `app.config` file and the following configuration data is added:

```
[fn_ip_void]
ipvoid_base_url=https://endpoint.apivoid.com
ipvoid_api_key=<your-api-key>
```

- Run resilient-circuits:

```
$ resilient-circuits run
```

- To uninstall:

```
$ pip uninstall fn-ip-void
```

Function Inputs:

Input Name	Type	Required	Example	Info
`ip_void_artifact_type`	`String`	Yes	`"IP Address"`	Helps to identify request type
`ip_void_artifact_value`	`String`	Yes	`"185.157.185.248"`	Make search on given value, IP Address or DNS Name
`ip_void_request_type`	Select `String`	Yes	`"IP Reputation"`	Makes sure which IPVOID service to call

Function Output:

- To see the output of each of the API calls for this Function, we recommend running `resilient-circuits` in `DEBUG` mode.
- To do this run:

```
$ resilient-circuits run --loglevel=DEBUG
```

An Example Output:

```
results = {
   "data":{
      "report":{
         "blacklists":{
            "engines":{
               "9":{
                  "engine":"Anti-Attacks BL",
                  "detected":false,
                  "reference":"https:\/\/www.anti-attacks.com\/",
                  "elapsed":"0.00"
               },
               "10":{
                  "engine":"BadIPs",
                  "detected":false,
                  "reference":"https:\/\/www.badips.com\/",
                  "elapsed":"0.00"
               },
               "11":{
                  "engine":"Bambenek Consulting",
                  "detected":false,
                  "reference":"http:\/\/www.bambenekconsulting.com\/",
                  "elapsed":"0.00"
               },
               "12":{
                  "engine":"Blacklists_co",
                  "detected":false,
                  "reference":"http:\/\/blacklists.co\/",
                  "elapsed":"0.00"
               },
               "13":{
                  "engine":"BlockList_de",
                  "detected":false,
                  "reference":"http:\/\/www.blocklist.de\/",
                  "elapsed":"0.00"
               },
               "14":{
                  "engine":"Blocklist.net.ua",
                  "detected":false,
                  "reference":"https:\/\/blocklist.net.ua\/",
                  "elapsed":"0.00"
               },
               "15":{
                  "engine":"BloggingFusion BL",
                  "detected":false,
                  "reference":"https:\/\/www.bloggingfusion.com\/",
                  "elapsed":"0.00"
               },
               "16":{
                  "engine":"Booru BL",
                  "detected":false,
                  "reference":"",
                  "elapsed":"0.00"
               },
               "17":{
                  "engine":"Botvrij.eu",
                  "detected":false,
                  "reference":"http:\/\/botvrij.eu\/",
                  "elapsed":"0.00"
               }
            },
            "detections":1,
              "engines_count":70,
              "detection_rate":"1%",
              "scantime":"0.07"
           }
        }
     },
     "credits_remained":93934.23,
     "credits_expiration":"Fri, 15 Mar 2019 22:06:23 GMT",
     "estimated_queries":"1,174,177",
     "elapsed_time":"0.17",
     "success":true
  }
```

Pre-Process Script:

- This example sets the `ip_void_artifact_value`, `ip_void_artifact_type`, `ip_void_request_type` input to the value and type of the Artifact the user took action on

```
# The search value to send to IPVOID (may be any String that contains an
IP Address, URL etc.)
inputs.ip_void_artifact_value = artifact.value
inputs.ip_void_artifact_type = artifact.type
```

Post-Process Script:

- This example appends the Threat Intelligences to the Artifact's Description:.

```
try:
    des = artifact.description.content
except Exception:
  des = None

if des is None:
  artifact.description = u"""IPVOID threat intelligence
{0}""".format(results["data"])
else:
  artifact.description = des + u"""IPVOID threat intelligence
{0}""".format(results["data"])
```