Alien Vault OTX Search Function for IBM Resilient

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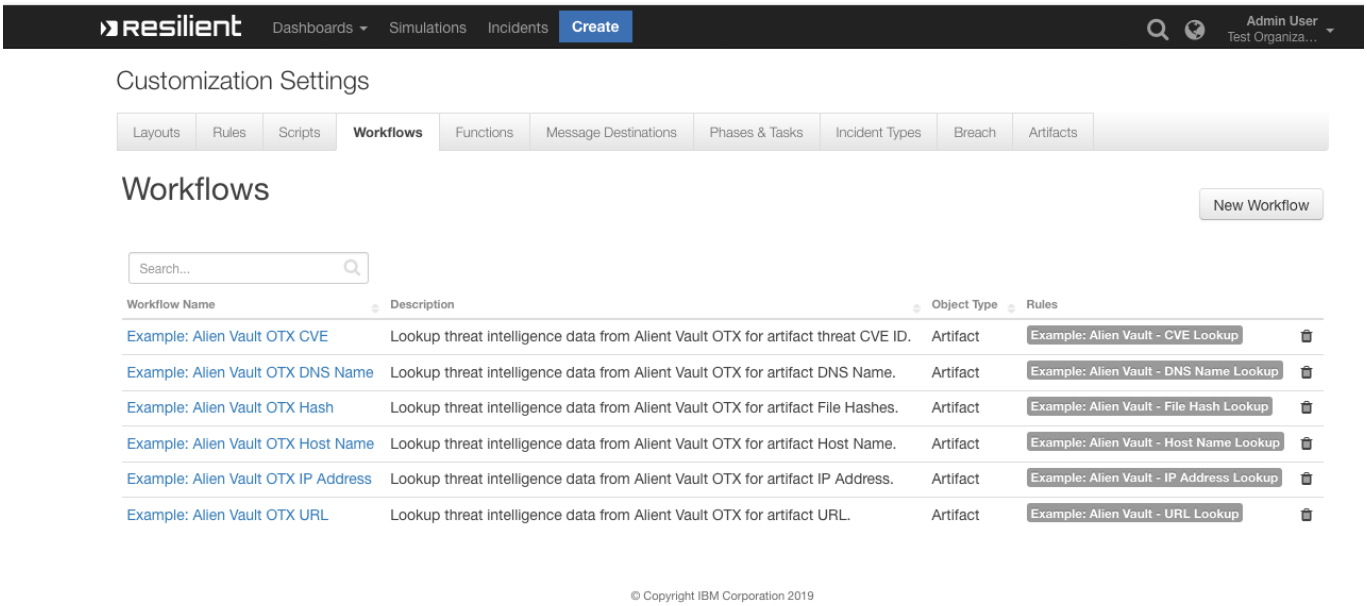
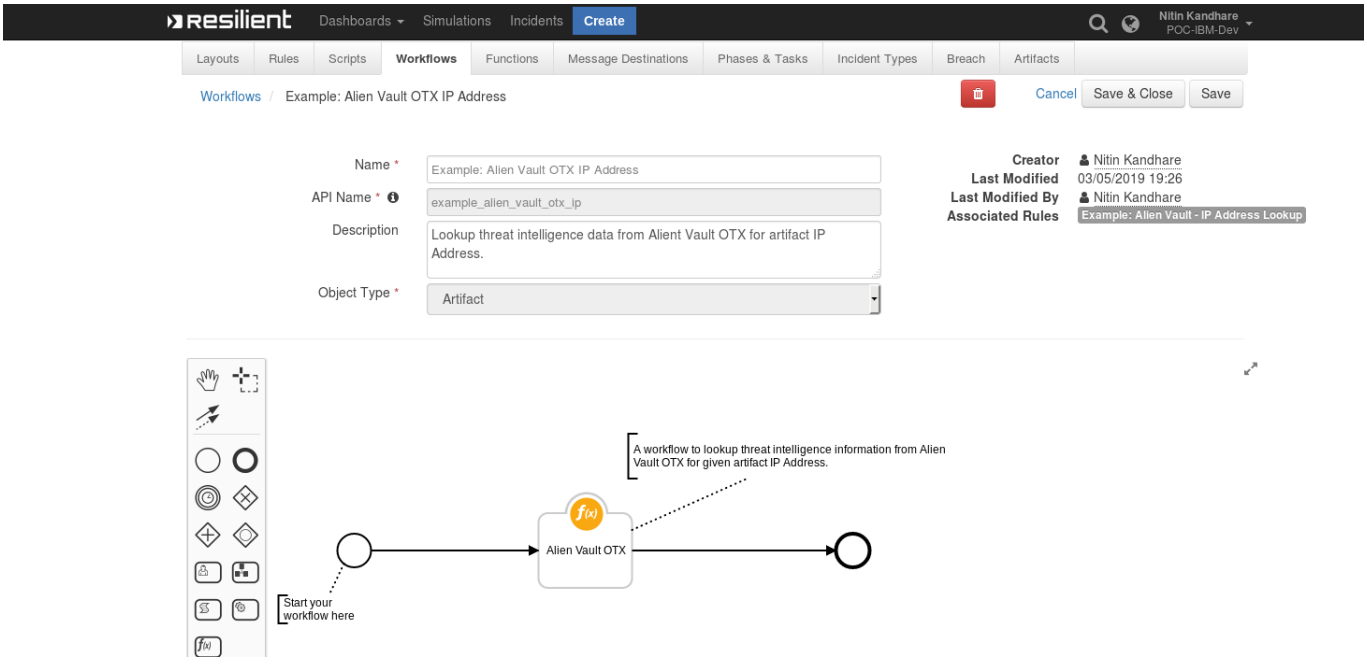
About This Package:

This package contains a Resilient Function that allows you to search your Alien Vault OTX platform with the given query for Threat Intelligence data about a particular Threat Indicator

- Threat intelligence indicators that can be searched for are:
    - IP Address
    - Domain
    - Host Name
    - File Hashes
    - URL
    - CVE
- The function makes use of the Alien Vault OTX `api/v1/indicators` API call to get information on a given query
- More information on Alien Vault OTX



Sample Function layout:



Sample Pre-Process Script

Sample Post-Process Script

Prerequisites:

- Resilient Appliance >= v31.0.0
- Integrations Server running resilient_circuits >= v30.0.0 30
- Account with Alien Vault OTX
- A `DirectConnect OTX` API Key from Alien Vault

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_alienvault_otx-<version>.tar.gz`
- Copy this file to your Integrations Server
- To install the package, run:

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

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

```
$ resilient-circuits customize -y -l fn-alienvault-otx
```

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

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

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

```
[fn_alienvault_otx]
# OTX API Key to Access the Alien Vault OTX Service
av_api_key=<<DirectConnect OTX API Key>>

#Base URL Path of Alien Vault OTX
av_base_url=https://otx.alienvault.com/api/v1
```

```
    # Proxy Server by Default will be None
    proxy=None
```

- Run resilient-circuits:

```
$ resilient-circuits run
```

- To uninstall:

```
$ pip uninstall fn_alienvault_otx
```

Function Inputs

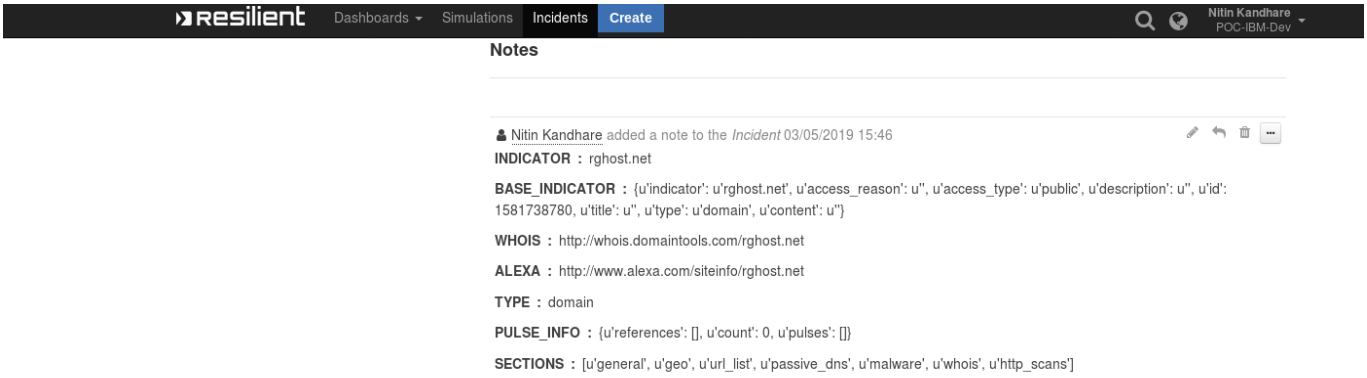
Function Name	Type	Required	Example	Info
`alien_search_value`	`String`	Yes	`"192.168.0.1"`	The search value to send to Alien Vault OTX (may be any String that contains an IP Address, URL, Hash, Threat CVE ID, DNS Name, System Name.)
`alien_search_type`	`String`	Yes	`IP Address`	The search type to send to Alien Vault OTX (may be any String type can be an IP Address, URL, Hash, Threat CVE ID, DNS Name, System Name.)
`alien_section`	`select`	Yes	`reputation`	The section to search for Threat Intelligence Data from Alien Vault, this section may be different for different search type (may be any string general, geo, malware, reputation, url_list, passive_dns, http_scans etc)

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
```

Sample Output Displayed on Incident Notes Section



Pre-Process Script

This example sets the `alienvault_search_value`, `alienvault_search_type`, `alienvault_section` inputs to the value and type of the Artifacts and sections the user took action on

```
# The search value to send to Alien Vault OTX (may be any String that
contains an IP Address, URL, Hash,Threat CVE ID,DNS Name,System Name.)
inputs.alienvault_search_value = artifact.value
#The search type to send to Alien Vault OTX (may be any String type can be
an IP Address, URL, Hash,Threat CVE ID,DNS Name,System Name.)
inputs.alienvault_search_type = artifact.type
#The section to search for Threat Intelligence Data from Alien Vault, this
section may be different for different search type(may be any string
general, geo, malware,reputation, url_list, passive_dns, http_scans etc)
inputs.alienvault_section = rule.properties.alien_vault_search_section_ip
```

Post-Process Script

```
result_data = results['content']
for key_data,value_data in result_data.items():
rich_text_tmp +=
rich_text_format.format(key_data.upper(),value_data)browse_rich_text_final
= helper.createRichText(rich_text_tmp)
incident.addNote(browse_rich_text_final)
```

Rules

Rule Name	Object Type	Workflow Triggered	Activity Fields
Example: Alien Vault - CVE Lookup	`Artifact`	`Example: Alien Vault OTX CVESearch`	`Alien Vault Search Section CVE` values : general

Rule Name	Object Type	Workflow Triggered	Activity Fields
Example: Alien Vault - DNS Name Lookup	`Artifact`	`Example: Alien Vault OTX DNS Name`	`Alien Vault Search Section DNS Name` values : general,geo,malware,url_list,passive_dns,whois,http_scans
Example: Alien Vault - File Hash Lookup	`Artifact`	`Example: Alien Vault OTX Hash`	`Alien Vault Search Section Hash` values : general,analysis
Example: Alien Vault - Host Name Lookup	`Artifact`	`Example: Alien Vault OTX Host Name`	`Alien Vault Search Section Host Name` values : general,geo,malware,url_list,passive_dns,http_scans
Example: Alien Vault - IP Address Lookup	`Artifact`	`Example: Alien Vault OTX IP Address`	`Alien Vault Search Section IP Address` values : general,reputation,geo,malware,url_list,passive_dns,http_scans
Example: Alien Vault - URL Lookup	`Artifact`	`Example: Alien Vault OTX URL`	`Alien Vault Search Section URL` values : general,url_list

Using the Alien Vault OTX Function

- The Alien Vault Function can be called on artifact like IP Address, DNS Name, System Name, URL, URL Referer,
  Hashes, Threat CVE ID.
- After invoking a Rule on the Artifact, we need to choose the `Section` based on the Artifact
- For more info on what `section` refers to, please see: https://otx.alienvault.com/api