README.md

User Guide: fn_pulsedive_v1.0.0

Table of Contents

Key Features

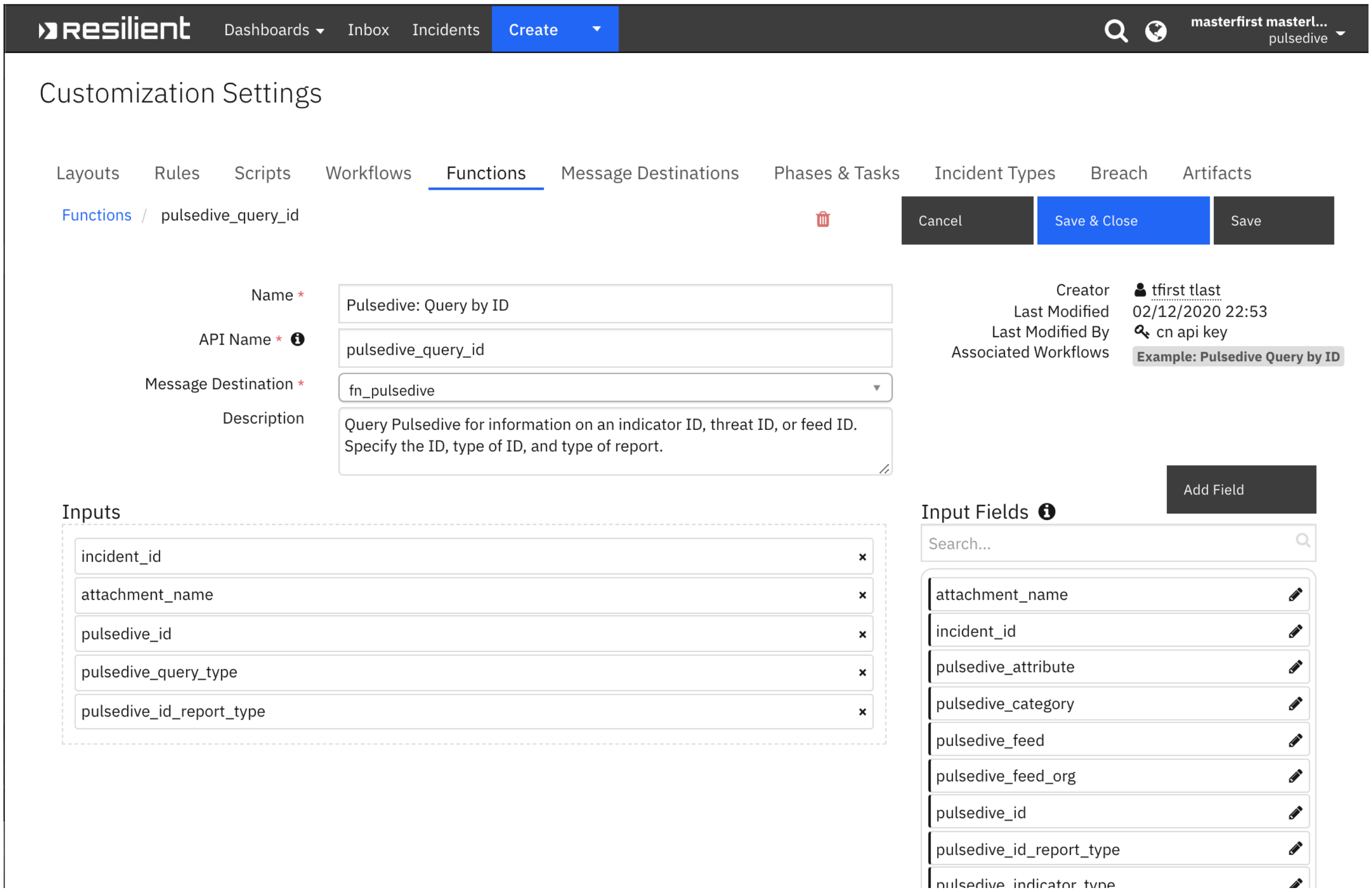
The Resilient integration with Pulsedive provides the capability to access Pulsedive's IOC data collection, from the IBM Resilient Soar Platform. Key features of this integration:

- Query Pulsedive by ID of an indicator, threat, or feed and get information such as linked indicators, properties, summary
- Query Pulsedive by an IP address, a DNS, a threat name or alias, or a feed name and organization
- Search Pulsedive for all indicators, threats, or feeds, using a variety of search filters

Result summaries will be written to an Incident Note and details will be written to an Incident Attachment.

Function - Pulsedive: Query by ID

Query Pulsedive for information on an indicator ID, threat ID, or feed ID. Specify the ID, type of ID, and type of report.



Customization Settings

Functions / pulsedive_query_id

Name * Pulsedive: Query by ID

API Name * pulsedive_query_id

Message Destination * fn_pulsedive

Description Query Pulsedive for information on an indicator ID, threat ID, or feed ID. Specify the ID, type of ID, and type of report.

Creator tfirst tlast
Last Modified 02/12/2020 22:53
Last Modified By cn api key
Associated Workflows Example: Pulsedive Query by ID

Inputs

- incident_id
- attachment_name
- pulsedive_id
- pulsedive_query_type
- pulsedive_id_report_type

Input Fields

- attachment_name
- incident_id
- pulsedive_attribute
- pulsedive_category
- pulsedive_feed
- pulsedive_feed_org
- pulsedive_id
- pulsedive_id_report_type
- pulsedive_indicator_type

▼ Inputs:

Name	Type	Required	Example	Tooltip
`pulsedive_query_type`	`select`	Yes	`Indicator`	Specify the type of ID or Value: Indicator, Threat, or Feed
`pulsedive_id`	`number`	Yes	`12345`	Enter a Pulsedive Indicator ID, Threat ID, or Feed ID
`pulsedive_id_report_type`	`select`	Yes	`By ID`	Select the report desired, based on the Indicator ID, Threat ID, or Feed ID
`attachment_name`	`text`	No	`e.g., pulsedive_ind_12345_byid.txt`	Name of attachment: full api response will be written to this file

▼ Outputs:

```
results = {
    "iid": 2,
    "type": "domain",
    "indicator": "alvoportas.com.br",
    "risk": "low",
    "risk_recommended": "low",
    "manualrisk": 0,
    "retired": "No recent activity",
    "stamp_added": "2017-09-27 18:11:38",
    "stamp_updated": "2019-11-11 20:47:04",
    "stamp_seen": "2019-06-30 17:29:31",
    "stamp_probed": "2019-06-30 17:29:33",
    "stamp_retired": "2019-10-03 01:39:22",
    "recent": 0,
    "riskfactors": [
        {
            "rfid": 2,
            "description": "found in third-party feeds",
            "risk": "medium"
        },
        ...
    ]
    ...
}
```

▼ Workflows

▼ Example Pre-Process Script:

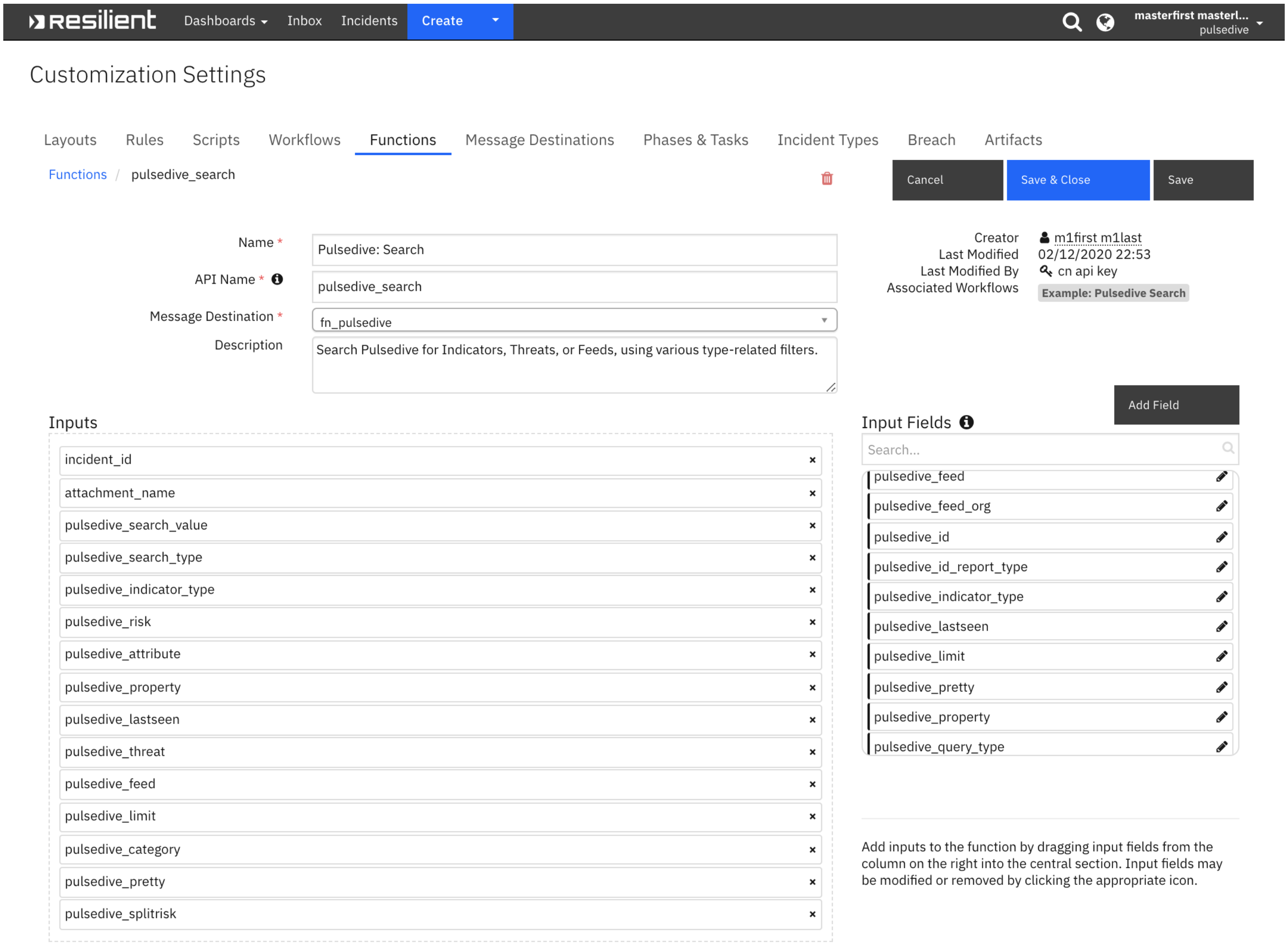
```
inputs.incident_id = incident.id

# custom artifact of type integer
inputs.pulsedive_id = artifact.value

# id type: indicator, threat, or feed
inputs.pulsedive_query_type = rule.properties.pulsedive_query_type

# report type: recent info, links, summary, history
inputs.pulsedive_id_report_type = rule.properties.pulsedive_id_report_type
```

▼ Example Post-Process Script:

```
# Get the results and post a summary to an incident note
summary = {}
for x in results["content"].keys():
if x in ["iid", "tid", "fid", "indicator", "threat", "feed", "organization", "type", "risk", "stamp_updated"]:
  summary[x] = results["content"][x]

# create text for summary counts
count_text = ""
for y in results["counts"].keys():
count_text += "{} count: {} \n".format(y, results["counts"][y])

note_text = u"Pulsedive {} query results on ID '{}': \n \
GET url: {} \n \
=== Summary: \n{}\n \
counts: \n{}\n \
For full dataset, see attachment '{}'".format(
results["fn_inputs"]["query_type"], results["fn_inputs"]["query_id"],
results["url"], summary, count_text, results["fn_inputs"]["attachment_name"]
)

# Create note text
note = helper.createPlainText(note_text)

# Create incident note
incident.addNote(note)
```

Function - Pulsedive: Search

Search Pulsedive for Indicators, Threats, or Feeds, using various type-related filters.



Customization Settings

Name * Pulsedive: Search

API Name * pulsedive_search

Message Destination * fn_pulsedive

Description: Search Pulsedive for Indicators, Threats, or Feeds, using various type-related filters.

Creator: m1first m1last
Last Modified: 02/12/2020 22:53
Last Modified By: cn api key
Associated Workflows: Example: Pulsedive Search

Inputs

- incident_id
- attachment_name
- pulsedive_search_value
- pulsedive_search_type
- pulsedive_indicator_type
- pulsedive_risk
- pulsedive_attribute
- pulsedive_property
- pulsedive_lastseen
- pulsedive_threat
- pulsedive_feed
- pulsedive_limit
- pulsedive_category
- pulsedive_pretty
- pulsedive_splitrisk

- pulsedive_feed
- pulsedive_feed_org
- pulsedive_id
- pulsedive_id_report_type
- pulsedive_indicator_type
- pulsedive_lastseen
- pulsedive_limit
- pulsedive_pretty
- pulsedive_property
- pulsedive_query_type

Add inputs to the function by dragging input fields from the column on the right into the central section. Input fields may be modified or removed by clicking the appropriate icon.

▼ Inputs:

Name	Type	Required	Example	Tooltip
`attachment_name`	`text`	No	`e.g., my_pulsedive_attachment.txt`	Name of attachment: full api response will be written to this file
`incident_id`	`number`	Yes	`-`	-
`pulsedive_attribute`	`text`	No	`e.g., http, https, 443, jQuery UI, Java, Google Analytics, Subdomain, Name Server`	For Pulsedive Search on Indicators or Threats, enter comma-separated values for ports, protocols, and technology.
`pulsedive_category`	`multiselect`	No	`-`	For Pulsedive Search on Threats or Feeds, filter by one or more categories.
`pulsedive_export`	`select`	No	`-`	Exports Indicator search results to a CSV file
`pulsedive_feed`	`text`	No	`e.g., zeus bad domains, zeus bad ips`	For Pulsedive Search on Indicators, enter comma-

Name	Type	Required	Example	Tooltip
				separated values for feed names.
`pulsedive_indicator_type`	`multiselect`	No	–	For Pulsedive Search on Indicators, choose any of the indicator types.
`pulsedive_lastseen`	`select`	No	–	For Pulsedive Search on Indicators, "lastseen" can be "day", "week", "month", or left empty for all-time.
`pulsedive_limit`	`select`	No	–	For Pulsedive Search on Indicators, results "limit" can be "hundred", "thousand", "tenthousand".
`pulsedive_pretty`	`select`	No	–	Option to pretty-print json output in attachment
`pulsedive_property`	`text`	No	–	-
`pulsedive_risk`	`multiselect`	No	–	For Pulsedive Search on Indicators or Threats, filter by risk type(s).
`pulsedive_search_type`	`select`	No	–	Select the type of search to perform on Pulsedive.
`pulsedive_search_value`	`text`	No	–	Enter a string to search on
`pulsedive_splitrisk`	`select`	No	–	Option to split out indicator counts by risk
`pulsedive_threat`	`text`	No	`e.g., zeus, banjori`	For Pulsedive Search on Indicators, enter comma-separated values of threat names.

▼ Outputs:

```
results = {
    ...
    {
        "iid": 1446,
        "indicator": "156.67.106.30",
        "type": "ip",
        "risk": "low",
        "stamp_updated": "2020-03-19 14:23:00",
        "stamp_seen": "2020-03-19 14:22:59",
        "summary": {
            "properties": {
                "geo": {
                    "country": "Poland",
                    "city": "Krapkowice",
                    "org": "Krapkowickie Sieci Internetowe sc",
                    "region": "Opole Voivodeship",
                    "countrycode": "PL"
                }
            }
        }
    },
    ...
}
```

▼ Workflows

▼ Example Pre-Process Script:

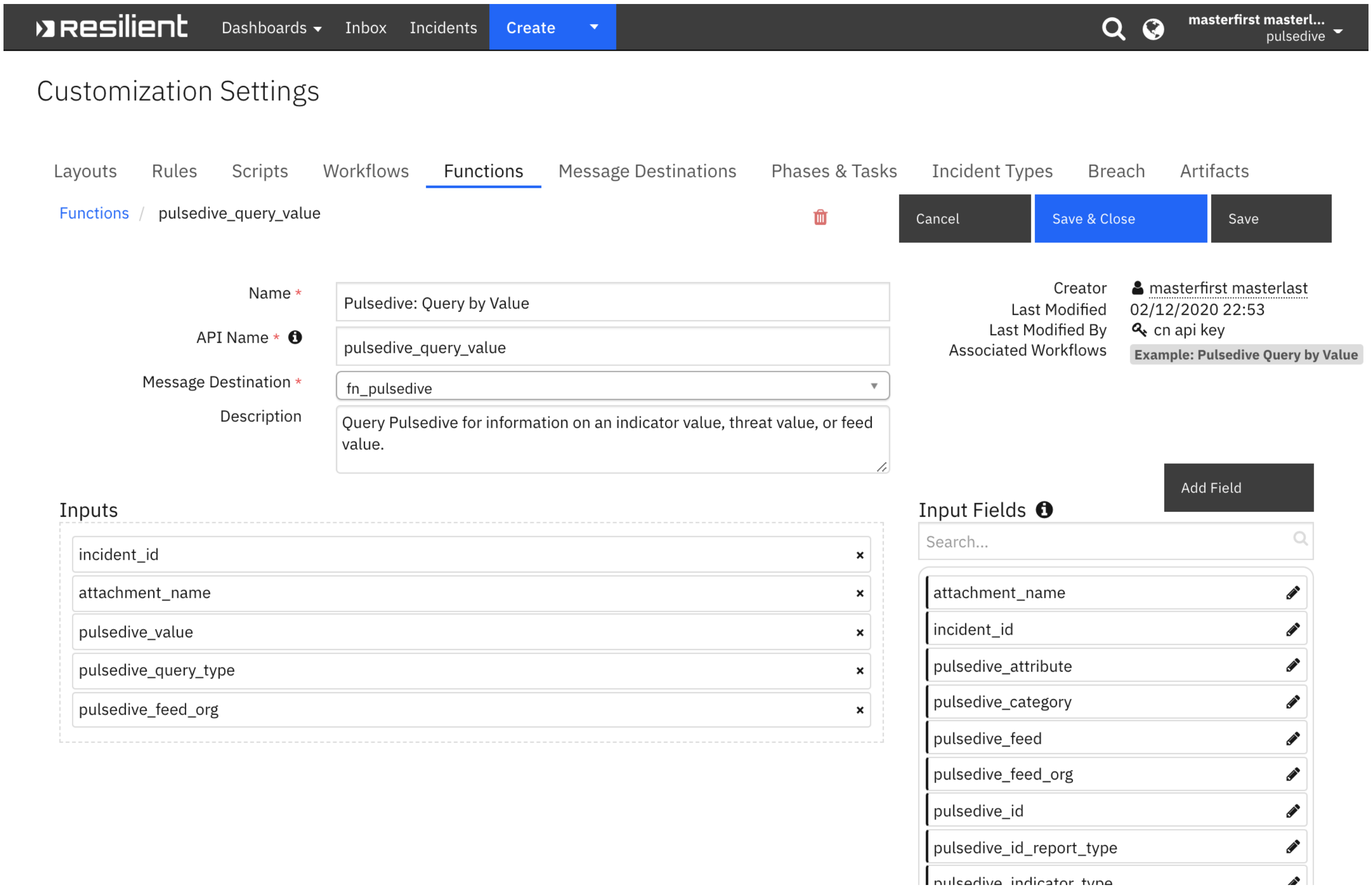
```
inputs.incident_id = incident.id
inputs.attachment_name = rule.properties.attachment_name
inputs.pulsedive_attribute = rule.properties.pulsedive_attribute
inputs.pulsedive_indicator_type = rule.properties.pulsedive_indicator_type
inputs.pulsedive_category = rule.properties.pulsedive_category
inputs.pulsedive_feed = rule.properties.pulsedive_feed
inputs.pulsedive_limit = rule.properties.pulsedive_limit
inputs.pulsedive_lastseen = rule.properties.pulsedive_lastseen
inputs.pulsedive_pretty = rule.properties.pulsedive_pretty
inputs.pulsedive_property = rule.properties.pulsedive_property
inputs.pulsedive_risk = rule.properties.pulsedive_risk
inputs.pulsedive_search_type = rule.properties.pulsedive_search_type
inputs.pulsedive_search_value = rule.properties.pulsedive_search_value
inputs.pulsedive_splitrisk = rule.properties.pulsedive_splitrisk
inputs.pulsedive_threat = rule.properties.pulsedive_threat
```

▼ Example Post-Process Script:

```
# get results and post summary to incident note
search_type = results.get("resp_json")["inputs"]["pulsedive_search_type"]["name"] if not None else "n/a"
return_limit = results.get("resp_json")["inputs"]["pulsedive_limit"]["name"] if not None else "n/a"
time_frame = results.get("resp_json")["inputs"]["pulsedive_lastseen"]["name"] if not None else "n/a"
risk_filter = [str(x["name"]) for x in results.get("resp_json")["inputs"]["pulsedive_risk"]]
categories = [str(x["name"]) for x in results.get("resp_json")["inputs"]["pulsedive_category"]]

count = len(results.get("resp_json")["content"]["results"])

# create text for summary results
note_text = u"<p>Pulsedive <b>{}</b> search results:</p> \
<p><b>time frame:</b> {}</p> \
<p><b>risk filter</b> {}</p> \
<p><b>categories</b> {}</p> \
<p><b>max # of returned data</b> {}</p> \
<p><b>Results count:</b> {}</p> \n \
<p>See attachment <b>'{}'</b> for full dataset</p> \n \
".format(str(search_type), str(time_frame), risk_filter, categories, str(return_limit), count,
results.get("att_name"))

# append link for exporting results to CSV (for Indicator search only)
if results["search_type"] == "Indicator":
export_url = u"""<a href='{}{}' target='blank'>here</a>""".format(results["request_url"], "&export=1")
note_text += "Click {} to export results to CSV".format(export_url)

# Create note text
note = helper.createRichText(note_text)

# Create incident note
incident.addNote(note)
```

Function - Pulsedive: Query by Value

Query Pulsedive for information on an indicator value, threat value, or feed value.



Customization Settings

Name *	Pulsedive: Query by Value
API Name *	pulsedive_query_value
Message Destination *	fn_pulsedive
Description	Query Pulsedive for information on an indicator value, threat value, or feed value.

Creator	masterfirst masterlast
Last Modified	02/12/2020 22:53
Last Modified By	cn api key
Associated Workflows	Example: Pulsedive Query by Value

Inputs

- incident_id
- attachment_name
- pulsedive_value
- pulsedive_query_type
- pulsedive_feed_org

▼ Inputs:

Name	Type	Required	Example	Tooltip
`attachment_name`	`text`	No	`e.g., my_pulsedive_attachment.txt`	Name of attachment: full api response will be written to this file
`incident_id`	`number`	Yes	`-`	-
`pulsedive_feed_org`	`text`	No	`(for Feed ID only)`	For queries by Feed ID, provide the feed organization.
`pulsedive_query_type`	`select`	Yes	`-`	Specify the type of ID or Value: Indicator, Threat, or Feed
`pulsedive_value`	`text`	Yes	`e.g.: "someDNS.com", "someThreatName", "known feed"`	Enter an Indicator DNS or ip address, Threat Name, or Feed Name and Organization

▼ Outputs:

```
results = {
    {
        "iid": 2,
        "type": "domain",
        "indicator": "alvoportas.com.br",
        "risk": "low",
        "risk_recommended": "low",
        "manualrisk": 0,
        "retired": "No recent activity",
        "stamp_added": "2017-09-27 18:11:38",
        "stamp_updated": "2019-11-11 20:47:04",
        "stamp_seen": "2019-06-30 17:29:31",
        "stamp_probed": "2019-06-30 17:29:33",
        "stamp_retired": "2019-10-03 01:39:22",
        "recent": 0,
        "riskfactors": [
            {
                "rfid": 2,
                "description": "found in third-party feeds",
                "risk": "medium"
            },
            ...
        ],
        ...
    },
    ...
}
```

▼ Workflows

▼ Example Pre-Process Script:

```
# artifact value = Indicator ip address or DNS, Threat name (string), or Feed name and organization
inputs.incident_id = incident.id
inputs.attachment_name = rule.properties.attachment_name
inputs.pulsedive_value = artifact.value
inputs.pulsedive_query_type = rule.properties.pulsedive_query_type
inputs.pulsedive_feed_org = rule.properties.pulsedive_feed_organization
```

▼ Example Post-Process Script:

```
# Get results and post to an incident note
summary = {}
for x in results["content"].keys():
if x in ["iid", "tid", "fid", "indicator", "threat", "feed", "organization", "type", "risk", "stamp_updated"]:
  summary[x] = results["content"][x]

note_text = u"Pulsedive {} query results on '{}': \n \
GET url: {} \n \
request params: {} \n \
=== Summary: \n{}\n \
For full dataset, see attachment '{}'".format(
results["fn_inputs"]["query_type"], results["fn_inputs"]["value"],
results["url"], results["request_parameters"], summary, results["fn_inputs"]["attachment_name"])

# Create note text
note = helper.createPlainText(note_text)

# Create incident note
incident.addNote(note)
```

Custom Artifact Types

Display Name	API Access Name	Description

Display Name	API Access Name	Description
Pulsedive ID	`pulsedive_id`	ID of a Pulsedive indicator, threat, or feed

Rules

Rule Name	Object	Workflow Triggered
Pulsedive Search	incident	`example_pulsedive_search`
Pulsedive Query by ID	artifact	`example_pulsedive_query_by_id`
Pulsedive Query by Value	artifact	`example_pulsedive_query_by_value`