

None

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Release Notes

Version	Date	Notes
1.0.0	MM/YYYY	Initial Release

Overview

Resilient Circuits Functions to query Pipl Data API

← Apps List

fn_pipl

Status: Waiting for Configure and Test

Details Customizations Configuration

Installation
Installed 01/27/2021 by Brian Reid

Description
This package contains one function that enriches your leads (name, email address, phone number, or social media username) with Pipl and gets their personal, professional, demographic, and contact information. The response from Pipl is saved in Pipl possible person datatable. The package also contains a script for creating an artifact from a selected row in the datatable.

Version
1.1.0

App Host ⚠️
Choose an app host

App Status

- ✓ Install App
- ② Configure and Test
In the Configurations tab, edit app.config then test and push.
- ③ Deploy to App Host
- ④ Ready For Use!

Uninstall Deploy

This package contains one function that enriches your leads (name, email address, phone number, or social media username) with Pipl and gets their personal, professional, demographic, and contact information. The response from Pipl is saved in Pipl possible person datatable. The package also contains a script for creating an artifact from a selected row in the datatable.

Key Features

- Query the Pipl API
- Add Pipl data to datatable
- Create artifacts from datatable entries

Requirements

This app supports the IBM Resilient SOAR Platform and the IBM Cloud Pak for Security.

Resilient platform

The Resilient platform supports two app deployment mechanisms, App Host and integration server.

If deploying to a Resilient platform with an App Host, the requirements are:

- Resilient platform **>= 37.0.0**.
- The app is in a container-based format (available from the AppExchange as a **zip** file).

If deploying to a Resilient platform with an integration server, the requirements are:

- Resilient platform >= **37.0.0**.
- The app is in the older integration format (available from the AppExchange as a **zip** file which contains a **tar.gz** file).
- Integration server is running **resilient_circuits>=30.0.0**.
- If using an API key account, make sure the account provides the following minimum permissions:

Name	Permissions
Org Data	Read
Function	Read

The following Resilient platform guides provide additional information:

- *App Host Deployment Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings.
- *Integration Server Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings.
- *System Administrator Guide*: provides the procedure to install, configure and deploy apps.

The above guides are available on the IBM Knowledge Center at ibm.biz/resilient-docs. On this web page, select your Resilient platform version. On the follow-on page, you can find the *App Host Deployment Guide* or *Integration Server Guide* by expanding **Resilient Apps** in the Table of Contents pane. The System Administrator Guide is available by expanding **System Administrator**.

Cloud Pak for Security

If you are deploying to IBM Cloud Pak for Security, the requirements are:

- IBM Cloud Pak for Security >= 1.4.
- Cloud Pak is configured with an App Host.
- The app is in a container-based format (available from the AppExchange as a **zip** file).

The following Cloud Pak guides provide additional information:

- *App Host Deployment Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings. From the Table of Contents, select Case Management and Orchestration & Automation > **Orchestration and Automation Apps**.
- *System Administrator Guide*: provides information to install, configure, and deploy apps. From the IBM Cloud Pak for Security Knowledge Center table of contents, select Case Management and Orchestration & Automation > **System administrator**.

These guides are available on the IBM Knowledge Center at ibm.biz/cp4s-docs. From this web page, select your IBM Cloud Pak for Security version. From the version-specific Knowledge Center page, select Case Management and Orchestration & Automation.

Proxy Server

The app does not support a proxy server.

Installation

Install

- To install or uninstall an App or Integration on the *Resilient platform*, see the documentation at ibm.biz/resilient-docs.
- To install or uninstall an App on *IBM Cloud Pak for Security*, see the documentation at ibm.biz/cp4s-docs and follow the instructions above to navigate to Orchestration and Automation.

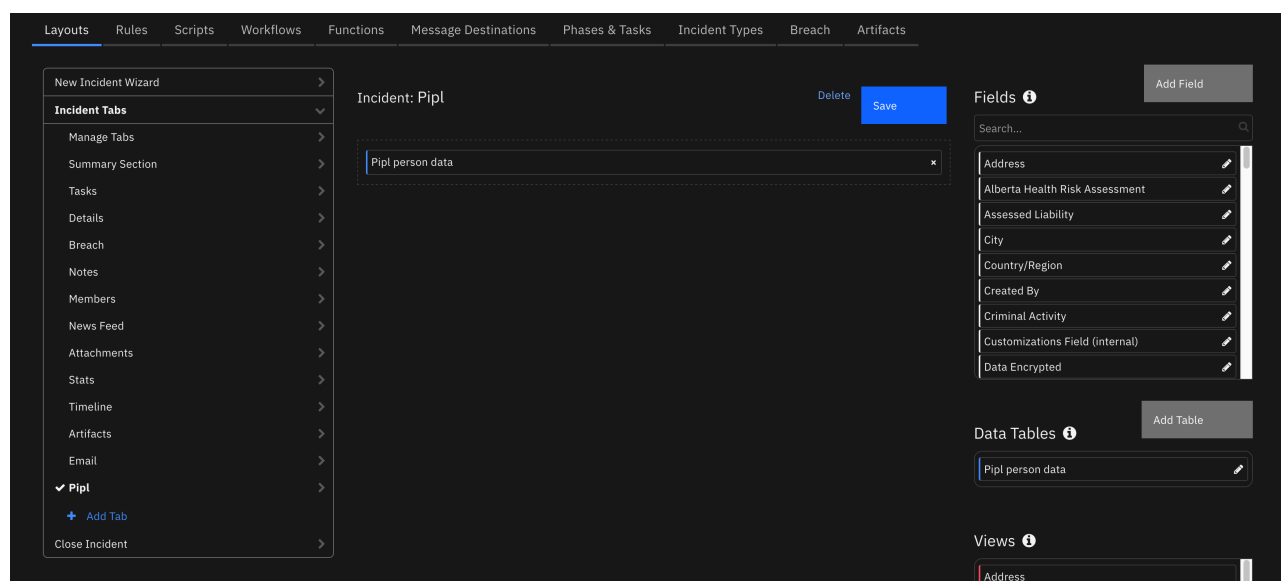
App Configuration

The following table provides the settings you need to configure the app. These settings are made in the app.config file. See the documentation discussed in the Requirements section for the procedure.

Config	Required	Example	Description
pipl_api_key	Yes	XXXXXX	API key for the Pipl API
pipl_max_no_possible_per_matches	Yes	10	Max number of persons to return if your query does not match a unique person
pipl_minimum_match	No	0.85	Float between 0 and 1. Minimum match score for a person to be returned in the results
pipl_minimum_probability	No	0.7	Float between 0 and 1. Minimum acceptable probability for inferred data
pipl_infer_persons	No	True	Boolean. True if the API should return persons made up solely from data inferred by statistical analysis from your search query.

Custom Layouts

- Import the Data Tables and Custom Fields like the screenshot below:



Function - Pipl search function

Function enriches your leads (name, email address, phone number, or social media username) with Pipl and gets their personal, professional, demographic, and contact information.

Customization Settings

Layouts Rules Scripts **Workflows** Functions Message Destinations Phases & Tasks Incident Types Breach Artifacts

Workflows / Example: Pipl search

Cancel Save & Close Save

Name Example: Pipl search

API Name example_pipl_search_function

Description Enriches your leads (name, email address, phone number, or social media username) with Pipl and gets their personal, professional, demographic, and contact information.

Object Type Artifact

Creator Brian Reid
Last Modified 01/27/2021 16:52
Last Modified By Brian Reid
Associated Rules Example: Pipl search function

Start your workflow here

Pipl search function

► Inputs:

Name	Type	Required	Example	Tooltip
pipl_artifact_type	text	Yes	—	-
pipl_artifact_value	text	Yes	—	-

► Outputs:

```
results =
{
  "version": "1.0",
  "success": true,
  "reason": null,
  "content": {
    "pipl_response": "definite match",
    "person_list": [
      {
        "@id": "a00f861a-5815-41f0-8ec9-a2dbb074cb64",
        "@search_pointer":
"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eaed4d9320bcfb9940055167
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```

```

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      },
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        "first": "Clark",
        "middle": "Joseph",
        "last": "Kent",
        "display": "Clark Joseph Kent"
      },
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        "state": "KS",
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        "house": "1000",

```

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        "apartment": "355",
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    {
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        "@last_seen": "2018-05-01",
        "@type": "home",
        "country": "US",
        "state": "KS",
        "city": "Smallville",
        "zip_code": "66605",
        "street": "Hickory Lane",
        "house": "10",
        "apartment": "1",
        "display": "10-1 Hickory Lane, Smallville, Kansas"
    }
],
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    {
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        "@last_seen": "2018-06-01",
        "@type": "home_phone",
        "country_code": 1,
        "number": 9785550145,
        "display": "978-555-0145",
        "display_international": "+1 978-555-0145"
    }
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        "address":
"full.email.available@business.subscription",
        "address_md5": "eb3e11de3c9cefc2d9d70972350e2b28",
        "display":
"full.email.available@business.subscription"
    },
    {
        "@disposable": true,
        "@email_provider": false,
        "address":
"full.email.available@business.subscription",
        "address_md5": "999e509752141a0ee42ff455529c10fc",
        "display":
"full.email.available@business.subscription"
    },
    {
        "@type": "personal",
        "@email_provider": true,
        "address":
"full.email.available@business.subscription",
        "address_md5": "501548362894b9a08f071b1565d8aa14",
        "display":
```

```

"full.email.available@business.subscription"
    },
    {
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      "@email_provider": false,
      "address":
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      "address_md5": "2610ee49440fe757e3cc4e46e5b40819",
      "display":
"full.email.available@business.subscription"
    }
  ],
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    {
      "title": "Field Reporter",
      "organization": "The Daily Planet",
      "industry": "Journalism",
      "date_range": {
        "start": "2000-12-08",
        "end": "2012-10-09"
      },
      "display": "Field Reporter at The Daily Planet
(2000-2012)"
    },
    {
      "title": "Junior Reporter",
      "organization": "The Daily Planet",
      "industry": "Journalism",
      "date_range": {
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        "end": "2000-10-10"
      },
      "display": "Junior Reporter at The Daily Planet
(1999-2000)"
    },
    {
      "title": "Top Reporter",
      "organization": "The Daily Planet",
      "industry": "Reporting",
      "display": "Top Reporter at The Daily Planet"
    }
  ],
  "educations": [
    {
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      "school": "Metropolis University",
      "date_range": {
        "start": "2005-09-01",
        "end": "2008-05-14"
      },
      "display": "B.Sc Advanced Science from Metropolis
University (2005-2008)"
    },
    {

```



```

        "@valid_since": "2015-07-18",
        "@last_seen": "2018-10-10",
        "school": "Smallville High",
        "date_range": {
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            "end": "2005-06-01"
        },
        "display": "Smallville High (2001-2005)"
    },
    ],
    "images": [
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"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_foreve
r.jpg",
            "thumbnail_token":
"AE2861B242686E7BD0CB4D9049298EB7D18FEF66D950E8AB78BCD3F484345CE74536C19A8
5D0BA3D32DC9E7D1878CD4D341254E7AD129255C6983E6E154C4530A0DAAF665EA325FC020
6F8B1D7E0B6B7AD9EBF71AFAC4C88709957ECDD78608B",
            "display":
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r.jpg"
        },
        {
            "@valid_since": "2014-08-18",
            "@last_seen": "2019-05-01",
            "url":
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Booster21.jpg",
            "thumbnail_token":
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            "display":
"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg"
        }
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    "usernames": [
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            "content": "superman@facebook",
            "display": "superman@facebook"
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        {
            "content": "@ckent",
            "display": "@ckent"
        }
    ],
    "user_ids": [
        {
            "content": "11231@facebook",
            "display": "11231@facebook"
        }
    ],

```

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    "urls": [
      {
        "@category": "professional_and_business",
        "@domain": "linkedin.com",
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        "@source_id": "edc6aa8fa3f211cfad7c12a0ba5b32f4",
        "url": "http://linkedin.com/clark.kent",
        "display": "http://linkedin.com/clark.kent"
      },
      {
        "@category": "personal_profiles",
        "@domain": "facebook.com",
        "@name": "Facebook",
        "@source_id": "5d836a4acc55922e49fc709c7a39e233",
        "url": "http://facebook.com/superman",
        "display": "http://facebook.com/superman"
      },
      {
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        "@domain": "linkedin.com",
        "url":
"https://www.linkedin.com/pub/superman/20/7a/365",
        "display":
"https://www.linkedin.com/pub/superman/20/7a/365"
      }
    ],
    "relationships": [
      {
        "@type": "family",
        "@subtype": "Adoptive Father",
        "names": [
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            "first": "Jonathan",
            "last": "Kent",
            "display": "Jonathan Kent"
          }
        ],
        "emails": [
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            "address":
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            "address_md5":
"428ffee0df26012a5a2c95b65af0025c",
            "display":
"full.email.available@business.subscription"
          }
        ]
      },
      {
        "@type": "family",
        "@subtype": "Father",
        "names": [
          {

```

```

        "first": "Jor",
        "last": "El",
        "display": "Jor El"
    }
]
},
{
    "@type": "family",
    "@subtype": "Cousin",
    "names": [
        {
            "first": "Kara",
            "last": "Kent",
            "display": "Kara Kent"
        }
    ]
},
{
    "@type": "other",
    "@subtype": "Archenemy",
    "names": [
        {
            "first": "Alexander",
            "middle": "Joseph",
            "last": "Luthor",
            "display": "Alexander Joseph Luthor"
        }
    ]
},
{
    "@type": "work",
    "@subtype": "Colleague",
    "names": [
        {
            "first": "Ron",
            "last": "Troupe",
            "display": "Ron Troupe"
        }
    ]
},
{
    "@type": "friend",
    "@subtype": "The real love",
    "names": [
        {
            "first": "Chloe",
            "middle": "Anne",
            "last": "Sullivan",
            "display": "Chloe Anne Sullivan"
        }
    ]
}
],
"ethnicities": [

```

```

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            "display": "Other"
        },
        {
            "content": "american_indian",
            "display": "American Indian"
        },
        {
            "content": "white",
            "display": "White"
        }
    ],
    "origin_countries": [
        {
            "country": "US",
            "display": "United States"
        }
    ],
    "languages": [
        {
            "language": "en",
            "region": "US",
            "display": "en_US"
        }
    ],
    "gender": {
        "@valid_since": "2004-05-16",
        "content": "male",
        "display": "Male"
    },
    "dob": {
        "date_range": {
            "start": "1986-01-01",
            "end": "1987-05-13"
        },
        "display": "34 years old"
    }
},
{
    "raw_data": "[\n    {\n        \"@id\": \"a00f861a-5815-41f0-8ec9-a2dbb074cb64\", \n        \"@match\": 1.0, \n        \"@search_pointer\": \"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eae4d9320bcfbb9940055167dba6bd2d936c8af29efcf70b569cad8e3d3cf55e956ac1fb43bee7476127e1746cd442207d6bff13ed82e4e6c80b8306ff74afbfb301fdc93f4e0d3b6c5d8b6b57db7546813506ea2d8f613dbc58de5cab9281ced1def935f7e92b8c1f07441fda6eb534f6e8a39eb687256043aac4a2eb3526ee5e6860b75fed448a4fa2f66f72012593f91a854f6c3b082999dfae3a72b50292c99916c106f233c9d0bb16ac85650b1584e039c4298319045624b53895bf0e7ff6c7fa2196d7302bd6a2239e0855ab36f441ba336fac06bf5a9235cc05479f7262571c5e4961464b3513b543879036e347b5ed780b9a0d9088bcc11632036711f6ebb3815143cb618484939d7e6b527feef4ac7f85ad3aa7f663165cae3cbacf80c81ec6f8203eca62a0edb74a29bda7c5dea39da96d075294e41aaef353db096cddcf224713ee7d3c8b286893121ed84dabc5e9cd7177b7bcf2e03687a1c93cfc89b8b47d002acb52e331ff2a730bcd72c130b2ab9e20c5da2d46afbc2cf87ff547910de9414bb8ad436cc89fea9bdaca8c2a0fb297b56fc9bf54a561607aa18a5dc"
    }
]
```

```

966744ee2807c2faa30a92b0e05345fc31e2af240fffecf108c7ce0f8ebc482d84d344cd99
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\ "organization\ ": \ "The Daily Planet\ ",\n          \ "title\ ":
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```



```

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                        "display": "@ckent",
                      }
                    ]
                  }
                ]
              }
            ]
          }
        ]
      }
    ]
  }
}

```

► Example Pre-Process Script:

```
# Required inputs are: the artifact_type and artifact_value
inputs.pipl_artifact_type = artifact.type
inputs.pipl_artifact_value = artifact.value
```

► Example Post-Process Script:

```
from java.util import Date

def add_row_to_pipl_datatable(db_timestamp, db_artifact_value,
db_match_no, db_property, db_value, db_match, db_inferred):
    pipl_person_data = incident.addRow("pipl_person_data")
    pipl_person_data.pipl_timestamp = db_timestamp
    pipl_person_data.pipl_artifact_value = db_artifact_value
    pipl_person_data.pipl_possible_match_no = db_match_no
    pipl_person_data.pipl_property = db_property
    pipl_person_data.pipl_value = db_value
    pipl_person_data.pipl_match = db_match
    pipl_person_data.pipl_inferred = db_inferred

if results.success:

    # Create a datatable from pipl response
    possible_person_counter = 0
    for person in results.person_list:

        # generate result_id and timestamp
        possible_person_counter += 1
        now = Date()

        # 0-1. The level of confidence we have that this is the person you're
        looking for.
        match = str(person.get("@match", ""))

        # Whether this person is made up solely from data inferred by
        statistical analysis from your search query.
        # You can control inference using the minimum_probability parameter,
        and inference of persons using the infer_persons parameter.
        inferred = str(person.get("@inferred", ""))

        # Person data
        names = person.get("names", [])
        for name in names:
            add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "name", name.get("display", ""), match, inferred)

        emails = person.get("emails", [])
        for email in emails:
            add_row_to_pipl_datatable(now, artifact.value,
```

```
possible_person_counter, "email address", email.get("address", ""), match,
inferred)
    add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "address_md5", email.get("address_md5", ""),
match, inferred)

    usernames = person.get("usernames", [])
    for username in usernames:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "username", username.get("content", ""), match,
inferred)

    phones = person.get("phones", [])
    for phone in phones:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "phone", phone.get("display_international", ""),
match, inferred)

    gender = person.get("gender")
    if gender:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "gender", gender.get("content", ""), match,
inferred)

    dob = person.get("dob")
    if dob:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "dob", dob.get("display", ""), match, inferred)

    addresses = person.get("addresses", [])
    for address in addresses:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "address", address.get("display", ""), match,
inferred)

    jobs = person.get("jobs", [])
    for job in jobs:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "job", job.get("display", ""), match, inferred)

    educations = person.get("educations", [])
    for edu in educations:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "education", edu.get("display", ""), match,
inferred)

    user_ids = person.get("user_ids", [])
    for usr_id in user_ids:
        add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "user_id", usr_id.get("content", ""), match,
inferred)

    images = person.get("images", [])
    for image in images:
```

```

        image_url = """"<a href='{0}'>{0}</a>"""".format(image.get("url", ""))
    if image.get("url", "") else ""
        add_row_to_pipl_datatable(now, artifact.value,
    possible_person_counter, "image", image_url, match, inferred)

    urls = person.get("urls", [])
    for url in urls:
        url_url = """"<a href='{0}'>{0}</a>"""".format(url.get("url", "")) if
    url.get("url", "") else ""
        add_row_to_pipl_datatable(now, artifact.value,
    possible_person_counter, "url", url_url, match, inferred)

    # Save the json result as an Note
    raw_data = results.raw_data if results.raw_data else ""
    counter = possible_person_counter if possible_person_counter > 0 else ""
    noteText = u""""Pipl Data API response for artifact_value {} returned {}
    {}": \n{0}"""".format(artifact.value, counter, results.pipl_response,
    raw_data)
    incident.addNote(noteText)

```

Script - Create Artifact from Pipl Data

Script creates an artifact based from a selected row in Pipl possible person data.

Object: pipl_person_data

► Script Text:

```

# Create an artifact based from a selected row in Pipl possible person
data.

# artifact description
artifact_description = u""""Created by Pipl Data results generated for
artifact_value {}"""".format(row.pipl_artifact_value)

# artifact type - read it from the menu item's activity field
artifact_type = rule.properties.pipl_artifact_type

# artifact value
# pipl_value column in Pip possible person data is in this format
{'format': u'html', u'content': u'your api data'}
rich_text_pipl_value = row.pipl_value
artifact_value = rich_text_pipl_value.get("content")

# create an artifact
if artifact_value:
    incident.addArtifact(artifact_type, artifact_value,
    artifact_description)

```

Data Table - Pipl person data

Pipl person data

Search...

Timestamp	Artifact value	Property	Value	Possible people match no.	Match	Inferred
01/27/2021 18:24:39	lorem ipsum	lorem ipsum	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer et viverra lorem, quis porta tortor. Aliquam euismod dignissim lectus, nec malesuada magna fermentum vel. Ut venenatis molestie augue quis volutpat. Donec pretium dui vitae suscipit fermentum. In finibus ligula sed ipsum scelerisque volutpat. Pellentesque vel sagittis diam. Pellentesque sodales	lorem ipsum	lorem ipsum	lorem ipsum

API Name:

pipl_person_data

Columns:

Column Name	API Access Name	Type	Tooltip
Artifact value	pipl_artifact_value	text	-
Inferred	pipl_inferred	text	-
Match	pipl_match	text	-
Possible people match no.	pipl_possible_match_no	text	-
Property	pipl_property	text	-
Timestamp	pipl_timestamp	datetimepicker	-
Value	pipl_value	textarea	-

Rules

Rule Name	Object	Workflow Triggered
Example: Create an Artifact from Pipl data	pipl_person_data	-
Example: Pipl search function	artifact	example_pipl_search_function

Troubleshooting & Support

Refer to the documentation listed in the Requirements section for troubleshooting information.

For Support

This is a IBM Community provided App. Please search the Community <https://ibm.biz/resilientcommunity> for assistance.