# Pipl Function for IBM Resilient

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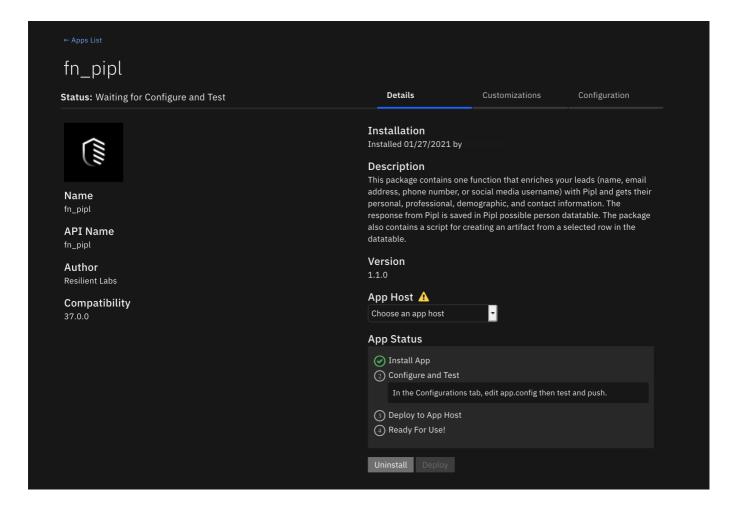
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# Release Notes

Version	Date	Notes
1.1.0	01/2021	App Host Support
1.0.0	12/2018	Initial Release

# Overview

**Resilient Circuits Functions to query Pipl Data API** 



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.qz 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.

#### 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.

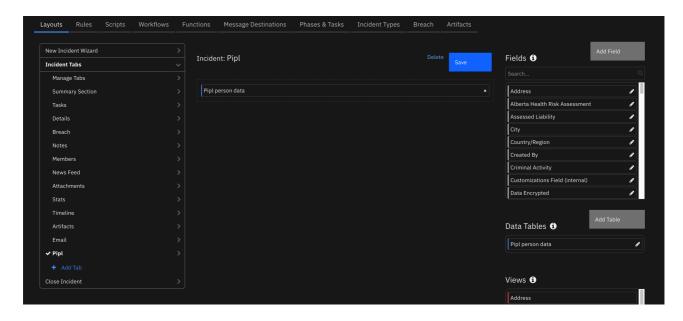
## **App Configuration**

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	XXXXX	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.

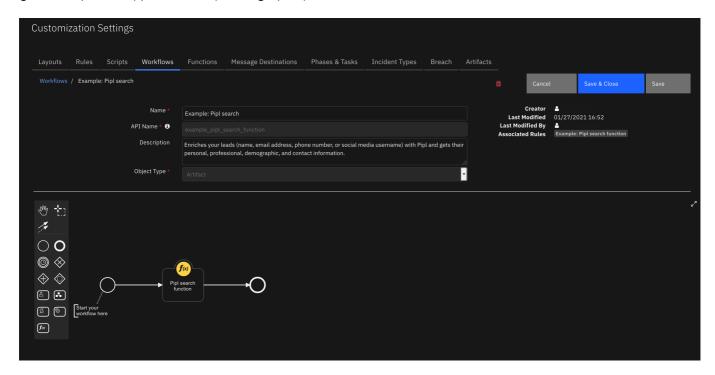
## **Custom Layouts**

• 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.



#### ► Inputs:

Name	Туре	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":
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```
"@match": 1.0,
"names": [
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        "last": "El",
        "display": "Kal El"
   },
        "@valid_since": "2010-05-11",
        "first": "Clark",
        "middle": "Joseph",
        "last": "Kent",
        "display": "Clark Joseph Kent"
   },
        "display": "The red blue blur"
   }
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        "@type": "work",
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        "state": "KS",
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        "street": "Broadway",
        "house": "1000",
```

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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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                        "@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",
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                        "display":
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                    },
                        "@disposable": true,
                        "@email_provider": false,
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                        "display":
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                        "display":
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```
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                        "@disposable": true,
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                ],
                "jobs": [
                        "title": "Field Reporter",
                        "organization": "The Daily Planet",
                        "industry": "Journalism",
                        "date_range": {
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                            "end": "2012-10-09"
                        "display": "Field Reporter at The Daily Planet
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                        "organization": "The Daily Planet",
                        "industry": "Journalism",
                        "date_range": {
                            "start": "1999-10-10",
                            "end": "2000-10-10"
                        },
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(1999-2000)"
                    },
                        "title": "Top Reporter",
                        "organization": "The Daily Planet",
                        "industry": "Reporting",
                        "display": "Top Reporter at The Daily Planet"
                    }
                ],
                "educations": [
                        "degree": "B.Sc Advanced Science",
                        "school": "Metropolis University",
                        "date_range": {
                            "start": "2005-09-01",
                            "end": "2008-05-14"
                        },
                        "display": "B.Sc Advanced Science from Metropolis
University (2005-2008)"
                    },
```

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"@valid_since": "2015-07-18",
                        "@last seen": "2018-10-10",
                        "school": "Smallville High",
                        "date_range": {
                            "start": "2001-09-01".
                            "end": "2005-06-01"
                        },
                        "display": "Smallville High (2001-2005)"
                    }
                ],
                "images": [
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                        "url":
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r.jpg"
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                        "@last_seen": "2019-05-01",
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                        "display":
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Booster21.jpg"
                    }
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                "usernames": [
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                        "content": "superman@facebook",
                        "display": "superman@facebook"
                    },
                        "content": "@ckent",
                        "display": "@ckent"
                    }
                ],
                "user_ids": [
                    {
                        "content": "11231@facebook",
                        "display": "11231@facebook"
                    }
                ],
```

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"urls": [
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                        "@domain": "linkedin.com",
                        "@name": "LinkedIn",
                        "@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"
                    },
                        "@category": "professional and business",
                        "@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"
                            }
                        ],
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                                 "@email_provider": false,
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                                 "address_md5":
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                                 "display":
"full.email.available@business.subscription"
                        1
                    },
                        "@type": "family",
                        "@subtype": "Father",
                        "names": [
```

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"first": "Jor",
                "last": "El",
                "display": "Jor El"
            }
        1
    },
        "@type": "family",
        "@subtype": "Cousin",
        "names": [
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                "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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"content": "other",
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                    },
                        "content": "american indian",
                        "display": "American Indian"
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                        "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
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                  \"@type\": \"work\",\n
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\"2005-02-12\",\n
\"city\": \"Metropolis\",\n
                                          \"country\": \"US\",\n
\"display\": \"1000-355 Broadway, Metropolis, Kansas\",\n
                                     \"state\": \"KS\",\n
\"house\": \"1000\",\n
\"street\": \"Broadway\"\n
                                     },\n
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                },
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                    "@email_provider": false,
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                    "industry": "Journalism",
                    "date_range": {
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                        "end": "2012-10-09"
                    },
                    "display": "Field Reporter at The Daily Planet (2000-
2012)"
                },
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                    "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": {
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                        "end": "2008-05-14"
                    },
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                    "display": "@ckent"
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                    "@domain": "facebook.com",
                    "@name": "Facebook",
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```

```
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                             "display": "Jonathan Kent"
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                    ],
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"full.email.available@business.subscription"
                        }
                },
                {
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                             "last": "El",
                             "display": "Jor El"
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                    "@subtype": "Cousin",
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                         {
                             "first": "Kara",
                             "last": "Kent",
                             "display": "Kara Kent"
                        }
                    ]
                },
                    "@type": "other",
                    "@subtype": "Archenemy",
                    "names": [
                             "first": "Alexander",
                             "middle": "Joseph",
```

```
"last": "Luthor",
                "display": "Alexander Joseph Luthor"
            }
        ]
    },
    {
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        "@subtype": "Colleague",
        "names": [
            {
                "first": "Ron",
                "last": "Troupe",
                "display": "Ron Troupe"
            }
        ]
    },
    {
        "@type": "friend",
        "@subtype": "The real love",
        "names": [
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                "last": "Sullivan",
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            }
        ]
    }
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    },
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    },
        "content": "white",
        "display": "White"
   }
],
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        "display": "United States"
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```

```
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            "dob": {
                "date_range": {
                    "start": "1986-01-01",
                    "end": "1987-05-13"
                },
                "display": "34 years old"
            }
        }
    ],
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                                                  \"apartment\": \"1\",\n
\"city\": \"Smallville\",\n
                                          \"country\": \"US\",\n
\"display\": \"10-1 Hickory Lane, Smallville, Kansas\",\n
\"house\": \"10\",\n
                                   \"state\": \"KS\",\n
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},\n
               {\n
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                                 \"@disposable\": true,\n
},\n
               {\n
\"@email_provider\": false,\n
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\"display\": \"full.email.available@business.subscription\"\n
                                  \"@email_provider\": true,\n
},\n
               {\n
\"@type\": \"personal\",\n
                                         \"address\":
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\"address_md5\": \"501548362894b9a08f071b1565d8aa14\",\n
\"display\": \"full.email.available@business.subscription\"\n
},\n
                                 \"@disposable\": true,\n
               {\n
\"@email_provider\": false,\n
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                  \"date_range\": {\n
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10-09\",\n
                   \"display\": \"Field Reporter at The Daily Planet
},\n
(2000-2012)\",\n
                               \"industry\": \"Journalism\",\n
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                                                        \"title\":
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                            },\n
                                               {\n
\"date range\": {\n
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                                                        \"title\": \"Top
                                              \"languages\": [\n
Reporter\"\n
                       }\n
                                  ],\n
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                        \"region\": \"US\"\n
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                             },\n
\"last\": \"El\"\n
                                             {\n
\"@valid_since\": \"2010-05-11\",\n
                                                  \"display\": \"Clark
                               \"first\": \"Clark\",\n
Joseph Kent\",\n
\"last\": \"Kent\",\n
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                                  \"display\": \"The red blue blur\"\n
},\n
              {\n
}\n
          ],\n
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                                     \"display\": \"United States\"\n
         ],\n
                      \"phones\": [\n
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                                \"@valid_since\": \"2003-08-18\",\n
\"country_code\": 1,\n
                                     \"display\": \"978-555-0145\",\n
\''display_international\": \"+1 978-555-0145\",\n
\"number\": 9785550145\n
                                   }\n
                                              ],\n
\"relationships\": [\n
                                                    \"@subtype\":
                                 {\n
\"Adoptive Father\",\n
                                     \"@type\": \"family\",\n
\"emails\": [\n
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\"@email_provider\": false,\n
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\"full.email.available@business.subscription\",\n
```

```
\"address_md5\": \"428ffee0df26012a5a2c95b65af0025c\",\n
\"display\": \"full.email.available@business.subscription\"\n
                                       \"names\": [\n
}\n
                   ],\n
                           \"display\": \"Jonathan Kent\",\n
{\n
\"first\": \"Jonathan\",\n
                                                  \"last\": \"Kent\"\n
                                  },\n
                                                   \{ \n
\"@subtype\": \"Father\",\n
                                           \"@type\": \"family\",\n
\"names\": [\n
                                                              \"display\":
                                  {\n
\"Jor El\",\n
                                     \"first\": \"Jor\",\n
\"last\": \"El\"\n
                                   \"@subtype\": \"Cousin\",\n
                {\n
\"@type\": \"family\",\n
                                        \"names\": [\n
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                                              \"last\": \"Kent\"\n
                   1\n
                                  },\n
                                                  {\n
\"@subtype\": \"Archenemy\",\n
                                              \"@type\": \"other\",\n
\"names\": [\n
                                  {\n
                                                              \"display\":
\"Alexander Joseph Luthor\",\n
                                                      \"first\":
\"Alexander\",\n
                                        \"last\": \"Luthor\",\n
\"middle\": \"Joseph\"\n
                                                                ]\n
                                   \"@subtype\": \"Colleague\",\n
\"@type\": \"work\",\n
                                      \"names\": [\n
                           \"display\": \"Ron Troupe\",\n
\{ \n
\"first\": \"Ron\",\n
                                             \"last\": \"Troupe\"\n
                   1\n
                                  },\n
                                                  {\n
                                                   \"@type\": \"friend\",\n
\"@subtype\": \"The real love\",\n
\"names\": [\n
                                                             \"display\":
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                                                  \"first\": \"Chloe\",\n
\"Chloe Anne Sullivan\",\n
\"last\": \"Sullivan\",\n
                                                 \"middle\": \"Anne\"\n
}\n
                                  }\n
                                             ],\n
                                                         \"urls\": [\n
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{\n
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\"display\": \"http://linkedin.com/clark.kent\",\n
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                                                },\n
\"@category\": \"personal_profiles\",\n
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\"facebook.com\",\n
                                   \"@name\": \"Facebook\",\n
\"@source_id\": \"5d836a4acc55922e49fc709c7a39e233\",\n
\"display\": \"http://facebook.com/superman\",\n
                                                                 \"url\":
\"http://facebook.com/superman\"\n
                                              },\n
                                                               {\n
\"@category\": \"professional_and_business\",\n
\"@domain\": \"linkedin.com\",\n
                                                \"display\":
\"https://www.linkedin.com/pub/superman/20/7a/365\",\n
\"url\": \"https://www.linkedin.com/pub/superman/20/7a/365\"\n
}\n
           ],\n
                       \"user ids\": [\n
                                                    {\n
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                                                  \"display\":
\"11231@facebook\"\n
                                }\n
                                           ],\n
                                                       \"usernames\": [\n
                   \"content\": \"superman@facebook\",\n
{\n
\"display\": \"superman@facebook\"\n
\"content\": \"@ckent\",\n
                                          \"display\": \"@ckent\"\n
}\n
          ]\n }\n]"
}
```

#### ► 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 usrname in usernames:
      add_row_to_pipl_datatable(now, artifact.value,
possible_person_counter, "username", usrname.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{}""".format(artifact.value, counter, results.pipl_response,
raw data)
  incident.addNote(noteText)
```

# Script - Create Artifact from Pipl Data

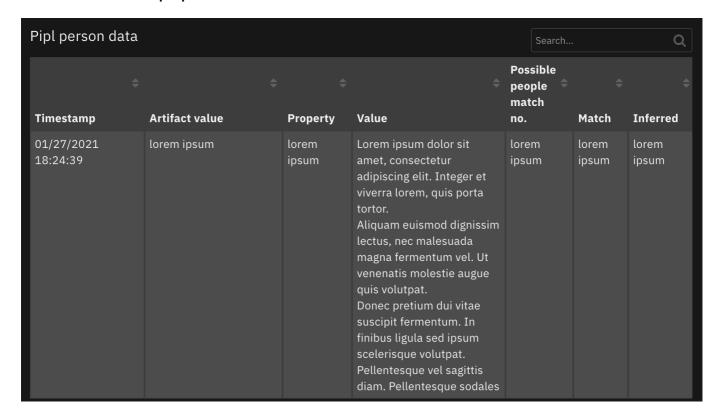
Script creates an artifact based from a selected row in Pipl possible person data.

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
{u'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



### **API Name:**

pipl\_person\_data

## **Columns:**

Column Name	API Access Name	Туре	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.