# None

## Table of Contents

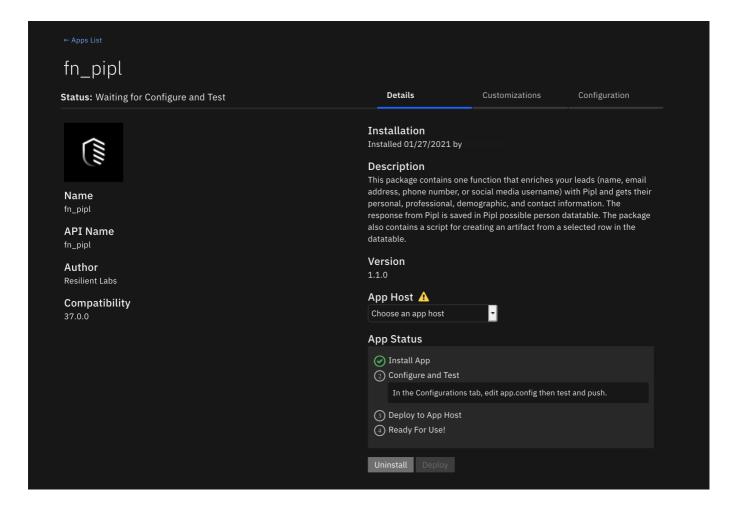
- Release Notes
- Overview
  - Key Features
- Requirements
  - Resilient platform
  - Cloud Pak for Security
  - Proxy Server
- Installation
  - Install
  - App Configuration
  - Custom Layouts
- Function Pipl search function
- Script Create Artifact from Pipl Data
- Data Table Pipl person data
- Rules
- Troubleshooting & Support

# 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.

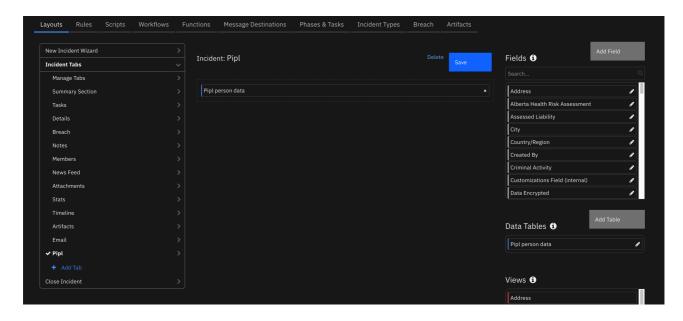
## **App Configuration**

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.

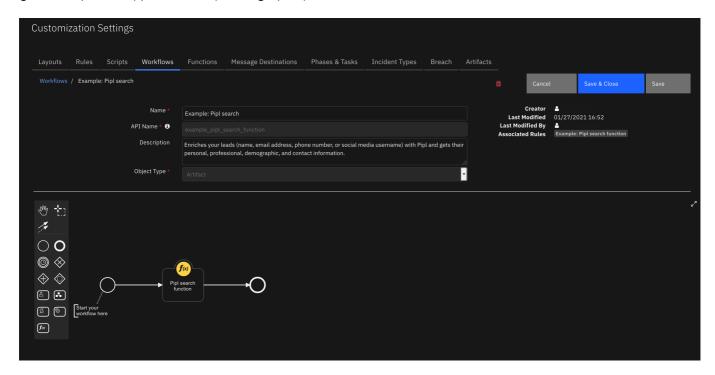
## **Custom Layouts**

• 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":
"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eaed4d9320bcfbb9940055167
dba6bd2d936c8af29efcf70b569cad8e3d3cf55e956ac1fb43bee7476127e1746cd442207d
6bff13ed82e4e6c80b8306ff74afbf301fdc93f4e0d3b6c5d8b6b57db7546813506ea2d8f6
13dbc58de5cab9281ced1def935f7e92b8c1f07441fda6eb534f6e8a39eb687256043aac4a
2eb3526ee5e6860b75fed448a4fa2f66f72012593f91a854f6c3b082999dfae3a72b50292c
99916c106f233c9d0bb16ac85650b1584e039c4298319045624b53895bf0e7ff6c7fa2196d
7302bd6a2239e0855ab36f441ba336fac06bf5a9235cc05479f7262571c5e4961464b3513b
543879036e347b5ed780b9a0d9088bcc11632036711f6ebb3815143cb618484939d7e6b527
```

feef4ac7f85ad3aa7f663165cae3cbacf80c81ec6f8203eca62a0edb74a29bda7c5dea39da 96d075294e41aaef353db096cddcf224713ee7d3c8b286893121ed84dabc5e9cd7177b7bcf 2e03687a1c93cfc89b8b47d002acb52e331ff2a730bcdc72c130b2ab9e20c5da2d46afbc2c f87ff547910de9414bb8ad436cc89fea9bdaca8c2a0fb297b56fc9bf54a561607aa18a5dc9 66744ee2807c2faa30a92b0e05345fc31e2af240fffecf108c7ce0f8ebc482d84d344cd996 68ad3799a1ae28df6b4c06c28f1b3f4744880b959b769efad87b02be9ba567d647142ced2d 00ff5b8f47da4c3b4e0fd54347fe4839fb117584eb2c07dfa239b9cd64676ad3a5aff1140e 3c2d591ef7da67171afcd1adbef3628ac21cf56d9465212ea01555c736a7d17d3435f68526 dc21354f7b70bb768202d3c90e08cc028ed4f97500e3445f7ad9626d3dbe61824dd59c2ac7 7603ab39ed8e46078c5108205f689e8ede8e0de2fe230247c6f9242fa6ebd77a7e2e629e11 acfd08612cc6d88e696aa28d1ccb4210ef0a568b5a54175e6246a2e79225fbbe39e3a8bddc 884fd9a2b6760f0f6a76b7fb2d1fdf48d81393374e5e4b8442e5af8ba50cefbcafbb15d65c f5ff22233aedbbe5931de02e1203df2704838cd0e727dc916dcf6f3f2c4fa925f7c1bdc356 5133cddd338ef8f2f93d924456fc317d5f4414b815977014bd551aec83c8f60fcbc1d1fed6 f996776302ce8324e66ceba93636e942bbbd6eb6bbf4762a2063a1cda838e20b9d551a03c5 a6b6613a443f90d7a2d6c8517a1f18202e11c2dee7295bb3cdbe755bb0105d142a9fc0b322 0d4615b1b47fd3991514a24156f99c011b8239491b5d70414162811ff60cf0b6d5598743e1 7bd4cfe9f0f32e8ab02599ca010f75d86c9e60ca8958fa575d04eb20f807352634c53ae285 a750cfc6bac6b2836f4ba42b2cc041c37a8529a4e87b99c7e36fd49d318c09188b49ce3ef5 96f951c93b1af5a099b37f5dc75ed232f10b377b904ec361e764d12f28f2bfc9b8b891140f 46f475fedcdeb2cd769994dbed0a6c8bd45d75588bc7de9b6d69ed8592eb3d65c2a4480d07 04a484e0904fd7cc6c990ec3911b0fbe35d095ef2674904dbd97ce9b70eb480d1f75a86dda 86c02c830ccfe9fe86856756babbb8554e684155d3c3dc9f86fbd12c18b10e0382f38817fb d76fb3f84c4ad4e0c529962e03e77310d5336985e456c26a2f0bf9e2d8f40e6d5f2ad3a3e5 1b7d1c5a743768211e924d5083bf55aae",

```
"@match": 1.0,
"names": [
   {
        "@valid_since": "2011-07-11",
        "@last_seen": "2018-04-01",
        "first": "Kal",
        "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"
   }
"addresses": [
        "@valid_since": "2005-02-12",
        "@type": "work",
        "country": "US",
        "state": "KS",
        "city": "Metropolis",
        "street": "Broadway",
        "house": "1000",
```

```
"apartment": "355",
                        "display": "1000-355 Broadway, Metropolis, Kansas"
                    },
                    {
                        "@valid since": "1999-02-01",
                        "@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"
                    }
                ],
                "phones": [
                    {
                        "@valid_since": "2003-08-18",
                        "@last_seen": "2018-06-01",
                        "@type": "home_phone",
                        "country_code": 1,
                        "number": 9785550145,
                        "display": "978-555-0145",
                        "display_international": "+1 978-555-0145"
                    }
                ],
                "emails": [
                    {
                        "@type": "work",
                        "@email_provider": false,
                        "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"
                    },
                        "@disposable": true,
                        "@email provider": false,
                        "address":
"full.email.available@business.subscription",
                        "address md5": "2610ee49440fe757e3cc4e46e5b40819",
                        "display":
"full.email.available@business.subscription"
                ],
                "jobs": [
                        "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": {
                            "start": "1999-10-10",
                            "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": [
                        "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)"
                    },
```

```
"@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": [
                    {
                        "url":
"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_foreve
r.jpg",
                        "thumbnail token":
"AE2861B242686E7BD0CB4D9049298EB7D18FEF66D950E8AB78BCD3F484345CE74536C19A8
5D0BA3D32DC9E7D1878CD4D341254E7AD129255C6983E6E154C4530A0DAAF665EA325FC020
6F8B1D7E0B6B7AD9EBF71AFAC4C88709957ECDD78608B",
                        "display":
"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_foreve
r.jpg"
                    },
                        "@valid since": "2014-08-18",
                        "@last_seen": "2019-05-01",
                        "url":
"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg",
                        "thumbnail token":
"AE2861B242686E7BD0CB4D9049298EB5D18FEF66D950E8AB78BCD3F484345CE74536C19A8
5D0BA3D32DC9E7D1878CD4D341254E7AD12C25596CC3E7F51186468FD84B26F5EA234EF154
6E7F5CDF7F7F5BA84B228F4A349812F8C57A1DE7B6388B6",
                        "display":
"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg"
                    }
                ],
                "usernames": [
                    {
                        "content": "superman@facebook",
                        "display": "superman@facebook"
                    },
                        "content": "@ckent",
                        "display": "@ckent"
                    }
                ],
                "user_ids": [
                    {
                        "content": "11231@facebook",
                        "display": "11231@facebook"
                    }
                ],
```

```
"urls": [
                    {
                        "@category": "professional_and_business",
                        "@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": [
                            {
                                 "first": "Jonathan",
                                "last": "Kent",
                                 "display": "Jonathan Kent"
                            }
                        ],
                        "emails": [
                            {
                                 "@email_provider": false,
                                "address":
"full.email.available@business.subscription",
                                 "address_md5":
"428ffee0df26012a5a2c95b65af0025c",
                                 "display":
"full.email.available@business.subscription"
                        1
                    },
                        "@type": "family",
                        "@subtype": "Father",
                        "names": [
```

```
"first": "Jor",
                "last": "El",
                "display": "Jor El"
            }
        1
    },
        "@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": [
```

```
"content": "other",
                        "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\":
\"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eaed4d9320bcfbb994005516
7dba6bd2d936c8af29efcf70b569cad8e3d3cf55e956ac1fb43bee7476127e1746cd442207
d6bff13ed82e4e6c80b8306ff74afbf301fdc93f4e0d3b6c5d8b6b57db7546813506ea2d8f
613dbc58de5cab9281ced1def935f7e92b8c1f07441fda6eb534f6e8a39eb687256043aac4
a2eb3526ee5e6860b75fed448a4fa2f66f72012593f91a854f6c3b082999dfae3a72b50292
c99916c106f233c9d0bb16ac85650b1584e039c4298319045624b53895bf0e7ff6c7fa2196
d7302bd6a2239e0855ab36f441ba336fac06bf5a9235cc05479f7262571c5e4961464b3513
b543879036e347b5ed780b9a0d9088bcc11632036711f6ebb3815143cb618484939d7e6b52
7feef4ac7f85ad3aa7f663165cae3cbacf80c81ec6f8203eca62a0edb74a29bda7c5dea39d
a96d075294e41aaef353db096cddcf224713ee7d3c8b286893121ed84dabc5e9cd7177b7bc
f2e03687a1c93cfc89b8b47d002acb52e331ff2a730bcdc72c130b2ab9e20c5da2d46afbc2
cf87ff547910de9414bb8ad436cc89fea9bdaca8c2a0fb297b56fc9bf54a561607aa18a5dc
```

```
966744ee2807c2faa30a92b0e05345fc31e2af240fffecf108c7ce0f8ebc482d84d344cd99
668ad3799a1ae28df6b4c06c28f1b3f4744880b959b769efad87b02be9ba567d647142ced2
d00ff5b8f47da4c3b4e0fd54347fe4839fb117584eb2c07dfa239b9cd64676ad3a5aff1140
e3c2d591ef7da67171afcd1adbef3628ac21cf56d9465212ea01555c736a7d17d3435f6852
6dc21354f7b70bb768202d3c90e08cc028ed4f97500e3445f7ad9626d3dbe61824dd59c2ac
77603ab39ed8e46078c5108205f689e8ede8e0de2fe230247c6f9242fa6ebd77a7e2e629e1
1acfd08612cc6d88e696aa28d1ccb4210ef0a568b5a54175e6246a2e79225fbbe39e3a8bdd
c884fd9a2b6760f0f6a76b7fb2d1fdf48d81393374e5e4b8442e5af8ba50cefbcafbb15d65
cf5ff22233aedbbe5931de02e1203df2704838cd0e727dc916dcf6f3f2c4fa925f7c1bdc35
65133cddd338ef8f2f93d924456fc317d5f4414b815977014bd551aec83c8f60fcbc1d1fed
6f996776302ce8324e66ceba93636e942bbbd6eb6bbf4762a2063a1cda838e20b9d551a03c
5a6b6613a443f90d7a2d6c8517a1f18202e11c2dee7295bb3cdbe755bb0105d142a9fc0b32
20d4615b1b47fd3991514a24156f99c011b8239491b5d70414162811ff60cf0b6d5598743e
17bd4cfe9f0f32e8ab02599ca010f75d86c9e60ca8958fa575d04eb20f807352634c53ae28
5a750cfc6bac6b2836f4ba42b2cc041c37a8529a4e87b99c7e36fd49d318c09188b49ce3ef
596f951c93b1af5a099b37f5dc75ed232f10b377b904ec361e764d12f28f2bfc9b8b891140
f46f475fedcdeb2cd769994dbed0a6c8bd45d75588bc7de9b6d69ed8592eb3d65c2a4480d0
704a484e0904fd7cc6c990ec3911b0fbe35d095ef2674904dbd97ce9b70eb480d1f75a86dd
a86c02c830ccfe9fe86856756babbb8554e684155d3c3dc9f86fbd12c18b10e0382f38817f
bd76fb3f84c4ad4e0c529962e03e77310d5336985e456c26a2f0bf9e2d8f40e6d5f2ad3a3e
51b7d1c5a743768211e924d5083bf55aae\",\n \"addresses\": [\n
                  \"@type\": \"work\",\n
                                                        \"@valid since\":
                                \"apartment\": \"355\",\n
\"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
\"@last_seen\": \"2018-05-01\",\n
                                                \"@type\": \"home\",\n
\"@valid_since\": \"1999-02-01\",\n
                                                 \"apartment\": \"1\",\n
\"city\": \"Smallville\",\n
                                          \"country\": \"US\",\n
\"display\": \"10-1 Hickory Lane, Smallville, Kansas\",\n
                                \"state\": \"KS\",\n
\"house\": \"10\",\n
                                              \"zip_code\": \"66605\"\n
\"street\": \"Hickory Lane\",\n
          ],\n \"dob\": {\n
                                              \"date_range\": {\n
\"end\": \"1987-05-13\",\n
                                         \"start\": \"1986-01-01\"\n
               \"display\": \"34 years old\"\n
                                                     },\n
\"educations\": [\n
                             {\n
                                                 \"date_range\": {\n
\"end\": \"2008-05-14\",\n
                                             \"start\": \"2005-09-01\"\n
                   \"degree\": \"B.Sc Advanced Science\",\n
},\n
\"display\": \"B.Sc Advanced Science from Metropolis University (2005-
2008)\",\n
                   \"school\": \"Metropolis University\"\n
               {\n
                                  \"@last_seen\": \"2018-10-10\",\n
},\n
\"@valid_since\": \"2015-07-18\",\n
                                                  \"date_range\": {\n
\"end\": \"2005-06-01\",\n
                                             \"start\": \"2001-09-01\"\n
                   \"display\": \"Smallville High (2001-2005)\",\n
\"school\": \"Smallville High\"\n
                                                      ],\n
                                            \"@email_provider\":
\"emails\": [\n
                          {\n
                       \"@type\": \"work\",\n
                                                             \"address\":
false,\n
\"full.email.available@business.subscription\",\n
\"address_md5\": \"eb3e11de3c9cefc2d9d70972350e2b28\",\n
\"display\": \"full.email.available@business.subscription\"\n
                             \"@disposable\": true,\n
\"@email_provider\": false,\n
                                            \"address\":
\"full.email.available@business.subscription\",\n
```

```
\"address_md5\": \"999e509752141a0ee42ff455529c10fc\",\n
\"display\": \"full.email.available@business.subscription\"\n
                                 \"@email provider\": true,\n
},\n
               {\n
\"@type\": \"personal\",\n
                                         \"address\":
\"full.email.available@business.subscription\",\n
\"address md5\": \"501548362894b9a08f071b1565d8aa14\",\n
\"display\": \"full.email.available@business.subscription\"\n
                                 \"@disposable\": true,\n
\"@email provider\": false,\n
                                            \"address\":
\"full.email.available@business.subscription\",\n
\"address_md5\": \"2610ee49440fe757e3cc4e46e5b40819\",\n
\"display\": \"full.email.available@business.subscription\"\n
                      \"ethnicities\": [\n
          ],\n
\"content\": \"other\",\n
                                        \"display\": \"Other\"\n
},\n
               {\n
                                 \"content\": \"american indian\",\n
\"display\": \"American Indian\"\n
                                            },\n
\"content\": \"white\",\n
                                        \"display\": \"White\"\n
         ],\n
                   \"gender\": {\n
                                                \"@valid since\":
\"2004-05-16\",\n
                           \"content\": \"male\",\n
\"display\": \"Male\"\n
                                         \"images\": [\n
                                                                    {\n
                              },\n
\"display\":
\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies forev
er.jpg\",\n
                          \"thumbnail token\":
\"AE2861B242686E7BD0CB4D9049298EB7D18FEF66D950E8AB78BCD3F484345CE74536C19A
85D0BA3D32DC9E7D1878CD4D341254E7AD129255C6983E6E154C4530A0DAAF665EA325FC02
06F8B1D7E0B6B7AD9EBF71AFAC4C88709957ECDD78608B\",\n
\"url\":
\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies forev
                                                        \"@last seen\":
er.jpg\"\n
                     },\n
                                    {\n
\"2019-05-01\",\n
                                \"@valid_since\": \"2014-08-18\",\n
\"display\":
\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
                                \"thumbnail_token\":
Booster21.jpg\",\n
\"AE2861B242686E7BD0CB4D9049298EB5D18FEF66D950E8AB78BCD3F484345CE74536C19A
85D0BA3D32DC9E7D1878CD4D341254E7AD12C25596CC3E7F51186468FD84B26F5EA234EF15
46E7F5CDF7F7F5BA84B228F4A349812F8C57A1DE7B6388B6\",\n
\"url\":
\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg\"\n
                                       ],\n \"jobs\": [\n
                            }\n
                  \"date_range\": {\n
{\n
                                                         \"end\": \"2012-
                             \"start\": \"2000-12-08\"\n
10-09\",\n
                   \"display\": \"Field Reporter at The Daily Planet
},\n
                               \"industry\": \"Journalism\",\n
(2000-2012)\",\n
\"organization\": \"The Daily Planet\",\n
                                                        \"title\":
\"Field Reporter\"\n
                               },\n
                                               {\n
\"date_range\": {\n
                                      \"end\": \"2000-10-10\",\n
\"start\": \"1999-10-10\"\n
                                         },\n
\"display\": \"Junior Reporter at The Daily Planet (1999-2000)\",\n
\"industry\": \"Journalism\",\n
                                             \"organization\": \"The
                                \"title\": \"Junior Reporter\"\n
Daily Planet\",\n
},\n
               {\n
                                 \"display\": \"Top Reporter at The
Daily Planet\",\n
                                \"industry\": \"Reporting\",\n
\"organization\": \"The Daily Planet\",\n
                                                        \"title\": \"Top
                                  ],\n \"languages\": [\n
Reporter\"\n
                       }\n
```

```
{\n
                   \"display\": \"en_US\",\n
                                                             \"language\":
\"en\",\n
                         \"region\": \"US\"\n
                                                                     ],\n
                                                          }\n
\"names\": [\n
                                             \"@last_seen\": \"2018-04-
                       \"@valid_since\": \"2011-07-11\",\n
01\",\n
\"display\": \"Kal El\",\n
                                          \"first\": \"Kal\",\n
\"last\": \"El\"\n
                              },\n
                                              \{ \n
\"@valid_since\": \"2010-05-11\",\n
                                                   \"display\": \"Clark
                                \"first\": \"Clark\",\n
Joseph Kent\",\n
                                     \"middle\": \"Joseph\"\n
\"last\": \"Kent\",\n
                                   \"display\": \"The red blue blur\"\n
},\n
               {\n
                       \"origin_countries\": [\n
}\n
           ],\n
\"country\": \"US\",\n
                                      \"display\": \"United States\"\n
                       \"phones\": [\n
           ],\n
                                                  {\n
\"@last_seen\": \"2018-06-01\",\n
                                                 \"@type\":
\"home_phone\",\n
                                 \"@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
                                  {\n
                                                     \"@subtype\":
                                      \"@type\": \"family\",\n
\"Adoptive Father\",\n
\"emails\": [\n
                                   {\n
\"@email provider\": false,\n
                                                     \"address\":
\"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
                                  {\n
                                                              \"display\":
                                     \"first\": \"Jor\",\n
\"Jor El\",\n
\"last\": \"El\"\n
                                      }\n
},\n
                                   \"@subtype\": \"Cousin\",\n
                {\n
\"@type\": \"family\",\n
                                        \"names\": [\n
                           \"display\": \"Kara Kent\",\n
\"first\": \"Kara\",\n
                                              \"last\": \"Kent\"\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
},\n
                                   \"@subtype\": \"Colleague\",\n
                                      \"names\": [\n
\"@type\": \"work\",\n
                           \"display\": \"Ron Troupe\",\n
                                             \"last\": \"Troupe\"\n
\"first\": \"Ron\",\n
                   1\n
                                  },\n
                                                   \{ \n
\"@subtype\": \"The real love\",\n
                                                   \"@type\": \"friend\",\n
\"names\": [\n
                                                              \"display\":
                                  {\n
\"Chloe Anne Sullivan\",\n
                                                   \"first\": \"Chloe\",\n
\"last\": \"Sullivan\",\n
                                                  \"middle\": \"Anne\"\n
                                                          \"urls\": [\n
}\n
                                  }\n
                                             ],\n
                   ]\n
{\n
                   \"@category\": \"professional_and_business\",\n
```

```
\"@domain\": \"linkedin.com\",\n
                                                                           \"@name\": \"LinkedIn\",\n
\"@source id\": \"edc6aa8fa3f211cfad7c12a0ba5b32f4\",\n
\"display\": \"http://linkedin.com/clark.kent\",\n
                                                                                                       \"url\":
\"http://linkedin.com/clark.kent\"\n
                                                                           },\n
\"@category\": \"personal_profiles\",\n
                                                                                      \"@domain\":
\"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
\"content\": \"11231@facebook\",\n
                                                                              \"displav\":
\"11231@facebook\"\n
                                                                   ],\n
                                                                                     \"usernames\": [\n
                             \"content\": \"superman@facebook\",\n
{\n
\"display\": \"superman@facebook\"\n
                                                                           }.\n
                                                                  \"display\": \"@ckent\"\n
\"content\": \"@ckent\",\n
}\n
                 ]\n
                          }\nl"
      },
      "raw": "{\"pipl_response\": \"definite match\", \"person_list\":
[{\"\odotid\": \"a00f861a-5815-41f0-8ec9-a2dbb074cb64\", \"@search_pointer\": \"a00f861a-5815-41f0-8ec9-a2dbb074cb64\", \"a00f861a-5815-41f0-8ec9-a2dbb074cb64
\"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eaed4d9320bcfbb994005516
7dba6bd2d936c8af29efcf70b569cad8e3d3cf55e956ac1fb43bee7476127e1746cd442207
d6bff13ed82e4e6c80b8306ff74afbf301fdc93f4e0d3b6c5d8b6b57db7546813506ea2d8f
613dbc58de5cab9281ced1def935f7e92b8c1f07441fda6eb534f6e8a39eb687256043aac4
a2eb3526ee5e6860b75fed448a4fa2f66f72012593f91a854f6c3b082999dfae3a72b50292
c99916c106f233c9d0bb16ac85650b1584e039c4298319045624b53895bf0e7ff6c7fa2196
d7302bd6a2239e0855ab36f441ba336fac06bf5a9235cc05479f7262571c5e4961464b3513
b543879036e347b5ed780b9a0d9088bcc11632036711f6ebb3815143cb618484939d7e6b52
7feef4ac7f85ad3aa7f663165cae3cbacf80c81ec6f8203eca62a0edb74a29bda7c5dea39d
a96d075294e41aaef353db096cddcf224713ee7d3c8b286893121ed84dabc5e9cd7177b7bc
f2e03687a1c93cfc89b8b47d002acb52e331ff2a730bcdc72c130b2ab9e20c5da2d46afbc2
cf87ff547910de9414bb8ad436cc89fea9bdaca8c2a0fb297b56fc9bf54a561607aa18a5dc
966744ee2807c2faa30a92b0e05345fc31e2af240fffecf108c7ce0f8ebc482d84d344cd99
668ad3799a1ae28df6b4c06c28f1b3f4744880b959b769efad87b02be9ba567d647142ced2
d00ff5b8f47da4c3b4e0fd54347fe4839fb117584eb2c07dfa239b9cd64676ad3a5aff1140
e3c2d591ef7da67171afcd1adbef3628ac21cf56d9465212ea01555c736a7d17d3435f6852
6dc21354f7b70bb768202d3c90e08cc028ed4f97500e3445f7ad9626d3dbe61824dd59c2ac
77603ab39ed8e46078c5108205f689e8ede8e0de2fe230247c6f9242fa6ebd77a7e2e629e1
1acfd08612cc6d88e696aa28d1ccb4210ef0a568b5a54175e6246a2e79225fbbe39e3a8bdd
c884fd9a2b6760f0f6a76b7fb2d1fdf48d81393374e5e4b8442e5af8ba50cefbcafbb15d65
cf5ff22233aedbbe5931de02e1203df2704838cd0e727dc916dcf6f3f2c4fa925f7c1bdc35
65133cddd338ef8f2f93d924456fc317d5f4414b815977014bd551aec83c8f60fcbc1d1fed
6f996776302ce8324e66ceba93636e942bbbd6eb6bbf4762a2063a1cda838e20b9d551a03c
5a6b6613a443f90d7a2d6c8517a1f18202e11c2dee7295bb3cdbe755bb0105d142a9fc0b32
20d4615b1b47fd3991514a24156f99c011b8239491b5d70414162811ff60cf0b6d5598743e
17bd4cfe9f0f32e8ab02599ca010f75d86c9e60ca8958fa575d04eb20f807352634c53ae28
5a750cfc6bac6b2836f4ba42b2cc041c37a8529a4e87b99c7e36fd49d318c09188b49ce3ef
596f951c93b1af5a099b37f5dc75ed232f10b377b904ec361e764d12f28f2bfc9b8b891140
f46f475fedcdeb2cd769994dbed0a6c8bd45d75588bc7de9b6d69ed8592eb3d65c2a4480d0
704a484e0904fd7cc6c990ec3911b0fbe35d095ef2674904dbd97ce9b70eb480d1f75a86dd
a86c02c830ccfe9fe86856756babbb8554e684155d3c3dc9f86fbd12c18b10e0382f38817f
```

```
bd76fb3f84c4ad4e0c529962e03e77310d5336985e456c26a2f0bf9e2d8f40e6d5f2ad3a3e
51b7d1c5a743768211e924d5083bf55aae\", \"@match\": 1.0, \"names\":
[{\"@valid_since\": \"2011-07-11\", \"@last_seen\": \"2018-04-01\",
\"first\": \"Kal\", \"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\"}], \"addresses\": [{\"@valid_since\":
\"2005-02-12\", \"@type\": \"work\", \"country\": \"US\", \"state\":
\"KS\", \"city\": \"Metropolis\", \"street\": \"Broadway\", \"house\":
\"1000\", \"apartment\": \"355\", \"display\": \"1000-355 Broadway,
Metropolis, Kansas\"}, {\"@valid_since\": \"1999-02-01\", \"@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\"}], \"phones\":
[{\"@valid_since\": \"2003-08-18\", \"@last_seen\": \"2018-06-01\",
\"@type\": \"home_phone\", \"country_code\": 1, \"number\": 9785550145,
\"display\": \"978-555-0145\", \"display_international\": \"+1 978-555-
0145\"}], \"emails\": [{\"@type\": \"work\", \"@email provider\": false,
\"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\"}, {\"@disposable\": true,
\"@email provider\": false, \"address\":
\"full.email.available@business.subscription\", \"address_md5\":
\"2610ee49440fe757e3cc4e46e5b40819\", \"display\":
\"full.email.available@business.subscription\"}], \"jobs\": [{\"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\": {\"start\":
\"1999-10-10\", \"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\":
[{\"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)\"}, {\"@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\": [{\"url\":
\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_forev
er.jpg\", \"thumbnail_token\":
\"AE2861B242686E7BD0CB4D9049298EB7D18FEF66D950E8AB78BCD3F484345CE74536C19A
85D0BA3D32DC9E7D1878CD4D341254E7AD129255C6983E6E154C4530A0DAAF665EA325FC02
```

```
06F8B1D7E0B6B7AD9EBF71AFAC4C88709957ECDD78608B\", \"display\":
\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies forev
er.jpg\"}, {\"@valid_since\": \"2014-08-18\", \"@last_seen\": \"2019-05-
01\", \"url\":
\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg\", \"thumbnail token\":
\"AE2861B242686E7BD0CB4D9049298EB5D18FEF66D950E8AB78BCD3F484345CE74536C19A
85D0BA3D32DC9E7D1878CD4D341254E7AD12C25596CC3E7F51186468FD84B26F5EA234EF15
46E7F5CDF7F7F5BA84B228F4A349812F8C57A1DE7B6388B6\", \"display\":
\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg\"}], \"usernames\": [{\"content\": \"superman@facebook\",
\"display\": \"superman@facebook\"}, {\"content\": \"@ckent\",
\"display\": \"@ckent\"}], \"user_ids\": [{\"content\":
\"11231@facebook\", \"display\": \"11231@facebook\"}], \"urls\":
[{\"@category\": \"professional_and_business\", \"@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\":
[{\"first\": \"Jonathan\", \"last\": \"Kent\", \"display\": \"Jonathan
Kent\"}], \"emails\": [{\"@email_provider\": false, \"address\":
\"full.email.available@business.subscription\", \"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\":
[{\"content\": \"other\", \"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
            \\\"@id\\\": \\\"a00f861a-5815-41f0-8ec9-a2dbb074cb64\\\",\\n
\\\"@match\\\": 1.0,\\n
                              \\\"@search_pointer\\\":
\\\"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eaed4d9320bcfbb9940055
```

```
167dba6bd2d936c8af29efcf70b569cad8e3d3cf55e956ac1fb43bee7476127e1746cd4422
07d6bff13ed82e4e6c80b8306ff74afbf301fdc93f4e0d3b6c5d8b6b57db7546813506ea2d
8f613dbc58de5cab9281ced1def935f7e92b8c1f07441fda6eb534f6e8a39eb687256043aa
c4a2eb3526ee5e6860b75fed448a4fa2f66f72012593f91a854f6c3b082999dfae3a72b502
92c99916c106f233c9d0bb16ac85650b1584e039c4298319045624b53895bf0e7ff6c7fa21
96d7302bd6a2239e0855ab36f441ba336fac06bf5a9235cc05479f7262571c5e4961464b35
13b543879036e347b5ed780b9a0d9088bcc11632036711f6ebb3815143cb618484939d7e6b
527feef4ac7f85ad3aa7f663165cae3cbacf80c81ec6f8203eca62a0edb74a29bda7c5dea3
9da96d075294e41aaef353db096cddcf224713ee7d3c8b286893121ed84dabc5e9cd7177b7
bcf2e03687a1c93cfc89b8b47d002acb52e331ff2a730bcdc72c130b2ab9e20c5da2d46afb
c2cf87ff547910de9414bb8ad436cc89fea9bdaca8c2a0fb297b56fc9bf54a561607aa18a5
dc966744ee2807c2faa30a92b0e05345fc31e2af240fffecf108c7ce0f8ebc482d84d344cd
99668ad3799a1ae28df6b4c06c28f1b3f4744880b959b769efad87b02be9ba567d647142ce
d2d00ff5b8f47da4c3b4e0fd54347fe4839fb117584eb2c07dfa239b9cd64676ad3a5aff11
40e3c2d591ef7da67171afcd1adbef3628ac21cf56d9465212ea01555c736a7d17d3435f68
526dc21354f7b70bb768202d3c90e08cc028ed4f97500e3445f7ad9626d3dbe61824dd59c2
ac77603ab39ed8e46078c5108205f689e8ede8e0de2fe230247c6f9242fa6ebd77a7e2e629
e11acfd08612cc6d88e696aa28d1ccb4210ef0a568b5a54175e6246a2e79225fbbe39e3a8b
ddc884fd9a2b6760f0f6a76b7fb2d1fdf48d81393374e5e4b8442e5af8ba50cefbcafbb15d
65cf5ff22233aedbbe5931de02e1203df2704838cd0e727dc916dcf6f3f2c4fa925f7c1bdc
3565133cddd338ef8f2f93d924456fc317d5f4414b815977014bd551aec83c8f60fcbc1d1f
ed6f996776302ce8324e66ceba93636e942bbbd6eb6bbf4762a2063a1cda838e20b9d551a0
3c5a6b6613a443f90d7a2d6c8517a1f18202e11c2dee7295bb3cdbe755bb0105d142a9fc0b
3220d4615b1b47fd3991514a24156f99c011b8239491b5d70414162811ff60cf0b6d559874
3e17bd4cfe9f0f32e8ab02599ca010f75d86c9e60ca8958fa575d04eb20f807352634c53ae
285a750cfc6bac6b2836f4ba42b2cc041c37a8529a4e87b99c7e36fd49d318c09188b49ce3
ef596f951c93b1af5a099b37f5dc75ed232f10b377b904ec361e764d12f28f2bfc9b8b8911
40f46f475fedcdeb2cd769994dbed0a6c8bd45d75588bc7de9b6d69ed8592eb3d65c2a4480
d0704a484e0904fd7cc6c990ec3911b0fbe35d095ef2674904dbd97ce9b70eb480d1f75a86
dda86c02c830ccfe9fe86856756babbb8554e684155d3c3dc9f86fbd12c18b10e0382f3881
7fbd76fb3f84c4ad4e0c529962e03e77310d5336985e456c26a2f0bf9e2d8f40e6d5f2ad3a
3e51b7d1c5a743768211e924d5083bf55aae\\\",\\n
                                               \\\"addresses\\\":
                                   \\\"@type\\\": \\\"work\\\",\\n
               {\\n
\\\"@valid_since\\\": \\\"2005-02-12\\\",\\n
\\\"apartment\\\": \\\"355\\\",\\n
                                                 \\\"city\\\":
                                     \\\"country\\\": \\\"US\\\",\\n
\\\"Metropolis\\\",\\n
\\\"display\\\": \\\"1000-355 Broadway, Metropolis, Kansas\\\",\\n
\\\"house\\\": \\\"1000\\\",\\n
                                              \\\"state\\\":
                             \\\"street\\\": \\\"Broadway\\\"\\n
\\\"KS\\\",\\n
},\\n
                {\\n
                                    \\\"@last_seen\\\": \\\"2018-05-
01\\\",\\n
                         \\\"@type\\\": \\\"home\\\",\\n
\\\"@valid_since\\\": \\\"1999-02-01\\\",\\n
\\\"apartment\\\": \\\"1\\\",\\n
                                                \\\"city\\\":
                                     \\\"country\\\": \\\"US\\\",\\n
\\\"Smallville\\\",\\n
\\\"display\\\": \\\"10-1 Hickory Lane, Smallville, Kansas\\\",\\n
                                          \\\"state\\\": \\\"KS\\\",\\n
\\\"house\\\": \\\"10\\\",\\n
\\\"street\\\": \\\"Hickory Lane\\\",\\n
                                                       \\\"zip_code\\\":
\\\"66605\\\"\\n
                           }\\n
                                       ],\\n
                                                    \\\"dob\\\": {\\n
\\\"date_range\\\": {\\n
                                       \\\"end\\\": \\\"1987-05-
                         \\\"start\\\": \\\"1986-01-01\\\"\\n
13\\\",\\n
                \\\"display\\\": \\\"34 years old\\\"\\n
                                                                },\\n
},\\n
\\\"educations\\\": [\\n
                                   {\\n
\\\"date_range\\\": {\\n
                                           \\\"end\\\": \\\"2008-05-
                           \\\"start\\\": \\\"2005-09-01\\\"\\n
14\\\",\\n
```

```
},\\n \\\"degree\\\": \\\"B.Sc Advanced Science\\\",\\n
\\\"display\\\": \\\"B.Sc Advanced Science from Metropolis University
                                 \\\"school\\\": \\\"Metropolis
(2005-2008)\\",\\n
University\\"\\n
                            },\\n
                                            {\\n
\\\"@last_seen\\\": \\\"2018-10-10\\\",\\n
\\\"@valid_since\\\": \\\"2015-07-18\\\",\\n
\\\"date_range\\\": {\\n
                                           \\\"end\\\": \\\"2005-06-
                             \\\"start\\\": \\\"2001-09-01\\\"\\n
01\\\",\\n
                    \\\"display\\\": \\\"Smallville High (2001-
},\\n
2005)\\\",\\n
                            \\\"school\\\": \\\"Smallville High\\\"\\n
                        \\\"emails\\\": [\\n
           ],\\n
                                                       {\\n
\\\"@email_provider\\\": false,\\n
                                                 \\\"@type\\\":
                               \\\"address\\\":
\\\"work\\\",\\n
\\\"full.email.available@business.subscription\\\",\\n
\\\"address md5\\\": \\\"eb3e11de3c9cefc2d9d70972350e2b28\\\",\\n
\\\"display\\\": \\\"full.email.available@business.subscription\\\"\\n
                                  \\\"@disposable\\\": true,\\n
},\\n
                {\\n
\\\"@email provider\\\": false,\\n
                                                \\\"address\\\":
\\\"full.email.available@business.subscription\\\",\\n
\\\"address_md5\\\": \\\"999e509752141a0ee42ff455529c10fc\\\",\\n
\\\"display\\\": \\\"full.email.available@business.subscription\\\"\\n
                                   \\\"@email_provider\\\": true,\\n
},\\n
                {\\n
\\\"@type\\\": \\\"personal\\\",\\n
                                                  \\\"address\\\":
\\\"full.email.available@business.subscription\\\",\\n
\ "address_md5\\": \\"501548362894b9a08f071b1565d8aa14\\\",\\n
\\\"display\\\": \\\"full.email.available@business.subscription\\\"\\n
                               \\\"@disposable\\\": true,\\n
                {\\n
                                                 \\\"address\\\":
\\\"@email_provider\\\": false,\\n
\\\"full.email.available@business.subscription\\\",\\n
\\\"address_md5\\\": \\\"2610ee49440fe757e3cc4e46e5b40819\\\",\\n
\\\"display\\\": \\\"full.email.available@business.subscription\\\"\\n
           ],\\n \\\"ethnicities\\\": [\\n
\\\"content\\\": \\\"other\\\",\\n
                                                 \\\"display\\\":
\\\"0ther\\\"\\n
                          },\\n
                                            {\\n
\\\"content\\\": \\\"american_indian\\\",\\n
\\\"display\\\": \\\"American Indian\\\"\\n
                                                      },\\n
                   \\\"content\\\": \\\"white\\\",\\n
{\\n
\\\"display\\\": \\\"White\\\"\\n
                                            }\\n
                                                       ],\\n
\\\"gender\\\": {\\n
                               \\\"@valid_since\\\": \\\"2004-05-
                    \\\"content\\\": \\\"male\\\",\\n
16\\\",\\n
\\\"display\\\": \\\"Male\\\"\\n
                                  },\\n \\\"images\\\": [\\n
                   \\\"display\\\":
{\\n
\\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_for
ever.jpg\\\",\\n
                              \\\"thumbnail_token\\\":
\\"AE2861B242686E7BD0CB4D9049298EB7D18FEF66D950E8AB78BCD3F484345CE74536C1
9A85D0BA3D32DC9E7D1878CD4D341254E7AD129255C6983E6E154C4530A0DAAF665EA325FC
0206F8B1D7E0B6B7AD9EBF71AFAC4C88709957ECDD78608B\\\",\\n
\\\"url\\\":
\\\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_for
                                           {\\n
ever.jpg\\\"\\n
                          },\\n
\\\"@last_seen\\\": \\\"2019-05-01\\\",\\n
\\\"@valid_since\\\": \\\"2014-08-18\\\",\\n
\\\"display\\\":
\\\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
```

```
Booster21.jpg\\\",\\n \\\"thumbnail_token\\\":
\\\"AE2861B242686E7BD0CB4D9049298EB5D18FEF66D950E8AB78BCD3F484345CE74536C1
9A85D0BA3D32DC9E7D1878CD4D341254E7AD12C25596CC3E7F51186468FD84B26F5EA234EF
1546E7F5CDF7F7F5BA84B228F4A349812F8C57A1DE7B6388B6\\\",\\n
\\\"url\\\":
\\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg\\\"\\n
                                           ],\\n
                              }\\n
                                                       \\\"jobs\\\":
                                  \\\"date range\\\": {\\n
\\\"end\\\": \\\"2012-10-09\\\",\\n
                                                      \\\"start\\\":
\\\"2000-12-08\\\"\\n
                                    },\\n
                                                         \\\"display\\\":
\\\"Field Reporter at The Daily Planet (2000-2012)\\\",\\n
\\\"industry\\\": \\\"Journalism\\\",\\n
\\\"organization\\\": \\\"The Daily Planet\\\",\\n
\\\"title\\\": \\\"Field Reporter\\\"\\n
                                                   },\\n
                                                                    {\\n
\\\"date range\\\": {\\n
                                           \\\"end\\\": \\\"2000-10-
10\\\",\\n
                             \\\"start\\\": \\\"1999-10-10\\\"\\n
},\\n
                    \\\"display\\\": \\\"Junior Reporter at The Daily
Planet (1999-2000)\\",\\n
                                         \\\"industry\\\":
                                     \\\"organization\\\": \\\"The Daily
\\\"Journalism\\\",\\n
Planet\\\",\\n
                             \\\"title\\\": \\\"Junior Reporter\\\"\\n
                                    \\\"display\\\": \\\"Top Reporter at
                {\\n
The Daily Planet\\\",\\n
                                       \\\"industry\\\":
                                    \\\"organization\\\": \\\"The Daily
\\\"Reporting\\\",\\n
                             \\\"title\\\": \\\"Top Reporter\\\"\\n
Planet\\\",\\n
           ],\\n \\\"languages\\\": [\\n
}\\n
\\\"display\\\": \\\"en_US\\\",\\n
                                                 \\\"language\\\":
                             \\\"region\\\": \\\"US\\\"\\n
\\\"en\\\",\\n
           ],\\n
                        \\\"names\\\": [\\n
}\\n
                                                       {\\n
\\\"@last_seen\\\": \\\"2018-04-01\\\",\\n
\\\"@valid_since\\\": \\\"2011-07-11\\\",\\n
\\\"display\\\": \\\"Kal El\\\",\\n
                                                  \\\"first\\\":
                              \\\"last\\\": \\\"El\\\"\\n
\\\"Kal\\\",\\n
                                    \\\"@valid_since\\\": \\\"2010-05-
},\\n
                {\\n
                         \\\"display\\\": \\\"Clark Joseph Kent\\\",\\n
11\\\",\\n
\\\"first\\\": \\\"Clark\\\",\\n
                                               \\\"last\\\":
\\\"Kent\\\",\\n
                               \\\"middle\\\": \\\"Joseph\\\"\\n
},\\n
                {\\n
                                    \\\"display\\\": \\\"The red blue
blur\\\"\\n
                                              \\\"origin_countries\\\":
                      }\\n
                                  ],\\n
                                  \\\"country\\\": \\\"US\\\",\\n
[\\n
               {\\n
\\\"display\\\": \\\"United States\\\"\\n
                                                    }\\n
                                                               ],\\n
\\\"phones\\\": [\\n
                               {\\n
                                                   \\\"@last_seen\\\":
\\\"2018-06-01\\\",\\n
                                     \\\"@type\\\":
\\\"home_phone\\\",\\n
                                     \\\"@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
\\\"relationships\\\": [\\n
\\\"@subtype\\\": \\\"Adoptive Father\\\",\\n
\\\"@type\\\": \\\"family\\\",\\n
                                                \\\"emails\\\": [\\n
{\\n
                           \\\"@email_provider\\\": false,\\n
\\\"address\\\": \\\"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
},\\n
                                     \\\"@subtype\\\": \\\"Father\\\",\\n
                 {\\n
\\\"@type\\\": \\\"family\\\",\\n
                                                 \\\"names\\\": [\\n
                           \\\"display\\\": \\\"Jor El\\\",\\n
\\\"first\\\": \\\"Jor\\\",\\n
                                                      \\\"last\\\":
\\\"El\\\"\\n
                                 }\\n
                                                     1\\n
                                                                     },\\n
                    \\\"@subtype\\\": \\\"Cousin\\\",\\n
{\\n
\\\"@type\\\": \\\"family\\\",\\n
                                                 \\\"names\\\": [\\n
                            \\\"display\\\": \\\"Kara Kent\\\",\\n
{\\n
\\\"first\\\": \\\"Kara\\\",\\n
                                                       \\\"last\\\":
\\\"Kent\\\"\\n
                                   }\\n
                                                       ]\\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
                                                         ]\\n
                                     \\\"@subtype\\\":
},\\n
\\\"Colleague\\\",\\n
                                     \\\"@type\\\": \\\"work\\\",\\n
                                       {\\n
\\\"names\\\": [\\n
\\\"display\\\": \\\"Ron Troupe\\\",\\n
\\\"first\\\": \\\"Ron\\\",\\n
                                                      \\\"last\\\":
\\\"Troupe\\\"\\n
                                     }\\n
                                                         ]\\n
},\\n
                                     \\\"@subtype\\\": \\\"The real
                 {\\n
love\\\",\\n
                            \\\"@type\\\": \\\"friend\\\",\\n
\\\"names\\\": [\\n
                                      {\\n
\\\"display\\\": \\\"Chloe Anne Sullivan\\\",\\n
\\\"first\\\": \\\"Chloe\\\",\\n
                                                        \\\"last\\\":
\\\"Sullivan\\\",\\n
                                            \\\"middle\\\":
\\\"Anne\\\"\\n
                                   }\\n
                                                       ]\\n
                  \\\"urls\\\": [\\n
            ],\\n
                                                       {\\n
\\\"@category\\\": \\\"professional_and_business\\\",\\n
\\\"@domain\\\": \\\"linkedin.com\\\",\\n
                                                         \\\"@name\\\":
\\\"LinkedIn\\\",\\n
                                    \\\"@source id\\\":
\\\"edc6aa8fa3f211cfad7c12a0ba5b32f4\\\",\\n
\\\"display\\\": \\\"http://linkedin.com/clark.kent\\\",\\n
\\\"url\\\": \\\"http://linkedin.com/clark.kent\\\"\\n
                                                                  },\\n
{\\n
                    \\\"@category\\\": \\\"personal_profiles\\\",\\n
\\\"@domain\\\": \\\"facebook.com\\\",\\n
                                                         \\\"@name\\\":
\\\"Facebook\\\",\\n
                                    \\\"@source_id\\\":
\\\"5d836a4acc55922e49fc709c7a39e233\\\",\\n
\\\"display\\\": \\\"http://facebook.com/superman\\\",\\n
\\\"url\\\": \\\"http://facebook.com/superman\\\"\\n
                                                                },\\n
                    \\\"@category\\\":
{\\n
\\\"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
                         \\\"user_ids\\\": [\\n
}\\n
            ],\\n
                                                           {\\n
\\\"content\\\": \\\"11231@facebook\\\",\\n
```

```
\\\"display\\\": \\\"11231@facebook\\\"\\n
                                                       }\\n ],\\n
\\\"usernames\\\": [\\n
                                                        \\\"content\\\":
\\\"superman@facebook\\\",\\n
                                             \\\"display\\\":
\\\"superman@facebook\\\"\\n
                                        },\\n
                                                          {\\n
\\\"content\\\": \\\"@ckent\\\",\\n
                                                    \\\"display\\\":
\\\"@ckent\\\"\\n
                                         1\\n
                                                 }\\n]\"}",
    "inputs": {
        "pipl artifact value": "clark.kent@example.com",
        "pipl artifact type": "Email Sender"
    },
    "metrics": {
        "version": "1.0",
        "package": "fn-pipl",
        "package_version": "1.1.0",
        "host": "Brians-MacBook.hsd1.ma.comcast.net",
        "execution_time_ms": 2,
        "timestamp": "2021-01-27 18:17:34"
    },
    "person list": [
        {
            "@id": "a00f861a-5815-41f0-8ec9-a2dbb074cb64",
            "@search pointer":
```

"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eaed4d9320bcfbb9940055167 dba6bd2d936c8af29efcf70b569cad8e3d3cf55e956ac1fb43bee7476127e1746cd442207d 6bff13ed82e4e6c80b8306ff74afbf301fdc93f4e0d3b6c5d8b6b57db7546813506ea2d8f6 13dbc58de5cab9281ced1def935f7e92b8c1f07441fda6eb534f6e8a39eb687256043aac4a 2eb3526ee5e6860b75fed448a4fa2f66f72012593f91a854f6c3b082999dfae3a72b50292c 99916c106f233c9d0bb16ac85650b1584e039c4298319045624b53895bf0e7ff6c7fa2196d 7302bd6a2239e0855ab36f441ba336fac06bf5a9235cc05479f7262571c5e4961464b3513b 543879036e347b5ed780b9a0d9088bcc11632036711f6ebb3815143cb618484939d7e6b527 feef4ac7f85ad3aa7f663165cae3cbacf80c81ec6f8203eca62a0edb74a29bda7c5dea39da 96d075294e41aaef353db096cddcf224713ee7d3c8b286893121ed84dabc5e9cd7177b7bcf 2e03687a1c93cfc89b8b47d002acb52e331ff2a730bcdc72c130b2ab9e20c5da2d46afbc2c f87ff547910de9414bb8ad436cc89fea9bdaca8c2a0fb297b56fc9bf54a561607aa18a5dc9 66744ee2807c2faa30a92b0e05345fc31e2af240fffecf108c7ce0f8ebc482d84d344cd996 68ad3799a1ae28df6b4c06c28f1b3f4744880b959b769efad87b02be9ba567d647142ced2d 00ff5b8f47da4c3b4e0fd54347fe4839fb117584eb2c07dfa239b9cd64676ad3a5aff1140e 3c2d591ef7da67171afcd1adbef3628ac21cf56d9465212ea01555c736a7d17d3435f68526 dc21354f7b70bb768202d3c90e08cc028ed4f97500e3445f7ad9626d3dbe61824dd59c2ac7 7603ab39ed8e46078c5108205f689e8ede8e0de2fe230247c6f9242fa6ebd77a7e2e629e11 acfd08612cc6d88e696aa28d1ccb4210ef0a568b5a54175e6246a2e79225fbbe39e3a8bddc 884fd9a2b6760f0f6a76b7fb2d1fdf48d81393374e5e4b8442e5af8ba50cefbcafbb15d65c f5ff22233aedbbe5931de02e1203df2704838cd0e727dc916dcf6f3f2c4fa925f7c1bdc356 5133cddd338ef8f2f93d924456fc317d5f4414b815977014bd551aec83c8f60fcbc1d1fed6 f996776302ce8324e66ceba93636e942bbbd6eb6bbf4762a2063a1cda838e20b9d551a03c5 a6b6613a443f90d7a2d6c8517a1f18202e11c2dee7295bb3cdbe755bb0105d142a9fc0b322 0d4615b1b47fd3991514a24156f99c011b8239491b5d70414162811ff60cf0b6d5598743e1 7bd4cfe9f0f32e8ab02599ca010f75d86c9e60ca8958fa575d04eb20f807352634c53ae285 a750cfc6bac6b2836f4ba42b2cc041c37a8529a4e87b99c7e36fd49d318c09188b49ce3ef5 96f951c93b1af5a099b37f5dc75ed232f10b377b904ec361e764d12f28f2bfc9b8b891140f 46f475fedcdeb2cd769994dbed0a6c8bd45d75588bc7de9b6d69ed8592eb3d65c2a4480d07 04a484e0904fd7cc6c990ec3911b0fbe35d095ef2674904dbd97ce9b70eb480d1f75a86dda 86c02c830ccfe9fe86856756babbb8554e684155d3c3dc9f86fbd12c18b10e0382f38817fb d76fb3f84c4ad4e0c529962e03e77310d5336985e456c26a2f0bf9e2d8f40e6d5f2ad3a3e5

```
1b7d1c5a743768211e924d5083bf55aae",
            "@match": 1.0,
            "names": [
                {
                    "@valid since": "2011-07-11",
                    "@last seen": "2018-04-01",
                    "first": "Kal",
                    "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"
                }
            ],
            "addresses": [
                {
                    "@valid_since": "2005-02-12",
                    "@type": "work",
                    "country": "US",
                    "state": "KS",
                    "city": "Metropolis",
                    "street": "Broadway",
                    "house": "1000",
                    "apartment": "355",
                    "display": "1000-355 Broadway, Metropolis, Kansas"
                },
                {
                    "@valid_since": "1999-02-01",
                    "@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"
                }
            ],
            "phones": [
                {
                    "@valid_since": "2003-08-18",
                    "@last_seen": "2018-06-01",
                    "@type": "home_phone",
                    "country_code": 1,
                    "number": 9785550145,
```

```
"display": "978-555-0145",
                    "display international": "+1 978-555-0145"
                }
            ],
            "emails": [
                {
                    "@type": "work",
                    "@email provider": false,
                    "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"
                },
                    "@disposable": true,
                    "@email_provider": false,
                    "address":
"full.email.available@business.subscription",
                    "address_md5": "2610ee49440fe757e3cc4e46e5b40819",
                    "display":
"full.email.available@business.subscription"
            ],
            "jobs": [
                    "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": {
                        "start": "1999-10-10",
                        "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": [
                {
                    "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)"
                },
                {
                    "@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": [
                {
                    "url":
"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_foreve
r.jpg",
                    "thumbnail token":
"AE2861B242686E7BD0CB4D9049298EB7D18FEF66D950E8AB78BCD3F484345CE74536C19A8
5D0BA3D32DC9E7D1878CD4D341254E7AD129255C6983E6E154C4530A0DAAF665EA325FC020
6F8B1D7E0B6B7AD9EBF71AFAC4C88709957ECDD78608B",
                    "display":
"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_foreve
r.jpg"
                },
```

```
"@valid_since": "2014-08-18",
                    "@last seen": "2019-05-01",
                    "url":
"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg",
                    "thumbnail token":
"AE2861B242686E7BD0CB4D9049298EB5D18FEF66D950E8AB78BCD3F484345CE74536C19A8
5D0BA3D32DC9E7D1878CD4D341254E7AD12C25596CC3E7F51186468FD84B26F5EA234EF154
6E7F5CDF7F7F5BA84B228F4A349812F8C57A1DE7B6388B6".
                    "display":
"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg"
            ],
            "usernames": [
                {
                    "content": "superman@facebook",
                    "display": "superman@facebook"
                },
                    "content": "@ckent",
                    "display": "@ckent"
                }
            ],
            "user_ids": [
                {
                    "content": "11231@facebook",
                    "display": "11231@facebook"
            ],
            "urls": [
                {
                    "@category": "professional_and_business",
                    "@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": [
                        {
                             "first": "Jonathan",
                             "last": "Kent",
                             "display": "Jonathan Kent"
                        }
                    ],
                    "emails": [
                        {
                             "@email_provider": false,
                             "address":
"full.email.available@business.subscription",
                             "address md5":
"428ffee0df26012a5a2c95b65af0025c",
                             "display":
"full.email.available@business.subscription"
                        }
                },
                {
                    "@type": "family",
                    "@subtype": "Father",
                    "names": [
                        {
                             "first": "Jor",
                             "last": "El",
                             "display": "Jor El"
                        }
                    1
                },
                    "@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": [
   {
        "content": "other",
        "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"
            }
        }
    ],
   "pipl response": "definite match",
                                   \"@id\": \"a00f861a-5815-41f0-8ec9-
   "raw data": "[\n
                        {\n
                        \"@match\": 1.0,\n
a2dbb074cb64\",\n
                                                  \"@search pointer\":
\"bf63b8c7c3585d05dd2358eb52f4a9ca05d02aec8b2ae7a5eaed4d9320bcfbb994005516
7dba6bd2d936c8af29efcf70b569cad8e3d3cf55e956ac1fb43bee7476127e1746cd442207
d6bff13ed82e4e6c80b8306ff74afbf301fdc93f4e0d3b6c5d8b6b57db7546813506ea2d8f
613dbc58de5cab9281ced1def935f7e92b8c1f07441fda6eb534f6e8a39eb687256043aac4
a2eb3526ee5e6860b75fed448a4fa2f66f72012593f91a854f6c3b082999dfae3a72b50292
c99916c106f233c9d0bb16ac85650b1584e039c4298319045624b53895bf0e7ff6c7fa2196
d7302bd6a2239e0855ab36f441ba336fac06bf5a9235cc05479f7262571c5e4961464b3513
b543879036e347b5ed780b9a0d9088bcc11632036711f6ebb3815143cb618484939d7e6b52
7feef4ac7f85ad3aa7f663165cae3cbacf80c81ec6f8203eca62a0edb74a29bda7c5dea39d
a96d075294e41aaef353db096cddcf224713ee7d3c8b286893121ed84dabc5e9cd7177b7bc
f2e03687a1c93cfc89b8b47d002acb52e331ff2a730bcdc72c130b2ab9e20c5da2d46afbc2
cf87ff547910de9414bb8ad436cc89fea9bdaca8c2a0fb297b56fc9bf54a561607aa18a5dc
966744ee2807c2faa30a92b0e05345fc31e2af240fffecf108c7ce0f8ebc482d84d344cd99
668ad3799a1ae28df6b4c06c28f1b3f4744880b959b769efad87b02be9ba567d647142ced2
d00ff5b8f47da4c3b4e0fd54347fe4839fb117584eb2c07dfa239b9cd64676ad3a5aff1140
e3c2d591ef7da67171afcd1adbef3628ac21cf56d9465212ea01555c736a7d17d3435f6852
6dc21354f7b70bb768202d3c90e08cc028ed4f97500e3445f7ad9626d3dbe61824dd59c2ac
77603ab39ed8e46078c5108205f689e8ede8e0de2fe230247c6f9242fa6ebd77a7e2e629e1
1acfd08612cc6d88e696aa28d1ccb4210ef0a568b5a54175e6246a2e79225fbbe39e3a8bdd
c884fd9a2b6760f0f6a76b7fb2d1fdf48d81393374e5e4b8442e5af8ba50cefbcafbb15d65
cf5ff22233aedbbe5931de02e1203df2704838cd0e727dc916dcf6f3f2c4fa925f7c1bdc35
65133cddd338ef8f2f93d924456fc317d5f4414b815977014bd551aec83c8f60fcbc1d1fed
6f996776302ce8324e66ceba93636e942bbbd6eb6bbf4762a2063a1cda838e20b9d551a03c
5a6b6613a443f90d7a2d6c8517a1f18202e11c2dee7295bb3cdbe755bb0105d142a9fc0b32
20d4615b1b47fd3991514a24156f99c011b8239491b5d70414162811ff60cf0b6d5598743e
17bd4cfe9f0f32e8ab02599ca010f75d86c9e60ca8958fa575d04eb20f807352634c53ae28
5a750cfc6bac6b2836f4ba42b2cc041c37a8529a4e87b99c7e36fd49d318c09188b49ce3ef
596f951c93b1af5a099b37f5dc75ed232f10b377b904ec361e764d12f28f2bfc9b8b891140
f46f475fedcdeb2cd769994dbed0a6c8bd45d75588bc7de9b6d69ed8592eb3d65c2a4480d0
704a484e0904fd7cc6c990ec3911b0fbe35d095ef2674904dbd97ce9b70eb480d1f75a86dd
a86c02c830ccfe9fe86856756babbb8554e684155d3c3dc9f86fbd12c18b10e0382f38817f
bd76fb3f84c4ad4e0c529962e03e77310d5336985e456c26a2f0bf9e2d8f40e6d5f2ad3a3e
51b7d1c5a743768211e924d5083bf55aae\",\n
                                               \"addresses\": [\n
                   \"@type\": \"work\",\n
                                                         \"@valid_since\":
{\n
                                 \"apartment\": \"355\",\n
\"2005-02-12\",\n
```

```
\"country\": \"US\",\n
\"city\": \"Metropolis\",\n
\"display\": \"1000-355 Broadway, Metropolis, Kansas\",\n
                                     \"state\": \"KS\",\n
\"house\": \"1000\",\n
\"street\": \"Broadway\"\n
                                     },\n
                                                    {\n
\"@last seen\": \"2018-05-01\",\n
                                                \"@type\": \"home\",\n
\"@valid since\": \"1999-02-01\",\n
                                                  \"apartment\": \"1\",\n
\"city\": \"Smallville\",\n
                                          \"country\": \"US\",\n
\"display\": \"10-1 Hickory Lane, Smallville, Kansas\",\n
\"house\": \"10\",\n
                                   \"state\": \"KS\",\n
\"street\": \"Hickory Lane\",\n
                                              \"zip_code\": \"66605\"\n
                                              \"date range\": {\n
}\n ],\n
                     \"dob\": {\n
\"end\": \"1987-05-13\",\n
                                         \"start\": \"1986-01-01\"\n
               \"display\": \"34 years old\"\n
                                                      },\n
\"educations\": [\n
                                                 \"date_range\": {\n
                             {\n
\"end\": \"2008-05-14\",\n
                                            \"start\": \"2005-09-01\"\n
                  \"degree\": \"B.Sc Advanced Science\",\n
\"display\": \"B.Sc Advanced Science from Metropolis University (2005-
                        \"school\": \"Metropolis University\"\n
2008)\",\n
                                 \"@last seen\": \"2018-10-10\",\n
},\n
               {\n
\"@valid_since\": \"2015-07-18\",\n
                                                  \"date range\": {\n
\"end\": \"2005-06-01\",\n
                                             \"start\": \"2001-09-01\"\n
                \"display\": \"Smallville High (2001-2005)\",\n
\"school\": \"Smallville High\"\n
                                           }\n
                                                      ],\n
\"emails\": [\n
                                            \"@email provider\":
false.\n
                       \"@type\": \"work\",\n
                                                            \"address\":
\"full.email.available@business.subscription\",\n
\"address_md5\": \"eb3e11de3c9cefc2d9d70972350e2b28\",\n
\"display\": \"full.email.available@business.subscription\"\n
                                 \"@disposable\": true,\n
},\n
               {\n
\"@email_provider\": false,\n
                                            \"address\":
\"full.email.available@business.subscription\",\n
\"address md5\": \"999e509752141a0ee42ff455529c10fc\",\n
\"display\": \"full.email.available@business.subscription\"\n
                                  \"@email_provider\": true,\n
},\n
               {\n
\"@type\": \"personal\",\n
                                         \"address\":
\"full.email.available@business.subscription\",\n
\"address_md5\": \"501548362894b9a08f071b1565d8aa14\",\n
\"display\": \"full.email.available@business.subscription\"\n
},\n
                                 \"@disposable\": true,\n
               {\n
\"@email_provider\": false,\n
                                            \"address\":
\"full.email.available@business.subscription\",\n
\"address_md5\": \"2610ee49440fe757e3cc4e46e5b40819\",\n
\"display\": \"full.email.available@business.subscription\"\n
         ],\n
                 \"ethnicities\": [\n
\"content\": \"other\",\n
                                        \"display\": \"Other\"\n
                                  \"content\": \"american_indian\",\n
               {\n
\"display\": \"American Indian\"\n
\"content\": \"white\",\n
                                        \"display\": \"White\"\n
                     \"gender\": {\n
                                                 \"@valid since\":
         ],\n
                           \"content\": \"male\",\n
\"2004-05-16\",\n
\"display\": \"Male\"\n
                             },\n
                                       \"images\": [\n
                                                                    {\n
\"display\":
\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies_forev
                          \"thumbnail_token\":
er.jpg\",\n
```

```
\"AE2861B242686E7BD0CB4D9049298EB7D18FEF66D950E8AB78BCD3F484345CE74536C19A
85D0BA3D32DC9E7D1878CD4D341254E7AD129255C6983E6E154C4530A0DAAF665EA325FC02
06F8B1D7E0B6B7AD9EBF71AFAC4C88709957ECDD78608B\",\n
\"url\":
\"http://vignette1.wikia.nocookie.net/smallville/images/e/ea/Buddies forev
                                                        \"@last seen\":
er.jpg\"\n
                     },\n
                                     {\n
                                \"@valid_since\": \"2014-08-18\",\n
\"2019-05-01\",\n
\"display\":
\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg\",\n
                                 \"thumbnail token\":
\"AE2861B242686E7BD0CB4D9049298EB5D18FEF66D950E8AB78BCD3F484345CE74536C19A
85D0BA3D32DC9E7D1878CD4D341254E7AD12C25596CC3E7F51186468FD84B26F5EA234EF15
46E7F5CDF7F7F5BA84B228F4A349812F8C57A1DE7B6388B6\",\n
\"url\":
\"http://vignette3.wikia.nocookie.net/smallville/images/5/55/S10E18-
Booster21.jpg\"\n
                            }\n ],\n
                                                   \"jobs\": [\n
                   \"date_range\": {\n
                                                         \"end\": \"2012-
{\n
                             \"start\": \"2000-12-08\"\n
10-09\",\n
                   \"display\": \"Field Reporter at The Daily Planet
},\n
(2000-2012)\",\n
                               \"industry\": \"Journalism\",\n
\"organization\": \"The Daily Planet\",\n
                                                        \"title\":
\"Field Reporter\"\n
                            },\n
                                               {\n
\"date range\": {\n
                                      \"end\": \"2000-10-10\",\n
\"start\": \"1999-10-10\"\n
\"display\": \"Junior Reporter at The Daily Planet (1999-2000)\",\n
\"industry\": \"Journalism\",\n
                                              \"organization\": \"The
                                \"title\": \"Junior Reporter\"\n
Daily Planet\",\n
                                  \"display\": \"Top Reporter at The
},\n
               {\n
Daily Planet\",\n
                                \"industry\": \"Reporting\",\n
\"organization\": \"The Daily Planet\",\n
                                                        \"title\": \"Top
                                              \"languages\": [\n
Reporter\"\n
                       }\n
                                  ],\n
                  \"display\": \"en_US\",\n
\{ \n
                                                           \"language\":
\"en\",\n
                        \"region\": \"US\"\n
                                                                   ],\n
                                            \"@last_seen\": \"2018-04-
\"names\": [\n
                         {\n
01\",\n
                      \"@valid_since\": \"2011-07-11\",\n
\"display\": \"Kal El\",\n
                                        \"first\": \"Kal\",\n
                             },\n
\"last\": \"El\"\n
                                             {\n
\"@valid_since\": \"2010-05-11\",\n
                                                  \"display\": \"Clark
                               \"first\": \"Clark\",\n
Joseph Kent\",\n
\"last\": \"Kent\",\n
                                    \"middle\": \"Joseph\"\n
                                  \"display\": \"The red blue blur\"\n
},\n
              {\n
}\n
          ],\n
                      \"origin_countries\": [\n
                                                           {\n
\"country\": \"US\",\n
                                     \"display\": \"United States\"\n
         ],\n
                      \"phones\": [\n
                                                 {\n
\"@last seen\": \"2018-06-01\",\n
                                                \"@type\":
\"home_phone\",\n
                                \"@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
                                  {\n
\"@email_provider\": false,\n
                                                    \"address\":
\"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
                           \"display\": \"Kara Kent\",\n
\"first\": \"Kara\",\n
                                              \"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\":
                                  {\n
                                                  \"first\": \"Chloe\",\n
\"Chloe Anne Sullivan\",\n
\"last\": \"Sullivan\",\n
                                                 \"middle\": \"Anne\"\n
}\n
                                  }\n
                                             ],\n
                                                         \"urls\": [\n
                   \"@category\": \"professional_and_business\",\n
{\n
\"@domain\": \"linkedin.com\",\n
                                                \"@name\": \"LinkedIn\",\n
\"@source_id\": \"edc6aa8fa3f211cfad7c12a0ba5b32f4\",\n
\"display\": \"http://linkedin.com/clark.kent\",\n
                                                                   \"url\":
\"http://linkedin.com/clark.kent\"\n
                                                },\n
\"@category\": \"personal_profiles\",\n
                                                        \"@domain\":
\"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
\"content\": \"11231@facebook\",\n
                                                  \"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

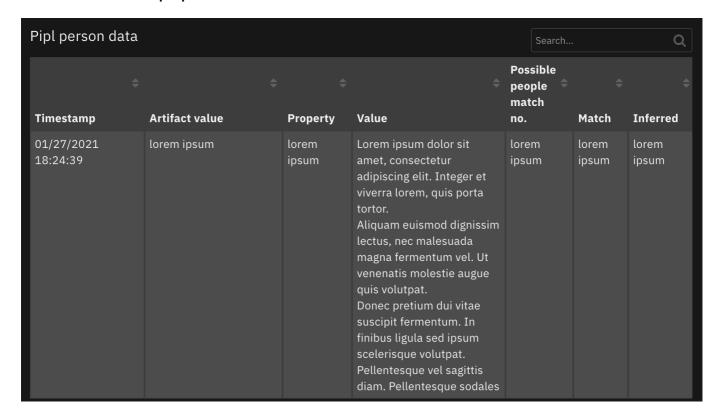
Script creates an artifact based from a selected row in Pipl possible person data.

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.