

0403 - using csv2json and curl to post to an endpoint

Monday, 3 April 2023 10:21 PM

Purpose

A very convenient way to push csv into CluedIn but via json arrays and an endpoint

Journal

Install csv2json

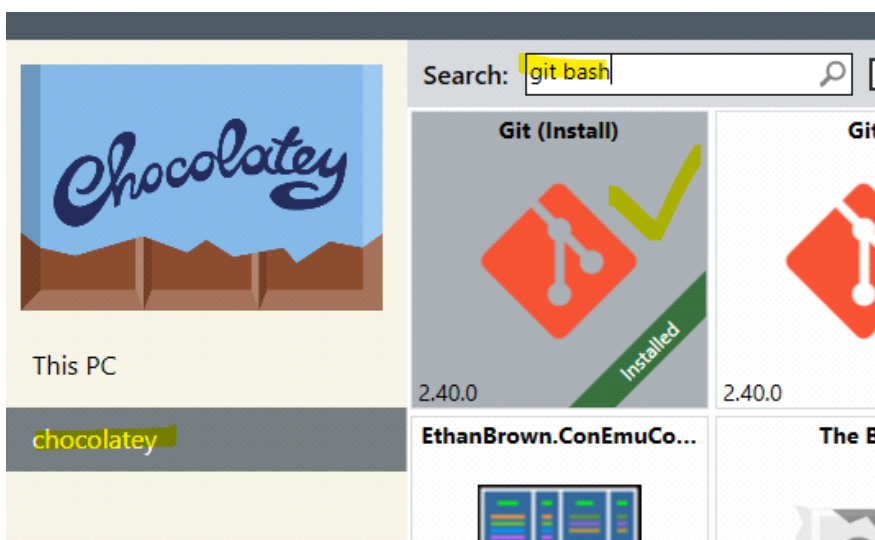
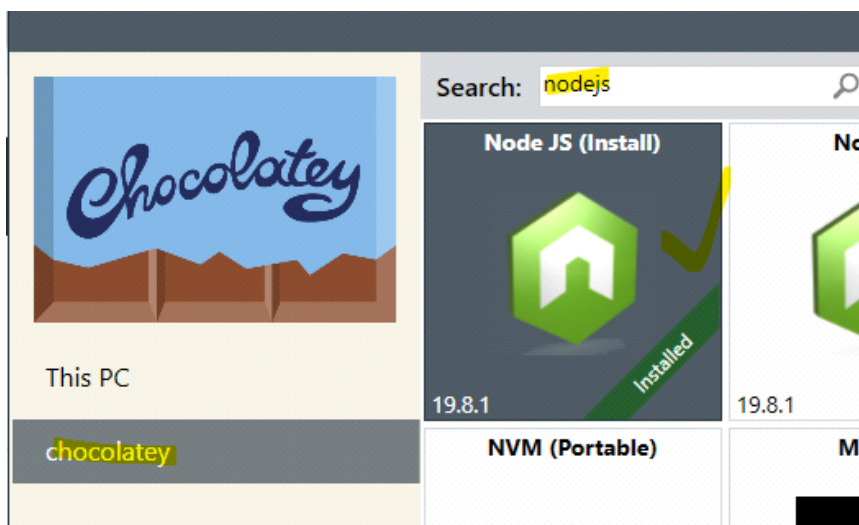
It's a nodejs command line and library

See

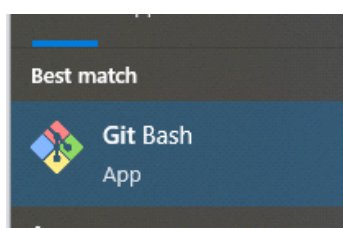
<https://www.npmjs.com/package/csv2json>

<https://stackoverflow.com/questions/16831250/how-to-convert-csv-to-json-in-node-js#17190385>

Install nodejs and git bash



Check install - run in git bash



```

rudi@PIP MINGW64 ~
$ which npm
/c/Program Files/nodejs/npm

rudi@PIP MINGW64 ~
$ which node
/c/Program Files/nodejs/node

rudi@PIP MINGW64 ~
$ npm --version
9.5.1

rudi@PIP MINGW64 ~
$ node --version
v19.8.1

```

Install csv2json

```

rudi@PIP MINGW64 ~
$ npm install --global csv2json

added 31 packages in 5s

2 packages are looking for funding
  run `npm fund` for details
npm notice
npm notice New minor version of npm available! 9.5.1 -> 9.6.3
npm notice Changelog: <https://github.com/npm/cli/releases/tag/v9.6.3>
npm notice Run `npm install -g npm@9.6.3` to update!
npm notice

```

Check installed

```

rudi@PIP MINGW64 ~
$ csv2json -h
Usage: csv2json [OPTIONS] [<input file> [<output file>]]

  -d, --dynamic-typing
    Convert booleans and numeric to their type instead of strings.

  -s <separator>, --separator=<separator>
    Field separator to use (default to comma ",").

  -t, --tsv
    Use tab as separator, overrides separator flag.

  <input file>
    CSV file to read data from.
    If unspecified or a dash ("-"), use the standard input.

  <output file>
    JSON file to write data to.
    If unspecified or a dash ("-"), use the standard output.

```

csv2json v2.0.2

Test with some sample data

```

rudi@PIP MINGW64 ~
$ cat sample_data.csv
id,first_name,last_name,email,gender
1,Terry,Brodley,tbrodley0@barnesandnoble.com,Male
2,Felicie,Wearne,fwearne1@cloudflare.com,Agender
3,Agata,Petyankin,apetyankin2@ca.gov,Female
4,Bird,O'Driscole,bodriscole3@dion.ne.jp,Female
5,Aleta,Overell,aoverell4@rambler.ru,Female
6,Philippa,Hazelby,phazelby5@sun.com,Female
7,Danie,Brecknock,dbrecknock6@stanford.edu,Male
8,Isador,Rowlands,irowlands7@gov.uk,Male
9,Tiler,Clewlowe,tclewlowe8@globo.com,Male
10,Obidiah,Dornin,odornin9@ucsd.edu,Male

rudi@PIP MINGW64 ~
$ head -2 sample_data.csv | csv2json
[
  {
    "id": "1",
    "first_name": "Terry",
    "last_name": "Brodley",
    "email": "tbrodley0@barnesandnoble.com",
    "gender": "Male"
  }
]

```

(optional) install jq and test resultant json array against it



Test installed jq

```
rudi@PIP MINGW64 ~
$ which jq
/c/ProgramData/chocolatey/bin/jq

rudi@PIP MINGW64 ~
$ jq -h
jq - commandline JSON processor [version 1.6]

Usage: C:\ProgramData\chocolatey\lib\jq\tools\jq.exe [options] <jq filter>
[file...]
C:\ProgramData\chocolatey\lib\jq\tools\jq.exe [options] --args <jq filter>
[strings...]
C:\ProgramData\chocolatey\lib\jq\tools\jq.exe [options] --jsonargs <jq
filter> [JSON_TEXTS...]
```

jq is a tool for processing JSON inputs, applying the given filter to its JSON text inputs and producing the filter's results as JSON on standard output.

The simplest filter is `.`, which copies jq's input to its output unmodified (except for formatting, but note that IEEE754 is used for number representation internally, with all that that implies).

For more advanced filters see the `jq(1)` manpage ("`man jq`") and/or <https://stedolan.github.io/jq>

Example:

```
$ echo '{"foo": 0}' | jq .
{
  "foo": 0
}
```

Some of the options include:

```
-c          compact instead of pretty-printed output;
-n          use `null` as the single input value;
-e          set the exit status code based on the output;
-s          read (slurp) all inputs into an array; apply filter to it;
-r          output raw strings, not JSON texts;
-R          read raw strings, not JSON texts;
-C          colorize JSON;
-M          monochrome (don't colorize JSON);
-S          sort keys of objects on output;
--tab       use tabs for indentation;
--arg a v   set variable $a to value <v>;
--argjson a v set variable $a to JSON value <v>;
--slurpfile a f set variable $a to an array of JSON texts read from <f>;
--rawfile a f set variable $a to a string consisting of the contents of <f>;
--args      remaining arguments are string arguments, not files;
--jsonargs  remaining arguments are JSON arguments, not files;
--          terminates argument processing;
```

Named arguments are also available as `$ARGS.named[]`, while positional arguments are available as `$ARGS.positional[]`.

See the manpage for more options.

Run jq at the end of the pipe

```
rudi@PIP MINGW64 ~
$ head -2 sample_data.csv | csv2json | jq
[
  {
    "id": "1",
    "first_name": "Terry",
    "last_name": "Brodley",
    "email": "tbrodley@barnesandnoble.com",
    "gender": "Male"
  }
]
```

With colour!

```
rudi@PIP MINGW64 ~
$ head -2 sample_data.csv | csv2json | jq -C
[
  {
    "id": "1",
    "first_name": "Terry",
    "last_name": "Brodley",
    "email": "tbrodley0@barnesandnoble.com",
    "gender": "Male"
  }
]
```

Create endpoint

Endpoint name*

User friendly name for your endpoint

rudiendpoint

Entity Type*

Select the entity type you want to push

DumpEntityForEndpointCreation

View more details on DumpEntityForEndpointCreation

+

Add ingestion point

Name	Size	Author
rudiendpoint	No data sent	<div>R</div> rha@cluedin.com

< Back

Integrations / ... / rudi - test new field added later / rudiendpoint

rudiendpoint

Created by

R

 rha@cluedin.com 2 minutes ago

You have not sent data.

Please click button below for instructions on how to send data.

View instructions

Endpoint instructions

Instructions

Cluedin has created a HTTP endpoint to receive the data. Data may now be submitted by creating HTTP Post requests.

Post

<https://app.20.53.249.85.sslip.io/upload/api/endpoint/880E2DDE-2144-4094-B323-763EBF7A0D23>

Requirements

Each request must have the following information to be accepted:

- An Authorization header with a value of Bearer. Where Bearer is a valid API token.
- A request body containing a JSON object array.
- Each JSON object in the request body must represent the entity type:
 - DumpEntityForEndpointCreation

<https://app.20.53.249.85.sslip.io/upload/api/endpoint/880E2DDE-2144-4094-B323-763EBF7A0D23>

Create API token

Journals Page 4

API token

Create API Token

List of active API tokens

endpointtest

Your token will expire in 328 days.

	
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eyJhbGciOiJSUzI1NiIsImtpZCI6IjE2QjBEMjJlZDNDNEIzRTE2RjZBRFTDQ0VBNTHdMDJDMzBFOUFSUzI1NiIsInR5cCI6ImF0K2p3dCIsIng1dCI6ImxyRFNJOHBZUEVzLUZ2YXVITTSakFMRERwbYj9.eyJuYmYoIQE2NjUzNzMjMyMjlsImV4cCI6MTY5Njk1MjQyMSwiaXNzIjoiaHR0CHM6LY9hcHAuMjAuNTMuMjQ5Ljg1LnNzbGlwLmlvLF2F1dGvgliwiYXVkljbpbllNlcNZlckFwaUZvcVJliwiUHVBibGljQXBpIl0slmNsaWVudF9pZCilIB1YmxpY0FwaUNsaWVudClSlInJvbGUoIiwibUEkiLCjDbGllbnRJZCil6lmNsdsWVkaW5hcGFjZGVtbyslsk9yZ2FuaXphdGlwbkkljoiYjgxMTTM0ZTMtMjdKOOC00Ym1LTgOMzctYjU4OTk1ODgxODRmliWiT3JnYW5pemF0aW9uTmFtZSI6ImNsdWVkaW5hcGFjZGVtbyslsk9yZ2Fu

aXphdGlwbkNsaWVudFIJZmVyZW5zSi6ImNsdWVkaW5hcGFjZGVtbyslsklkljoiMzYzZGY5NzUtZTc3OC00MTQ3LTk1MjltZDlmZGIwMWQzNTI4IiwiaXBlbjoiMjk1ZmE3OTItY2M5Yy00ZTNiLWJiM2MtMTViYWMyYTAY2ExliwianRpjlOIQUyYNDY0MDEyQUZENTi1NjdDRtVEOTHbNUi1NDc3QiYiLCJpYXQiOjE2NjUzNzMjMyMjlsInNjb3BlIjpbIlB1YmxpY0FwaSisInNlcNZlckFwaUZvcVJlIl9.R8AlKBmvy3oysN9HCUXiy9JPvN4xtM13EbMXGwxo4agCcD7dTYNjdsbY7arHiv9SZvLPzGk-bDtI6h-CnvY1cmrZXNXib9HxwmeCl9pf-TTGq7o5l7GnqGVQrb8bjneVUGK_c1IHn5dMWPaYr4Nar7Z-e1JTUC4uwtfRZePBhepb4wfEJ9N7NIIMx9OVTBshojNBhfYqlQ3CoJBfyBF9K5-fn_al-w6IJsmkTMM5m-ZtzXN23BL98XM8R9qDfdnYc3tW-15FIEek7JHc-V7YqoeC7eLwgAqMtiOpVnxU5aEWT90NsZ03MUcwJ_9dubH6vHTTz84esaRad2cYCcoO-A

Create 10 rows of sample data - referred to as sample data B

<https://mockaroo.com/>

Field Name	Type	Options
<input type="text" value="id"/>	<input type="text" value="Row Number"/>	blank: <input type="text" value="0 %"/> <input type="button" value="Σ"/> <input type="button" value="X"/>
<input type="text" value="first_name"/>	<input type="text" value="First Name"/>	blank: <input type="text" value="0 %"/> <input type="button" value="Σ"/> <input type="button" value="X"/>
<input type="text" value="last_name"/>	<input type="text" value="Last Name"/>	blank: <input type="text" value="0 %"/> <input type="button" value="Σ"/> <input type="button" value="X"/>
<input type="text" value="email"/>	<input type="text" value="Email Address"/>	blank: <input type="text" value="0 %"/> <input type="button" value="Σ"/> <input type="button" value="X"/>
<input type="text" value="gender"/>	<input type="text" value="Gender"/>	blank: <input type="text" value="0 %"/> <input type="button" value="Σ"/> <input type="button" value="X"/>

```
$ cat sample_data_A.csv
id,first_name,last_name,email
1,Terry,Brodley,tbrodley0@barnesandnoble.com
```

2,Felicle,Wearne,fwearne1@cloudflare.com
3,Agata,Petyankin,apetyankin2@ca.gov
4,Bird,O'Driscole,bodriscole3@dion.ne.jp
5,Aleta,Overell,aoverell4@rambler.ru
6,Philippa,Hazelby,phazelby5@sun.com
7,Danie,Brecknock,dbrecknock6@stanford.edu
8,Isador,Rowlands,irowlands7@gov.uk
9,Tiler,Clewlowe,tclewlowe8@globo.com
10,Obidiah,Dornin,odornin9@ucsd.edu

create script using endpoint URL and token details from above

run it



rudiendpoint

Unfinished Mapping

Created by R rha@cluedin.com 12 minutes ago

Preview

Map

Prepare

Validate

Process

View instructions

id	first_name
1	Terry
2	Felicle
3	Agata
4	Bird
5	Aleta
6	Philippa
7	Danie

Rows: **10/10** Columns: **4/4**