Create User Using Local Pod or Postman - REST API
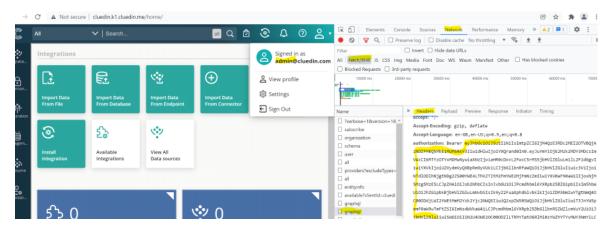
16 December 2021   08:07

18 Jan 2022 uploaded to https://github.com/CluedIn-io/ImpTools/tree/master/k8/apline

Purpose

To enable user creation using an internal resource (rather than Postman etc).

Method

Login to cluedin instance UI as admin and obtain bearer token

As logged, open devtools with F12 in chrome, choose Network, Fetch/XHR, one of the graphql calls then Headers and scroll down to reveal the Bearer token

In the case above it is:

```
Bearer
eyJhbGciOiJSUzI1NiIsImtpZCI6IjM4QzE3RDc2MEI2OTVBQjAzNDZFMEQ5MkE1MUM5RkY3IiwidHlwIjoiYXQrand0In0.eyJuYmYiOjE2Mzk2MDY3MDcsImV4cCI6MTYzOTYxMDMwNywiaXNzIj
oiaHR0cDovL2FwcC5rMS5jbHVlZGluLm1lL2F1dGgvIiwiYXVkIjoiU2VydmVyQXBpRm9yVUkiLCJjbGllbnRfaWQiOiJjbHVlZGluIiwic3ViIjoiNTdlODlhNjgtNDg2ZS00YWE4LThkZTItM2Fm
YWE2MjFmNzZmIiwiYXV0aF90aW1lIjoxNjM5Mzg5MzE5LCJpZHAiOiJsb2NhbCIsInJvbGUiOiJPcmdhbml6YXRpb25BZG1pbiIsIm5hbWUiOiJhZG1pbkBjbHVlZGluLmNvbSIsIk9yZ2FuaXphdG
lvbklkIjoiZDM3NmIwYTgtNmQ4OC00ODgzLWI2YWEtMmM2Yzk2Yjc2NWQ5IiwiQ2xpZW50SWQiOiJjbHVlZGluIiwiT3JnYW5pemF0aW9uVXNlckNhbWUiOiJjbHVlZGluLmNvbSIsIk9yZ2FuaXph
dGlvbk5hbWUiOiJjbHVlZGluIiwiT3JnYW5pemF0aW9uUnVmbGUiOiJPcmdhbml6YXRpb25BZG1pbiIsIm5hbWUiOiJhZG1pbkBjbHVlZGluLmNvbSIsIlRvbGUiOiJPcmdhbml6YXRpb25BZG1pbi
bnRSZWZlcmVuY2UiOiJj<redacted>
hbmNlLm11dHJpY3NcIjpcIkNvbnN1bHRhbnRcIixcImFkbWluLnJvbGVzXCI6XCJBY2NvdW50YWJsZVwiLFwiZ292ZXJuYW5jZS5zZXR0aW5nc1wiOlwiQ29uc3VsdGFudFwifSIsImp0aSI6IkIzR
jA2NUQwNzk3NDZFNTY3QzRBRjAzMTBGNEQxRTlBIiwiaWF0IjoxNjM5Mzg5MzE5LCJzY29wZSI6WyJvcGVuaWQiLCJwcm9maWxlIiwiU2VydmVyQXBpRm9yVUkiLCJTcGVjaWZpY09Jsb2JBcGkiLCJ
vZmZsaW5lX2FjY2VzcyJdLCJhbXIiOlsicHdkIl19.y7wWM94BUygIxnwrwefDCw0lFR2V4IZh3QDH5ZTwnjrUAA07v9Xh3ETLPH8rBFoxl_uOen8N7BV8n4WiX2RYrymR21WYpL6f7uyOliIG7Wyk
ntdfNvlNqCJG8m6q6RPe6HFIZxuD57W_z2RKGEXoYf8QDIxQ2ej0sUTuSi62o8_Vlqx4j78Deb1FExCjGXlPEhCLGfKuIqpS6GUEHtt4QxadVCmLvn4WMS_hLuYXbca-
PoWOs_VG6PImx0nTxy1wjR4kx16h-35JwY6hJwq3ngCzoHBnnK25oTyTsrYP8RTFqTt0Njnq1RuTwmT07FfRXpgN1ItFqgHmjbIzhUOKyg
```

Note: Or Create API token and store the token somewhere safe for later

Create interactive shell session with a new temporary debug pod

Use kubectl to create debug alpine pod (assumes you are in the right namespace and context etc)

```
kubectl run -i --tty --rm debug --image=alpine --restart=Never -- sh
```

You are now connected to the pod and can run commands

Get cluedin server internal name for the service on port 9000

in powershell

```
PS > kubectl get services | FindStr 9000
cluedin-demo-cluedin            ClusterIP    10.0.68.113    <none>    9000/TCP,9001/TCP,9003/TCP,9006/TCP,9007/TCP,9013/TCP    7d10h
```

In this case `cluedin-demo-cluedin` is the service name that is running on port 9000, yours will vary depending on what names were given during creation of the cluster.

Install curl

in the pod interactive shell session

```
/ # apk --no-cache add curl
```

test access to cluedin server

```
/ # curl http://cluedin-demo-cluedin:9000/health/liveness && echo
OK
```

test cluedin server status - expect all ServiceStatus to be Green... otherwise you need to fix your cluster before continuing

```
/ # apk --no-cache add jq
/ # curl http://cluedin-demo-cluedin:9000/status | jq
    {
      "ServiceStatus": "Green",
      "UpdatedDate": "2021-12-15T22:49:06.9713766+00:00",
      "DataShards": [
        {
          "Type": "Blob",
          "ServiceStatus": "Green"
        },
        {
          "Type": "Configuration",
          "ServiceStatus": "Green"
        },
```

```
              {
                "Type": "Data",
                "ServiceStatus": "Green"
              },
              {
                "Type": "Search",
                "ServiceStatus": "Green"
              },
              {
                "Type": "Graph",
                "ServiceStatus": "Green"
              },
              {
                "Type": "Metrics",
                "ServiceStatus": "Green"
              }
            ],
            "Components": [
              {
                "Type": "Api",
                "ServiceStatus": "Green"
              },
              {
                "Type": "Authentication",
                "ServiceStatus": "Green"
              },
              {
                "Type": "Crawling",
                "ServiceStatus": "Green"
              },
              {
                "Type": "Scheduling",
                "ServiceStatus": "Green"
              },
              {
                "Type": "ServiceBus",
                "ServiceStatus": "Green"
              },
              {
                "Type": "System",
                "ServiceStatus": "Green"
              }
            ]
          }
      / #
```

Define TOKEN in the console/shell as the token value from earlier (only the text after the bearer keyword)

e.g.

```
/ # export TOKEN=eyJhbGciOiJSUzI1NiIsImtpZCI6IjM4QzE3RDc2MEI2OTVBQjAzNDZFMEQ5MkE1MUM5RkY3IiwidHlwIjoiYXQrand0In0.eyJuYmYiOjE2Mzk2MDY3MDcsImV4cCI6M
TYzOTYxMDMwNywiaXNzIjoiaHR0cD<redacted>2F0ZXNcIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2UuZGF0YWJyZWFjaFwi
OlwiQ29uc3VsdGFudFwiLFwiZW5naW5lLmpvYnNcIjpcIkNvbnN1bHRhbnRcIixcImVuZ2luZS5wcm9jZXNzaW5nXCI6XCJDb25zdWx0
```

Run curl command (or script)

<mark>apk --no-cache add curl jq</mark>

<mark>define these 3 environment variable as required</mark>

<mark>e.g:</mark>
<mark>export username=cluedinuser@cluedin.com</mark>
<mark>export password=bLaye3#09RU</mark>
<mark>export org=cluedin</mark>

Create this script - or copy and paste into the console (skip the `#!/bin/sh` line if copy and paste)

Update the highlighted parts to match your app endpoint.

create_user.sh	```#!/bin/sh
	
	code=`echo -n $username | md5sum | cut -d " " -f1 | awk '{print toupper($0)}'`
	URL=http://app.k1.cluedin.me/auth/api/account/register?code=$code
	echo $URL
	
	curl -v --location -g --request POST $URL \
	        --header 'Content-Type: application/x-www-form-urlencoded'\
	        --header "Authorization: Bearer $TOKEN" \
	        --data-urlencode username=$username \
	        --data-urlencode password=$password \
	        --data-urlencode applicationSubDomain=$org \
	        --data-urlencode grant_type=password \
	        --data-urlencode confirmpassword=$password \
	        --data-urlencode email=$username```

```
* Connected to app.k1.cluedin.me (20.92.135.115) port 80 (#0)
> POST /auth/api/account/register?code=EBCA96CCDA42571692EF4FAFDF69B1AE HTTP/1.1
> Host: app.k1.cluedin.me
> User-Agent: curl/7.80.0
> Accept: */*
> Content-Type: application/x-www-form-urlencoded
> Authorization: Bearer
eyJhbGciOiJSUzI1NiIsImtpZCI6IjM4QzE3RDc2MEI2OTVBQjAzNDZFMEQ5MkE1MUM5RkY3IiwidHlwIjoiYXQrand0In0.eyJuYmYiOjE2Mzk2MDY3MDcsImV4cCI6MTYzOTYxMDMwNywiaXNzIj
oiaHR0cDovL2FwcC5rMS5jbHVlZGluLm1lL2F1dGgvIiwiYXVkIjoiU2VydmyQXBpRm9yVUkiLCJjbGllbnRfaWQiOiJjbHVlZGluIiwic3ViIjoiNTdlODlhNjgtNDg2ZS00YWE4LThkZTItM2Fm
YWE2MjFmNzZmIiwiYXV0aF90aW1lIjoxNjM5Mzg5MzE5LCJpZHAiOiJsb2NhbCIsInJvbGUiOiJPcmdhbml6YXRpb25BZG1pbiIsIm5hbWUiOiJhZG1pbkBjbHVlZGluLm5vbSIsIk9yZ2FuaXphdG
lvbklkIjoiZDM3NmIwYTgtNmQ4OC0<redacted>5lbnRpdHl0eXBlc1wiOlwiQWNjb3VudGFibGVcIixcImVuZ2luZS5jb25maWd1cmF0aW9uZ3JvdXBzXCI6XCJDb25zdWx0YW50XCIsXCJnb3Zlc
m5hbmNlLmRhdGFyZXRlbnRpb25cIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2Uuc3ViamVjdGFyY2Vzc3JlcXVlc3RcIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2UucGVyc29uYWxpdGV
udGlmaWVyc1wiOlwiQ29uc3VsdGFudFwiLFwiaW50ZWdyYXRpb24uYXBrZW9YXNvdXJjZWdyb3Vwc1wiOlwiQ29uc3VsdGFudFwiLFwicHJlcGFyYXRpb24ucHJlcGFyYXRpb25cIixcImdvdmVybm
FuY2UuZGF0YWJyZWFjaFwiOlwiQ29uc3VsdGFudFwiLFwiYWRtaW4udXNlcnNcIjpcIkFjY29
1bnRhYmxlXCIsXCJtYW5hZ2VtZVtZW50LmLmR1cGxpY2F0ZXNcIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2UuZGF0YWJyZWFjaFwiOlwiQ29uc3VsdGFudFwiLFwiZW5naW5lLmpvYnNcIjpcIkNvb
nN1bHRhbnRcIixcImVuZ2luZS5wcm9jZXNzaW5nXCI6XCJDb25zdWx0Wx0
> Content-Length: 166
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< date: Thu, 16 Dec 2021 01:47:54 GMT
< server:
< content-length: 0
< vary: Accept-Encoding
< x-powered-by: CluedIn
< x-cluedin-version: 3.2.0.0
```
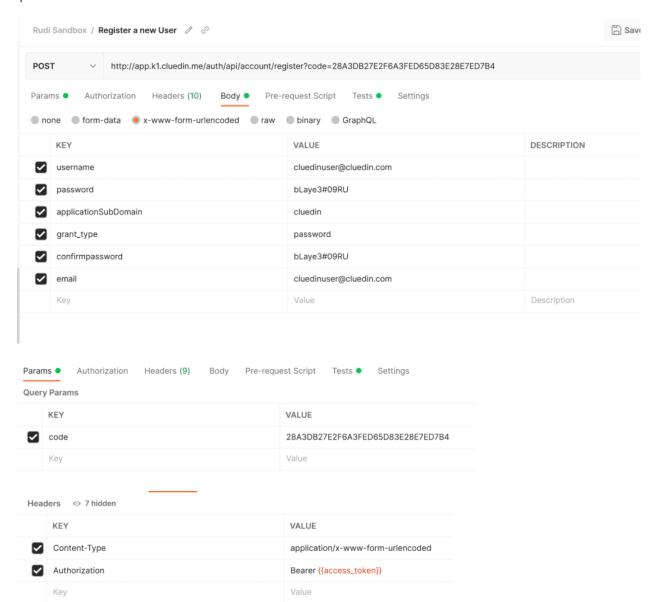
```
< x-cluedin-data: All your data are belong to you!
< x-robots-tag: noindex,nofollow
< x-correlation-id: 7e21a5b4-9f47-4276-b1fa-0990cb760053
```

if you run it again you get

```
HTTP/1.1 409 Conflict
```

Compare with Postman

Rudi Sandbox / **Register a new User** 🖉 🔗   🖫 Sav

| POST ⌄ | http://app.k1.cluedin.me/auth/api/account/register?code=28A3DB27E2F6A3FED65D83E28E7ED7B4 |

Params ●   Authorization   Headers (10)   **Body ●**   Pre-request Script   Tests ●   Settings

○ none   ○ form-data   ● x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

	KEY	VALUE	DESCRIPTION
☑	username	cluedinuser@cluedin.com	
☑	password	bLaye3#09RU	
☑	applicationSubDomain	cluedin	
☑	grant_type	password	
☑	confirmpassword	bLaye3#09RU	
☑	email	cluedinuser@cluedin.com	
	Key	Value	Description

Params ●   Authorization   Headers (9)   Body   Pre-request Script   Tests ●   Settings

Query Params

	KEY	VALUE
☑	code	28A3DB27E2F6A3FED65D83E28E7ED7B4
	Key	Value

Headers   👁 7 hidden

	KEY	VALUE
☑	Content-Type	application/x-www-form-urlencoded
☑	Authorization	Bearer {{access_token}}
	Key	Value

Raw console log from Postman

```
POST /auth/api/account/register?code=28A3DB27E2F6A3FED65D83E28E7ED7B4 HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer
eyJhbGciOiJSUzI1NiIsImtpZCI6IkVGOUZFODAzQzJFNkJGQ0QzRkRBNkY0RkVCNEJDNEYwIiwidHlwIjoiYXQrand0In0.eyJuYmYiOjE2Mjk2OTQ1MDgsImV4cCI6MTY2MTIzMDUwNywi
aXNzIjoiaHR0cDovLzEyNy4wLjA<redacted>YUXGRrL7EPfV2oxhdWWc3oudRyzoodt19YOdI1U4ChZNUrmIgUf7tufl-I-dEUR0OP7d3
_h2O2H0AkAF0jvS79bUdHFb0ugrvdf1xJtf6sdoqylEb1a6nmIs_-tmBPENDMYJSUZf9YgA9ZLFLcBCLcBGMX9HzhYzwhOCcdyrLULaBIxGhwzCpXucLau0MifdSx2yYC89-
zRLEI0GcFXh9P-vzSsaXZflf-boiD33pSQzZqHw
User-Agent: PostmanRuntime/7.28.4
Accept: */*
Cache-Control: no-cache
Postman-Token: bd25ceeb-fb95-43c6-bf7f-9791b0edd1bc
Host: app.k1.cluedin.me
Accept-Encoding: gzip, deflate, br
Connection: keep-alive

username=cluedinuser%40cluedin.com&password=bLaye3%2309RU&applicationSubDomain=cluedin&grant_type=password&confirmpassword=bLaye3%
2309RU&email=cluedinuser%40cluedin.com

HTTP/1.1 200 OK
date: Thu, 16 Dec 2021 01:35:24 GMT
server:
content-length: 0
vary: Accept-Encoding
x-powered-by: CluedIn
x-cluedin-version: 3.2.0.0
x-cluedin-data: All your data are belong to you!
x-robots-tag: noindex,nofollow
x-correlation-id: 65b1f6cf-e7b8-43b6-9882-07532e51cc7d
```

if you run the same request again you get an expected 409 error

```
POST /auth/api/account/register?code=28A3DB27E2F6A3FED65D83E28E7ED7B4 HTTP/1.1
Content-Type: application/x-www-form-urlencoded
```

Authorization: Bearer
eyJhbGciOiJSUzI1NiIsImtpZCI6IkVGOUZFODAzQzJFNkJGQ0QzRkRBNkY0RkVCNEJDNEYwIiwidHlwIjoiYXQrand0In0.eyJuYmYiOjE2Mjk2OTQ1MDgsImV4cCI6MTY2MTIzMDUwNywi
aXNzIjoiaHR0cDovLzEyNy4wLjAuMS5uaXAuaW86ODOTAwMS8iLCJhdWQiOlsiU2VydmVyQXBpRm9yVUkiLCJQdWJsaWNBcGkXSwiY2xpZW50X21kIjoiUHVibGljJQXBpQ2xpZW50Iiwicm9s
ZSI6IkFQSSIsIk9yZ2FuaXph<redacted>2oxhdWWc3oudRyzoodt19YOdI1U4ChZNUrmIgUf7tufl-I-dEUR0OP7d3_h2O2H0AkAF0jvS79bUdHFb0ugrvdf1xJtf6sdoqylEb1a6nmIs_-
tmBPENDMYJSUZf9YgA9ZLFLcBCLcBGMX9HzhYzwhOCcdyrLULaBIxGhwzCpXucLau0MifdSx2yYC89-zRLEI0GcFXh9P-vzSsaXZflf-boiD33pSQzZqHw
User-Agent: PostmanRuntime/7.28.4
Accept: */*
Cache-Control: no-cache
Postman-Token: 13ca680b-de28-4b12-93b3-c6fd927d7d3f
Host: app.k1.cluedin.me
Accept-Encoding: gzip, deflate, br
Connection: keep-alive

username=cluedinuser%40cluedin.com&password=bLaye3%2309RU&applicationSubDomain=cluedin&grant_type=password&confirmpassword=bLaye3%
2309RU&email=cluedinuser%40cluedin.com

HTTP/1.1 409 Conflict
date: Thu, 16 Dec 2021 01:42:44 GMT
server:
content-length: 0
vary: Accept-Encoding
x-powered-by: CluedIn
x-cluedin-version: 3.2.0.0
x-cluedin-data: All your data are belong to you!
x-robots-tag: noindex,nofollow
x-correlation-id: 2ca7a836-97c8-4aa2-a5c4-aec2680ca8b5

Administration / User Management / All Users

⊕ INVITE A NEW TEAM MEMBER

	NAME	ROLES	ACTIVE
☐	C cluedinuser@cluedin.com	OrganizationUser	🔘 Active
☐	A admin@cluedin.com This is you	Admin	You cannot deactivat