Create User Using Local Pod or Postman - REST API

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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
lvbklkIjoiZDM3NmIwYTgtNmQ4OC00ODdjLWI2YWEtMmM2Yzk2Yjc2NWQ5IiwiQ2xpZW50SWQiOiJjbHVlZGluIiwiT3JnYW5pemF0aW9uTmFtZSI6ImNsdWVkaW4iLCJPcmdhbml6YXRpb25DbGll
bnRSZWZlcmVuY2UiOiJj<redacted>
hbmNlLm1ldHJpY3NcIjpcIkNvbnN1bHRhbnRcIixcImFkbWluLnJvbGVzXCI6XCJBY2NvdW50YWJsZVwiLFwiZ292ZXJuYW5jZS5zZXR0aW5nc1wiOlwiQ29uc3VsdGFudFwifSIsImp0aSI6IkIzR
jA2NUQwNzk3NDZFNTY3QzRBRjAzMTBGNEQxRTlBIiwiaWF0IjoxNjM5Mzg5MzE5LCJzY29wZSI6WyJvcGVuaWQiLCJwcm9maWxlIiwiU2VydmVyQXBpRm9yVUkiLCJTcGVjaWZpY0Jsb2JBcGkiLCJ
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
TYzOTYxMDMwNywiaXNzIjoiaHR0cDovL2FwcC5rMS5jbHVlZGluLm1lL2F1dGgvIiwiYXVkIjoiU2VydmVyQXBpRm9yVUkiLCJjbGllbnRfaWQiOiJjbHVlZGluIiwic3ViIjoiNTdl
ODlhNjgtNDg2ZS00YWE4LThkZTItM2FmYWE2MjFmNzZmIiwiYXV0aF90aW1lIjoxNjM5Mzg5MzE5LCJpZHAiOiJsb2NhbCIsInJvbGUiOiJPcmdhbml6YXRpb25BZG1pbiIsIm5hbWU
iOiJhZG1pbkBjbHVlZGluLmNvbSIsIk9yZ2FuaXphdGlvbklkIjoiZDM3NmIwYTgtNmQ4OC00ODdjLWI2YWEtMmM2Yzk2Yjc2NWQ5IiwiQ2xpZW50SWQiOiJjbHVlZGluIiwiT3JnYW
5pemF0aW9uTmFtZSI6ImNsdWVk<redactd>iaW50ZWdyYXRpb24uZGF0YXNvdXJjZWdyb3Vwc1wiOlwiQ29uc3VsdGFudFwiLFwicHJlcGFyYXRpb24ucHJlcG
FyZVwiOlwiQ29uc3VsdGFudFwiLFwicHJlcGFyYXRpb24uY2xlYW5cIjpcIkNvbnN1bHRhbnRcIixcImludGVncmF0aW9uLmF2YWlsYWJsZWludGVncmF0aW9uc1wiOlwiQ29uc3Vsd
GFudFwiLFwiYWRtaW4udXNlcnNcIjpcIkFjY291bnRhYmxlXCIsXCJtYW5hZ2VtZW50LmR1cGxpY2F0ZXNcIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2UuZGF0YWJyZWFqaFwi
OlwiQ29uc3VsdGFudFwiLFwiZW5naW5lLmpvYnNcIjpcIkNvbnN1bHRhbnRcIixcImVuZ2luZS5wcm9jZXNzaW5nXCI6XCJDb25zdWx0
```

Run curl command (or script)

```
apk --no-cache add curl jq
```

```
define these 3 environment variable as required
```

```
e.g:
export username=cluedinuser@cluedin.com
export password=bLaye3#09RU
export org=cluedin
```

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
oiaHR0cDovL2FwcC5rMS5jbHVlZGluLm1lL2F1dGgvIiwiYXVkIjoiU2VydmVyQXBpRm9yVUkiLCJjbGllbnRfaWQiOiJjbHVlZGluIiwic3ViIjoiNTdlODlhNjgtNDg2ZS00YWE4LThkZTItM2Fm
YWE2MjFmNzZmIiwiYXV0aF90aW1lIjoxNjM5Mzg5MzE5LCJpZHAiOiJsb2NhbCIsInJvbGUiOiJPcmdhbml6YXRpb25BZG1pbiIsIm5hbWUiOiJhZG1pbkBjbHVlZGluLmNvbSIsIk9yZ2FuaXphdhG
lvbklkIjoiZDM3NmIwYTgtNmQ4OC00ODdjLWI2YWEtMmM2Yzk2Yjc2NWQ5IiwiQ2xpZW50SWQiOiJjbHVlZGluIiwiT3JnYW5pemF0aW9uTmFtZSI6ImNsdWVkaW4iLCJPcmdhbml6YXRpb25DbGll
bnRSZWZlcmVuY2UiOiJjbHVlZGluIiwiSWQiOiI1N2U4OWE2OC00ODZlLTRhYTgtOGRlMi0zYWZhYTYyMWY3NmYiLCJSb2x1Q2xhaW1zIjoie1wiY29uc3VtZS5leHBvcnR0YXJnZXRzXCI6XCJDb2
5zdWx0YW50XCIsXCJjb25zdWl1LnN0cmVhbXNcIjpcIkNvbnN1bHRhbnRcIixcImludGVncmF0aW9uLmNvbmZpZ3VyZWRpbnRlZ3JhdGlvbnNcIjpcIkNvbnN1bHRhbnRcIixcIm1hbmFnZW1lbnQu
Z2xvc3NhcnlcIjpcIkNvbnN1bHRhbnRcIixcIm1hbmFnZW1lbnQuQZGF0YWNhdGFsb2dcIjpcIkNvbnN1bHRhbnRcIixcInByZXBhcmF0aW9uLm1lc2hjZW50ZXJcIjpcIkNvbnN1bHRhbnRcIixcIm
1hbmFnZW1lbnQucnVsZWJ1aWxkZXJcIjpcIkNvbnN1bHRhbnRcIixcImludGVncmF0aW9uLmVucmljaG1lbnRcIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2UuY29uc3VudFwiOlwiQ29uc3Vz
dGFudFwibWFuYWdlbWVudC5hbmdvY0aW9uXCI6XCJDb25zdWx0YW50XCIsXCJhZG1pbi5lbnRpdHl0eXBlc1wiOlwiQWNjb3VudGFibGVcIixcImVuZ2luZS5jb25maWd1cmF0aW9uXCI6XCJ3dX
BzXCI6XCJDb25zdWx0YW50XCIsXCJnb3Jlcm5hbmNlLmRhdGFyZXRlbnRpb25cIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2Uuc29yxpZGFjdGdfjY2Vzc3JlcXVlc3RcIjpcIkNvbnN1bHRhbnRc
IixcImdvdmVybmFuY2UuGVyc29uYWxpZGVudGlmaWVyc1wiOlwiQ29uc3VsdGFudFwiFwiaW50ZWdyYXRpb24uZGF0YXNvdXJjZWdyb3Vwc1wiOlwiQ29uc3VsdGFudFwiFwicHJlcGFyYXRpb2
4ucHJlcGFyZVwiOlwiQ29uc3VsdGFudFwiFwicHJlcGFyYXRpb24uY2xlYW5cIjpcIkNvbnN1bHRhbnRcIixcImludGVncmF0aW9uLmF2YWlsYWJsZWludGVncmF0aW9uc1wiOlwiQ29uc3VsdGFu
dFwiFwiYWRtaW4udXNlcnNcIjpcIkFjY291bnRhYmxlXCIsXCJtYW5hZ2VtZW50LmR1cGxpY2F0ZXNcIjpcIkNvbnN1bHRhbnRcIixcImdvdmVybmFuY2UuZGF0YWJyZWFqaFwiOlwiQ29uc3VzdGFu
dFwiFwiYWRtaW4udXNlcnNcIjpcIkNvbnN1bHRhbnRcIixcImVuZ2luZS5wcm9jZXNzaW5nXCI6XCJDb25zdWx0
```

```
> 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**   Save

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
aXNzIjoiaHR0cDovLzEyNy4wLjAuMS5uaXAuaW86OTAwMS8iLCJhdWQiOiSiU2VydmVyQXBpRm9yVUkiLCJQdWJsaWNBcGkiXSwiY2xpZW50X2lkIjoiUHVibGljljQXBpQ2xpZW50Iiwicm9s
ZSI6IkFQSSIsIk9yZ2FuaXphdGlvbklkIjoiMWM4MTU3ZGMtZTFmMC00ZjU0LWIxN2YtZGFkY2YyM2Q5ZDk0IiwiQ2xpZW50SWQiOiJmb29iYXIiLCJPcmdhbml6YXRpb25OYW1lIjoiZm9v
YmFyIiwiT3JnYW5pemF0aW9uVmZZJlbmNlIjoiZm9vYmFyIiwiSWQiOiJjMTg5NDIxNi0yNzc5LTQ5NDctYjI1Ni04YjU2YTc0OTFkMTkiLCJhcGkiOiYy0TVmYTc5Mi1jYzlj
LTRlM2ItYmIzYy0xNWVhYzJhMDZjYTEiLCJqdGkiOiJFRDU0MTQxOTI2M0FGQjI4QzQ0RjgxMjEzMUI4MDREQSIsImlhdCI6MTYyOTY5NDUwOCwic2NvcGUiOlsiUHVibGljljQXBpIiwiU2Vy
dmVyQXBpRm9yVUkiXX0.KXJNCia62m5uO6YJW1txlY9NjEVKNVjymQ4fFXuA3Aw-V30AF-
xPVKkZfhW1eoI5Fg_ABzD1o413nnEBvw741N76MYW0eWvAg1qQZMYUXGRrL7EPfV2oxhdWWc3oudRyzoodt19YOdI1U4ChZNUrmIgUf7tufl-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
aXNzIjoiaHR0cDovLzEyNy4wLjAuMS5uaXAuaW86OTAwMS8iLCJhdWQiOlsiU2VydmVyQXBpRm9yVUkiLCJQdWJsaWNBcGkiXSwiY2xpZW50X2lkIjoiUHVibGljIjQXBpQ2xpZW50Iiwicm9s
ZSI6IkFQSSIsIk9yZ2FuaXphdGlvbklkIjoiMWM4MTU3ZGMtZTFmMC00ZjU0LWIxN2YtZGFkY2YyM2Q5ZDk0IiwiQ2xpZW50SWQiOiJmb29iYXIiLCJPcmdhbml6YXRpb25OYW1lIjoiZm9v
YmFyIiwiT3JnYW5pemF0aW9uQ2xpZW50UmVmZXJlbmNlIjoiZm9vYmFyIiwiSWQiOiJjMTg5NDIxNi00YjU2YTc0OTFkMTkiLCJhcGkiOiIyOTVmYTc5Mi1jYzlj
LTRlM2ItYmIzYy0xNWVhYzJhMDZjYTEiLCJqdGkiOiJFRDU0MTQxOTI2M0FGQjI4QzQ0RjgxMjEzMUI4MDREQSIsImlhdCI6MTYyOTY5NDUwOCwic2NvcGUiOlsiUHVibGljIjQXBpIiwiU2Vy
dmVyQXBpRm9yVUkiXX0.KXJNCia62m5uO6YJW1txlY9NjEVKNVjymQ4fFXuA3Aw-V30AF-
xPVKkZfhW1eoI5Fg_ABzD1o413nnEBvw741N76MYW0eWvAg1qQZMYUXGRrL7EPfV2oxhdWWc3oudRyzoodt19YOdI1U4ChZNUrmIgUf7tufl-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
```