

20230204 - Install Latest CluedIn GA 3.5.2 Docker using cluedin.ps1 from Home repo

Saturday, 4 February 2023 11:38 AM

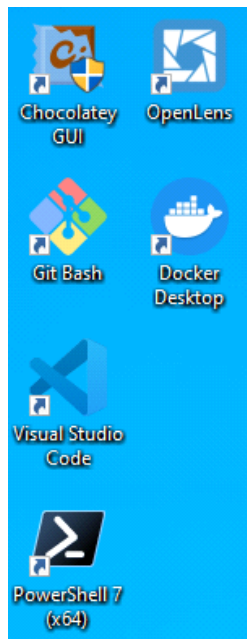
Purpose

To install the latest CluedIn GA, taking note of any changes to CluedIn, ensuring we have the latest tools - including basic troubleshooting. There are some sections that can be skipped since they contain wrong steps and fails but are left in to show the process of discovery.

Journal

Review tooling and apply updates (optional - but a good idea)

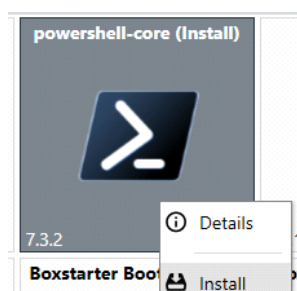
Using Windows 10 with <https://chocolatey.org/> as the package manager.

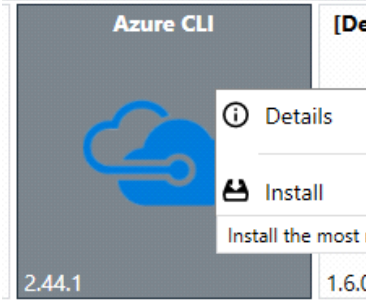


Update chocolatey managed apps using Chocolatey GUI - this is always a good starting point to ensure you are using the latest

Microsoft .NET Framework 4.8	Microsoft	4.8.0.20220524
k3d (Stable)	Rancher	5.4.6
Windows RT 8.1, Windows 8.1, and Windows Server 2012 R2 update: April 2014 (KB: Microsoft		1.0.20160915
March 2014 servicing stack update for Windows 8.1 and Windows Server 2012 R2 (Microsoft		1.0.20160915
Kubernetes Command Line Interface (CLI)	Google	1.26.1
helm	Helm is supported by and built with a com	3.11.0
Kui - CLI Driven Graphics for Kubernetes	Kui Contributors	13.0.0
LibreOffice Fresh	LibreOffice developers	7.4.5
OpenLens	Mirantis, Inc.	6.3.0
Terraform	Mitchell Hashimoto, HashiCorp	1.3.7

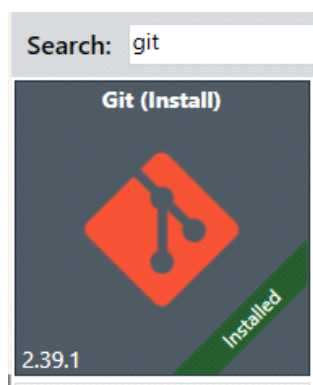
Install powershell 7 (using Chocolatey GUI to bring it under Chocolatey control)



powershell-core (Install)	Microsoft	7.3.2
Install Azure CLI - for Azure Container Registry access - which will need since docker access is no longer sufficient		
		
Azure CLI	Microsoft	2.44.1

Install git - particularly handy on windows for git bash

Can be used instead of vscode or visual studio to clone the CluedIn home repo



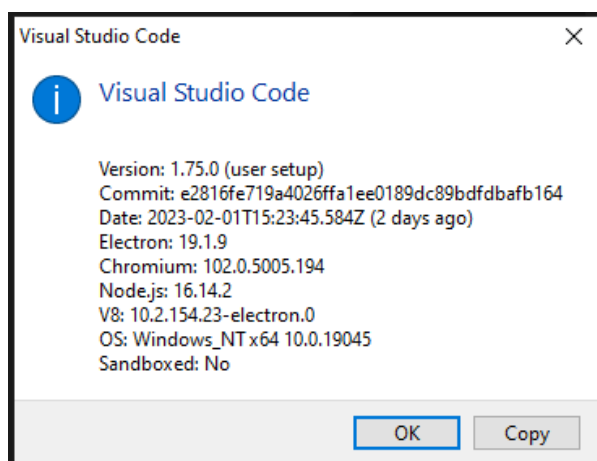
Update Docker Desktop

Software Updates

✓ You're up to date

Docker Desktop 4.16.3 (96739) is currently the newest version available.

Update VSCode - handy for git or for viewing and editing files

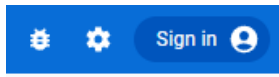


Check Visual Studio 2022 - handy for git - not required otherwise

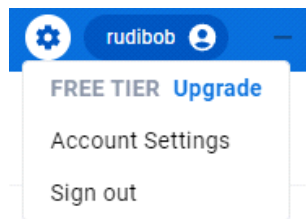
Visual Studio

Microsoft Visual Studio Community 2022 (64-bit) - Current
Version 17.1.3
© 2022 Microsoft Corporation.
All rights reserved.

Sign in to docker - this step is probably optional but is a good idea

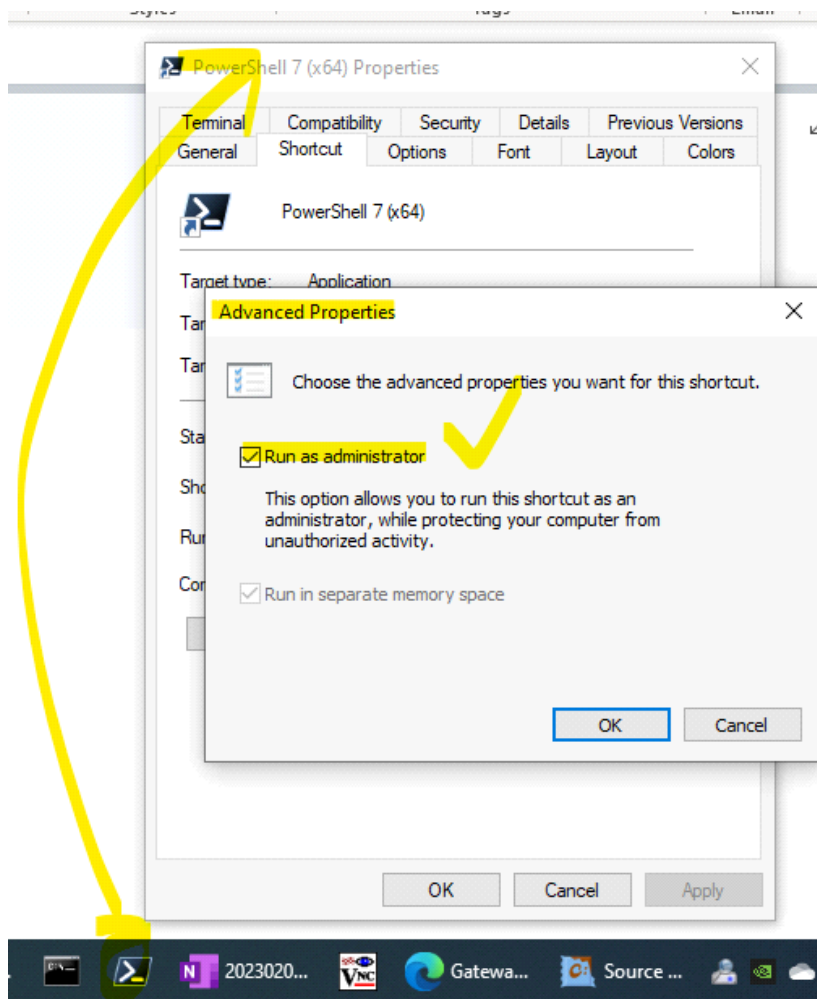


Opens browser, sign in then redirect



Launch admin powershell

Also, ensure the shortcut always starts the shell in admin, I like to have it docked in the start bar



```
Administrator: PowerShell 7 (x64)
PowerShell 7.2.9
Copyright (c) Microsoft Corporation.

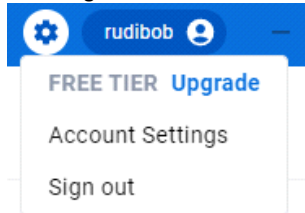
https://aka.ms/powershell
Type 'help' to get help.

PS C:\Users\rudi> _
```

Check docker cli using powershell

```
PS C:\Users\rudi> docker login
Authenticating with existing credentials...
Login Succeeded
```

Docker message is the same



Logging in with your password grants your terminal complete access to your account. For better security, log in with a limited-privilege personal access token. Learn more at <https://docs.docker.com/go/access-tokens/>

```
PS C:\Users\rudi> docker login --help
Log in to a Docker registry or cloud backend.
If no registry server is specified, the default is defined by the daemon.
```

Usage:

```
docker login [OPTIONS] [SERVER] [flags]
docker login [command]
```

Available Commands:

```
azure      Log in to azure
```

Flags:

```
-h, --help            Help for login
-p, --password string  password
--password-stdin       Take the password from stdin
-u, --username string  username
```

Use "docker login [command] --help" for more information about a command.

Check CluedIn Documentation and Release Notes (optional but recommended)

Navigate to CluedIn home repo

<https://www.cluedin.com/>

Then Documentation Portal

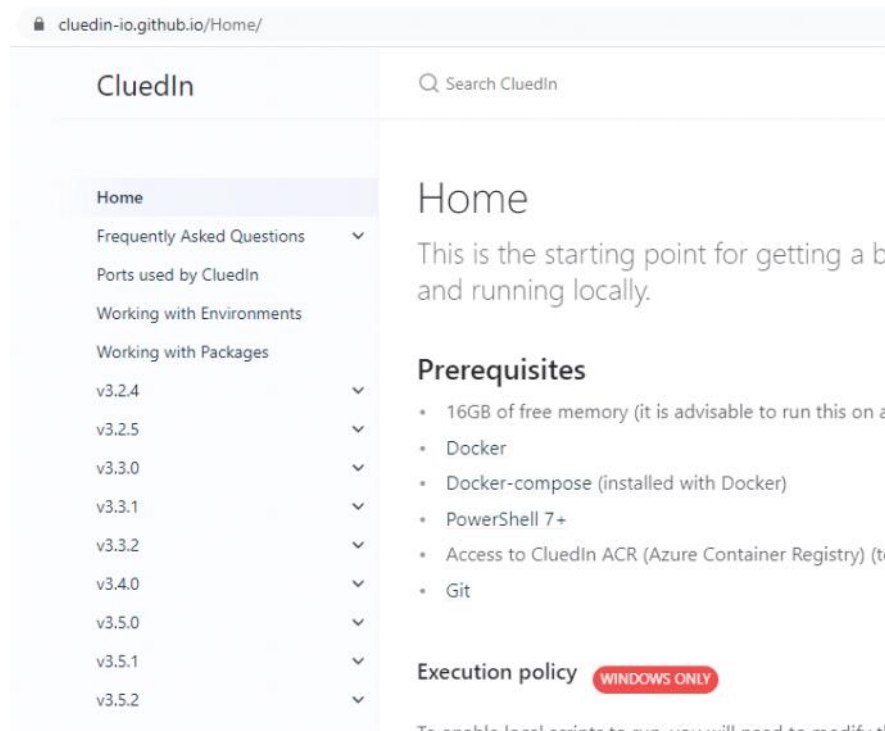
<https://documentation.cluedin.net/>

Then Deployment -> Local

<https://documentation.cluedin.net/deployment/docker-compose>

Then "For up to the minute details, please check our the Home repository [documentation](https://cluedin-io.github.io/Home/)."

<https://cluedin-io.github.io/Home/>



We can see v3.5.2 as the latest

<https://cluedin-io.github.io/Home/3.5.2/>

Release Notes - v3.5.2

Features

- Moved to using CluedIn ACR (Azure Container Registry) instead of DockerHub for container storage. Defaults to: `cluedinprod.azurecr.io`. Please ensure to use the credentials you have been sent or contact support@cluedin.com to request access.
- Default username + password for `rabbitmq` changed from `guest:guest` to `cluedin:cluedin` due to new security defaults.

Fixes

- Fix bug in detecting Docker-compose version

Back to top of home doco

<https://cluedin-io.github.io/Home/>

Quick Start

All examples are provided as if running in a PowerShell session. To begin a PowerShell session, enter the command `pwsh` and a new session will start

```
# Check out the repository
> git clone https://github.com/CluedIn-io/Home.git

# Move to the checkout directory
> cd Home

# Log in to DockerHub
```

Quick Start

All examples are provided as if running in a PowerShell session. To begin a PowerShell session, enter the command `pwsh` and a new session will start

```
# Check out the repository
> git clone https://github.com/CluedIn-io/Home.git

# Move to the checkout directory
> cd Home

# Log in to DockerHub
> docker login
```

We could just use the git clone command above in a new parent folder - however we will use GUI tools below so we can check history etc.

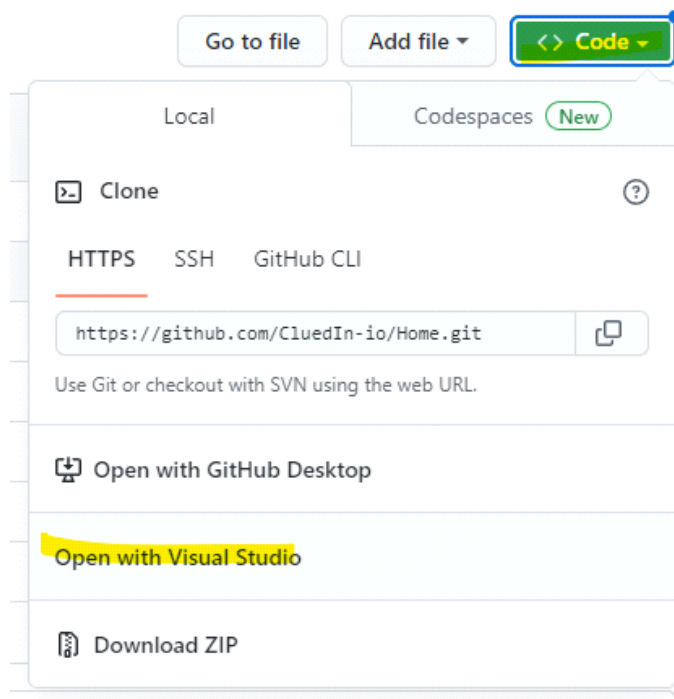
Examine code from Home repo (optional)

Let's look at this repo in the browser to check for versions and other checks

<https://github.com/CluedIn-io/Home.git>

We want the default **master** branch and we have a tag per release

Let's git clone the repo using visual studio 2022 and then do a compare from default master to the latest release tag - result they are the same currently tag v3.5.2 is at the same point as master



Clone a repository

Enter a Git repository URL

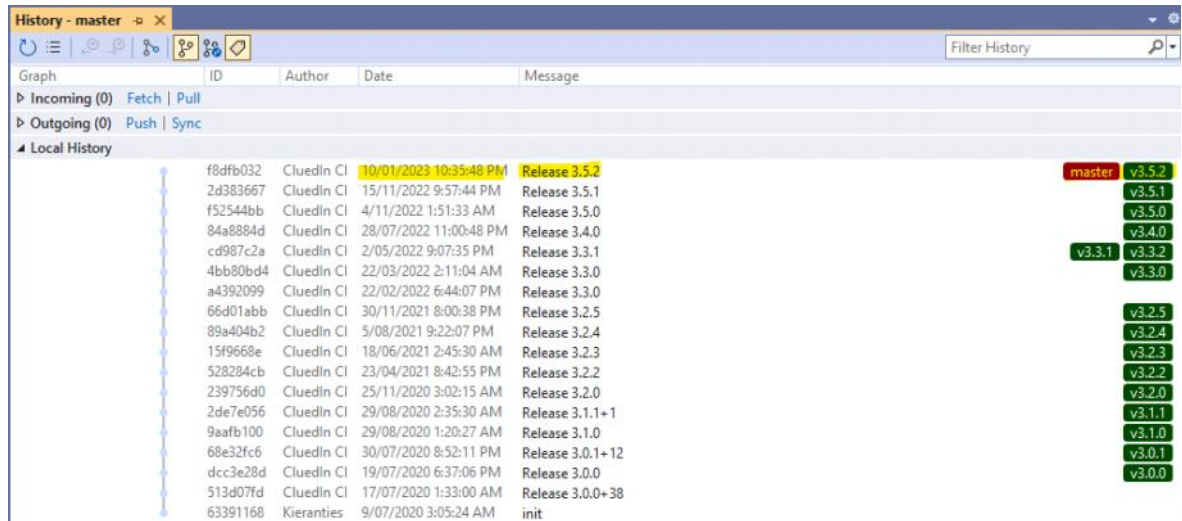
Repository location

<https://github.com/CluedIn-io/Home>

Path

G:\rudi.harris\src\CluedIn-io\Home

...



Setup Home Repo

Git clone in G:\rudi.harris\src\CluedIn-io which will create Home (this was done above in the UI)

Alternatively - if you don't use the UI

change to the target drive and cd to the target parent folder

g:

cd g:\rudi.harris\src

mkdir CluedIn-io

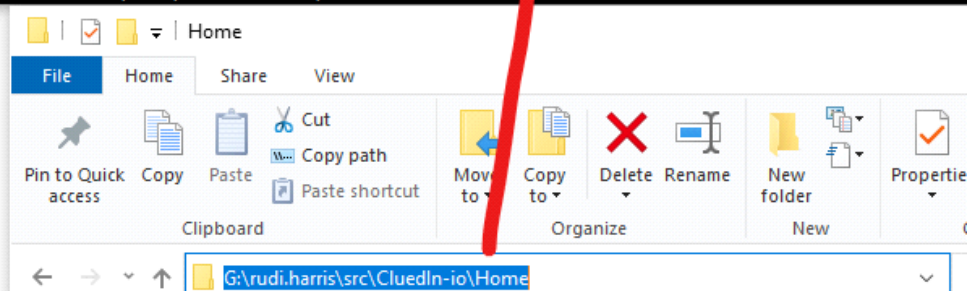
cd cluedIn-io

git clone <https://github.com/CluedIn-io/Home.git>

cd Home

Because I like being lazy, I make short powershell scripts all the time, in this case so when we run it it will take me to the folder we just created

```
PS C:\Users\rudi> Write-Output "cd G:\rudi.harris\src\CluedIn-io\Home" > home.ps1
PS C:\Users\rudi> .\home.ps1
PS G:\rudi.harris\src\CluedIn-io\Home>
```



So running `.\home.ps1` will take us there and if we just run `cd` it will take us back to our home directory so we can run other powershell scripts...

Follow advice in <https://cluedin-io.github.io/Home/>

I have run this before - so I skipped it

Execution policy WINDOWS ONLY

To enable local scripts to run, you will need to modify the PowerShell execution policy. This only needs to be ran once:

```
> Set-ExecutionPolicy RemoteSigned
```

Learning docker login for ACR - includes fails (optional - can skip to next section)

Try docker login - FAIL! Docker desktop not running

```
PS G:\rudi.harris\src\CluedIn-io\Home> docker login
Authenticating with existing credentials...
Login did not succeed, error: error during connect: In the default daemon configuration on Windows, the docker client must be run
with elevated privileges to connect.: Post "http://%2F%2F.%2Fpipe%2Fdocker_engine/v1.24/auth": open //./pipe/docker_engine: The
system cannot find the file specified.
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to
https://hub.docker.com to create one.
Username (rudibob):
```

Hit ctrl+c and then had to **start docker desktop** (since mine is not set to start automatically)

Try again - success

```
PS G:\rudi.harris\src\CluedIn-io\Home> docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
```

Try create new env profile for 3.5.2 - **WRONG!** We need to use a version tag something like 2022.10 or 2022.10.0 or 2022.10.1 or 2022.10.2

Doco is here <https://cluedin-io.github.io/Home/3.5.2/env/>

```
PS > .\cluedin.ps1 env 352 -tag 3.5.2 - Wrong... deadend... see later!
```

```
+-----+
| CluedIn - Manage Environment [docker] |
+-----+
Setting 'CLUEDIN_ANNOTATION_TAG' in '352' environment
Setting 'CLUEDIN_CLEAN_TAG' in '352' environment
Setting 'CLUEDIN_DATASOURCE_TAG' in '352' environment
Setting 'CLUEDIN_DOCUMENTATION_TAG' in '352' environment
Setting 'CLUEDIN_GQL_TAG' in '352' environment
Setting 'CLUEDIN_INSTALLER_TAG' in '352' environment
Setting 'CLUEDIN_LIBPOSTAL_TAG' in '352' environment
Setting 'CLUEDIN_NE04J_TAG' in '352' environment
Setting 'CLUEDIN_OPENREFINE_TAG' in '352' environment
Setting 'CLUEDIN_SERVER_TAG' in '352' environment
Setting 'CLUEDIN_SQLSERVER_TAG' in '352' environment
Setting 'CLUEDIN_SUBMITTER_TAG' in '352' environment
Setting 'CLUEDIN_UI_TAG' in '352' environment
Setting 'CLUEDIN_WEBAPI_TAG' in '352' environment
```

Confirmed new .env file created (as cloned from default) - 352 is the tag in this case

G:\rudi.harris\src\CluedIn-io\Home\env\352				
Name	Date modified	Type	Size	
.env	5/02/2023 1:16 AM	ENV File	5 KB	

Run the pre-flight checks - we had no errors - if we had errors then we would need to fix them before continuing

Doco is here <https://cluedin-io.github.io/Home/3.5.2/check/>

```
PS > .\cluedin.ps1 check 352
```

```
+-----+
| CluedIn - Pre-Flight Check [docker] |
+-----+
```



```

Installed Applications
[1/3] ✓ » PowerShell : 7.3.2 / Core
[2/3] ✓ » Docker : 20.10.22 / linux
[3/3] ✓ » Docker Compose : 2.15.1
Available Ports
[1/30] ✓ » CluedIn UI : 127.0.0.1.nip.io:9080
[2/30] ✓ » CluedIn API : 127.0.0.1.nip.io:9000
[3/30] ✓ » CluedIn Auth : 127.0.0.1.nip.io:9001
[4/30] ✓ » CluedIn Jobs : 127.0.0.1.nip.io:9003
[5/30] ✓ » CluedIn WebHooks : 127.0.0.1.nip.io:9006
[6/30] ✓ » CluedIn Public : 127.0.0.1.nip.io:9007
[7/30] ✓ » CluedIn Web Api : 127.0.0.1.nip.io:9008
[8/30] ✓ » CluedIn Clean : 127.0.0.1.nip.io:9009
[9/30] ✓ » CluedIn Annotation : 127.0.0.1.nip.io:9010
[10/30] ✓ » CluedIn Datasource : 127.0.0.1.nip.io:9011
[11/30] ✓ » CluedIn Submitter : 127.0.0.1.nip.io:9012
[12/30] ✓ » CluedIn Server Prometheus : 127.0.0.1.nip.io:9013
[13/30] ✓ » CluedIn Datasource Prometheus Endpoint : 127.0.0.1.nip.io:9014
[14/30] ✓ » CluedIn Datasource Prometheus File : 127.0.0.1.nip.io:9015
[15/30] ✓ » CluedIn Datasource Prometheus SQL : 127.0.0.1.nip.io:9016
[16/30] ✓ » CluedIn Documentation : 127.0.0.1.nip.io:9021
[17/30] ✓ » CluedIn Gql : 127.0.0.1.nip.io:8888
[18/30] ✓ » Neo4j Http : localhost:7474
[19/30] ✓ » Neo4j Bolt : localhost:7687
[20/30] ✓ » Elasticsearch Data : localhost:9200
[21/30] ✓ » Elasticsearch Http : localhost:9300
[22/30] ✓ » RabbitMQ Data : localhost:5672
[23/30] ✓ » RabbitMQ Http : localhost:15672
[24/30] ✓ » Redis : localhost:6379
[25/30] ✓ » Seq UI : localhost:3200
[26/30] ✓ » Seq Data : localhost:5341
[27/30] ✓ » SMTP UI : localhost:25258
[28/30] ✓ » SMTP Email : localhost:2525
[29/30] ✓ » Sql Server : localhost:1433
[30/30] ✓ » OpenRefine : localhost:3333
Authentication
[1/1] ✓ » Docker Registry : https://index.docker.io/v1/
Environment
[1/2] ✓ » Docker - Memory : 24.23gb available
[2/2] ✓ » Docker - CPU : 4 cpus available

```

I note that the checks are not against the ACR (🔒) - despite release notes

Moved to using CluedIn ACR (Azure Container Registry) instead of DockerHub for container storage.
 Defaults to: `cluedinprod.azurecr.io`. Please ensure to use the credentials you have been sent or
 contact support@cluedin.com to request access.

Check email advice from CluedIn

From: No reply <no-reply@cluedin.com>
Sent: Tuesday, January 24, 2023 6:28 PM
To: Rudi Harris <rudi.harris@mattang.com>
Subject: ACR registry Access for cluedinprod

Hi Rudi Harris

Here are the requested ACR access details:

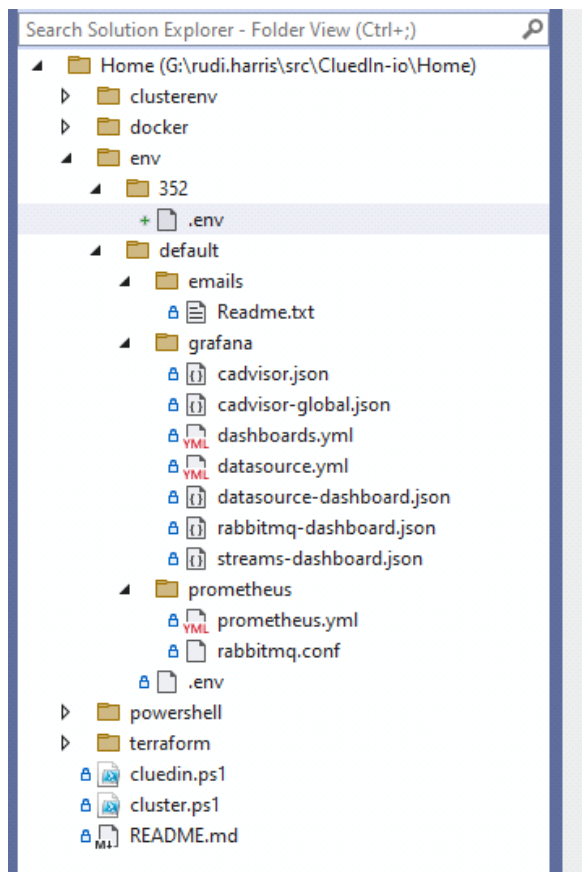
username: rudi-harris-mattang-com
Password: g81ZuLn<redacted>HjSm
registry: cluedinprod

Many thanks
 Team CluedIn

So... we need to figure out where these values go...

Examine Home repo in vs2022

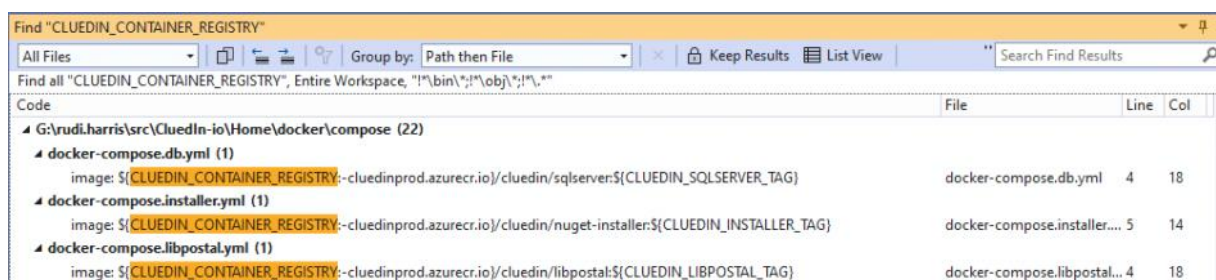
Particularly, let's look at the ACR details and how they are implemented...



```

4 CLUEDIN_ANNOTATION_DBNAME=
5 CLUEDIN_ANNOTATION_FORCETABLECREATION=
6 CLUEDIN_ANNOTATION_HOST=
7 CLUEDIN_ANNOTATION_LOCALPORT=9010
8 CLUEDIN_ANNOTATION_PORT=
9 CLUEDIN_ANNOTATION_TAG=3.5.2
10 CLUEDIN_CLEAN_DBNAME=
11 CLUEDIN_CLEAN_FORCETABLECREATION=
12 CLUEDIN_CLEAN_HOST=
13 CLUEDIN_CLEAN_LOCALPORT=
14 CLUEDIN_CLEAN_PORT=
15 CLUEDIN_CLEAN_TAG=3.5.2
16 CLUEDIN_CONTAINER_REGISTRY=
17 CLUEDIN_DATASOURCE_DBNAME=
18 CLUEDIN_DATASOURCE_FORCETABLECREATION=
19 CLUEDIN_DATASOURCE_HOST=
20 CLUEDIN_DATASOURCE_LOCALPORT=
21 CLUEDIN_DATASOURCE_PORT=
22 CLUEDIN_DATASOURCE_PROMETHEUS_ENDPOINT_METRICS_
23 CLUEDIN_DATASOURCE_PROMETHEUS_FILE_METRICS_LOC
24 CLUEDIN_DATASOURCE_PROMETHEUS_SQL_METRICS_LOCAL
25 CLUEDIN_DATASOURCE_TAG=3.5.2
26 CLUEDIN_DOCUMENTATION_HOST=
27 CLUEDIN_DOCUMENTATION_LOCALPORT=
28 CLUEDIN_DOCUMENTATION_PORT=
29 CLUEDIN_DOCUMENTATION_TAG=3.5.2
30 CLUEDIN_DOMAIN=127.0.0.1.nip.io
31 CLUEDIN_ELASTIC_DATA_LOCALPORT=
32 CLUEDIN_ELASTIC_HOST=
33 CLUEDIN_ELASTIC_HTTP_LOCALPORT=
34 CLUEDIN_EMAIL_DIR=
35 CLUEDIN_EMAIL_HOST=smtp4dev

```



So, the default matches the prod ACR

How about the username and password? Let's look at the docker login help

```

PS G:\rudi.harris\src\CluedIn-io\Home> docker login --help
Log in to a Docker registry or cloud backend.
If no registry server is specified, the default is defined by the daemon.

Usage:
  docker login [OPTIONS] [SERVER] [flags]
  docker login [command]

Available Commands:
  azure      Log in to azure

Flags:
  -h, --help            Help for login
  -p, --password string  password
  --password-stdin       Take the password from stdin
  -u, --username string  username

Use "docker login [command] --help" for more information about a command.

```

Docker login using username and have a prompt for password - FAIL! This is wrong

```

PS G:\rudi.harris\src\CluedIn-io\Home> docker login -u rudi-harris-mattang-com
Password:

```

Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password

Try just doing the pull - this will fail - but we learn best from failures

Doco is here <https://cluedin-io.github.io/Home/3.5.2/pull/>

```

PS G:\rudi.harris\src\CluedIn-io\Home> .\Cluedin.ps1 pull 352

```

```

+-----+
| CluedIn - Environment => pull [docker] |
+-----+
[+] Running 1/22
- server-extra Skipped - Image is already being pulled by server      0.0s
- datasource Error                                                    3.1s
- grafana Error                                                        3.1s
- elasticsearch Error                                                  3.1s
- cadvisor Error                                                       3.1s
- annotation Error                                                     3.1s
- gql Error                                                            3.1s
- documentation Error                                                  3.1s
- clean Error                                                          3.1s
- server Error                                                         3.1s
- seq Error                                                            3.1s
- installer Error                                                      3.1s
- smtp4dev Error                                                       3.1s
- webapi Error                                                         3.1s
- neo4j Error                                                           3.1s
- sqlserver Error                                                      3.1s
- submitter Error                                                      3.1s
- ui Error                                                             3.1s
- openrefine Error                                                     3.1s
- rabbitmq Error                                                       3.1s
- redis Error                                                          3.1s
- prometheus Error                                                     3.1s
Error response from daemon: Head "https://cluedinprod.azurecr.io/v2/datalust/seq/manifests/2022.i": unauthorized: authentication
required, visit https://aka.ms/acr/authorization for more information.

```

Follow

<https://aka.ms/acr/authorization>

Then

<https://learn.microsoft.com/en-us/azure/container-registry/container-registry-authentication?tabs=azure-cli>

Use az login and az acr login to use ACR instead of docker hub

See <https://learn.microsoft.com/en-us/azure/container-registry/container-registry-authentication?tabs=azure-cli>

Try using az login and az acr login - success!

```

PS G:\rudi.harris\src\CluedIn-io\Home> az login

PS G:\rudi.harris\src\CluedIn-io\Home> az acr login --name cluedinprod
Unable to get AAD authorization tokens with message: 2023-02-04 15:54:00.259547 An error occurred: CONNECTIVITY_REFRESH_TOKEN_ERROR
Access to registry 'cluedinprod.azurecr.io' was denied. Response code: 401. Please try running 'az login' again to refresh
permissions.
Unable to get admin user credentials with message: The resource with name 'cluedinprod' and type
'Microsoft.ContainerRegistry/registries' could not be found in subscription 'Pay-As-You-Go (b8dd5697-ac84-4101-a1e3-bd190daf0f3f)'.
Username: rudi-harris-mattang-com
Password:
Login Succeeded

```

How to find the right version to use - 3.5.2 is wrong! (optional - can skip)

Retry pull - we have the wrong tag so this will now fail with the "not found" error - WRONG!

```

PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 pull 352
+-----+
| CluedIn - Environment => pull [docker] |
+-----+
[+] Running 1/22
- server-extra Skipped - Image is already being pulled by server      0.0s
- webapi Error                                                          6.5s
- neo4j Error                                                           6.5s
- annotation Error                                                     6.5s
- cadvisor Pulling                                                     6.5s
- seq Error                                                            6.5s
- clean Error                                                          6.5s
- datasource Error                                                     6.5s
- openrefine Error                                                     6.5s
- elasticsearch Error                                                  6.5s
- documentation Error                                                  6.5s
- gql Error                                                            6.5s
- prometheus Error                                                     6.5s
- grafana Error                                                        6.5s
- rabbitmq Error                                                       6.5s
- installer Error                                                      6.5s
- redis Error                                                          6.5s
- sqlserver Error                                                      6.5s
- submitter Error                                                      6.5s
- server Error                                                         6.5s
- smtp4dev Error                                                       6.5s
- ui Error                                                             6.5s
Error response from daemon: manifest for cluedinprod.azurecr.io/cluedin/cluedin-micro-documentation:3.5.2 not found: manifest
unknown: manifest tagged by "3.5.2" is not found

```

Try

```

PS G:\rudi.harris\src\CluedIn-io\Home> docker pull cluedinprod.azurecr.io/cluedin/sqlserver:3.5.2
Error response from daemon: manifest for cluedinprod.azurecr.io/cluedin/sqlserver:3.5.2 not found: manifest unknown: manifest tagged

```

by "3.5.2" is not found

Check


<https://documentation.cluedin.net/release-notes>

Then

<https://cluedin-io.github.io/Releases/>

Then

<https://cluedin-io.github.io/Releases/2022.10/>

 cluedin-io.github.io/Releases/2022.10/

CluedIn Releases - 2022.10

2022.10.00 is the latest release of CluedIn!

Release Notes

- [Latest](#)
- [2022.10.00](#)
- [2022.10.01](#)
- [2022.10.02](#)

Getting Started

To get started with the latest release, we recommend using the [Home](#) repository.

```
$ git clone https://github.com/CluedIn-io/Home.git
$ cd Home
$ ./cluedin.ps1 env 2022.10 -tag 2022.10
$ ./cluedin.ps1 up 2022.10 -pull
```

Note: these examples are incorrect.. You need to ensure you do not have dots in the env label
e.g. `./cluedin.ps1 env 202210 -tag 2022.10` instead

See <https://cluedin-io.github.io/Releases/2022.10/2022.10.02>

UI

Docker Image	Tags
cluedin/ui	2022.10.02 , 2022.10 , 3.5 , 3.5.2 , 3.5.2_50356

Setup Cluster for 2022.10.02 (which is basically 3.5.2)

Note: env name has to have no dots!

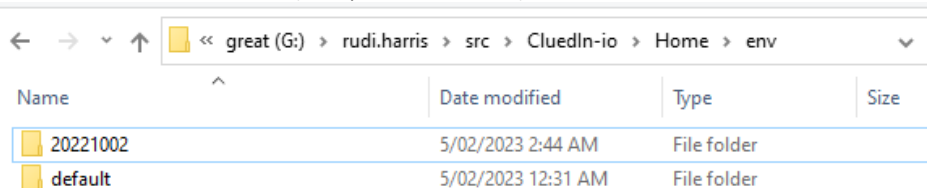
Doco is here <https://cluedin-io.github.io/Home/3.5.2/env/>

```
PS > .\cluedin.ps1 env 20221002 -tag 2022.10.02
```

```
+-----+
| CluedIn - Manage Environment [docker] |
+-----+
Setting 'CLUEDIN_ANNOTATION_TAG' in '20221002' environment
Setting 'CLUEDIN_CLEAN_TAG' in '20221002' environment
```

```
Setting 'CLUEDIN_DATASOURCE_TAG' in '20221002' environment
Setting 'CLUEDIN_DOCUMENTATION_TAG' in '20221002' environment
Setting 'CLUEDIN_GQL_TAG' in '20221002' environment
Setting 'CLUEDIN_INSTALLER_TAG' in '20221002' environment
Setting 'CLUEDIN_LIBPOSTAL_TAG' in '20221002' environment
Setting 'CLUEDIN_NEO4J_TAG' in '20221002' environment
Setting 'CLUEDIN_OPENREFINE_TAG' in '20221002' environment
Setting 'CLUEDIN_SERVER_TAG' in '20221002' environment
Setting 'CLUEDIN_SQLSERVER_TAG' in '20221002' environment
Setting 'CLUEDIN_SUBMITTER_TAG' in '20221002' environment
Setting 'CLUEDIN_UI_TAG' in '20221002' environment
Setting 'CLUEDIN_WEBAPI_TAG' in '20221002' environment
```

Here is where the .env file is created (as copied from default)



Name	Date modified	Type	Size
20221002	5/02/2023 2:44 AM	File folder	
default	5/02/2023 12:31 AM	File folder	

Run the pre-flight checks - we had no errors - if we had errors then we would need to fix them before continuing

Doco is here <https://cluedin-io.github.io/Home/3.5.2/check/>

```
PS > .\cluedin.ps1 check 20221002
+-----+
| CluedIn - Pre-Flight Check [docker] |
+-----+
Installed Applications
[1/3] ✓ » PowerShell : 7.3.2 / Core
[2/3] ✓ » Docker : 20.10.22 / linux
[3/3] ✓ » Docker Compose : 2.15.1
Available Ports
[1/30] ✓ » CluedIn UI : 127.0.0.1.nip.io:9080
[2/30] ✓ » CluedIn API : 127.0.0.1.nip.io:9000
[3/30] ✓ » CluedIn Auth : 127.0.0.1.nip.io:9001
[4/30] ✓ » CluedIn Jobs : 127.0.0.1.nip.io:9003
[5/30] ✓ » CluedIn WebHooks : 127.0.0.1.nip.io:9006
[6/30] ✓ » CluedIn Public : 127.0.0.1.nip.io:9007
[7/30] ✓ » CluedIn Web Api : 127.0.0.1.nip.io:9008
[8/30] ✓ » CluedIn Clean : 127.0.0.1.nip.io:9009
[9/30] ✓ » CluedIn Annotation : 127.0.0.1.nip.io:9010
[10/30] ✓ » CluedIn Datasource : 127.0.0.1.nip.io:9011
[11/30] ✓ » CluedIn Submitter : 127.0.0.1.nip.io:9012
[12/30] ✓ » CluedIn Server Prometheus : 127.0.0.1.nip.io:9013
[13/30] ✓ » CluedIn Datasource Prometheus Endpoint : 127.0.0.1.nip.io:9014
[14/30] ✓ » CluedIn Datasource Prometheus File : 127.0.0.1.nip.io:9015
[15/30] ✓ » CluedIn Datasource Prometheus SQL : 127.0.0.1.nip.io:9016
[16/30] ✓ » CluedIn Documentation : 127.0.0.1.nip.io:9021
[17/30] ✓ » CluedIn Gql : 127.0.0.1.nip.io:8888
[18/30] ✓ » Neo4j Http : localhost:7474
[19/30] ✓ » Neo4j Bolt : localhost:7687
[20/30] ✓ » Elasticsearch Data : localhost:9200
[21/30] ✓ » Elasticsearch Http : localhost:9300
[22/30] ✓ » RabbitMQ Data : localhost:5672
[23/30] ✓ » RabbitMQ Http : localhost:15672
[24/30] ✓ » Redis : localhost:6379
[25/30] ✓ » Seq UI : localhost:3200
[26/30] ✓ » Seq Data : localhost:5341
[27/30] ✓ » SMTP UI : localhost:25258
[28/30] ✓ » SMTP Email : localhost:2525
[29/30] ✓ » Sql Server : localhost:1433
[30/30] ✓ » OpenRefine : localhost:3333
Authentication
[1/1] ✓ » Docker Registry : https://index.docker.io/v1/
Environment
[1/2] ✓ » Docker - Memory : 24.23gb available
[2/2] ✓ » Docker - CPU : 4 cpus available
```

Doco is here <https://cluedin-io.github.io/Home/3.5.2/pull/>

Note: pull is an optional step since "up" will do this for us, but it is useful for troubleshooting to do the pull by itself

```
PS > .\cluedin.ps1 pull 20221002
<pulling down images... this could take a while... say 30 minutes depending on your network etc>
```

- seq Pulled	1691.0s
- d7bfe07ed847 Pull complete	1541.7s
- 0669d5d3bf37 Pull complete	1544.7s
- 0d0dca445d0f Pull complete	1545.2s
- 90c033303036 Pull complete	1545.8s
- 30103d7568c2 Pull complete	1546.5s
- 10ebb6768757 Pull complete	1666.6s
- 99ce9053ef7d Pull complete	1678.2s

1678 / 60 = 27.9667 minutes

Run again to confirm all images pulled - success!

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 pull 20221002
+-----+
| CluedIn - Environment => pull [docker] |
+-----+
[+] Running 22/22
- annotation Pulled 10.7s
- grafana Pulled 9.8s
- server Pulled 10.7s
- server-extra Skipped - Image is already being pulled by server 0.0s
- installer Pulled 10.9s
- webapi Pulled 8.8s
- neo4j Pulled 9.9s
- clean Pulled 10.5s
- openrefine Pulled 10.1s
- documentation Pulled 9.8s
- datasource Pulled 10.4s
- elasticsearch Pulled 10.5s
- prometheus Pulled 10.0s
- gql Pulled 11.1s
- redis Pulled 10.3s
- seq Pulled 11.3s
- smtp4dev Pulled 10.9s
- submitter Pulled 10.8s
- sqlserver Pulled 10.1s
- rabbitmq Pulled 10.6s
- ui Pulled 11.0s
- cadvisor Pulled 10.3s
```

Bring up the cluster

This is going to be a bumpy ride! Since the containers do not come up in dependency order (like they do in kubernetes) we will have to troubleshoot until all containers are up.

Doco is here <https://cluedin-io.github.io/Home/3.5.2/up/>

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 up 20221002
+-----+
| CluedIn - Environment => up [docker] |
+-----+
[+] Running 18/21
- Network cluedin_20221002_37b57368_default Created 0.3s
- Container cluedin_20221002_37b57368-elasticsearch-1 S... 13.2s
- Container cluedin_20221002_37b57368-prometheus-1 Star... 12.9s
- Container cluedin_20221002_37b57368-grafana-1 Started 32.7s
- Container cluedin_20221002_37b57368-rabbitmq-1 Starte... 34.6s
- Container cluedin_20221002_37b57368-neo4j-1 Started 16.6s
- Container cluedin_20221002_37b57368-seq-1 Started 40.4s
- Container cluedin_20221002_37b57368-documentation-1 S... 17.3s
- Container cluedin_20221002_37b57368-smtp4dev-1 Starte... 13.6s
- Container cluedin_20221002_37b57368-openrefine-1 Star... 13.3s
- Container cluedin_20221002_37b57368-redis-1 Started 15.1s
- Container cluedin_20221002_37b57368-sqlserver-1 Start... 13.0s
- Container cluedin_20221002_37b57368-datasource-1 Star... 41.0s
- Container cluedin_20221002_37b57368-cadvisor-1 Starte... 39.9s
- Container cluedin_20221002_37b57368-webapi-1 Starting 41.0s
- Container cluedin_20221002_37b57368-server-1 Starting 40.8s
- Container cluedin_20221002_37b57368-annotation-1 Crea... 1.4s
- Container cluedin_20221002_37b57368-ui-1 Created 1.3s
- Container cluedin_20221002_37b57368-clean-1 Created 1.4s
- Container cluedin_20221002_37b57368-submitter-1 Creat... 1.5s
- Container cluedin_20221002_37b57368-gql-1 Created 1.1s
```

We can monitor the server container -s uggest run git bash for the better formatting and access to unix commands if required

Show all server logs from the beginning and follow - it will have a transient error in this case

```
rudi@maxima MINGW64 ~
$ docker logs -f cluedin_20221002_37b57368-server-1

Register CA Certificate - [SKIPPED - No File]
Enable COREDUMP mode - [SKIPPED]
ls: cannot access '../components/*/*': No such file or directory

Installing component extensions - [COMPLETE]

Booting CluedIn Host ..
[#001 02:46:31 INF] -----
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
-----
--=[ Be In The Know ]==
--=[ CluedIn.Server.Host ]==
[#001 02:46:31 INF]
[#001 02:46:31 INF]
[#001 02:46:31 INF]
```



```

[#001 02:46:31 INF] CluedIn.Server.Host is starting...
[#001 02:46:31 INF]
[#001 02:46:31 INF] Operating System:          Unix 5.10.102.1
[#001 02:46:31 INF] Architecture:              x64
[#001 02:46:31 INF] Processors:                 4
[#001 02:46:31 INF] Working Set:                60485632
[#001 02:46:31 INF] Runtime Version:           v3.1.32
[#001 02:46:31 INF] Image Runtime Version:      v4.0.30319
[#001 02:46:31 INF] Host Name:                  e4ecc17eef15
[#001 02:46:31 INF] Ip Address:                 172.24.0.16
[#001 02:46:31 INF] User Account:               root
[#001 02:46:31 INF] IsFullyTrusted:             True
[#001 02:46:31 INF] Application Version:        3.5.2
[#001 02:46:31 INF] Thread Pool Min Threads:    20
[#001 02:46:31 INF] Thread Pool Min Iocp Threads: 20
[#001 02:46:31 INF] Thread Pool Max Threads:    32767
[#001 02:46:31 INF] Thread Pool Max Iocp Threads: 1000
[#001 02:46:31 INF] GC IsServerGC:              True
[#001 02:46:31 INF] GC LatencyMode:             Interactive
[#001 02:46:31 INF]
[#001 02:46:32 INF] State transition from NotStarted to Running
[#007 02:46:43 INF] State transition from Running to ExitedSuccessfully
[#001 02:46:44 INF] State transition from NotStarted to Running
[#012 02:46:49 INF] State transition from Running to ExitedSuccessfully
[#001 02:46:49 FTL] Unhandled Exception: One or more errors occurred. (Unexpected end when deserializing array. Path
'Components[2].Interfaces[0]', line 1, position 5237.)
System.AggregateException: One or more errors occurred. (Unexpected end when deserializing array. Path
'Components[2].Interfaces[0]', line 1, position 5237.)
--> Newtonsoft.Json.JsonSerializationException: Unexpected end when deserializing array. Path 'Components[2].Interfaces[0]', line
1, position 5237.
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.ThrowUnexpectedEndException(JsonReader reader, JsonContract
contract, Object currentObject, String message)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateList(IList list, JsonReader reader, JsonArrayContract
contract, JsonProperty containerProperty, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateList(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, Object existingValue, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.SetPropertyValue(JsonProperty property, JsonConverter
propertyConverter, JsonContainerContract containerContract, JsonProperty containerProperty, JsonReader reader, Object target)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateObject(Object newObject, JsonReader reader,
JsonObjectContract contract, JsonProperty member, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateObject(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object existingValue)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateList(IList list, JsonReader reader, JsonArrayContract
contract, JsonProperty containerProperty, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateList(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, Object existingValue, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.SetPropertyValue(JsonProperty property, JsonConverter
propertyConverter, JsonContainerContract containerContract, JsonProperty containerProperty, JsonReader reader, Object target)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateObject(Object newObject, JsonReader reader,
JsonObjectContract contract, JsonProperty member, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateObject(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object existingValue)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.Deserialize(JsonReader reader, Type objectType, Boolean
checkAdditionalContent)
    at Newtonsoft.Json.JsonSerializer.DeserializeInternal(JsonReader reader, Type objectType)
    at Newtonsoft.Json.JsonSerializer.Deserialize(JsonReader reader, Type objectType)
    at Newtonsoft.Json.JsonConvert.DeserializeObject(String value, Type type, JsonSerializerSettings settings)
    at Newtonsoft.Json.JsonConvert.DeserializeObject[T](String value, JsonSerializerSettings settings)
    at Newtonsoft.Json.JsonConvert.DeserializeObject[T](String value)
    at ComponentHost.Hosting.Infrastructure.Resolving.NetCoreComponentResolver.RunProcess(ProcessSupervisor childProcess)
    --- End of inner exception stack trace ---
    at System.Threading.Tasks.Task`1.GetResultCore(Boolean waitCompletionNotification)
    at System.Threading.Tasks.Task`1.get_Result()
    at ComponentHost.Hosting.Infrastructure.Resolving.NetCoreComponentResolver.GetComponents(IEnumerable`1 assemblyFileNames)
    at ComponentHost.Hosting.Infrastructure.FileSystemComponentStore.LoadComponents()
    at ComponentHost.Hosting.Infrastructure.ComponentHost.LoadComponents()
    at ComponentHost.Hosting.Infrastructure.ComponentHost.Initialize()
    at CluedIn.Server.Host.ComponentHostService.StartAsync(CancellationToken cancellationToken) in D:\a\1\s\Code\Server.Host
\ComponentHostService.cs:line 41
    at Microsoft.Extensions.Hosting.Internal.Host.StartAsync(CancellationToken cancellationToken)
    at Microsoft.Extensions.Hosting.HostingAbstractionsHostExtensions.RunAsync(IHost host, CancellationToken token)
    at Microsoft.Extensions.Hosting.HostingAbstractionsHostExtensions.RunAsync(IHost host, CancellationToken token)
    at CluedIn.Server.Host.Program.Main(String[] args) in D:\a\1\s\Code\Server.Host\Program.cs:line 24
    at CluedIn.Server.Host.Program.<Main>(String[] args)
Unhandled exception. System.AggregateException: One or more errors occurred. (Unexpected end when deserializing array. Path
'Components[2].Interfaces[0]', line 1, position 5237.)
--> Newtonsoft.Json.JsonSerializationException: Unexpected end when deserializing array. Path 'Components[2].Interfaces[0]', line
1, position 5237.
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.ThrowUnexpectedEndException(JsonReader reader, JsonContract
contract, Object currentObject, String message)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateList(IList list, JsonReader reader, JsonArrayContract
contract, JsonProperty containerProperty, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateList(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, Object existingValue, String id)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
    at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.SetPropertyValue(JsonProperty property, JsonConverter
propertyConverter, JsonContainerContract containerContract, JsonProperty containerProperty, JsonReader reader, Object target)

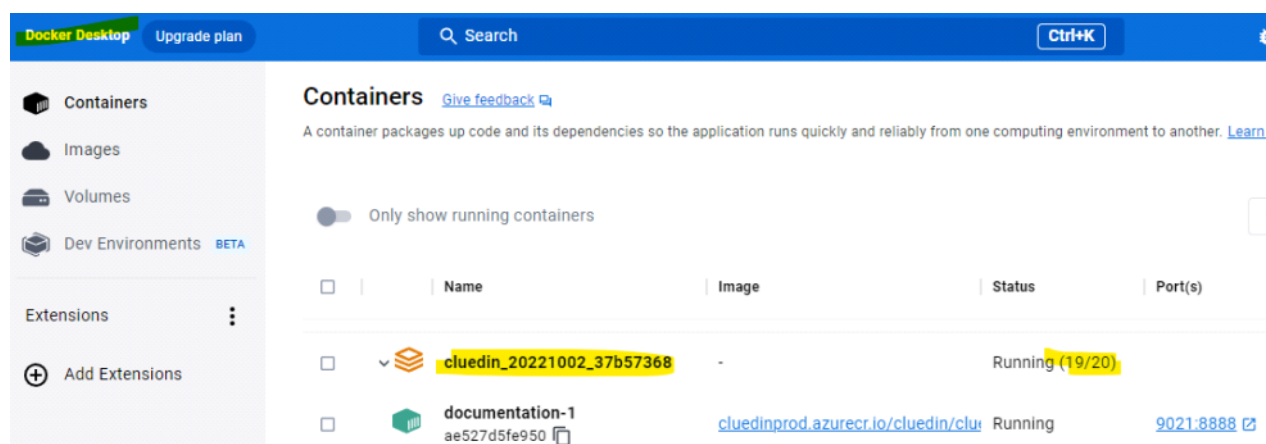
```

```

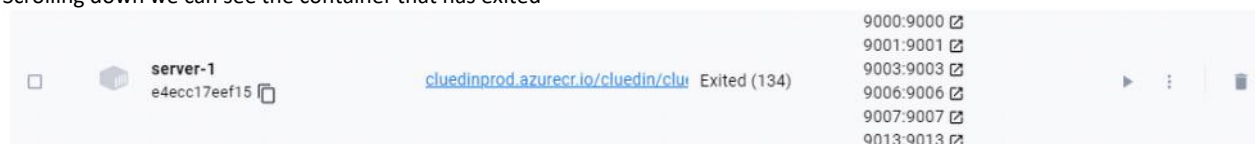
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateObject(Object newObject, JsonReader reader,
JsonObjectContract contract, JsonProperty member, String id)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateObject(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object existingValue)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateList(IList list, JsonReader reader, JsonArrayContract
contract, JsonProperty containerProperty, String id)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateList(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, Object existingValue, String id)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.SetPropertyValue(JsonProperty property, JsonConverter
propertyConverter, JsonContainerContract containerContract, JsonProperty containerProperty, JsonReader reader, Object target)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateObject(Object newObject, JsonReader reader,
JsonObjectContract contract, JsonProperty member, String id)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateObject(JsonReader reader, Type objectType, JsonContract
contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object existingValue)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType,
JsonContract contract, JsonProperty member, JsonContainerContract containerContract, JsonProperty containerMember, Object
existingValue)
        at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.Deserialize(JsonReader reader, Type objectType, Boolean
checkAdditionalContent)
        at Newtonsoft.Json.JsonSerializer.DeserializeInternal(JsonReader reader, Type objectType)
        at Newtonsoft.Json.JsonSerializer.Deserialize(JsonReader reader, Type objectType)
        at Newtonsoft.Json.JsonConvert.DeserializeObject(String value, Type type, JsonSerializerSettings settings)
        at Newtonsoft.Json.JsonConvert.DeserializeObject[T](String value, JsonSerializerSettings settings)
        at Newtonsoft.Json.JsonConvert.DeserializeObject[T](String value)
        at ComponentHost.Hosting.Infrastructure.Resolving.NetCoreComponentResolver.RunProcess(ProcessSupervisor childProcess)
        --- End of inner exception stack trace ---
        at System.Threading.Tasks.Task`1.GetResultCore(Boolean waitCompletionNotification)
        at System.Threading.Tasks.Task`1.get_Result()
        at ComponentHost.Hosting.Infrastructure.Resolving.NetCoreComponentResolver.GetComponents(IEnumerable`1 assemblyFileNames)
        at ComponentHost.Hosting.Infrastructure.FileSystemComponentStore.LoadComponents()
        at ComponentHost.Hosting.Infrastructure.ComponentHost.LoadComponents()
        at ComponentHost.Hosting.Infrastructure.ComponentHost.Initialize()
        at CluedIn.Server.Host.ComponentHostService.StartAsync(CancellationToken cancellationToken) in D:\a\1\s\Code\Server.Host
\ComponentHostService.cs:line 41
        at Microsoft.Extensions.Hosting.Internal.Host.StartAsync(CancellationToken cancellationToken)
        at Microsoft.Extensions.Hosting.HostingAbstractionsHostExtensions.RunAsync(IHost host, CancellationToken token)
        at Microsoft.Extensions.Hosting.HostingAbstractionsHostExtensions.RunAsync(IHost host, CancellationToken token)
        at CluedIn.Server.Host.Program.Main(String[] args) in D:\a\1\s\Code\Server.Host\Program.cs:line 24
        at CluedIn.Server.Host.Program.<Main>(String[] args)
Aborted

```

Looking at Docker Desktop we can see 1 of the 20 containers are not running



Scrolling down we can see the container that has exited



Clicking on it will can inspect the logs via the UI


```

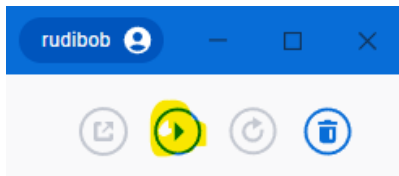
cluedin_20221002_37b57368-server-1 cluedinprod.azurecr.io/cluedin/cluedin-server:2022.10.02
EXITED (134)

Logs Inspect Terminal Stats

2023-02-05 12:46:31 [#001 02:46:31 INF] GC IsServerGC: True
2023-02-05 12:46:31 [#001 02:46:31 INF] GC LatencyMode: Interactive
2023-02-05 12:46:31 [#001 02:46:31 INF]
2023-02-05 12:46:32 [#001 02:46:32 INF] State transition from NotStarted to Running
2023-02-05 12:46:43 [#007 02:46:43 INF] State transition from Running to ExitedSuccessfully
2023-02-05 12:46:44 [#001 02:46:44 INF] State transition from NotStarted to Running
2023-02-05 12:46:49 [#012 02:46:49 INF] State transition from Running to ExitedSuccessfully
2023-02-05 12:46:49 [#001 02:46:49 INF] Unhandled Exception: One or more errors occurred. (Unexpected end when deserializing array. Path 'Components[2].Interfaces[0]', line 1, position 5237.)
2023-02-05 12:46:49 System.AggregateException: One or more errors occurred. (Unexpected end when deserializing array. Path 'Components[2].Interfaces[0]', line 1, position 5237.)
2023-02-05 12:46:49 ---> Newtonsoft.Json.JsonSerializationException: Unexpected end when deserializing array. Path 'Components[2].Interfaces[0]', line 1, position 5237.
2023-02-05 12:46:49 at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.ThrowUnexpectedEndException(JsonReader reader, JsonContract contract, Object currentObject, String message)
2023-02-05 12:46:49 at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.PopulateList(IList list, JsonReader reader, JsonArrayContract contract, JsonProperty containerProperty, String id)
2023-02-05 12:46:49 at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateList(JsonReader reader, Type objectType, JsonContract contract, JsonProperty property member, Object existingValue, String id)
2023-02-05 12:46:49 at Newtonsoft.Json.Serialization.JsonSerializerInternalReader.CreateValueInternal(JsonReader reader, Type objectType, JsonContract contract,

```

We could reissue the cluedin up command from before and watch it here, or click on the play button on the right side group of icons



Rerun the docker logs command in git bash and watch (it displays in color which is useful)

```

cluedin_20221002_37b57368-server-1 cluedinprod.azurecr.io/cluedin/cluedin-server:2022.10.02
RUNNING

Logs Inspect Terminal Stats

2023-02-05 13:02:58 [#014 03:02:58 INF] Initializing Tasks from task store
2023-02-05 13:02:58 [#014 03:02:58 INF] Tasks are enabled: Creating subscriptions
2023-02-05 13:02:58 [#014 03:02:58 INF] [MessageBusWatchdog] Starting Watchdog for TaskQueueManager
2023-02-05 13:02:58 [#004 03:02:58]
2023-02-05 13:02:58 [#004 03:02:58] MINGW64/c:/Users/rudi
2023-02-05 13:02:58 [#035 03:02:59 INF] Initializing Clean
2023-02-05 13:02:58 [#035 03:02:59 INF] Initializing Glossary
2023-02-05 13:02:58 [#035 03:02:59 INF] CluedIn DataShard [Blob] => [AVAILABLE]
2023-02-05 13:02:58 [#035 03:02:59 INF] CluedIn DataShard [Configuration] => [AVAILABLE]
2023-02-05 13:02:58 [#035 03:02:59 INF] Initializing DataSources from MicroService
2023-02-05 13:02:58 [#035 03:02:59 INF] Initializing Enricher Project
2023-02-05 13:02:58 [#012 03:02:59 INF] CluedIn DataShard [Data] => [AVAILABLE]
2023-02-05 13:02:58 [#012 03:02:59 INF] CluedIn DataShard [Search] => [AVAILABLE]
2023-02-05 13:02:58 [#005 03:02:59 INF] CluedIn DataShard [Graph] => [AVAILABLE]
2023-02-05 13:02:58 [#035 03:02:59 INF] CluedIn DataShard [Metrics] => [AVAILABLE]
2023-02-05 13:02:58 [#012 03:02:59 INF] CluedIn System => [GREEN] => All DataShards Available.
2023-02-05 13:03:00 [#012 03:03:00 INF] Agent e4ecc17eef15 - Shared registered
2023-02-05 13:03:00 [#005 03:03:01 INF] [MessageBusWatchdog] Starting Watchdog for AgentControllerComponent
2023-02-05 13:03:00 [#012 03:03:01 INF] [MessageBusWatchdog] Starting Watchdog for DistributedJobs - Control queue
2023-02-05 13:03:00 [#012 03:03:01 INF] Listening to distributed job management queue
2023-02-05 13:03:00 [#005 03:03:01 INF] [DistributedJobComponent]: Started processing subsystems
2023-02-05 13:03:01 [#005 03:03:01 INF] Initializing vocabulary provider ids
2023-02-05 13:03:01 [#035 03:03:01 INF] Initializing vocabularies using 1 installers
2023-02-05 13:03:01 [#035 03:03:02 INF] Initialized 43 vocabularies with total 857 keys
2023-02-05 13:03:01 [#035 03:03:02 INF] Loaded 0 external search providers
2023-02-05 13:03:01 [#035 03:03:02 WRN] Unable to bind to http://localhost:5000 on the IPv6 loopback interface: 'Cannot assign requested address'.
2023-02-05 13:03:01 [#035 03:03:02 INF] Initializing Streams Component
2023-02-05 13:03:02 [#035 03:03:02 INF] Creating stream ingestion exchange StreamQueueManager-ingestion
2023-02-05 13:03:02 [#035 03:03:02 INF] Streams Processing is enabled: Registering processing/connector exchanges
2023-02-05 13:03:02 [#035 03:03:02 INF] Creating stream processing exchange StreamQueueManager-processing
2023-02-05 13:03:02 [#035 03:03:02 INF] Creating stream connector exchange StreamQueueManager-connector
2023-02-05 13:03:02 [#035 03:03:02 INF] Streams Processing is enabled: Creating subscriptions
2023-02-05 13:03:02 [#035 03:03:02 INF] [MessageBusWatchdog] Starting Watchdog for StreamQueueManager
2023-02-05 13:03:02 [#035 03:03:02 INF]
2023-02-05 13:03:02 [#035 03:03:02 INF] Creating stream connector exchange StreamQueueManager-connector
2023-02-05 13:03:02 [#035 03:03:02 INF] Streams Processing is enabled: Creating subscriptions
2023-02-05 13:03:02 [#035 03:03:02 INF] [MessageBusWatchdog] Starting Watchdog for StreamQueueManager

```

From the logs we can see all GREEN/AVAILABLE and that the logs have settled into a steady state

```

[#012 03:02:59 INF] CluedIn DataShard [Blob] => [AVAILABLE]
[#012 03:02:59 INF] CluedIn DataShard [Configuration] => [AVAILABLE]
[#005 03:02:59 INF] Initializing DataSources from MicroService
[#035 03:02:59 INF] Initializing Enricher Project
[#012 03:02:59 INF] CluedIn DataShard [Data] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Search] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Graph] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Metrics] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn System => [GREEN] => All DataShards Available.
...
[#004 03:03:16 INF] Subscribed to messages
[#004 03:03:16 INF] [MessageBusWatchdog] Starting Watchdog for ProcessingHub
[#004 03:03:16 INF] Provider: Database Data Source, ID: 88c2252a-992c-48dc-b4a7-85915b42da08 is registered
[#004 03:03:16 INF] Provider: Endpoint Data Source, ID: 742f9d66-8ef2-4544-8a90-41531a26cc59 is registered
[#004 03:03:16 INF] Provider: File Data Source, ID: f355c243-faec-43ba-8424-d97b60d3a438 is registered
[#004 03:03:16 INF] Provider: CustomHooks, ID: f084eae7-6df4-4ff6-baed-082419bcc328 is registered
[#034 03:03:19 INF] Agent e4ecc17eef15 - 02712a2b-b36a-4f11-95ba-d1850a311419 registered
[#034 03:03:19 INF] HTTP POST /api/v1/agent/repository/register responded 200 in 1208.4384 ms

```

We can do that with grep in git bash

```

rudibob@maxima MINGW64 ~
$ docker logs --since 5m cluedin_20221002_37b57368-server-1 | grep -i datashard

```

```
ls: cannot access './components/*/*': No such file or directory
[#012 03:02:59 INF] CluedIn DataShard [Blob] => [AVAILABLE]
[#012 03:02:59 INF] CluedIn DataShard [Configuration] => [AVAILABLE]
[#012 03:02:59 INF] CluedIn DataShard [Data] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Search] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Graph] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Metrics] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn System => [GREEN] => All DataShards Available.
```

Or with FindStr in powershell

```
PS G:\rudi.harris\src\CluedIn-io\Home> docker logs cluedin_20221002_37b57368-server-1 --since 5m | FindStr -i datashard
[#012 03:02:59 INF] CluedIn DataShard [Blob] => [AVAILABLE]
[#012 03:02:59 INF] CluedIn DataShard [Configuration] => [AVAILABLE]
[#012 03:02:59 INF] CluedIn DataShard [Data] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Search] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Graph] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn DataShard [Metrics] => [AVAILABLE]
[#012 03:03:00 INF] CluedIn System => [GREEN] => All DataShards Available.
```

Note the use of --since 5m is to limit the log output to the last 5 minutes and we omitted the -f follow flag.

Run the CluedIn status command to check everything is up and working

Here we can see the annotation service is down

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 status 20221002
```

```
+-----+
| CluedIn - Status Check [docker] |
+-----+
Docker containers status
```

NAME	SERVICE	CREATED	STATUS	IMAGE	PORTS	COMMAND
cluedin_20221002_37b57368-annotation-1	annotation	24 minutes ago	Exited (0) 18 minutes ago	cluedinprod.azurecr.io/cluedin/cluedin-micro-annotation:2022.10.02		"docker-entripoint.s..."
cluedin_20221002_37b57368-cadvisior-1	cadvisior	24 minutes ago	Up 23 minutes (healthy)	cluedinprod.azurecr.io/cadvisior/cadvisior:latest	0.0.0.0:8484->8080/tcp	
cluedin_20221002_37b57368-clean-1	clean	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/cluedin/cluedin-micro-clean:2022.10.02	0.0.0.0:9009->8888/tcp	"docker-entripoint.s..."
cluedin_20221002_37b57368-datasource-1	datasource	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/cluedin/cluedin-micro-datasource:2022.10.02	0.0.0.0:9014-9016->9014-9016/tcp,	"docker-entripoint.s..."
cluedin_20221002_37b57368-documentation-1	documentation	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/cluedin/cluedin-micro-documentation:2022.10.02	0.0.0.0:9021->8888/tcp	"docker-entripoint.s..."
cluedin_20221002_37b57368-elasticsearch-1	elasticsearch	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/elasticsearch/elasticsearch:7.8.0	0.0.0.0:9200->9200/tcp, 0.0.0.0:9300->9300/tcp	"/usr/local..."
cluedin_20221002_37b57368-gql-1	gql	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/cluedin/cluedin-ui-gql:2022.10.02	0.0.0.0:8888->8888/tcp	entripoint.s..."
cluedin_20221002_37b57368-grafana-1	grafana	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/grafana/grafana:9.1.4	0.0.0.0:3030->3000/tcp	entripoint.s..."
cluedin_20221002_37b57368-neo4j-1	neo4j	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/cluedin/neo4j:2022.10.02	0.0.0.0:7474->7474/tcp, 7473/tcp,	entripoint.s..."
cluedin_20221002_37b57368-openrefine-1	openrefine	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/cluedin/openrefine:2022.10.02	0.0.0.0:3333->3333/tcp	entripoint.s..."
cluedin_20221002_37b57368-prometheus-1	prometheus	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/prometheus/prometheus:v2.37.0	0.0.0.0:9090->9090/tcp	entripoint.s..."
cluedin_20221002_37b57368-rabbitmq-1	rabbitmq	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/bitnami/rabbitmq:3.10.8-debian-11-r4	4369/tcp, 5551-5552/tcp, 5671/tcp,	entripoint.s..."
cluedin_20221002_37b57368-redis-1	redis	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/bitnami/redis:6.2.7-debian-11-r11	0.0.0.0:6379->6379/tcp	entripoint.s..."
cluedin_20221002_37b57368-seq-1	seq	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/datalust/seq:2022.1	443/tcp, 45341/tcp, 0.0.0.0:5341->5341/tcp, 0.0.0.0:3200->80/tcp	entripoint.s..."
cluedin_20221002_37b57368-server-1	server	24 minutes ago	Up 7 minutes	cluedinprod.azurecr.io/cluedin/cluedin-server:2022.10.02	0.0.0.0:9000-9001->9000-9001/tcp, 0.0.0.0:9003->9003/tcp,	entripoint.s..."
cluedin_20221002_37b57368-smtp4dev-1	smtp4dev	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/rnwood/smtp4dev:latest	143/tcp, 0.0.0.0:2525->25/tcp,	entripoint.s..."
cluedin_20221002_37b57368-sqlserver-1	sqlserver	24 minutes ago	Up 24 minutes	cluedinprod.azurecr.io/cluedin/sqlserver:2022.10.02	0.0.0.0:1433->1433/tcp	entripoint.s..."
cluedin_20221002_37b57368-submitter-1	submitter	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/cluedin/cluedin-micro-submitter-node:2022.10.02	0.0.0.0:9012->8888/tcp	entripoint.s..."
cluedin_20221002_37b57368-ui-1	ui	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/cluedin/ui:2022.10.02	80/tcp, 0.0.0.0:9080->8080/tcp	entripoint.s..."
cluedin_20221002_37b57368-webapi-1	webapi	24 minutes ago	Up 23 minutes	cluedinprod.azurecr.io/cluedin/app:2022.10.02	0.0.0.0:9008->9008/tcp	entripoint.s..."

Running CluedIn instance status

```
Can Connect
[1/1] ✓ » Is Up : http://127.0.0.1.nip.io:9000/status
DataShards
[1/6] ✓ » Blob
[2/6] ✓ » Configuration
[3/6] ✓ » Data
[4/6] ✓ » Search
[5/6] ✓ » Graph
[6/6] ✓ » Metrics
Components
[1/6] ✓ » Api
[2/6] ✓ » Authentication
[3/6] ✓ » Crawling
[4/6] ✓ » Scheduling
[5/6] ✓ » ServiceBus
[6/6] ✓ » System
```

Use the docker desktop UI to observe not all containers are running (i.e. annotation) and check the logs as above

We can also use git bash as below to see all the errors

```
# get the id of the annotation container
rudi@maxima MINGW64 ~
$ docker ps -a | grep annotation | grep 2022.10.02
9e668246470d   cluedinprod.azurecr.io/cluedin/cluedin-micro-annotation:2022.10.02   "docker-entrypoint.s..."   29 minutes ago
Exited (0) 23 minutes ago
cluedin_20221002_37b57368-annotation-1

# grep for ERROR
rudi@maxima MINGW64 ~
$ docker logs 9e668246470d | grep ERROR
02:46:44.720Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (0)
02:46:44.761Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:46:49.738Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (1)
Sun, 05 Feb 2023 02:47:21 GMT tedious deprecated The default value for `config.options.trustServerCertificate` will change from
`true` to `false` in the next major version of `tedious`. Set the value to `true` or `false` explicitly to silence this message. at
node_modules/sequelize/lib/dialects/mssql/connection-manager.js:63:26
02:46:49.738Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:46:54.744Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (2)
02:46:54.744Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
[AMQP] reconnecting
02:46:59.746Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (3)
02:46:59.747Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:04.775Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (4)
02:47:04.777Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:09.778Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (5)
npm notice
npm notice New major version of npm available! 8.19.3 -> 9.4.1
npm notice Changelog: <https://github.com/npm/cli/releases/tag/v9.4.1>
npm notice Run `npm install -g npm@9.4.1` to update!
npm notice
02:47:09.780Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:14.780Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (6)
02:47:14.780Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:21.531Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:47:21.534Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Failed to connect to sqlserver:1433 - Could not connect
(sequence)
02:47:21.887Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (0)
02:47:21.893Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:22.539Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:47:22.539Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Failed to connect to sqlserver:1433 - Could not connect
(sequence)
02:47:24.543Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:47:24.543Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Failed to connect to sqlserver:1433 - Could not connect
(sequence)
02:47:26.889Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (1)
02:47:26.889Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:28.553Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:47:28.554Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Failed to connect to sqlserver:1433 - Could not connect
(sequence)
02:47:31.890Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (2)
02:47:31.891Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:36.560Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:47:36.560Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Failed to connect to sqlserver:1433 - Could not connect
(sequence)
02:47:36.892Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (3)
02:47:36.893Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:41.893Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (4)
02:47:41.894Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:46.895Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (5)
02:47:46.895Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:51.897Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Invalid connection to rabbitMQ (6)
02:47:51.897Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: connect ECONNREFUSED 172.24.0.11:5672 (err.code=ECONNREFUSED)
02:47:52.564Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:47:52.564Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Failed to connect to sqlserver:1433 - Could not connect
(sequence)
02:48:25.105Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:48:25.106Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Login failed for user 'sa'.
02:49:29.126Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Error when connecting to database
02:49:29.126Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Login failed for user 'sa'.
02:51:37.304Z ERROR CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Channel closed
```

Try starting annotation container in the docker desktop UI and monitor the logs



Ok it is up and staying up

Logs	Inspect	Terminal	Stats
2023-02-05 13:18:41	accept: application/openmetrics-text;version=1.0.0,application/openmetrics-text;version=0.0.1;q=0.1		
2023-02-05 13:18:41	accept-encoding: gzip		
2023-02-05 13:18:41	x-prometheus-scrape-timeout-seconds: 5		
2023-02-05 13:18:41	03:18:41.292Z INFO CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Response: {statusCode}. {stat (id=ff094bf1-3372-4065-86f2-87d1fe6c4de6, statusCode=200, statusMessage=OK, contentLength=0)}		
2023-02-05 13:18:41	HTTP/1.1 200 OK		
2023-02-05 13:18:41	x-powered-by: Express		
2023-02-05 13:18:41	content-type: text/plain; version=0.0.4; charset=utf-8		
2023-02-05 13:18:46	03:18:46.287Z INFO CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Incoming request {url} {id=15 /metrics, req.remoteAddress=:ffff:172.24.0.1, req.remotePort=48840}		
2023-02-05 13:18:46	GET /metrics HTTP/1.1		
2023-02-05 13:18:46	host: host.docker.internal:9010		
2023-02-05 13:18:46	user-agent: Prometheus/2.37.0		
2023-02-05 13:18:46	accept: application/openmetrics-text;version=1.0.0,application/openmetrics-text;version=0.0.1;q=0.1		
2023-02-05 13:18:46	accept-encoding: gzip		
2023-02-05 13:18:46	x-prometheus-scrape-timeout-seconds: 5		
2023-02-05 13:18:46	03:18:46.292Z INFO CluedIn.Micro.Annotation/CluedIn.Micro.Annotation: Response: {statusCode}. {stat (id=1575ab74-4c76-454f-baa5-2c352fe4886b, statusCode=200, statusMessage=OK, contentLength=0)}		
2023-02-05 13:18:46	HTTP/1.1 200 OK		

Check all containers are up - success!

<input type="checkbox"/>		cluedin_20221002_37b57368	-	Running (20/20)				
<input type="checkbox"/>		documentation-1 ae527d5fe950	cluedinprod.azurecr.io/cluedin/clue	Running	9021-8888	35 minutes ag		
<input type="checkbox"/>		elasticsearch-1 e04fc3ea2335	cluedinprod.azurecr.io/elasticsearch	Running	9200-9200 9300-9300	35 minutes ag		

Let things settle for a while before attempting the next setup steps

Monitor the running (20/20) remains so

Check the docker desktop resources are okay

RAM 23.46 GB	CPU 14.50%	
--------------	------------	--

Configure Cluster

Debug Mode for Server Container

Consider putting the server container in debug mode for more verbose output (I tend to have this setting on all the time and I watch the server logs regularly to gain better insights into what is happening)

to do this we update the file `.env` file in `Home\env\20221002`

`CLUEDIN_ENVIRONMENT=Production`

to

`CLUEDIN_ENVIRONMENT=Development`

Basic GraphQL and Network Inspecting

Install GraphQL Network Inspector in Chrome

<https://chrome.google.com/webstore/detail/graphql-network-inspector/ndlbeplllccgconngcnfmkadhokfaaln>



chrome web store

Home > Extensions > GraphQL Network Inspector



GraphQL Network Inspector

★★★★★ 59 | Developer Tools | 30,000+ users

Connect to apps page on new local CluedIn cluster

Go to
<http://app.127.0.0.1.nip.io:9080/>

← → ↻ ⚠ Not secure | app.127.0.0.1.nip.io:9080/signin?redirect=/



Sign in to your team

Enter your team's CluedIn domain.

Team Domain

.127.0.0.1.nip.io

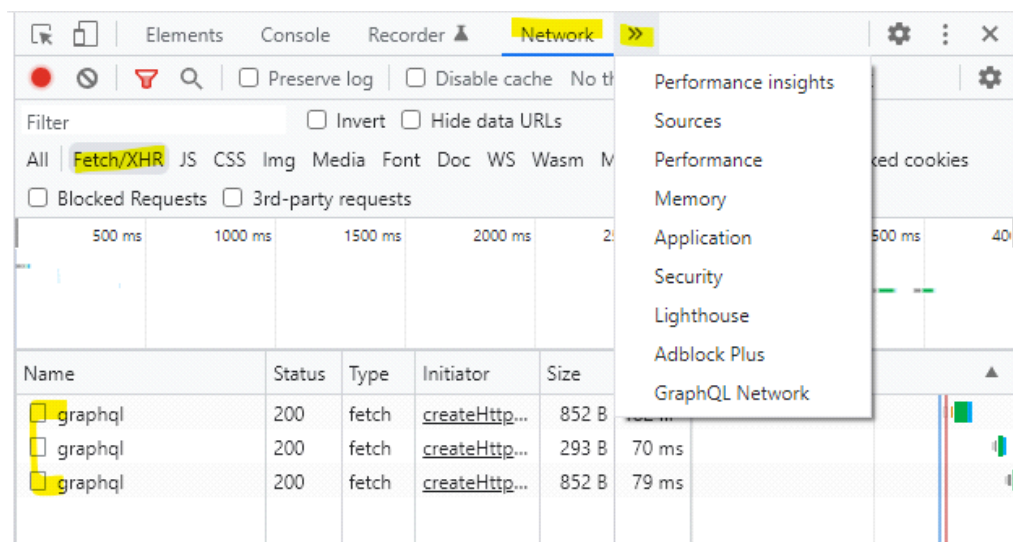
Continue

Note: nip.io is a service for

Dead simple wildcard DNS for any IP Address

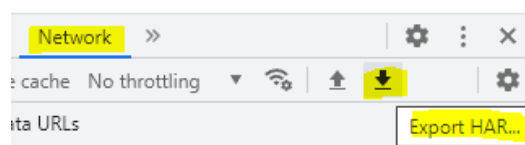
Stop editing your **etc/hosts** file with custom hostname and IP address mappings.
nip.io allows you to do that by mapping any IP Address to a hostname

Open devtools (F12 in chrome) and observe the network

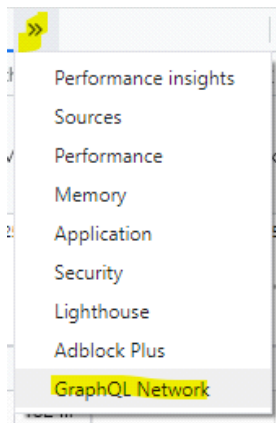


Note the graphql requests

You can save HAR files for later analysis and support tickets (the up arrow is for importing HAR files)



Open GraphQL Network - it will show the existing requests from the network tab and can also show loaded HAR files



Query / Mutation	Status	Size	Time	URL
Q getCurrentOrg	1 200	641 B	201ms	http://127.0.0.1.nip.io:8888/graphql
Q administration	200	83 B	85ms	http://127.0.0.1.nip.io:8888/graphql
Q getCurrentOrg	1 200	641 B	83ms	http://127.0.0.1.nip.io:8888/graphql

Let's create a new org

Doco here is <https://cluedin-io.github.io/Home/3.5.2/createorg/>

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 createorg 20221002 -Name example -Pass Wxio523!fdH
```

```
+-----+
| CluedIn - Create Organization [docker] |
+-----+
```

```
Active                : True
ApplicationSubDomain  : example
CustomerId            :
ExternalAuthenticationId :
EmailDomainName       : example.com
Id                    : 0515db86-5558-4ce7-b686-05e80c077f5d
IsEmailDomainSignupActivated : False
LastLoginTime         : 5/02/2023 12:21:54 PM
Name                  : example
Plan                  : 6749e7a5-da15-47e2-918b-6a385e288865
PlanEndDate           : 7/03/2023 12:21:54 PM
PlanIsActive          : True
PlanStartDate         : 5/02/2023 12:21:54 PM
RefreshTokenLifeTime  : 14400
SubscriptionId        :
```

Email: admin@example.com

Password: Wxio523!fdH

Server logs

```
[#143 12:21:56 INF] Created administrative account for admin@example.com for example
[#142 12:21:56 INF] Creating default page templates for 0515db86-5558-4ce7-b686-05e80c077f5d
[#144 12:21:56 INF] Populating page templates for 0515db86-5558-4ce7-b686-05e80c077f5d
[#142 12:22:09 INF] Clue: /Organization#CluedIn:0515db86-5558-4ce7-b686-05e80c077f5d was processed successfully; Last result: Success
[#142 12:22:11 INF] Clue: /Infrastructure/User#CluedIn:82344ab0-7d9c-40e5-9d12-dbcc2829e58a was processed successfully; Last result: Success
[#142 12:22:11 INF] Registration clue processing completed successfully; Last result: Success
[#142 12:22:11 INF] New organization registered: example (example)
[#142 12:22:11 INF] HTTP POST /api/account/new responded 200 in 17628.2592 ms
```

Open CluedIn UI to test it's working

Use the app page to go to example

or go directly there with <http://example.127.0.0.1.nip.io:9080/>

Team Domain

.127.0.0.1.nip.io

Continue

The screenshot shows the GraphQL Network DevTools interface. The left sidebar lists several queries, with 'GetIsOrganizationAvailable' highlighted in blue. The main panel displays the query text and its response. The query is:

```
query GetIsOrganizationAvailable($id: String!) {
  administration {
    isOrganizationAvailable(id: $id) {
      EmailDomainName
      IsEmailDomainSignupActivated
      SingleSignOn
      clientId
      isAvailable
      __typename
    }
  }
}
```

The response is:

```
{
  "id": "example"
}
```

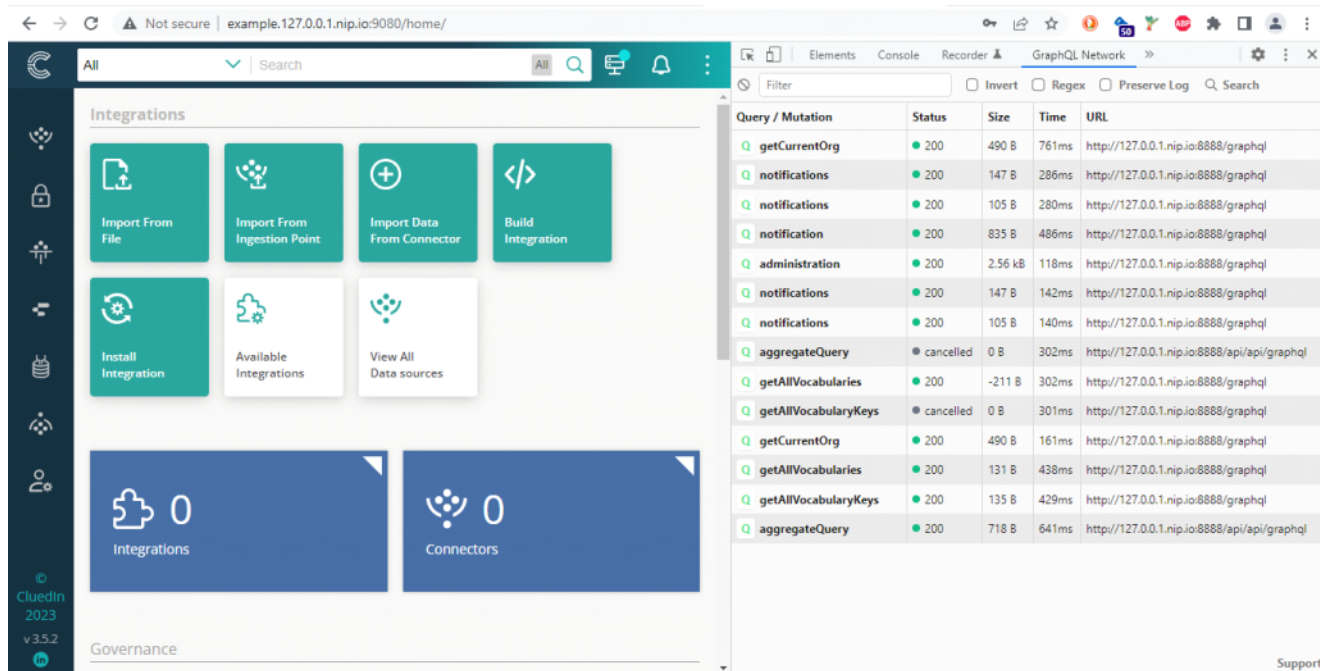
A yellow checkmark is drawn over the response. The interface also includes tabs for Headers, Request, Response, and Response (Raw), and a search bar at the top.

Email

Password

Sign In

Success



Create start and stop scripts and stop the cluster

Create convenience scripts stop/start/status

```
PS C:\Users\rudi> .\home.ps1
PS ...Home> Write-Output ".\cluedin.ps1 stop 20221002" > stop_20221002.ps1
PS ...Home> Write-Output ".\cluedin.ps1 start 20221002" > start_20221002.ps1
PS ...Home> Write-Output ".\cluedin.ps1 status 20221002" > status_20221002.ps1
```

Stop the cluster - so we can shutdown our computer

Confirm it's running

```
PS > .\status_20221002.ps1
...
Can Connect
[1/1] ✓ » Is Up : http://127.0.0.1.nip.io:9000/status
DataShards
[1/6] ✓ » Blob
[2/6] ✓ » Configuration
[3/6] ✓ » Data
[4/6] ✓ » Search
[5/6] ✓ » Graph
[6/6] ✓ » Metrics
Components
[1/6] ✓ » Api
[2/6] ✓ » Authentication
[3/6] ✓ » Crawling
[4/6] ✓ » Scheduling
[5/6] ✓ » ServiceBus
[6/6] ✓ » System
```

Stop it

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\stop_20221002.ps1
+-----+
| CluedIn - Environment => stop [docker] |
+-----+
[+] Running 20/20
- Container cluedin_20221002_37b57368-documentation-1 S... 5.6s
- Container cluedin_20221002_37b57368-openrefine-1 Stop... 6.4s
- Container cluedin_20221002_37b57368-grafana-1 Stopped 4.1s
- Container cluedin_20221002_37b57368-gql-1 Stopped 5.5s
- Container cluedin_20221002_37b57368-smtp4dev-1 Stoppe... 3.9s
- Container cluedin_20221002_37b57368-ui-1 Stopped 12.8s
- Container cluedin_20221002_37b57368-cadvisor-1 Stoppe... 2.2s
- Container cluedin_20221002_37b57368-prometheus-1 Stop... 4.2s
- Container cluedin_20221002_37b57368-submitter-1 Stoppe... 5.4s
- Container cluedin_20221002_37b57368-webapi-1 Stopped 1.7s
- Container cluedin_20221002_37b57368-clean-1 Stopped 2.4s
- Container cluedin_20221002_37b57368-annotation-1 Stop... 1.9s
- Container cluedin_20221002_37b57368-datasource-1 Stop... 2.6s
- Container cluedin_20221002_37b57368-server-1 Stopped 11.8s
- Container cluedin_20221002_37b57368-neo4j-1 Stopped 3.4s
- Container cluedin_20221002_37b57368-elasticsearch-1 S... 3.2s
- Container cluedin_20221002_37b57368-seq-1 Stopped 6.1s
- Container cluedin_20221002_37b57368-redis-1 Stopped 2.6s
- Container cluedin_20221002_37b57368-rabbitmq-1 Stoppe... 8.8s
- Container cluedin_20221002_37b57368-sqlserver-1 Stoppe... 12.3s
```

Confirm it's stopped

```
PS > .\status_20221002.ps1
...
```


cluedin_20221002_37b57368-webapi-1 cluedinprod.azurecr.io/cluedin/app:2022.10.02
CluedIn.App..." webapi 10 hours ago Exited (0) About a minute ago

"dotnet

Running CluedIn instance status

Can Connect

[1/1] x » Is Up : <http://127.0.0.1.nip.io:9000/status>

* [1] check(s) did not succeed. Please review for solutions:

x » Is Up : <http://127.0.0.1.nip.io:9000/status>
Could not connect to <http://127.0.0.1.nip.io:9000/status>