0304 - Install Latest CluedIn GA 2022.10.03 Docker using cluedin.ps1 from Home repo

Saturday, 4 March 2023   11:22 AM

Objective
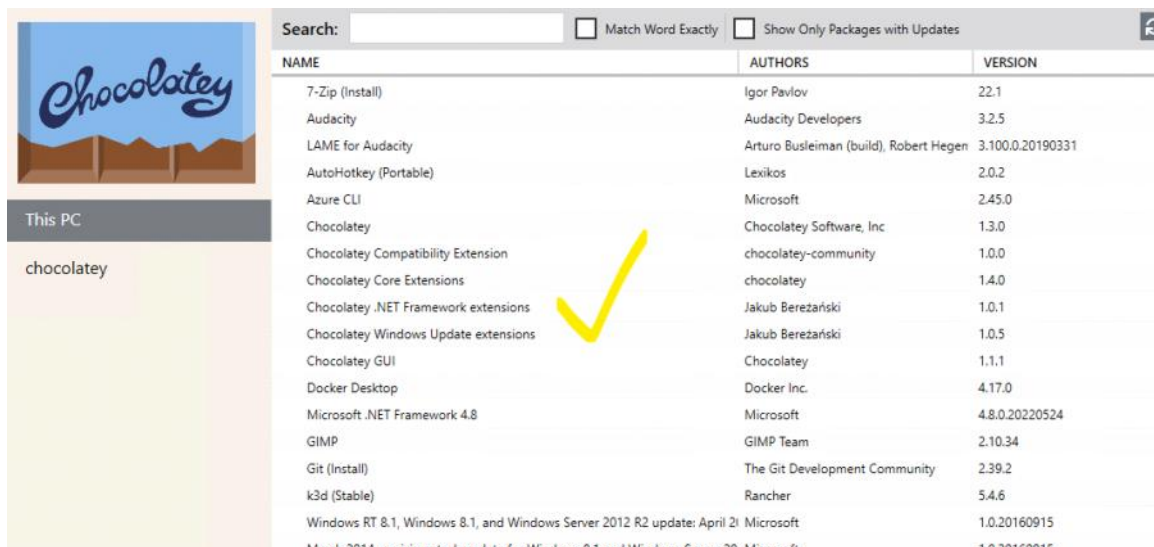To update to the latest GA based on recent method of install.

Approach
Follow the same steps as https://github.com/RudiBob/ImpTools/blob/master/install-journal/Docker%20Example%20Install%20Journal%20GA%203.5.2%20aka%202022.10.02.pdf

And note anything different here.

Journal
Check with chocolatey all our dependences are up to date.

Check home repo for updates

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

This is still the latest https://cluedin-io.github.io/Home/3.5.3/

Check with git - nothing new

```
rudi@maxima MINGW64 ~
$ cd /g/rudi.harris/src/CluedIn-io/Home/

rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .vs/
        env/20221002/
        start_20221002.ps1
        start_20221002_disable_server.ps1
        status_20221002.ps1
        stop_20221002.ps1

nothing added to commit but untracked files present (use "git add" to track)


rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ git remote -v
origin  https://github.com/CluedIn-io/Home (fetch)
origin  https://github.com/CluedIn-io/Home (push)

rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ git diff origin/master

rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ git remote show origin
* remote origin
  Fetch URL: https://github.com/CluedIn-io/Home
  Push  URL: https://github.com/CluedIn-io/Home
  HEAD branch: master
  Remote branches:
    docs            tracked
    master          tracked
```
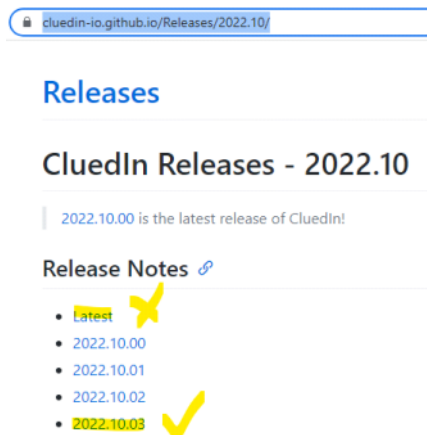
```
        release/3.2    tracked
        release/3.2.2  tracked
  Local branch configured for 'git pull':
    master merges with remote master
  Local ref configured for 'git push':
    master pushes to master (local out of date)
```

Check for GA release

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

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

https://cluedin-io.github.io/Releases/latest - broken! Points to 2022.10.00

Go to

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

then
https://cluedin-io.github.io/Releases/2022.10/2022.10.03 - lots of fixes!

Features

- Added query for the grouped records panel in the Entity Relations graph

Fixes

- Added kind to the Entity Relations schema for use in the Entity Relations graph
- ProviderName is passed instead of the name for use in the Entity Topology record panels
- Amended Entity Topology graph nodes' invalid dates
- Added source for use in the Explain Log
- Added source for use in Entity Topology
- Removed a defined source for Entity Topology-related queries to prevent odd data values being sent back; JSON is returned instead
- Added full providers for use in Entity Topology
- Added a check for valid SVGs used for the Entity Topology provider icons

Fixes

- Hide Shadow Entities in streams data preview (#17231)
- Added ability to filter isExternalData to EntityTypes endpoint (#17335)
- Identify if a record is from a clean project, deduplication project or a manual merge on the entity topology panels. (#17110)
- GraphQL search results total count limited to 10,000 due to ElasticSearch settings (#18113)
- Entity Fields (Name, Description etc) being added to the list of properties in Clean and Deduplication projects after they had been processed. (#17813)
- Ensure the merge of an entity shows the correct date. (#17847)
- Entity splits confirmation appears as a popup notification. (#16688)

- Fixed an issue where not all processing instances were receiving stream commands if there were multiple Processing instances. This

introduces a number of new configuration settings

Configuration Name	DefaultValue
"StreamProcessing.Subscribe.DefaultPrefetchCount"	50
"StreamEvents.PrefetchCount"	"StreamProcessing.Subscribe.DefaultPrefetchCount"
"StreamEvents.Priority"	0

(#16640)

Features

- Added a grouped records panel to Entity Relations
- Entity Topology displays old (deprecated) clean as nodes, and in topology panel lists
- Explain Log displays old (deprecated) clean
- Entity Topology displays 'Manually Added In CluedIn' (where an entity property has been manually changed) as nodes, and in topology panel lists
- Explain Log displays 'Manually Added In CluedIn' (where an entity property has been manually changed)

Fixes

- The entity filter in Entity Properties correctly filters by 'Ungrouped'
- Clean projects are displayed correctly in Entity Topology panel lists
- When creating an entity, the 'Create' button is disabled if an icon is not selected
- The 'Merge From Deduplication Project' node in the Entity Topology legend displays correctly
- The ability to edit properties is appropriately shown for various user-roles
- Removed interactive table headers in the Entity Properties history panel
- Opening and closing panels in Entity Relations is consistent
- Source is shown in the header of the record panel in Entity Topology
- Entity Topology icons in the graph nodes and legend load/draw consistently
- Added fallbacks to the Entity Topology split panel list (e.g. 'No name')
- Amended invalid dates that were shown in the Entity Topology graph nodes
- If an entity in Entity Topology has no properties, a prompt is shown to suggest that the entity is a shadow entity
- The 'Show dead end connecting nodes' filter in the Entity Topology graph is visually checked when active
- The Entity Topology graph no longer jumps around when the canvas background is clicked
- Entity types are shown with an appropriate icon in the Entity Topology record panel
- Removed the unnecessary vertical scroll from the graph containers in Entity Topology and Entity Relations
- The entity type list search and count are updated on the entity page list when a new entity type is created
- The add entity type and create layout panels can be closed by pressing the 'escape' key
- All panels in Entity Topology can be closed by pressing the 'escape' key
- Display record sources in Explain Log entries
- Arrows used to display relations between nodes in Entity Relations are more representative for incoming and outgoing
- History panel list items are ordered from oldest to newest (top to bottom)
- History panel is updated after editing a property
- When an entity has no properties an appropriate message is shown in the empty list
- Node types in Entity Topology are displayed correctly in Entity Topology panel lists
- Node panels in Entity Relations have appropriate links in the header
- When trying to create a duplicate entity in Annotation an appropriate message is shown
- Graph legends for Entity Topology and Entity Relations are moved to the top of the graph containers
- If there is only one record in Explain Log, this record is identified correctly
- Selection of items to split-by in Entity Topology split panels are cleared when using the 'Back' button
- Users can access Entity Page Layouts with the 'New Entity Page' feature flag disabled

Let's make a new env for 2022.10.03

Fire up powershell in admin mode

```
PowerShell 7.3.3
PS C:\Users\rudi> cat .\home.ps1
cd G:\rudi.harris\src\CluedIn-io\Home
PS C:\Users\rudi> .\home.ps1

# create new env for 2022.10.03
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 env 20221003 -tag 2022.10.03

        +--------------------------------------+
        | CluedIn - Manage Environment [docker] |
        +--------------------------------------+
        Setting 'CLUEDIN_ANNOTATION_TAG' in '20221003' environment
        Setting 'CLUEDIN_CLEAN_TAG' in '20221003' environment
        Setting 'CLUEDIN_DATASOURCE_TAG' in '20221003' environment
        Setting 'CLUEDIN_DOCUMENTATION_TAG' in '20221003' environment
        Setting 'CLUEDIN_GQL_TAG' in '20221003' environment
        Setting 'CLUEDIN_INSTALLER_TAG' in '20221003' environment
        Setting 'CLUEDIN_LIBPOSTAL_TAG' in '20221003' environment
        Setting 'CLUEDIN_NEO4J_TAG' in '20221003' environment
        Setting 'CLUEDIN_OPENREFINE_TAG' in '20221003' environment
        Setting 'CLUEDIN_SERVER_TAG' in '20221003' environment
        Setting 'CLUEDIN_SQLSERVER_TAG' in '20221003' environment
        Setting 'CLUEDIN_SUBMITTER_TAG' in '20221003' environment
        Setting 'CLUEDIN_UI_TAG' in '20221003' environment
        Setting 'CLUEDIN_WEBAPI_TAG' in '20221003' environment
```

Check and pull

```
PS > .\cluedin.ps1 check 20221003
        +------------------------------------+
        | CluedIn - Pre-Flight Check [docker] |
        +------------------------------------+
        Installed Applications
          [1/3] √ » PowerShell : 7.3.3 / Core
          [2/3] √ » Docker : 20.10.23 / 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

PS > .\cluedin.ps1 pull 20221003
```

Bring new cluster up and watch

This will be a bumpy ride as per usual - troubleshoot and wait till things are stable

```
PS > .\cluedin.ps1 up 20221003
```

How to get a cluedin server container name?

Note: Use -a for active and dead ones for testing

```
rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ docker ps -a --format "{{.Names}}" | grep -server-1 | grep 20221002 | grep -v
sql
cluedin_20221002_37b57368-server-1
```

Then poll till it returns a result - the 20221003 cluedin server container name - so we can pass it to docker logs -f

```
rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ echo `docker ps --format "{{.Names}}" | grep -server-1 | grep 20221003 | grep -v
sql`
```

Then use in server logs expression

```
rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ docker logs -f `docker ps --format "{{.Names}}" | grep -server-1 | grep 20221003
| grep -v sql`
```

Database errors in server logs

Taking a while... probably the database creation scripts - yep!

Watch the sqlserver logs till it settles

5 mins after starting

Run status command to check

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 status 20221003
+------------------------------+
| CluedIn - Status Check [docker] |
+------------------------------+
Docker containers status

NAME                                         IMAGE
COMMAND                      SERVICE          CREATED          STATUS
PORTS
cluedin_20221003_37b57369-annotation-1
cluedinprod.azurecr.io/cluedin/cluedin-micro-annotation:2022.10.03       "docker-
entrypoint.s…"   annotation          7 minutes ago     Up 6 minutes
0.0.0.0:9010->8888/tcp
cluedin_20221003_37b57369-cadvisor-1
cluedinprod.azurecr.io/cadvisor/cadvisor:latest
"/usr/bin/cadvisor -…"   cadvisor          7 minutes ago     Up 6 minutes
```

```
(healthy)      0.0.0.0:8484->8080/tcp
cluedin_20221003_37b57369-clean-1
cluedinprod.azurecr.io/cluedin/cluedin-micro-clean:2022.10.03         "docker-
entrypoint.s…"   clean              7 minutes ago      Up 6 minutes
0.0.0.0:9009->8888/tcp
cluedin_20221003_37b57369-datasource-1
cluedinprod.azurecr.io/cluedin/cluedin-micro-datasource:2022.10.03       "docker-
entrypoint.s…"   datasource         7 minutes ago      Up 6 minutes
0.0.0.0:9014-9016->9014-9016/tcp, 0.0.0.0:9011->8888/tcp
cluedin_20221003_37b57369-documentation-1
cluedinprod.azurecr.io/cluedin/cluedin-micro-documentation:2022.10.03     "docker-
entrypoint.s…"   documentation      7 minutes ago      Up 7 minutes
0.0.0.0:9021->8888/tcp
cluedin_20221003_37b57369-elasticsearch-1
cluedinprod.azurecr.io/elasticsearch/elasticsearch:7.8.0               "/tini --
/usr/local…"   elasticsearch       7 minutes ago      Up 7 minutes
0.0.0.0:9200->9200/tcp, 0.0.0.0:9300->9300/tcp
cluedin_20221003_37b57369-gql-1
cluedinprod.azurecr.io/cluedin/cluedin-ui-gql:2022.10.03             "docker-
entrypoint.s…"   gql                7 minutes ago      Exited (0) 2 minutes ago
cluedin_20221003_37b57369-grafana-1
cluedinprod.azurecr.io/grafana/grafana:9.1.4                       "/run.sh"
grafana          7 minutes ago      Up 6 minutes
0.0.0.0:3030->3000/tcp
cluedin_20221003_37b57369-neo4j-1
cluedinprod.azurecr.io/cluedin/neo4j:2022.10.03                    "tini -
g -- /entrypo…"   neo4j             7 minutes ago      Up 7 minutes
0.0.0.0:7474->7474/tcp, 7473/tcp, 0.0.0.0:7687->7687/tcp
cluedin_20221003_37b57369-openrefine-1
cluedinprod.azurecr.io/cluedin/openrefine:2022.10.03
"/app/refine"          openrefine         7 minutes ago      Up 7 minutes
0.0.0.0:3333->3333/tcp
cluedin_20221003_37b57369-prometheus-1
cluedinprod.azurecr.io/prometheus/prometheus:v2.37.0
"/bin/prometheus --w…"   prometheus       7 minutes ago      Up 7 minutes
0.0.0.0:9090->9090/tcp
cluedin_20221003_37b57369-rabbitmq-1
cluedinprod.azurecr.io/bitnami/rabbitmq:3.10.8-debian-11-r4
"/opt/bitnami/script…"   rabbitmq        7 minutes ago      Up 7 minutes
4369/tcp, 5551-5552/tcp, 5671/tcp, 0.0.0.0:5672->5672/tcp,
0.0.0.0:15672->15672/tcp, 15671/tcp, 25672/tcp, 0.0.0.0:15692->15692/tcp
cluedin_20221003_37b57369-redis-1
cluedinprod.azurecr.io/bitnami/redis:6.2.7-debian-11-r11
"/opt/bitnami/script…"   redis           7 minutes ago      Up 7 minutes
0.0.0.0:6379->6379/tcp
cluedin_20221003_37b57369-seq-1
cluedinprod.azurecr.io/datalust/seq:2022.1
"/bin/seqentry"        seq                7 minutes ago      Up 7 minutes
443/tcp, 45341/tcp, 0.0.0.0:5341->5341/tcp, 0.0.0.0:3200->80/tcp
cluedin_20221003_37b57369-server-1
cluedinprod.azurecr.io/cluedin/cluedin-server:2022.10.03
"sh ./boot.sh"         server             7 minutes ago      Up 6 minutes
0.0.0.0:9000-9001->9000-9001/tcp, 0.0.0.0:9003->9003/tcp,
0.0.0.0:9006-9007->9006-9007/tcp, 0.0.0.0:9013->9013/tcp
cluedin_20221003_37b57369-smtp4dev-1
cluedinprod.azurecr.io/rnwood/smtp4dev:latest                      "dotnet
/app/Rnwood.…"   smtp4dev           7 minutes ago      Up 6 minutes
143/tcp, 0.0.0.0:2525->25/tcp, 0.0.0.0:25258->80/tcp
cluedin_20221003_37b57369-sqlserver-1
cluedinprod.azurecr.io/cluedin/sqlserver:2022.10.03                "sh -c
'mkdir -p /ms…"   sqlserver          7 minutes ago      Up 7 minutes
0.0.0.0:1433->1433/tcp
cluedin_20221003_37b57369-submitter-1
cluedinprod.azurecr.io/cluedin/cluedin-micro-submitter-node:2022.10.03   "docker-
entrypoint.s…"   submitter          7 minutes ago      Up 6 minutes
0.0.0.0:9012->8888/tcp
cluedin_20221003_37b57369-ui-1
cluedinprod.azurecr.io/cluedin/ui:2022.10.03                       "/docker-
entrypoint.…"   ui                 7 minutes ago      Up 6 minutes
80/tcp, 0.0.0.0:9080->8080/tcp
cluedin_20221003_37b57369-webapi-1
cluedinprod.azurecr.io/cluedin/app:2022.10.03                      "dotnet
CluedIn.App.…"   webapi             7 minutes ago      Up 6 minutes
0.0.0.0:9008->9008/tcp


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
```

Server logs have

```
[#085 02:06:18 INF] HTTP POST /api/v1/agent/repository/register responded 401 in
12.2498 ms
[#005 02:06:22 INF] Agent 0ba1175f4178 - Shared registered
[#018 02:06:22 INF] Agent 0ba1175f4178 - 02712a2b-b36a-4f11-95ba-d1850a311419
registered
[#018 02:06:22 INF] HTTP POST /api/v1/agent/repository/register responded 200 in
1447.4873 ms
[#044 02:07:34 INF] HTTP GET /status responded 200 in 20.9452 ms
```

Check docker desktop to see if all containers are running - nope 1 isn't

| ⌄ 🟧 **cluedin_20221003_37b573** - | | Running (19/20) |

| ⬜ **gql-1**
ca7b2d495ce1 📋 | cluedinprod.azurecr.io/cluedi | Exited | 8888:8888 ⧉ |

Run start

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 start 20221003
+------------------------------------+
| CluedIn - Environment => start [docker] |
+------------------------------------+
[+] Running 1/1
 - Container cluedin_20221003_37b57369-gql-1   Started
```

Wait a while - success

| ⌄ 🟩 **cluedin_20221003_37b573** - | | Running (20/20) |

Stop cluster

```
PS > .\cluedin.ps1 stop 20221003
```

Start cluster

```
PS > .\cluedin.ps1 start 20221003
```

Wait to settle

```
# rewatch the server log
rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ docker logs -f `docker ps --format "{{.Names}}" | grep -server-1 | grep 20221003 |
grep -v sql`

    Noted a few errors on start up… a clean startup would be a preference… let's see!


# check all is up
PS > .\cluedin.ps1 status 20221003
```

Then… Create org - fail!! Database creation failed - let's do up and down to fix it

```
PS > .\cluedin.ps1 createorg 20221003 -Name example -Pass Wxio523!fdH

    +------------------------------------+
    | CluedIn - Create Organization [docker] |
    +------------------------------------+
    Create organization was not successful

Server logs
    [#008 02:16:59 ERR] Data operation could not be performed against datastore:
    EntityBlobRepository
    Microsoft.Data.SqlClient.SqlException (0x80131904): Invalid object name 'Blobs'.
       at Microsoft.Data.SqlClient.SqlConnection.OnError(SqlException exception,
    Boolean breakConnection, Action`1 wrapCloseInAction)
       at Microsoft.Data.SqlClient.SqlInternalConnection.OnError(SqlException
    exception, Boolean breakConnection, Action`1 wrapCloseInAction)
       at
    Microsoft.Data.SqlClient.TdsParser.ThrowExceptionAndWarning(TdsParserStateObject
    stateObj, Boolean callerHasConnectionLock, Boolean asyncClose)
       at Microsoft.Data.SqlClient.TdsParser.TryRun(RunBehavior runBehavior,
    SqlCommand cmdHandler, SqlDataReader dataStream, BulkCopySimpleResultSet
    bulkCopyHandler, TdsParserStateObject stateObj, Boolean& dataReady)
       at Microsoft.Data.SqlClient.SqlDataReader.TryConsumeMetaData()
       at Microsoft.Data.SqlClient.SqlDataReader.get_MetaData()
       at Microsoft.Data.SqlClient.SqlCommand.FinishExecuteReader(SqlDataReader ds,
    RunBehavior runBehavior, String resetOptionsString, Boolean isInternal, Boolean
    forDescribeParameterEncryption, Boolean shouldCacheForAlwaysEncrypted)
       at Microsoft.Data.SqlClient.SqlCommand.RunExecuteReaderTds(CommandBehavior
    cmdBehavior, RunBehavior runBehavior, Boolean returnStream, Boolean isAsync, Int32
    timeout, Task& task, Boolean asyncWrite, Boolean inRetry, SqlDataReader ds,
    Boolean describeParameterEncryptionRequest)
       at Microsoft.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior
    cmdBehavior, RunBehavior runBehavior, Boolean returnStream, TaskCompletionSource`1
    completion, Int32 timeout, Task& task, Boolean& usedCache, Boolean asyncWrite,
    Boolean inRetry, String method)
```

Down cluster then up cluster to force recreation of all containers

Roll the dice and hopefully this time 🫰

```
.\cluedin.ps1 down 20221003
```

Wait

```
.\cluedin.ps1 up 20221003
```

Walk away for 5-15 minutes then try again

12:21pm - 12:33pm

rewatch the server log

```
rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ docker logs -f `docker ps --format "{{.Names}}" | grep -server-1 | grep 20221003 |
grep -v sql`
```

This is a good reminder that running a local k8s cluster for cluedin would be a much better experience

Check sql server
docker logs -f `docker ps --format "{{.Names}}" | grep -server-1 | grep 20221003 | grep sql`

> rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
> $ docker logs `docker ps --format "{{.Names}}" | grep -server-1 | grep 20221003 | grep sql` | grep -i error
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : Login timeout expired.
> 2023-03-04 02:22:36.84 Server   Logging SQL Server messages in file '/var/opt/mssql/log/errorlog'.
>   -e /var/opt/mssql/log/errorlog
> 2023-03-04 02:22:51.99 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:02.02 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:08.15 Logon   Error: 18456, Severity: 14, State: 38.
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : TCP Provider: Error code 0x2749.
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : A network-related or instance-specific error has occurred while establishing a connection to SQL Server. Server is not found or not accessible. Check if instance name is correct and if SQL Server is configured to allow remote connections. For more information see SQL Server Books Online..
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : Login timeout expired.
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : TCP Provider: Error code 0x2749.
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : A network-related or instance-specific error has occurred while establishing a connection to SQL Server. Server is not found or not accessible. Check if instance name is correct and if SQL Server is configured to allow remote connections. For more information see SQL Server Books Online..
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : Login timeout expired.
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : TCP Provider: Error code 0x2749.
> Sqlcmd: Error: Microsoft ODBC Driver 17 for SQL Server : A network-related or instance-specific error has occurred while establishing a connection to SQL Server. Server is not found or not accessible. Check if instance name is correct and if SQL Server is configured to allow remote connections. For more information see SQL Server Books Online..
> 2023-03-04 02:23:18.03 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:20.36 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:22.67 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:24.01 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:29.35 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:30.69 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:32.61 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:32.69 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:39.04 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:42.12 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:45.39 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:46.45 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:49.06 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:52.14 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:58.16 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:23:59.57 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:24:09.59 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:24:20.82 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:24:24.40 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:24:29.62 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:24:30.84 Logon   Error: 18456, Severity: 14, State: 38.
> 2023-03-04 02:24:39.64 Logon   Error: 18456, Severity: 14, State: 38.

Check cluedin server

```
rudi@maxima MINGW64 /g/rudi.harris/src/CluedIn-io/Home (master)
$ docker logs `docker ps --format "{{.Names}}" | grep -server-1 | grep 20221003 |
grep -v sql` | grep -i error | tail
ls: cannot access '../components/*/': No such file or directory
   at Microsoft.EntityFrameworkCore.Storage.RelationalConnection.Open(Boolean
errorsExpected)
Error Number:4060,State:1,Class:11
   at
Microsoft.EntityFrameworkCore.Storage.RelationalConnection.OpenDbConnection(Boolea
n errorsExpected)
```

```
    at Microsoft.EntityFrameworkCore.Storage.RelationalConnection.Open(Boolean
errorsExpected)
Error Number:4060,State:1,Class:11
    at
Microsoft.EntityFrameworkCore.Storage.RelationalConnection.OpenDbConnection(Boolea
n errorsExpected)
    at Microsoft.EntityFrameworkCore.Storage.RelationalConnection.Open(Boolean
errorsExpected)
Error Number:4060,State:1,Class:11
    at Microsoft.Data.SqlClient.SqlConnection.OnError(SqlException exception,
Boolean breakConnection, Action`1 wrapCloseInAction)
Error Number:208,State:1,Class:16
```

Let's stop cluedin server then start it using the docker desktop UI

Also annotation is down

server-1 7915e61029f2	cluedinprod.azurecr.io/cluedir	Running	9000:9000 ☑ Show all ports (6)	14 minutes ago ■
datasource-1 606617d37695	cluedinprod.azurecr.io/cluedir	Running	9011:8888 ☑ Show all ports (4)	14 minutes ago ■
annotation-1 849fc3f601d8	cluedinprod.azurecr.io/cluedir	Exited	9010:8888 ☑	14 minutes ago ▶

So... let's stop server then use cluedin start

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 start 20221003
+----------------------------------------+
| CluedIn - Environment => start [docker] |
+----------------------------------------+
[+] Running 2/2
 - Container cluedin_20221003_37b57369-server-1      Started
2.4s
 - Container cluedin_20221003_37b57369-annotation-1  Started
2.2s
```

Check server logs - looks good - no errors

```
[#013 02:36:51 INF] CluedIn System => [GREEN] => All DataShards Available.
[#035 02:36:51 INF] Initialized 43 vocabularies with total 857 keys
[#035 02:36:51 INF] Loaded 0 external search providers
[#035 02:36:51 WRN] Unable to bind to http://localhost:5000 on the IPv6
loopback interface: 'Cannot assign requested address'.
[#035 02:36:51 INF] Initializing Streams Component
[#035 02:36:51 INF] Creating stream ingestion exchange StreamQueueManager-
ingestion
[#035 02:36:52 INF] Streams Processing is enabled: Registering
processing/connector exchanges
[#035 02:36:52 INF] Creating stream processing exchange StreamQueueManager-
processing
[#035 02:36:52 INF] Creating stream connector exchange StreamQueueManager-
connector
[#035 02:36:52 INF] Streams Processing is enabled: Creating subscriptions
[#035 02:36:52 INF] [MessageBusWatchdog] Starting Watchdog for
StreamQueueManager
[#035 02:36:53 INF] Subscribed to messages
[#035 02:36:53 INF] [MessageBusWatchdog] Starting Watchdog for ProcessingHub
[#035 02:36:53 INF] Provider: Database Data Source, ID: 88c2252a-992c-48dc-
b4a7-85915b42da08 is registered
[#035 02:36:53 INF] Provider: Endpoint Data Source, ID:
742f9d66-8ef2-4544-8a90-41531a26cc59 is registered
[#035 02:36:53 INF] Provider: File Data Source, ID: f355c243-faec-43ba-8424-
d97b60d3a438 is registered
[#035 02:36:53 INF] Provider: CustomHooks, ID: f084eae7-6df4-4ff6-
baed-082419bcc328 is registered
[#004 02:36:55 INF] Agent 7915e61029f2 - 02712a2b-b36a-4f11-95ba-d1850a311419
registered
[#004 02:36:55 INF] HTTP POST /api/v1/agent/repository/register responded 200
in 854.3874 ms
```

∨ 📚 **cluedin_20221003_37b573€** -	Running (20/20)

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1 status 20221003
    +------------------------------+
    | CluedIn - Status Check [docker] |
    +------------------------------+
    Docker containers status

    NAME                                    IMAGE
    COMMAND                 SERVICE         CREATED         STATUS
    PORTS
    cluedin_20221003_37b57369-annotation-1
    cluedinprod.azurecr.io/cluedin/cluedin-micro-annotation:2022.10.03
    "docker-entrypoint.s…"    annotation      17 minutes ago    Up About a
    minute          0.0.0.0:9010->8888/tcp
    cluedin_20221003_37b57369-cadvisor-1
    cluedinprod.azurecr.io/cadvisor/cadvisor:latest
    "/usr/bin/cadvisor -…"    cadvisor        17 minutes ago    Up 16
    minutes (healthy)    0.0.0.0:8484->8080/tcp
    cluedin_20221003_37b57369-clean-1
    cluedinprod.azurecr.io/cluedin/cluedin-micro-clean:2022.10.03
    "docker-entrypoint.s…"    clean           17 minutes ago    Up 16
    minutes          0.0.0.0:9009->8888/tcp
    cluedin_20221003_37b57369-datasource-1
```

```
cluedinprod.azurecr.io/cluedin/cluedin-micro-datasource:2022.10.03
"docker-entrypoint.s…"   datasource          17 minutes ago     Up 16
minutes              0.0.0.0:9014-9016->9014-9016/tcp, 0.0.0.0:9011->8888/tcp
cluedin_20221003_37b57369-documentation-1
cluedinprod.azurecr.io/cluedin/cluedin-micro-documentation:2022.10.03
"docker-entrypoint.s…"   documentation       17 minutes ago     Up 17
minutes              0.0.0.0:9021->8888/tcp
cluedin_20221003_37b57369-elasticsearch-1
cluedinprod.azurecr.io/elasticsearch/elasticsearch:7.8.0
"/tini -- /usr/local…"   elasticsearch       17 minutes ago     Up 17
minutes              0.0.0.0:9200->9200/tcp, 0.0.0.0:9300->9300/tcp
cluedin_20221003_37b57369-gql-1
cluedinprod.azurecr.io/cluedin/cluedin-ui-gql:2022.10.03
"docker-entrypoint.s…"   gql                 17 minutes ago     Up 16
minutes              0.0.0.0:8888->8888/tcp
cluedin_20221003_37b57369-grafana-1
cluedinprod.azurecr.io/grafana/grafana:9.1.4
"/run.sh"                grafana             17 minutes ago     Up 17
minutes              0.0.0.0:3030->3000/tcp
cluedin_20221003_37b57369-neo4j-1
cluedinprod.azurecr.io/cluedin/neo4j:2022.10.03
"tini -g -- /entrypo…"   neo4j               17 minutes ago     Up 16
minutes              0.0.0.0:7474->7474/tcp, 7473/tcp, 0.0.0.0:7687->7687/tcp
cluedin_20221003_37b57369-openrefine-1
cluedinprod.azurecr.io/cluedin/openrefine:2022.10.03
"/app/refine"            openrefine          17 minutes ago     Up 17
minutes              0.0.0.0:3333->3333/tcp
cluedin_20221003_37b57369-prometheus-1
cluedinprod.azurecr.io/prometheus/prometheus:v2.37.0
"/bin/prometheus --w…"   prometheus          17 minutes ago     Up 16
minutes              0.0.0.0:9090->9090/tcp
cluedin_20221003_37b57369-rabbitmq-1
cluedinprod.azurecr.io/bitnami/rabbitmq:3.10.8-debian-11-r4
"/opt/bitnami/script…"   rabbitmq            17 minutes ago     Up 17
minutes              4369/tcp, 5551-5552/tcp, 5671/tcp,
0.0.0.0:5672->5672/tcp, 0.0.0.0:15672->15672/tcp, 15671/tcp, 25672/tcp,
0.0.0.0:15692->15692/tcp
cluedin_20221003_37b57369-redis-1
cluedinprod.azurecr.io/bitnami/redis:6.2.7-debian-11-r11
"/opt/bitnami/script…"   redis               17 minutes ago     Up 17
minutes              0.0.0.0:6379->6379/tcp
cluedin_20221003_37b57369-seq-1
cluedinprod.azurecr.io/datalust/seq:2022.1
"/bin/seqentry"          seq                 17 minutes ago     Up 17
minutes              443/tcp, 45341/tcp, 0.0.0.0:5341->5341/tcp,
0.0.0.0:3200->80/tcp
cluedin_20221003_37b57369-server-1
cluedinprod.azurecr.io/cluedin/cluedin-server:2022.10.03
"sh ./boot.sh"           server              17 minutes ago     Up About a
minute       0.0.0.0:9000-9001->9000-9001/tcp, 0.0.0.0:9003->9003/tcp,
0.0.0.0:9006-9007->9006-9007/tcp, 0.0.0.0:9013->9013/tcp
cluedin_20221003_37b57369-smtp4dev-1
cluedinprod.azurecr.io/rnwood/smtp4dev:latest
"dotnet /app/Rnwood.…"   smtp4dev            17 minutes ago     Up 16
minutes              143/tcp, 0.0.0.0:2525->25/tcp, 0.0.0.0:25258->80/tcp
cluedin_20221003_37b57369-sqlserver-1
cluedinprod.azurecr.io/cluedin/sqlserver:2022.10.03
"sh -c 'mkdir -p /ms…"   sqlserver           17 minutes ago     Up 17
minutes              0.0.0.0:1433->1433/tcp
cluedin_20221003_37b57369-submitter-1
cluedinprod.azurecr.io/cluedin/cluedin-micro-submitter-node:2022.10.03
"docker-entrypoint.s…"   submitter           17 minutes ago     Up 16
minutes              0.0.0.0:9012->8888/tcp
cluedin_20221003_37b57369-ui-1
cluedinprod.azurecr.io/cluedin/ui:2022.10.03
"/docker-entrypoint.…"   ui                  17 minutes ago     Up 16
minutes              80/tcp, 0.0.0.0:9080->8080/tcp
cluedin_20221003_37b57369-webapi-1
cluedinprod.azurecr.io/cluedin/app:2022.10.03
"dotnet CluedIn.App.…"   webapi              17 minutes ago     Up 16
minutes              0.0.0.0:9008->9008/tcp

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
```

Try create org again - success!!!

Server log - create org success!!

```
[#035 02:37:53 INF] HTTP GET /status responded 200 in 20.9428 ms
[#035 02:38:14 INF] Created administrative account for admin@example.com for
example
[#051 02:38:14 INF] Creating default page templates for
50a1285f-9d46-48e5-8620-865b5663e4e2
[#007 02:38:15 INF] Populating page templates for
50a1285f-9d46-48e5-8620-865b5663e4e2
[#035 02:38:26 INF] Clue:
/Organization#CluedIn:50a1285f-9d46-48e5-8620-865b5663e4e2 was processed
successfully; Last result: Success
[#035 02:38:28 INF] Clue: /Infrastructure/User#CluedIn:14955b81-294d-490b-
a291-56123dd2ef79 was processed successfully; Last result: Success
```

[#035 02:38:28 INF] Registration clue processing completed successfully; Last result: Success
[#035 02:38:28 INF] New organization registered: example (example)
[#035 02:38:28 INF] HTTP POST /api/account/new responded 200 in 16048.4822 ms

Create org log

```
PS G:\rudi.harris\src\CluedIn-io\Home> .\cluedin.ps1
createorg 20221003 -Name example -Pass Wxio523!fdH
+----------------------------------+
| CluedIn - Create Organization [docker] |
+----------------------------------+

Active                       : True
ApplicationSubDomain         : example
CustomerId                   :
ExternalAuthenticationId     :
EmailDomainName              : example.com
Id                           :
50a1285f-9d46-48e5-8620-865b5663e4e2
IsEmailDomainSignupActivated : False
LastLoginTime                : 4/03/2023 2:38:13 AM
Name                         : example
Plan                         : 6749e7a5-
da15-47e2-918b-6a385e288865
PlanEndDate                  : 3/04/2023 2:38:13 AM
PlanIsActive                 : True
PlanStartDate                : 4/03/2023 2:38:13 AM
RefreshTokenLifeTime         : 14400
SubscriptionId               :

Email: admin@example.com
Password: Wxio523!fdH
```

Let's login to the front end - success!!!
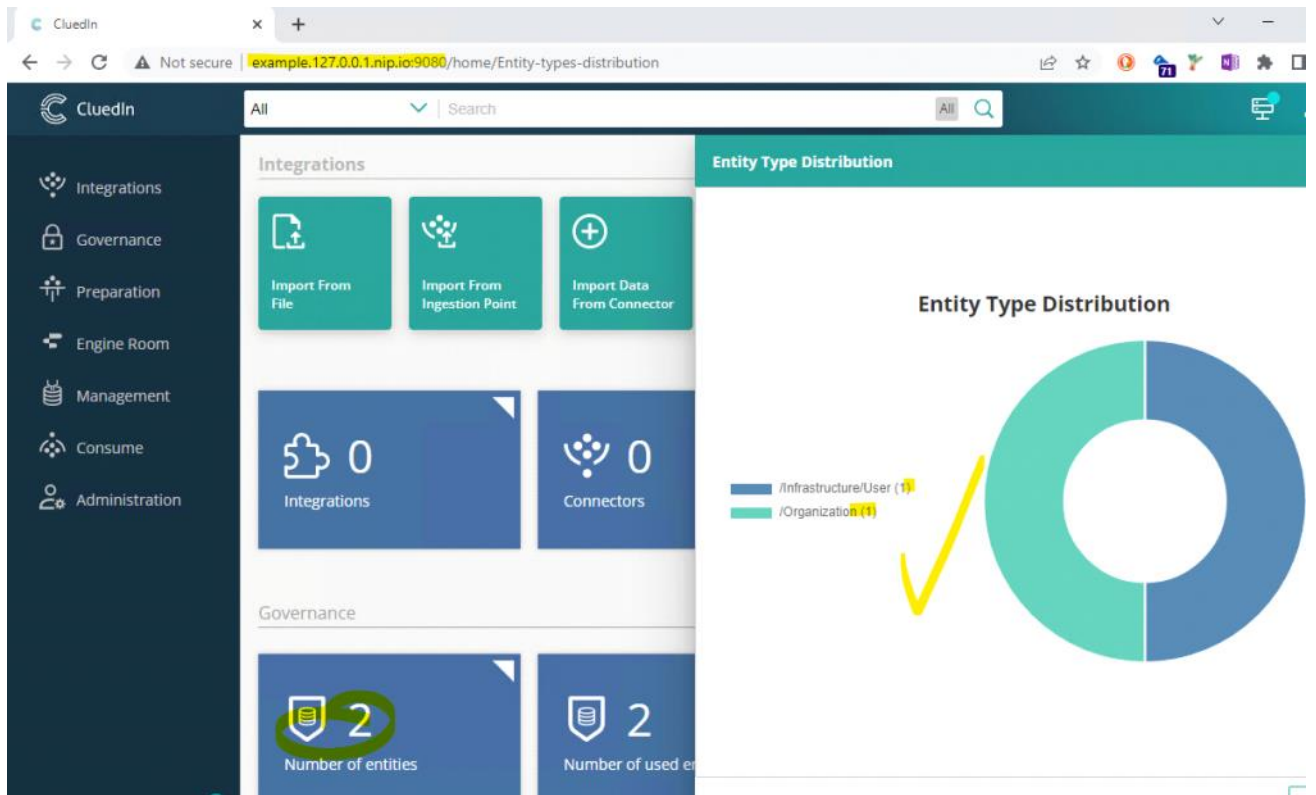
http://example.127.0.0.1.nip.io:9080/

Sign in

Welcome back, you are signing into the **example** account.

Email

admin@example.com

Password

••••••••••

Sign In

Check system status

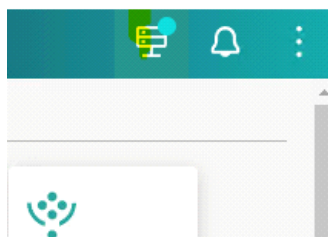System Healthchecks   ✕

Server ●   ›

Components ●   ›

Data Source Services ●   ›

Mapping Services ●   ›

Prepare Services ●   ›

Server ● ⌄

Type	Status
Blob	●
Configuration	●
Data	●
Search	●
Graph	●
Metrics	●

Components ● ⌄

Type	Status
Api	●
Authentication	●
Crawling	●
Scheduling	●
ServiceBus	●
System	●

Data Source Services ● ⌄

Type	Status
Search Database	●
Relational Database	●
Bus	●

Mapping Services ● ⌄

Type	Status
Relational Database	●
Bus	●

Prepare Services ● ⌄

Type	Status
Relational Database	●