How to enable libpostal in k8s GA3.3 and up

Friday, 18 March 2022 8:25 AM

Method

Libpostal has been packaged by CluedIn for deployment into a CluedIn k8s cluster, we need to enable the service and ensure the integration nuget package is loaded and then later configured in the UI.

References

A example values yaml	https://github.com/CluedIn- io/ImpTools/blob/master/k8s/pwsh/values.3.3.0.cluedin- platform-1.0.0.yml
A example helm upgrade script	https://github.com/CluedIn- io/ImpTools/blob/master/k8s/pwsh/helm_upgrade-3.3.0.ps1

Journal

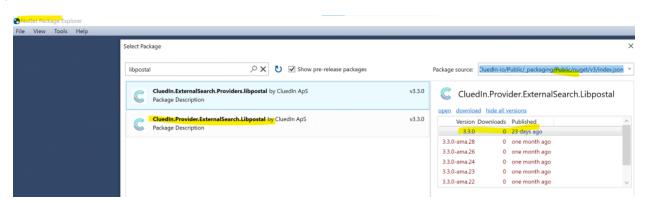
Edit your existing values yaml

elasticsearch:

enable the service - this is done at the same indent level as the UI service within the application section:

```
nodeSelector:
     kubernetes.cluedin.com/pooltype: general
    resources:
     limits:
       cpu: 750m
       memory: 512Mi
      requests:
        cpu: 250m
       memory: 256Mi
 # libpostal is disabled by default
 # need to load the plugin as well
 libpostal:
    enabled: true
    nodeSelector:
     kubernetes.cluedin.com/pooltype: process
infrastructure:
```

let's check with nuget package explorer against the public feed to best pick our libpostal integration version:



so add to the cluedin / components / packages section:

```
cluedin:
   components:
   packages:
        - name: CluedIn.Connector.SqlServer
        version: 3.3.0-*
        - name: CluedIn.Provider.ExternalSearch.Libpostal
        version: 3.3.0-*
   nodeSelector:
```

helm update to deploy

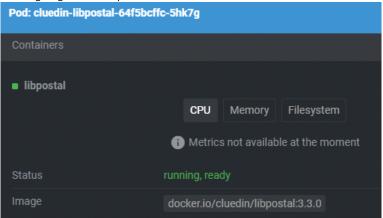
```
PS C:\rudi.harris\k8s\cluedin\apac-demo> cat .\helm_upgrade-3.3.0.ps1
helm_upgrade_cluedin-demo_cluedin/cluedin-platform \( \)
```

```
-n cluedin
--install
 -values values.3.3.0.cluedin-platform-1.0.0.yml
    PS C:\rudi.harris\k8s\cluedin\apac-demo> .\mathbb{helm_upgrade-3.3.0.ps1} Release "cluedin-demo" has been upgraded. Happy Helming!
     NAME: cluedin-demo
     LAST DEPLOYED: Thu Mar 17 23:56:39 2022
     NAMESPACE: cluedin
     STATUS: deployed
     REVISION: 9
    NOTES:
     =====[
             Mode
                                          [UPGRADE] [Revision: 9]
                                          cluedin-platform [v1.0.0]
     =====[
             Chart
     =====[
             Namespace
                                          cluedin
*.k1.cluedin.me
             Domain
     ====[ TLS
                                          [ENABLED] Cert Secret: ingress-cert-secret
             Global Image Tag
             Global Registry
Global Pull Policy
     =====[
                                        : docker.io
                                        : IfNotPresent
     =====
             Global ImagePullSecret .
             Global ServiceAccount : cluedin-serviceaccount
                                        : Production
: RollingUpdate
     =====[
             Global Environment
             Global Strategy
     =====[
     ====[
             Global UploadLimit
             CluedIn Server
                                        : docker.io/cluedin/cluedin-server:3.3.0
     =====[
             CluedIn Nuget Install : docker.io/cluedin/nuget-installer:3.3.0
     =====
             CluedIn Controller
                                          docker.io/cluedin/controller:3.3.0
                                          docker.io/cluedin/cluedin-micro-annotation:3.3.0 docker.io/cluedin/cluedin-micro-clean:3.3.0
     =====
             Annotation
     =====
             Prepare
                                        : docker.io/cluedin/cluedin-micro-datasource:3.3.0
     =====[
             DataSource
                                          docker.io/cluedin/cluedin-micro-submitter-node:3.3.0
     ====Ē
             Submitter
                                          docker.io/cluedin/cluedin-ui-gql:3.3.0
docker.io/cluedin/ui:3.3.0
             GQL
     ====[
     =====[
             UI
     ====[
             WebAPI
                                          docker.io/cluedin/app:3.3.0
                                          docker.io/groundnutv/k8s-wait-for:v1.3
     =====[
             InitWait
             InitCleanUp
                                        : docker.io/bitnami/kubectl:latest
     =====
     =====[
             InitSOL
                                        : docker.io/cluedin/salserver-init:3.3.0
     ====[ InitNeo4J
                                          docker.io/cluedin/neo4j-init:3.3.0
     ====:
     =====[
             SQL Server
                                        : mcr.microsoft.com/mssql/server:2017-latest
     ===== [
             OnenRefine
                                        : docker.io/cluedin/openrefine:3.3.0
                                        : docker.elastic.co/elasticsearch/elasticsearch:7.8.0
     =====[
             ElasticSearch
     ===== [
             Neo4J
                                        : neo4j:3.5.30
     =====[
             RabbitMQ
                                        : docker.io/bitnami/rabbitmq:3.9.11-debian-10-r28
                                          docker.io/bitnami/redis:6.2.6-debian-10-r81
     -----
             Redis
             AlertManager
     =====[
                                        : quav.io/prometheus/alertmanager:v0.23.0
             Prometheus
                                          quay.io/prometheus/prometheus:v2.31.1
     =====[
             Grafana
                                          grafana/grafana:8.2.3
     ====[ Prometheus Operator
                                          quay.io/prometheus-operator/prometheus-operator:v0.52.0
     ====[ Cluedin
                                        . [theotic]:
| Main ♥ - Processing ♥ - Crawling ⊗
| AuthenticationStore (DataStore.Db.Authentication) - User:
     ====[ Roles
     ====[ Connection (mssal)
     clientUser
                                          AuditLog (DataStore.Db.AuditLog) - User: clientUser
BlobStorage (DataStore.Db.BlobStorage) - User: clientUser
     ====[ Connection (mssql)
     ====[ Connection (mssql)
     ====[ Connection (mssql)
                                        : ConfigurationStore (DataStore.Db.Configuration) - User:
     clientUser
        ===[ Connection (mssql)
                                        : CluedInEntities (DataStore.Db.OpenCommunication) - User:
     clientUser
     ====[ Connection (mssql)
                                          TokenStore (DataStore.Db.TokenStore) - User: clientUser
                                          Training (DataStore.Db.Training) - Úser: clientUser
ExternalSearch (DataStore.Db.ExternalSearch) - User:
     ====[ Connection (mssal)
       ====[ Connection (mssql)
     clientUser
                                        : ML-Logging (DataStore.Db.ML-Logging) - User: clientUser
: Metrics (DataStore.Db.Metrics) - User: clientUser
     ====[ Connection (mssql)
     ===== [
             Connection (mssql)
Connection (mssql)
                                          Metrics (DataStore.Db.Metrics) - User: clientUser
WebAppStore (DataStore.Db.WebApp) - User: clientUser
     =====[
                                            : MessageBus () - User: cluedin
: MessageBusManagement () - User: cluedin
            Connection (rabbitmq)
Connection (rabbitmq)
     ====i
     =====[
                                          : SignalRScaleOut () - User: cluedin
GRAPHSTORE_READ () - User: neo4j
GRAPHSTORE_WRITE () - User: neo4j
             Connection (rabbitmq)
     =====İ
             Connection (neo4i)
             Connection (neo4j)
     -----
                                          CACHESTORE () - User: redis
ETAGSTORE () - User: redis
JOBSTORE () - User: redis
DATAPROTECTIONPERSISTENCE () - User: redis
     ===== [
             Connection (redis)
             Connection (redis)
     ====[
     ===== [
             Connection (redis)
Connection (redis)
     ====[
     ====[ Connection (elasticsearch)
                                                 : SEARCHSTORE () - User: elastic
     =====
             SQL SERVER
     ----r
                                        : [ENABLED]
                                          cluedin-sqlserver
     ====[
             Host Name
             Host Port
                                        : 1433
     =====[
             TimeOut
                                        : 15
             Encrypted ?
     ====[
     ====Ē
            Extra Parameters
                                        : MultipleActiveResultSets=True;Max Pool Size=
     200; Pooling=True;
     ====[ User
                                        : clientUser (cluedin-sqlserver-clientuser-secret)
                                        : sa (cluedin-sqlserver-secret)
     ====[ User
     ====[ OpenRefine
                                        : [ENABLED]
             Host Name
                                          cluedin-openrefine
     ====[ Host Port
                                        : 3333
                                        : [ENABLED]
     =====[ Redis
     ====[ Host Name
                                          cluedin-redis-master
     ====[ Host Port
                                        : 6379
```

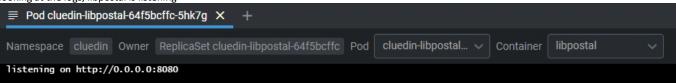
```
====[ Encrypted ?
                                 : false
                                 : cluedin-redis (redis-password)
====[ User Secret
                                 : [ENABLED]
====[ Neo4J
       Host Name
                                 : cluedin-neo4j
====[ Host HTTP Port
====[ Host BOLT Port
                                 : 7474
: 7687
====[ User
====[ User Secret
                                 : cluedin-neo4i-secrets (neo4i-password)
                                : [ENABLED]
: cluedin-elasticsearch
=====[ ElasticSearch
====[ Host Name
====[ Host Port
====[ User Secret
                                 : 9200
                                 : elasticsearch-credentials (password)
=====
====[ RabbitMQ
                                : [ENABLED]
====[ Host Name
====[ Host Port
                                 : cluedin-rabbitmq
: 5672
====[ User
                                 : cluedin
====[ User Secret
                                 : cluedin-rabbitmq (rabbitmq-password)
                           : [YES => cluedin]
: [DISABLED]
====[ Bootstrap Org ?
```

observe the k8s change in response in lens - https://k8slens.dev/

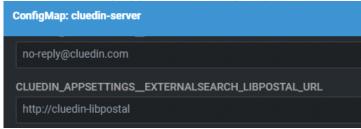
the image tag of the new pod



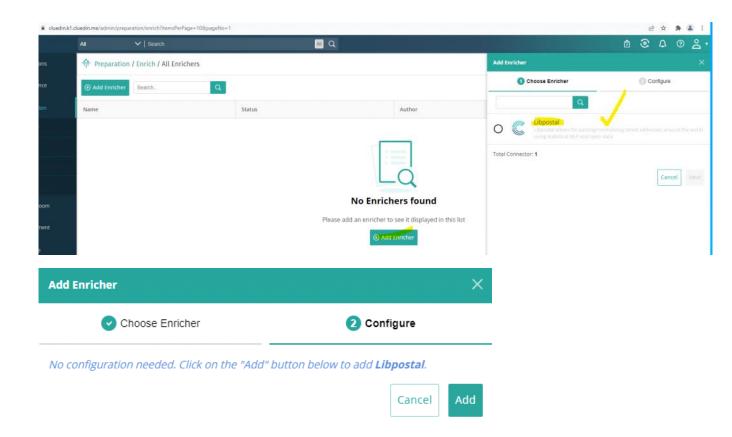
looking at the logs, libpostal is listening



our cluedin server configmap points to our local libpostal pod



observe in UI and add the integration





Libpostal - a17f16cc-753c-4840-8798-41175e840cb4

Settings Permissions

Settings

Display Name*

User friendly name for your enricher

Libpostal enricher

Source

Description of this source to help CluedIn classifying this data.

Created by A admin@cluedin.com

Logistics

Source Quality

The "Quality of data" value is a weighting value used by the Cluedln engine to determine, when comparing values from different providers, which value should win over the other.

Lower Quality Higher Quality

Authentication

No authentication information for **Libpostal**.

