

# 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	<a href="https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/values.3.3.0.cluedin-platform-1.0.0.yml">https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/values.3.3.0.cluedin-platform-1.0.0.yml</a>
A example helm upgrade script	<a href="https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/helm_upgrade-3.3.0.ps1">https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/helm_upgrade-3.3.0.ps1</a>

## Journal

Edit your existing values yaml

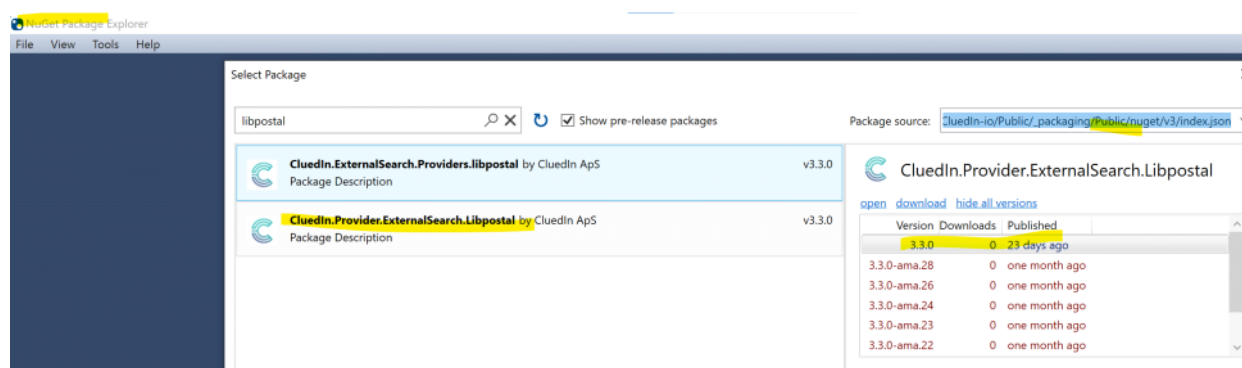
enable the service - this is done at the same indent level as the UI service within the application section:

```
ui:
  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:
  elasticsearch:
```

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



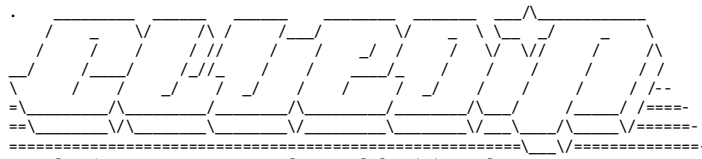
so add to the cluedin / components / packages section:

```
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
```

```
PS C:\rudi.harris\k8s\cluedin\apac-demo> .\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:
```



Examples Page 2

```

=====
=====[ Encrypted ?      : false
=====[ User Secret      : cluedin-redis (redis-password)
=====
=====[ Neo4j            : [ENABLED]
=====[ Host Name         : cluedin-neo4j
=====[ Host HTTP Port    : 7474
=====[ Host BOLT Port    : 7687
=====[ User              : neo4j
=====[ User Secret       : cluedin-neo4j-secrets (neo4j-password)
=====
=====[ ElasticSearch     : [ENABLED]
=====[ Host Name         : cluedin-elasticsearch
=====[ Host Port         : 9200
=====[ User Secret       : elasticsearch-credentials (password)
=====
=====[ RabbitMQ          : [ENABLED]
=====[ Host Name         : cluedin-rabbitmq
=====[ Host Port         : 5672
=====[ User              : cluedin
=====[ User Secret       : cluedin-rabbitmq (rabbitmq-password)
=====
=====[ Bootstrap Org ?   : [YES => cluedin]
=====[ SSO                : [DISABLED]
=====

```

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

libpostal pod started and cluedin server based pods restarting

Name	Containers	Restarts	Node	Age	Status
cluedin-server-7c9fdb77fd-c4kzt	4	0	aks-datapool-17590510-vmss0000	32s	Pending
cluedin-server-processing-5d3fdb6bbb-69vd9	4	0	aks-processpool-17590510-vmss0000	36s	Pending
init-neo4j-job-s7w87	1	0	aks-generalpool-17590510-vmss0000	71s	Succeeded
init-sqlserver-job-88nt9	1	0	aks-generalpool-17590510-vmss0000	71s	Succeeded
cluedin-libpostal-64f5bcffc-5hk7g	1	0	aks-processpool-17590510-vmss0000	73s	Running
cluedin-ai-c969d466c-7z76d	1	0	aks-generalpool-17590510-vmss0000	3d12h	Running
cluedin-haproxy-ingress-d6dfc9c4f9-df3oy	1	0	aks-datapool-17590510-vmss0000	3d12h	Running

the image tag of the new pod

Pod: cluedin-libpostal-64f5bcffc-5hk7g

Containers

libpostal

CPU Memory Filesystem

Metrics not available at the moment

Status running, ready

Image docker.io/cluedin/libpostal:3.3.0

looking at the logs, libpostal is listening

Pod cluedin-libpostal-64f5bcffc-5hk7g X +

Namespace cluedin Owner ReplicaSet cluedin-libpostal-64f5bcffc Pod cluedin-libpostal... Container libpostal

listening on http://0.0.0.0:8080

our cluedin server configmap points to our local libpostal pod

ConfigMap: cluedin-server

no-reply@cluedin.com

CLUEDIN\_APPSETTINGS\_\_EXTERNALSEARCH\_LIBPOSTAL\_URL

http://cluedin-libpostal

observe in UI and add the integration

cluedin.k1.cluedin.me/admin/preparation/enrich?itemsPerPage=10&pageNo=1

Preparation / Enrich / All Enrichers

Add Enricher

Name	Status	Author
------	--------	--------

No Enrichers found

Please add an enricher to see it displayed in this list

Add Enricher

Add Enricher

1 Choose Enricher

2 Configure

Libpostal

Libpostal allows for parsing/normalizing street addresses around the world using statistical NLP and open data.

Total Connector: 1

Cancel Next

Add Enricher

1 Choose Enricher

2 Configure

No configuration needed. Click on the "Add" button below to add **Libpostal**.

Cancel Add



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

Created by admin@cluedin.com

### Settings

### Permissions

### Settings

#### Display Name\*

User friendly name for your enricher

Libpostal enricher

#### Source

Description of this source to help CluedIn classifying this data.

Logistics

#### Source Quality

The "Quality of data" value is a weighting value used by the CluedIn 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**.

Settings

Permissions

+ Add Users

Search...

Q

<input type="checkbox"/>	User Name	Roles
<input type="checkbox"/>	admin@cluedin.com	<div>CluedIn Administrator</div> <div>Admin</div>

● Active

Cancel

Save

cluedin.k1.cluedin.me/admin/preparation/enrich?itemsPerPage=10&pageNo=1

All

Search

Preparation / Enrich / All Enrichers

+ Add Enricher

Search...

Q

Name	Status
<div><div></div><div>Libpostal</div><div>Libpostal enricher</div></div>	<div>● Active</div>