# Clues Not Processing Troubleshooting Guide

Monday, 24 January 2022 11:18 AM

24 Jan 2022 uploaded to <a href="https://github.com/CluedIn-io/ImpTools/tree/master/k8s/pwsh">https://github.com/CluedIn-io/ImpTools/tree/master/k8s/pwsh</a>

# **Purpose**

To ensure clue processing is flowing through the system.

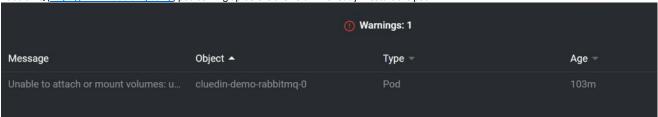
# Things to Check

### Methods:

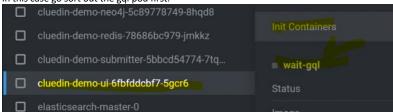
- Connect to your k8s cluster with Lens (externely helpful! see <a href="https://k8slens.dev/">https://k8slens.dev/</a>)
- Use kubectl on the command line with powershell see <a href="https://github.com/CluedIn-io/ImpTools/tree/master/k8s/pwsh">https://github.com/CluedIn-io/ImpTools/tree/master/k8s/pwsh</a> for some sample scripts
- Azure Portal (<a href="https://portal.azure.com/">https://portal.azure.com/</a>)

### Check the Overall status

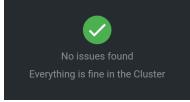
RabbitMQ (https://www.rabbitmq.com/) pod coming up before the volumn is ready - restart the pod



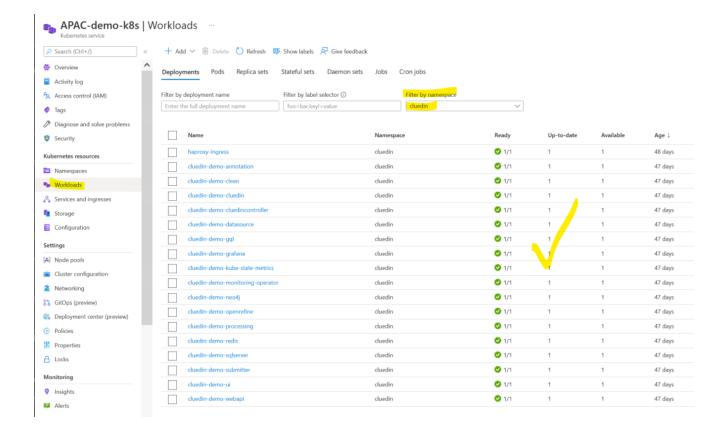
Pod is waiting for another pod to be available - this is how the start up dependancies are expressed. In this case go sort out the gql pod first.



If all is okay pod wise, expect to see this



Also in the Azure Portal - check the workloads



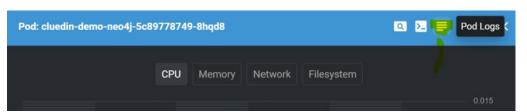
### Using kubectl

 $\underline{https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/gp.ps1} - get \ pods$ 

check for restarts as a sign of issues and also the STATUS column (in this case we had some issues, but they have been resolved).

PS C:\rudi.harris\src\CluedIn-io\ImpTools\k8s\pwsh> cat .\gp.ps1 PS C:\rudi.harris\src\CluedIn-io\ImpTools\k8s\pwsh> .\gp.ps1 NAME READY STATUS RESTARTS alertmanager-cluedin-demo-monitoring-alertmanager-0 2/2 Running 2d21h cluedin-demo-annotation-84764c8df9-6tnvk cluedin-demo-clean-66b64c7578-b8z4w Running Running 1/1 2d21h 1/1 2d21h cluedin-demo-cluedin-9f6cf9c6d-rr8z5 1/1 Running 2d21h cluedin-demo-cluedincontroller-65bd75f4b9-9sdzd cluedin-demo-datasource-6b75cd87d8-mb977 1/1 1/1 2d21h 2d21h Running Running cluedin-demo-gql-5bf88c9dd9-5jbvt
cluedin-demo-grafana-86c89f8454-gn82s 1/1 Running 2d21h 2/2 Running 2d21h cluedin-demo-kube-state-metrics-5d5bdd975-w2pn6 1/1 Running 2d21h cluedin-demo-monitoring-operator-555c9bff9c-pm49b cluedin-demo-neo4j-5c89778749-8hqd8 cluedin-demo-openrefine-58d66f5979-g2qmr 2d21h 2d21h 1/1 Running 1/1 Running 1/1 Running 2d21h cluedin-demo-processing-764659974b-r8bqx 1/1 1/1 Running 2d21h cluedin-demo-prometheus-node-exporter-f5vz4 3h30m Running cluedin-demo-prometheus-node-exporter-ndcmf cluedin-demo-prometheus-node-exporter-p6r71 1/1 1/1 Running 3h29m Running cluedin-demo-prometheus-node-exporter-sx658 1/1 Running 3h29m cluedin-demo-prometheus-node-exporter-wd855 cluedin-demo-prometheus-node-exporter-x2fms 1/1 1/1 Running 3h29m 3h30m Running cluedin-demo-rabbitmq-0 cluedin-demo-redis-78686bc979-jmkkz cluedin-demo-sqlserver-847f8c6594-2b767 1/1 1/1 Running 8m51s Running 2d21h 2d21h 1/1 Running cluedin-demo-submitter-5bbcd54774-7tqsv 1/1 Running 2d21h cluedin-demo-ui-6fbfddcbf7-5gcr6 Running 2d21h cluedin-demo-webapi-5686697599-gwqcp 1/1 Running Running 2d21h elasticsearch-master-0 haproxy-ingress-5c9cb6796f-p9v6n 1/1 2d21h 2d21h Running prometheus-cluedin-demo-monitoring-prometheus-0 Running 2d21h

### Check logs



Main server pod, processing pod, neo4j pod - these are the best 3 to start with Look for out of memory issues in neo4j Look for C# error stacks and errors in the others

```
Pod cluedin-demo-cluedin-9f6cf9c6d-r... X = Pod cluedin-demo-processing-764659... X = Pod cluedin-demo-neo4j-5c89778749-... X +

Namespace cluedin Pod cluedin-demo-ne... V Container neo4j V Search...

2022-01-24 01:26:37.919+0000 WARN Unknown config option: causal_clustering.transaction_listen_address
2022-01-24 01:26:37.928+0000 INFO Starting...

creating initial indexes and constraints

connection refused
2022-01-24 01:26:44.918+0000 INFO Bolt enabled on 0.0.0.0:7687.
2022-01-24 01:26:46.034+0000 INFO Started.

2022-01-24 01:26:46.152+0000 WARN Acceptors should be <= availableProcessors: ServerConnector@7b74883{HTTP/1.1, (http/1.1)}{0.0.0.0:0}
2022-01-24 01:26:46.160+0000 WARN Acceptors should be <= availableProcessors: ServerConnector@280b9922{SSL, (ssl, http/1.1)}{0.0.0.0:0}
2022-01-24 01:26:46.793+0000 INFO Remote interface available at http://localhost:7474/
Creating initial indexes and constraints

0 rows available after 25 ms, consumed after another 0 ms
```

Alternatively, use the kubectl command under git bash (so the coloured logs are shown correctly - https://gitforwindows.org/)

-1 can be used to reference the pod using a label - or use the pod name from the get pods command

The below example is show the logs for the server (i.e. role=main) starting from 15 minutes ago and -f for follow the log as new entries come in

```
MINGW64:/c/Users/rudi
      Rubect] logs -| role=main --since=15m -f
| 05:05:10 VRB][c]uedIn.core.ExecutionContext] Job Queue : [0] - OrgId: [null] - AgentId: [null] - AgentGroupId:
| [d1238808-b8d4-4fd3-a5f7-959f5a1895a2]
           L238608-D8d4-4103-4317-95915aL89342]
:05:10 VRB][CluedIn.Server.Agent.AgentControllerComponent] [0] AgentGroupJobs found.
:05:10 VRB][CluedIn.Core.ExecutionContext] Job Queue : [0] - OrgId: [null] - AgentId: [null] - AgentGroupId:
       nu111
   [NUIT]
(05:05:10 VRB][cluedIn.Server.Agent.AgentControllerComponent] [0] SharedJobs found.
(05:05:12 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDDV" accepted.
(05:05:12 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDDV" started.
(05:05:12 DBG][Microsoft.AspNetCore.Server.Kestrel.Transport.Sockets] Connection id "OHMEUR51HUDDV" received FI
     .05:05:12 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDDV" disconnecting.
05:05:12 DBG][Microsoft.AspNetCore.Server.Kestrel.Transport.Sockets] Connection id "OHMEUR51HUDDV" sending FIN because: "The client closed the connection."
   because: "The client closed the connection."

[05:05:12 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDDV" stopped.

[05:05:14 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDEO" accepted.

[05:05:14 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDEO" started.

[05:05:14 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDEO" disconnecting.

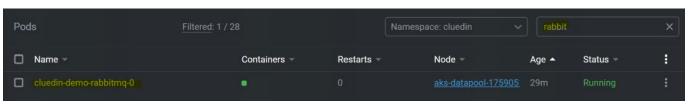
[05:05:14 DBG][Microsoft.AspNetCore.Server.Kestrel] Connection id "OHMEUR51HUDEO" stopped.

[05:05:14 DBG][Microsoft.AspNetCore.Server.Kestrel.Transport.Sockets] Connection id "OHMEUR51HUDEO" sending FIN because: "The Socket transport's send loop completed gracefully."

[05:05:15 VRB][cluedIn.Core.ExecutionContext] Job Queue : [0] - OrgId: [null] - AgentId: [cd71757d-17a1-4d85-92]

[05:05:15 VRB][cluedIn.Core.ExecutionContext] Job Queue : [0] - OrgId: [null] - AgentId: [cd71757d-17a1-4d85-92]
 Here is a few examples of labels:
 rudi@RudiWin10MBP MiNGW64 /c/rudi.harris/src/CluedIn-io/ImpTools/k8s/pwsh (master)
 $ grep "\-1" restart*.ps1
$ grep "\-l" restart*.ps1
restart_ingress_ui.ps1:kubect1 delete pod -l app.kubernetes.io/name=haproxy-ingress
restart_ingress_ui.ps1:kubect1 delete pod -l app=ui
restart_main_processing_crawling.ps1:kubect1 delete pod -l role=main
restart_main_processing_crawling.ps1:kubect1 delete pod -l role=processing
restart_main_processing_crawling.ps1:kubect1 delete pod -l role=processing
restart_main_processing_crawling.ps1:kubect1 delete pod -l role=crawling
restart_main_processing_crawling.ps1:kubect1 delete pod -l app.kubernetes.io/name=rabbitmq
restart_submitter.ps1:kubect1 delete pod -l app=submitter
 These can be found under labels in lens
                                                                                                                                                                                                                             Q 🛂 🗏 🧪 🧻
      Pod: cluedin-demo-cluedin-9f6cf9c6d-rr8z5
       Labels
                                                                                           app=cluedin pod-template-hash=9f6cf9c6d release=cluedin-demo
                                                                                           role=main
or use kubectl describe pod <pod name>
and search for the labels section:
               Labels:
                                                            app=cluedin
                                                             pod-template-hash=9f6cf9c6d
                                                             release=cluedin-demo
```

Check the queues in RabbitMQ

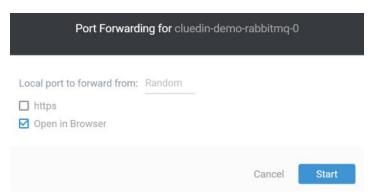


Select then scroll to the Ports section

role=main



Click Forward for the stats port - accept defaults then click Start

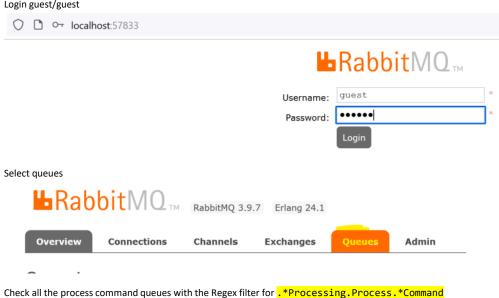


# Or do the port forwarding using kubectl

https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/pf\_rmq.ps1 PS C:\rudi.harris\src\CluedIn-io\ImpTools\k8s\pwsh> <mark>.\pf\_rmq.p</mark> label is "app.kubernetes.io/name=rabbitmq", looking up name... name is "pod/cluedin-demo-rabbitmq-0" Forwarding from 127.0.0.1:15672 -> 15672 Forwarding from [::1]:15672 -> 15672

And open your browser to <a href="http://localhost:15672/">http://localhost:15672/</a>

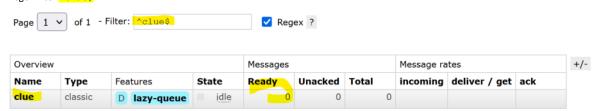




Filter: .\*Processing.Process 🗸 Regex



And also for the clue queue Regex filter ^clue\$



If Ready is all zeros then the submitter has not submitted any clues

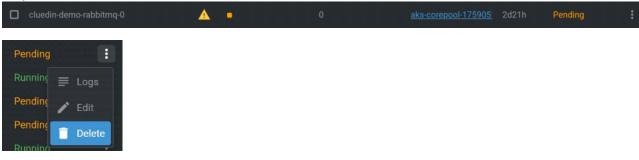
If Ready is non-zero then we expect that number to go down over time - if it is not going down then it's time to restart the processing pod - see Things to Try below for the method

Restart processing pod

# Things to Try

Restarting pods

RabbitMQ pod



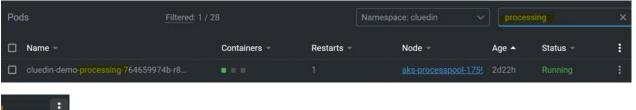
Or using kubectl and Powershell

https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart\_rmg.ps1

kubectl delete pod -1 app.kubernetes.io/name=rabbitmq

Processing pod (and the other main pods)







Or using kubectl and Powershell

see the processing role line from <a href="https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart\_main\_processing\_crawling.ps1">https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart\_main\_processing\_crawling.ps1</a> kubectl delete pod -1 role=processing

### Restart submitter pod

https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart\_submitter.ps1

 ${\tt kubectl\ delete\ pod\ -l\ app=submitter}$ 

Likewise, restart neo4j or gql

### Restart by group

Restart the main pod (server), the processing pod and the crawling pod

https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart main processing crawling.ps1

kubectl delete pod -l role=main kubectl delete pod -l role=processing kubectl delete pod -l role=crawling

### Restart the Ingress and UI

 $\underline{https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart\ ingress\ ui.ps1}$ 

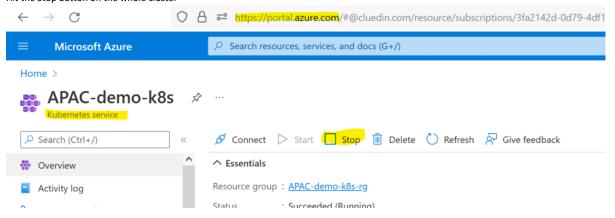
### If All Else Fails

 $\underline{https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart\_main\_processing\_crawling.ps1}$ 

kubectl delete pod -l role=main
kubectl delete pod -l role=processing
kubectl delete pod -l role=crawling

Likewise, restart neo4j or gql

Hit the Stop button on the whole cluster



Wait until you are notified that everything has stopped.

Wait some more...

Then when you think it's ready, hit the Start button and start from the top of this advice to troubleshoot the pods as they start up - this takes 15 to 20 minutes typically.