Clues Not Processing Troubleshooting Guide

Monday, 24 January 2022 11:18 AM

24 Jan 2022 uploaded to https://github.com/CluedIn-io/ImpTools/tree/master/k8s/pwsh

Purpose

To ensure clue processing is flowing through the system.

Things to Check

Methods:

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

Check the Overall status

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



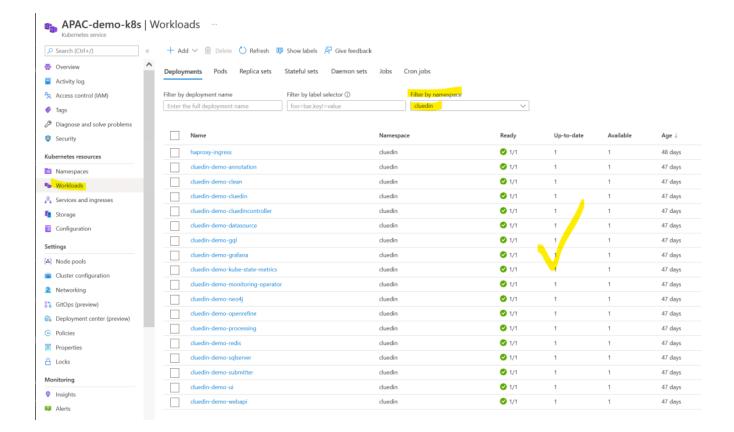
Pod is waiting for another pod to be available - this is how the start up dependancies are expressed. In this case go sort out the gql pod first.



If all is okay pod wise, expect to see this



Also in the Azure Portal - check the workloads



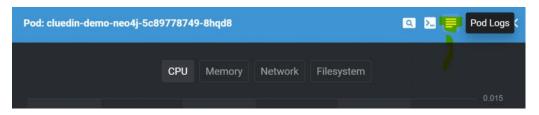
Using kubectl

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 kubectl get pods
PS C:\rudi.harris\src\CluedIn-io\ImpTools\k8s\pwsh> .\gp.ps1 NAME STATUS RESTARTS AGE alertmanager-cluedin-demo-monitoring-alertmanager-0 cluedin-demo-annotation-84764c8df9-6tnvk 2d21h 2d21h Running 1/1 Running cluedin-demo-clean-66b64c7578-b8z4w cluedin-demo-cluedin-9f6cf9c6d-rr8z5 Running Running 2d21h 2d21h cluedin-demo-cluedincontroller-65bd75f4b9-9sdzd 1/1 Running 2d21h cluedin-demo-datasource-6b75cd87d8-mb977 cluedin-demo-gql-5bf88c9dd9-5jbvt Running 2d21h 1/1 Running 2d21h cluedin-demo-grafana-86c89f8454-gn82s cluedin-demo-kube-state-metrics-5d5bdd975-w2pn6 2/2 1/1 Running Running 2d21h 2d21h cluedin-demo-monitoring-operator-555c9bff9c-pm49b cluedin-demo-neo4j-5c89778749-8hqd8 cluedin-demo-openrefine-58d66f5979-g2qmr 1/1 Running 2d21h Running 1/1 Running 2d21h cluedin-demo-processing-764659974b-r8bqx cluedin-demo-prometheus-node-exporter-f5vz4 1/1 1/1 Running Running 2d21h 3h30m cluedin-demo-prometheus-node-exporter-ndcmf cluedin-demo-prometheus-node-exporter-p6r7l 1/1 Running 3h29m Running 3h30m 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 Running 3h29m 3h30m cluedin-demo-rabbitma-0 1/1 Running 8m51s cluedin-demo-redis-78686bc979-jmkkz Running 2d21h cluedin-demo-salserver-847f8c6594-2b767 Running 2d21h cluedin-demo-submitter-5bbcd54774-7tqsv cluedin-demo-ui-6fbfddcbf7-5gcr6 Running Running 2d21h 2d21h cluedin-demo-webapi-5686697599-gwqcp elasticsearch-master-0 haproxy-ingress-5c9cb6796f-p9v6n Running Running 1/1 2d21h 2d21h Running 2d21h prometheus-cluedin-demo-monitoring-prometheus-0 Running 2d21h

Check logs

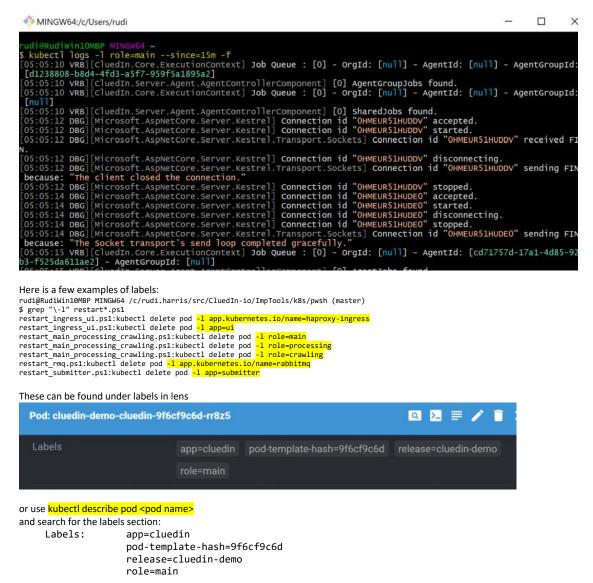


Main server pod, processing pod, neo4j pod - these are the best 3 to start with Look for out of memory issues in neo4j Look for C# error stacks and errors in the others

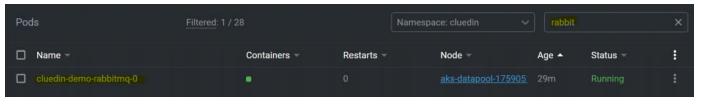
Alternatively, use the kubectl command under git bash (so the coloured logs are shown correctly - https://gitforwindows.org/)

-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



Check the queues in RabbitMQ



Select then scroll to the Ports section



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> .\pf_rmq.ps1
label is "app.kubernetes.io/name-io", looking up name...
name is "pod/cluedin-demo-rabbitmq-0" Forwarding from 127.0.0.1:15672 -> 15672 Forwarding from [::1]:15672 -> 15672

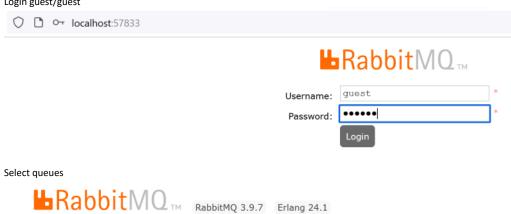
And open your browser to http://localhost:15672/

Connections

Filter: .*Processing.Process ✓ Regex



Overview



Exchanges

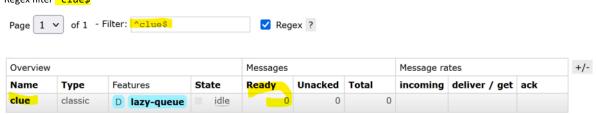
Admin

Check all the process command queues with the Regex filter for **Processing.Process.*Command

Channels



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

Things to Try

Restarting pods

RabbitMQ pod

□ cluedin-demo-rabbitmq-0

Pending :

Runnin □ Logs

Or using kubectl and Powershell

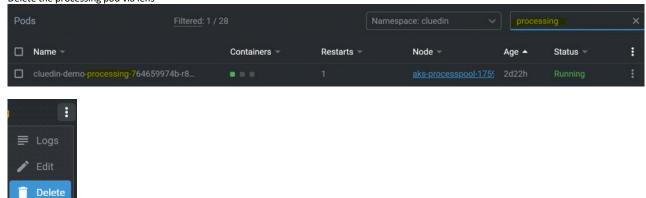
Delete

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

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

Processing pod (and the other main pods)

Delete the processing pod via lens



Or using kubectl and Powershell

see the processing role line from https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart main processing crawling.ps1 kubectl delete pod -1 role=processing

Restart submitter pod

https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart_submitter.ps1
kubect1 delete pod -1 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

https://github.com/CluedIn-io/ImpTools/blob/master/k8s/pwsh/restart_ingress_ui.ps1

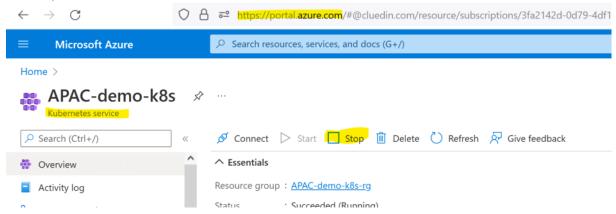
If All Else Fails

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.