Troubleshooting: Controlplane

Unit 3.4.2

Troubleshooting Controlplane Nodes

The control plane is where the cluster-wide API and logic engines run.

We can check that these are running correctly by first looking at their logs, and like in the previous unit, we do this on the hosts themselves.

Some of the components use leader election, so only one at a time is handling the requests. Before we can analyze the log data, we first need to determine which is the leader.

Armed with this information, we can head over to the specific node where the leader is running and pull log data from the docker containers.

The API server will handle requests with all of its containers, similar to the Rancher API we looked at earlier. To pull its log data we can look at each of the nodes, but because any one of them might be the source of the issue, we'll have to look at the logs for every container.

References

Troubleshooting Controlplane Nodes - https://rancher.com/docs/rancher/v2.x/en/troubleshooting/kubernetes-components/controlplane/