Troubleshooting Worker Nodes

Lab 16

What are you Learning?

In this lesson you'll be troubleshooting Kubernetes worker nodes.

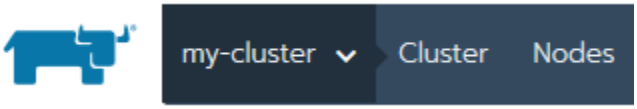
Why is it important?

Worker nodes are where your applications will run. If there's a problem with enough worker nodes, application availability and more importantly customer experience will be affected.

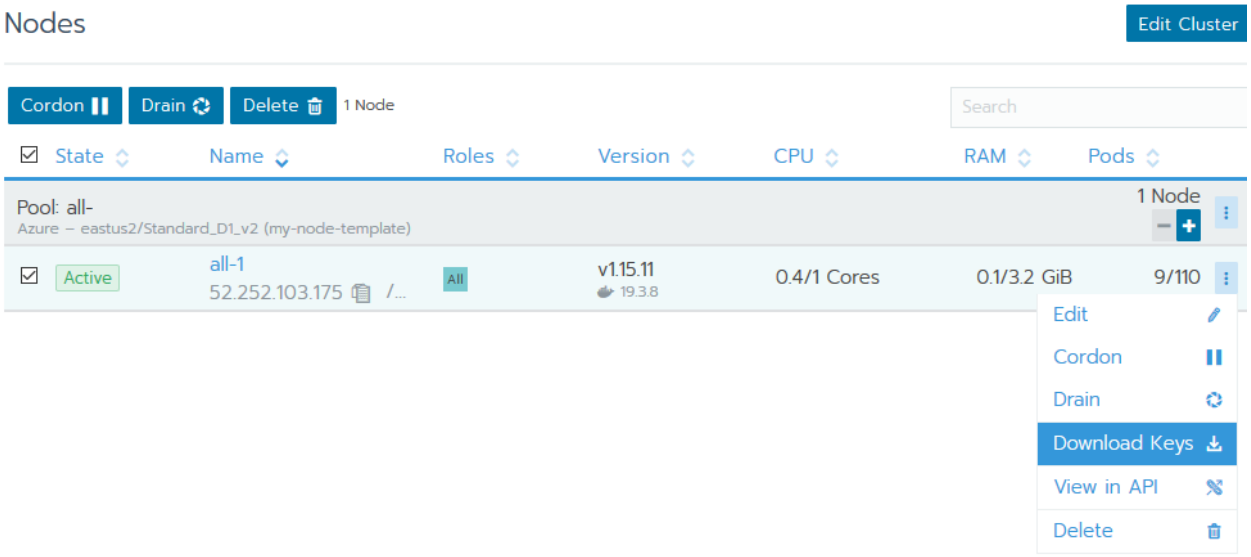
Troubleshooting Worker Nodes

1. You'll need node access to the worker nodes. For nodes provisioned with Rancher via an infrastructure provider, you can download the SSH keys.
2. For the cluster you'll be diagnosing,

3. Navigate to nodes



4. Select Download Keys



5. Once you've connected via SSH, you're going to look at the logs in Docker.
6. Worker nodes have two processes that manage application state, and connect to Docker. These are kubelet and kube-proxy.
7. Make sure these containers are up.
8. Check their logs for any other runtime issues affecting these processes.

Testing That it Works

If you're able to deploy applications to Kubernetes, things are likely working. At any time, you can review the Nodes screen, or the Cluster screen and see the health of your various nodes.

References

- Worker Nodes - https://rancher.com/docs/rancher/v2.x/en/overview/concepts/#worker-nodes
- Nodes - https://kubernetes.io/docs/concepts/architecture/nodes/
- Troubleshooting Worker Nodes and Generic Components - https://rancher.com/docs/rancher/v2.x/en/troubleshooting/kubernetes-components/worker-and-generic/