**MiniKube**

The initial process of getting MiniKube up and running was actually tricky for me. When I made this vm, I didn’t think we would exceed the default storage size that VMWare recommends, which was 20g, so I didn’t bother increasing them. The problem is that MiniKube recommends 20gbs of storage space for jusut MiniKube which is my entire allocated space. My solution to this was to extend the size of my hard drive and follow a guide to fix the size on my partition.

A screenshot of a computer

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https://www.rootusers.com/how-to-increase-the-size-of-a-linux-lvm-by-expanding-the-virtual-machine-disk/

I immediately ran into issues with getting minikube to select a driver so I had to activate myself to the docker group with **newgrp docker.** Then after that command I had to download the docker driver to use with minikube using **minikube start --driver=docker**

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After that I ran **minikube config set driver docker** to set that driver for the default driver. After this I need to get kubectl so I run **minikube kubectl -- get po -A.** Then I opened a minikube dashboard with **minikube dashboard –url**  and after I create a deployment of the hello-node with **kubectl create deployment hello-node --image=registry.k8s.io/e2e-test-images/agnhost:2.39 -- /agnhost netexec --http-port=8080.** I can check the status with **kubectl get deployments** and it will show me the active nodes.

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Next we’re going to create a service, so I run **kubectl expose deployment hello-node --type=LoadBalancer --port=8080.** Then I’ll run **minikube service hello-node** and it will print out the url and port of the service I created for my hello-node. In this case, my IP is 192.168.49.2:32132 so when I curl 192.168.49.2:32132 it returns an alive message with **NOW: 2024-12-05.65510899**

A screen shot of a computer

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After this installation, I checked my addon list with **minikube addons list minikube addons list**

and enabled then disabled metrics-server with **minikube addons enable metrics-server** then **minikube disable metrics-server**. At the end I deleted my service and deployment as I waved goodbye to minikube.

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After this experience, I can definitely say that I’ll get my hands dirty with Kubernetes, docker, and minikube much more! It was a really great experience that taught me a lot about both linux and containers.