Containerization and Big Data: Exercise 4-1
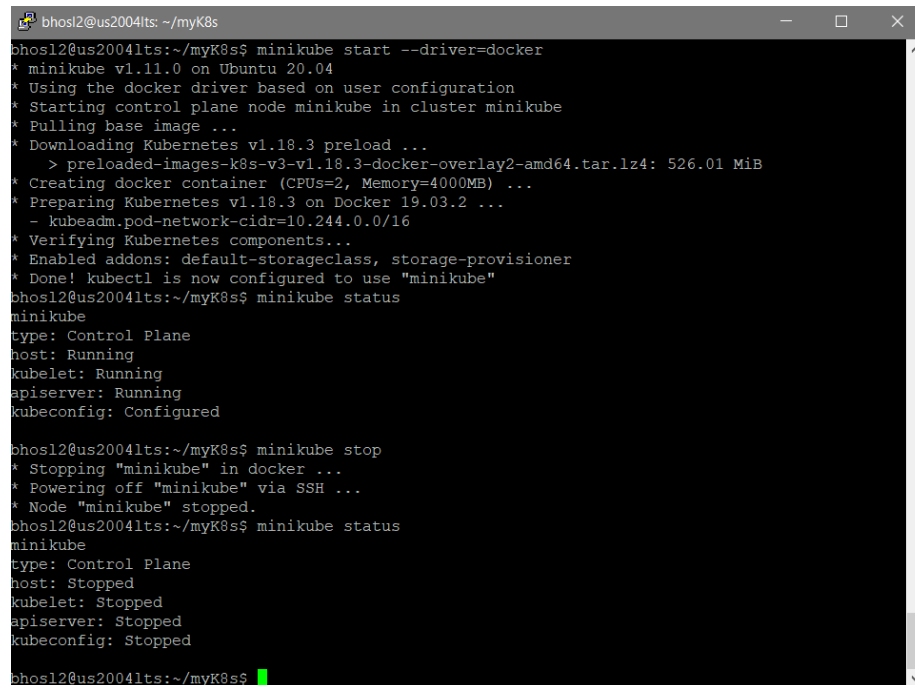
Brandon Hosley
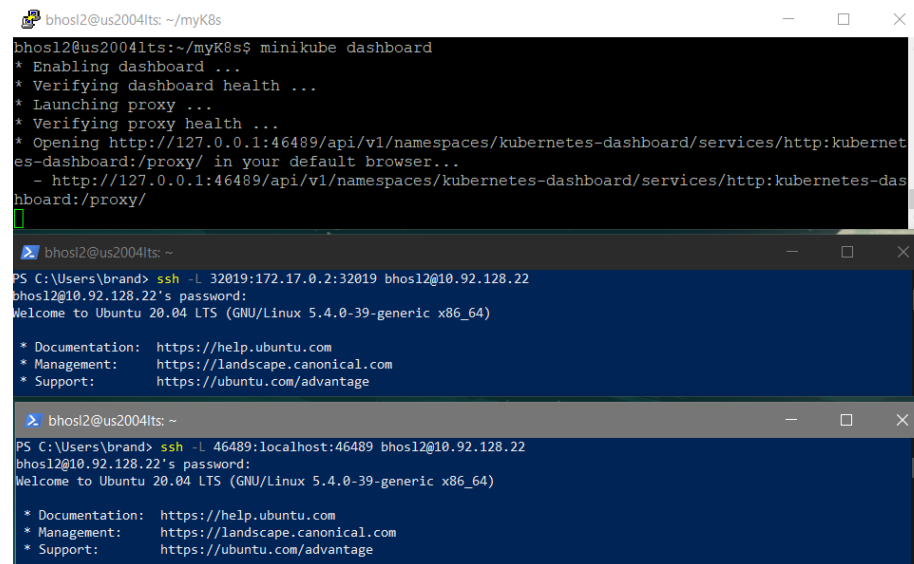
July 9, 2020

4 Building a Kubernetes Cluster

4.1 Installing Minikube

```
bhosl2@us2004lts: ~/myK8s                                                    —   □   ×
bhosl2@us2004lts:~/myK8s$ minikube start --driver=docker
* minikube v1.11.0 on Ubuntu 20.04
* Using the docker driver based on user configuration
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Downloading Kubernetes v1.18.3 preload ...
    > preloaded-images-k8s-v3-v1.18.3-docker-overlay2-amd64.tar.lz4: 526.01 MiB
* Creating docker container (CPUs=2, Memory=4000MB) ...
* Preparing Kubernetes v1.18.3 on Docker 19.03.2 ...
 - kubeadm.pod-network-cidr=10.244.0.0/16
* Verifying Kubernetes components...
* Enabled addons: default-storageclass, storage-provisioner
* Done! kubectl is now configured to use "minikube"
bhosl2@us2004lts:~/myK8s$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

bhosl2@us2004lts:~/myK8s$ minikube stop
* Stopping "minikube" in docker ...
* Powering off "minikube" via SSH ...
* Node "minikube" stopped.
bhosl2@us2004lts:~/myK8s$ minikube status
minikube
type: Control Plane
host: Stopped
kubelet: Stopped
apiserver: Stopped
kubeconfig: Stopped

bhosl2@us2004lts:~/myK8s$
```

4.2　Installing Kubernetes with Minikube

4.3   Kubernetes Dashboard