Kubernetes Task

Task Description:

Setup minikube at your local and explore creating namespaces (Go through official documentation).

Techstacks needs to be used :

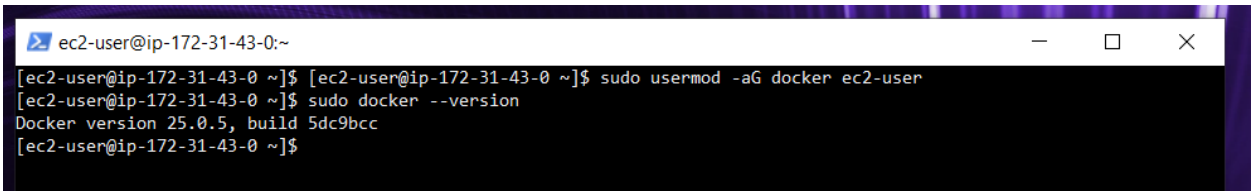
- Vbox, WSL
- Docker
- Minikube
- Kubectl

If the Local system has any issues, you can use AWS.

- AWS EC2 (t2.medium)

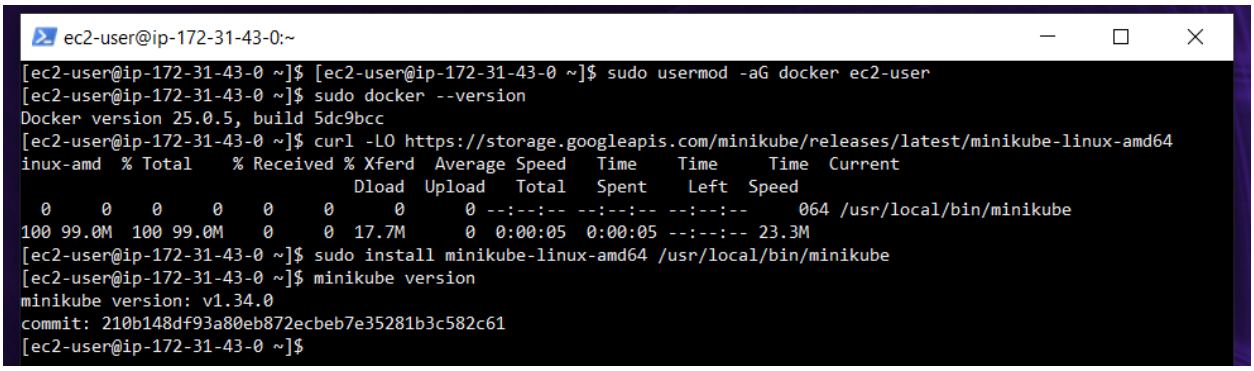
Step1 : Install Docker

- sudo yum install docker -y
- docker –version
- sudo usermod -aG docker user



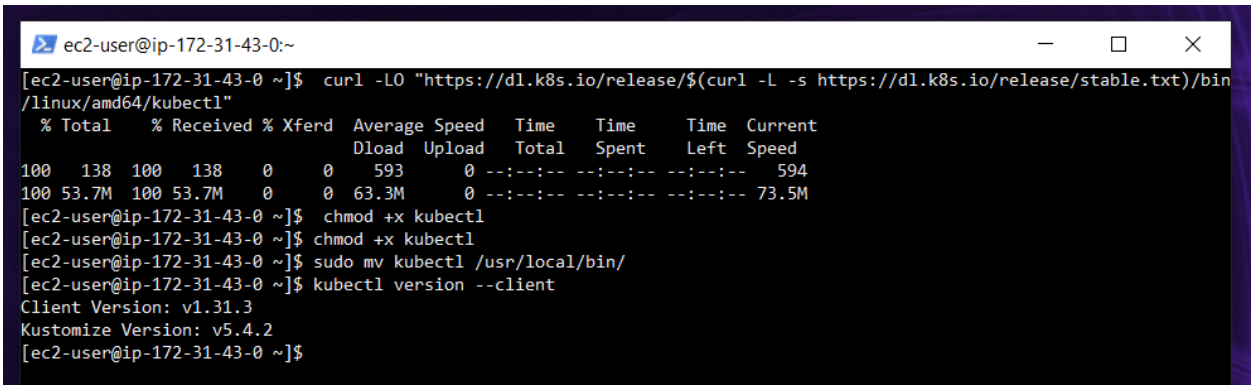
Step2 : Install Minikube

- curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
- sudo install minikube-linux-amd64 /usr/local/bin/minikube



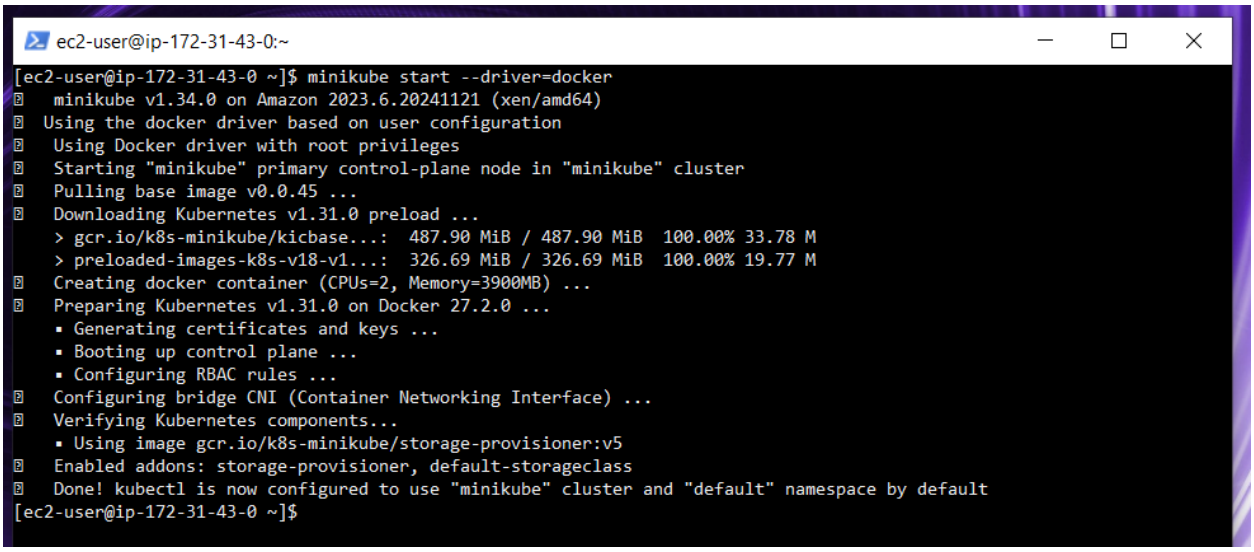
Step3 : Install kubectl

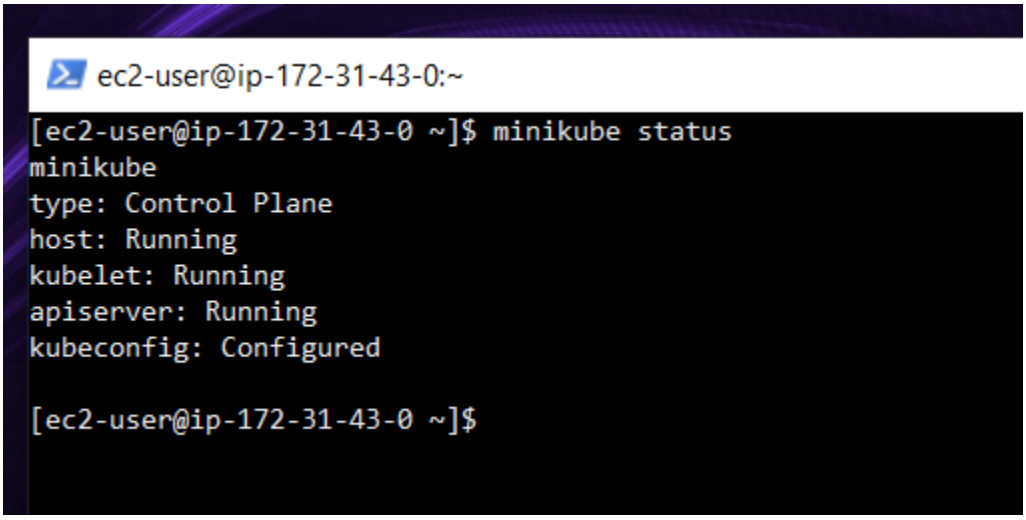
- curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"
- chmod +x kubectl
- sudo mv kubectl /usr/local/bin/
- kubectl version –client



Step4 : Start Minikube with Docker

- minikube start --driver=docker
- minikube status





Step5 : Kubernetes namespaces

- kubectl create namespace my-namespace
- kubectl get namespaces
- kubectl config set-context --current --namespace=my-namespace
- kubectl run nginx --image=nginx --restart=Never -n my-namespace
- kubectl get pods -n my-namespace