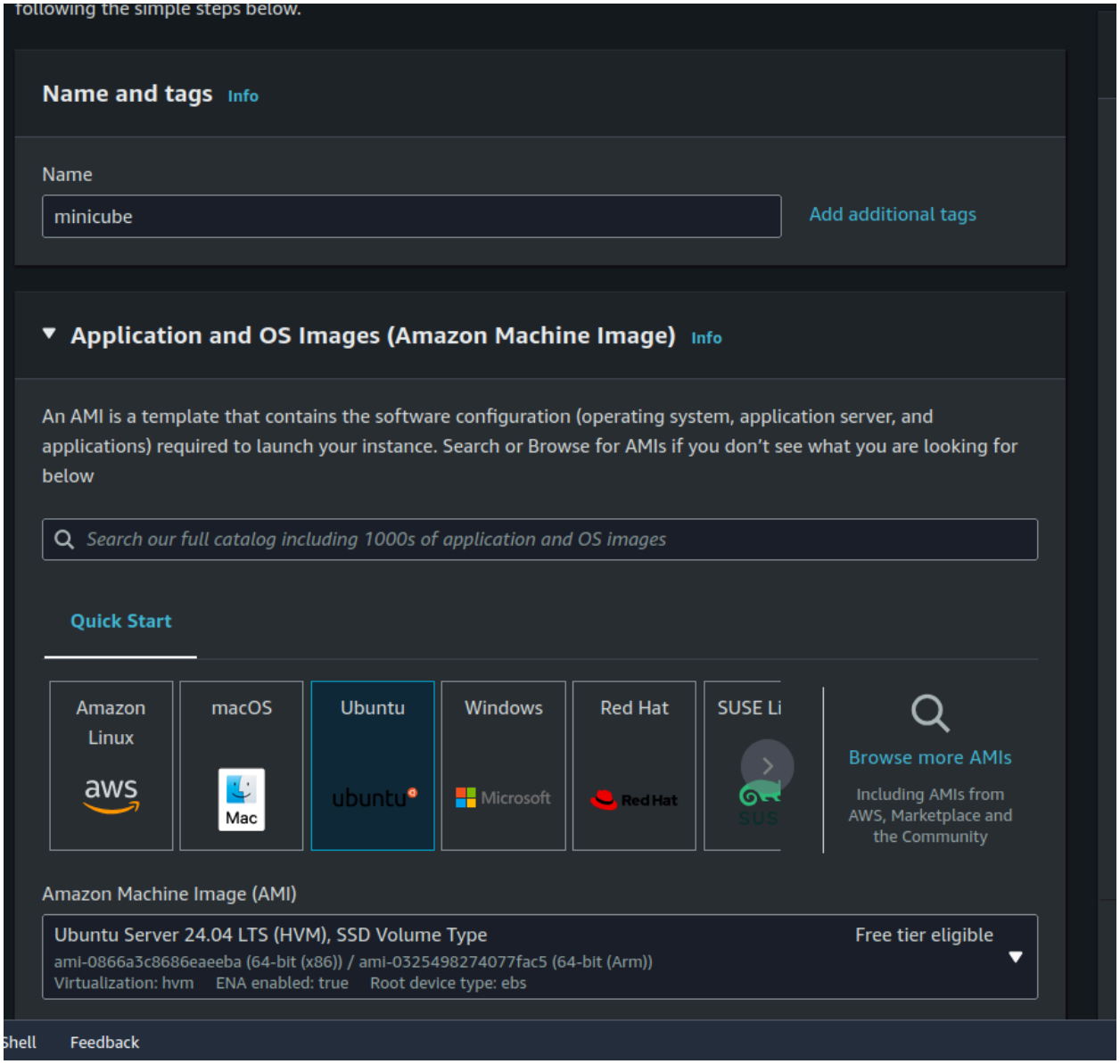
Task : Install and Setup Minikube on your system

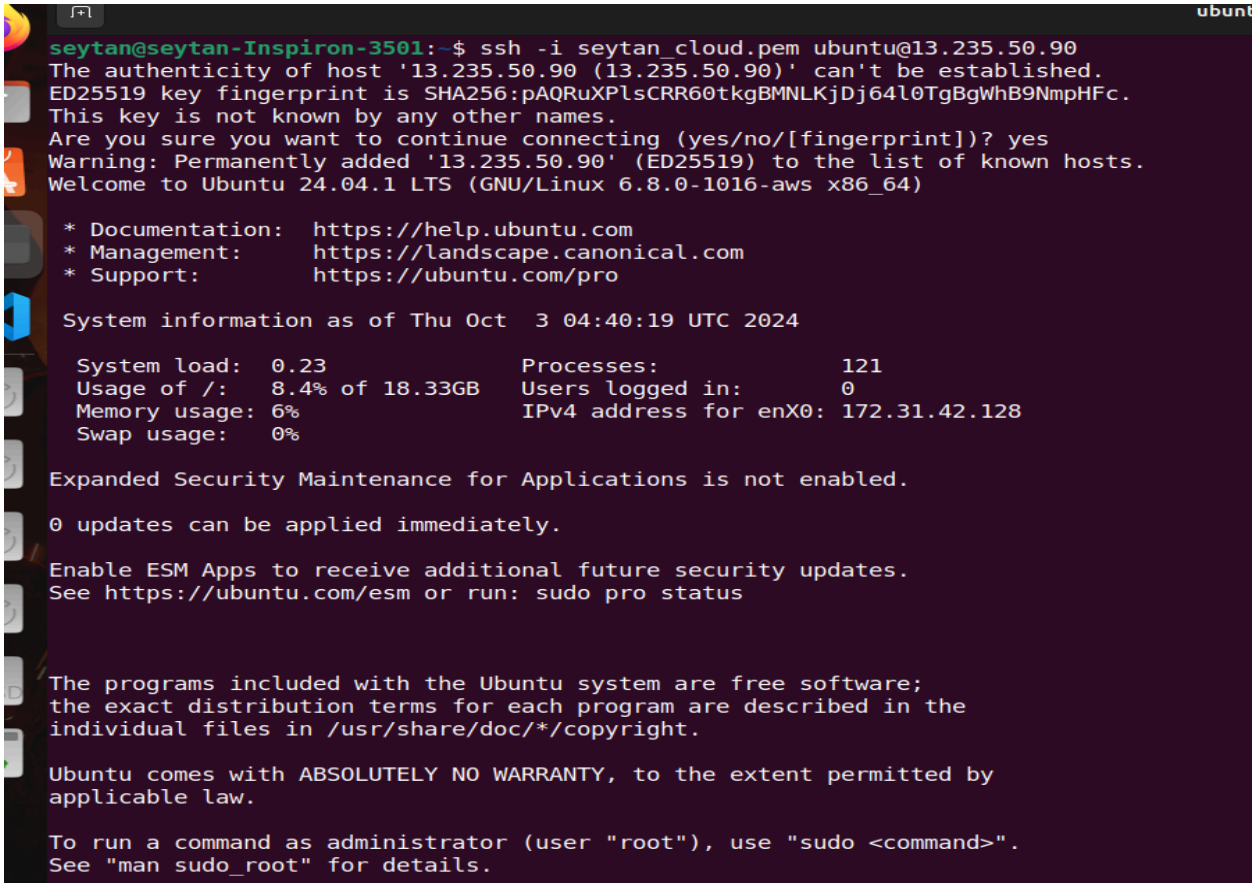
What is Minikube ?

Minikube is a tool that lets you run a single-node Kubernetes cluster locally on your machine. It's designed for developers to easily test and develop Kubernetes applications without needing a full-scale production cluster.

Step 1: Create an ec2 t2.medium instance and launch it .

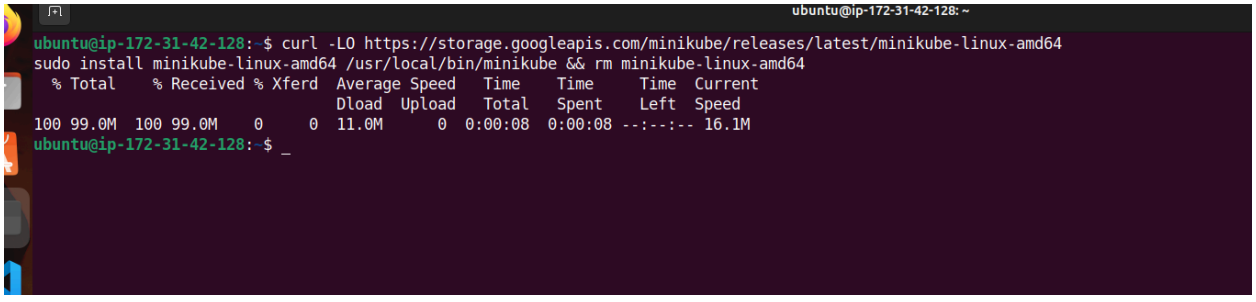


Step 2: Take ssh of instance.
Ssh -i private_key.pem ubuntu@public_ip



Step 3:Install the Minikube by using following commands.

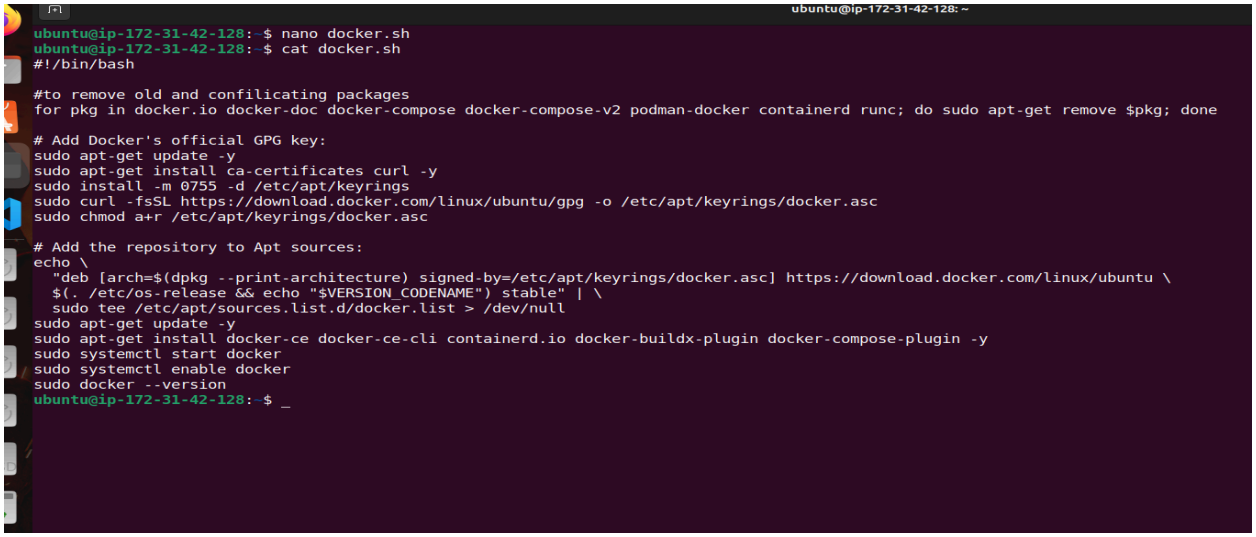
curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64

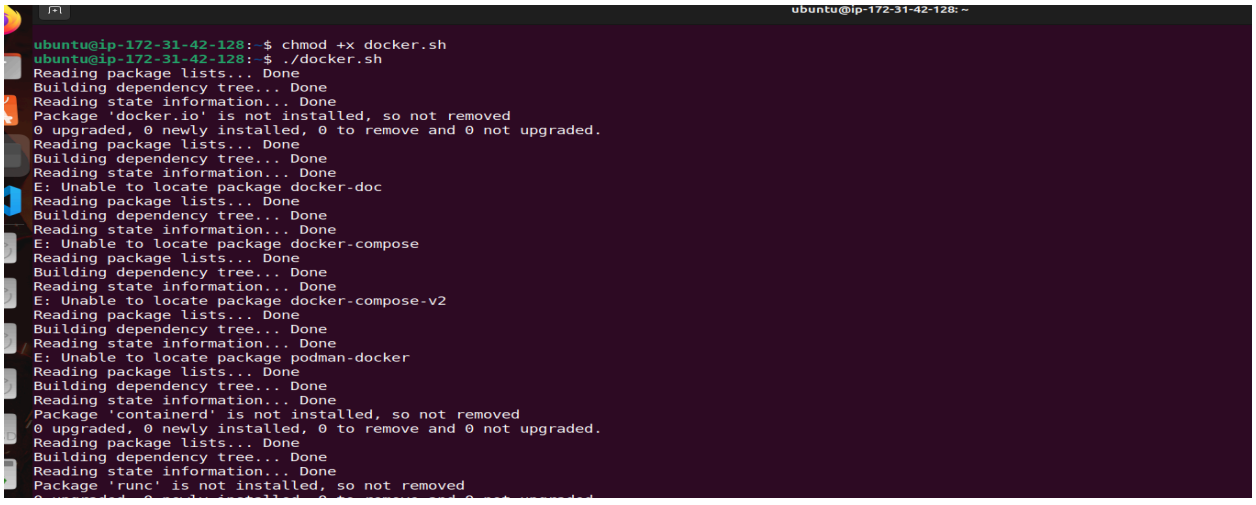


Step 4:Now we need to install docker .

Why we need to install docker ?
→ Minikube needs Docker to run containers in the local Kubernetes cluster, as Docker acts as the container runtime. It also enables Minikube to create and manage the node and workloads efficiently.

Create a script to install docker and give appropriate permissions and run it.

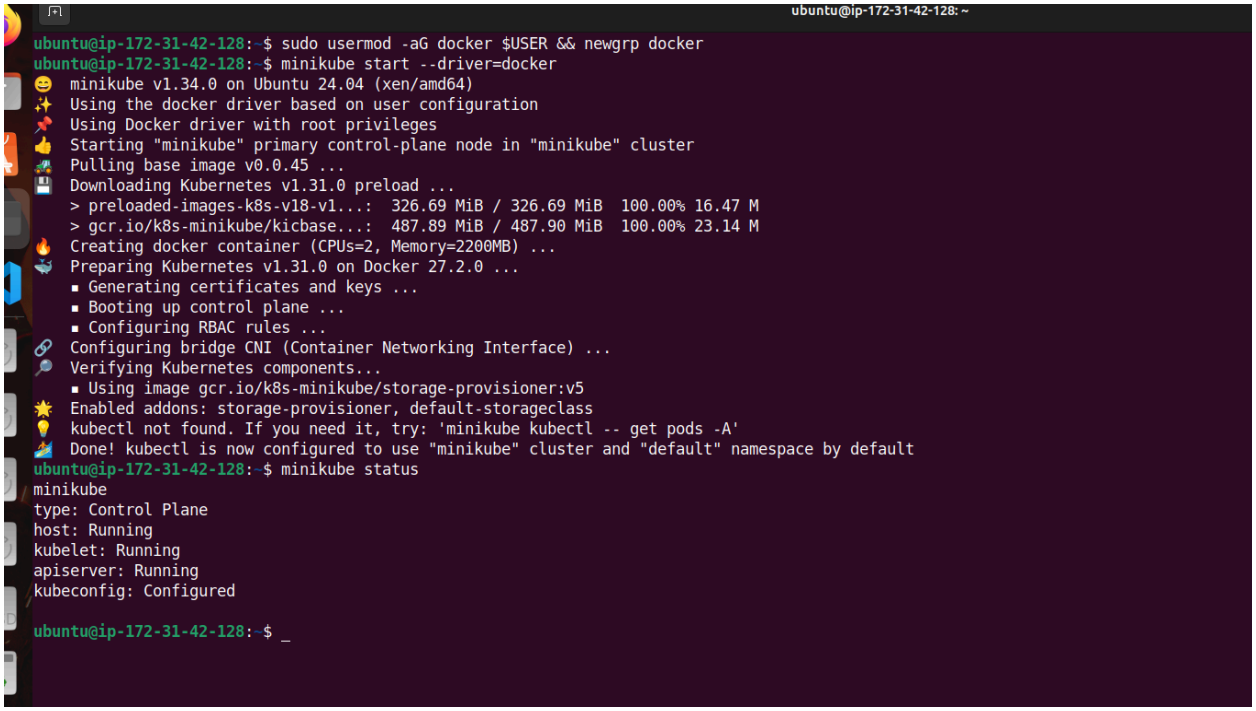




Step 5: Now add the local user to the docker group .
Command: sudo usermod -aG docker $USER && newgrp docker.

After that run the following command to start minikube
→ minikube start –driver=docker

Check the status of minikube by minikube status



Note : Setup alias for minikube kubectl – :
alias kubectl="minikube kubectl --"