TASK 3-Minikube Deployment Task

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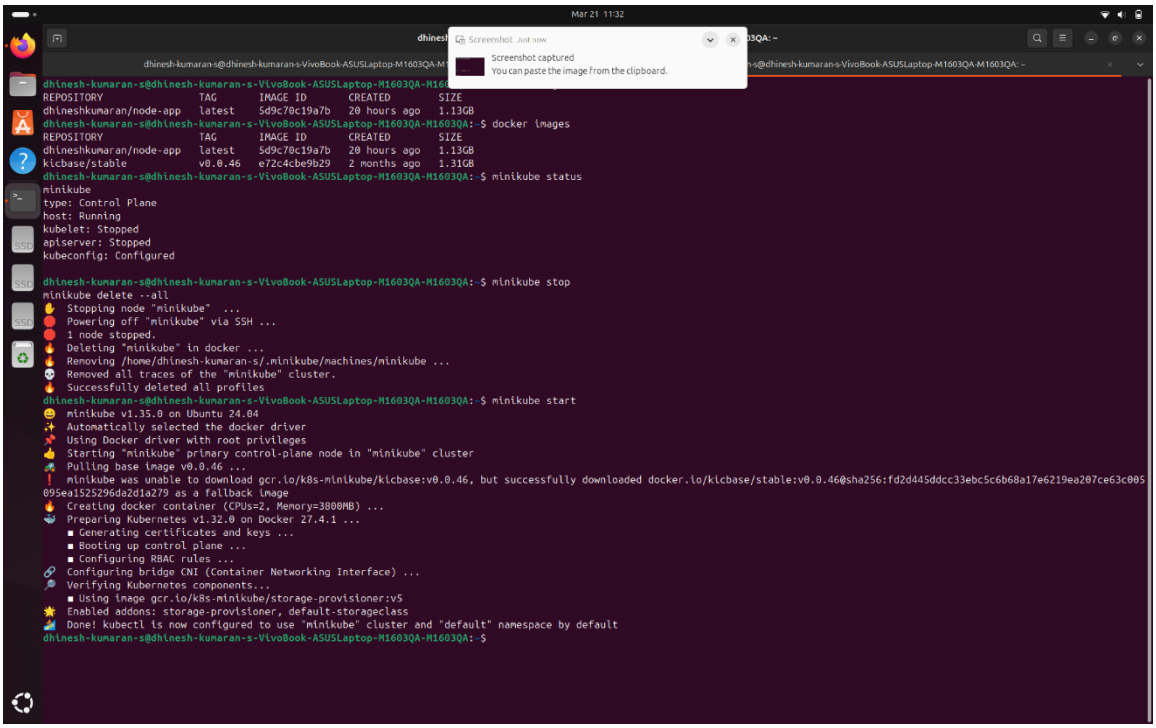
Step 1: Start Minikube

Start the Minikube cluster using the following command:

minikube start

This initializes the Minikube cluster using Docker as the driver.



Step 2: Install Kubectl

Since Kubectl is not found, install it with the following command:

sudo snap install kubectl --classic

Alternatively, you can download it using curl:

curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

Step 3: Verify Kubectl Installation

Check the client version to confirm successful installation:

kubectl version –client

Step 4: Create a Deployment

Create a deployment named `pod1` with the image `dhineshkumaran/spring-petshop`

kubectl create deployment pod1 --image= dhineshkumaran/spring-petshop --port=8080

Step 5: Expose the Deployment

Expose the deployment as a NodePort service:

kubectl expose deployment pod1 --port=8080 --type=NodePort

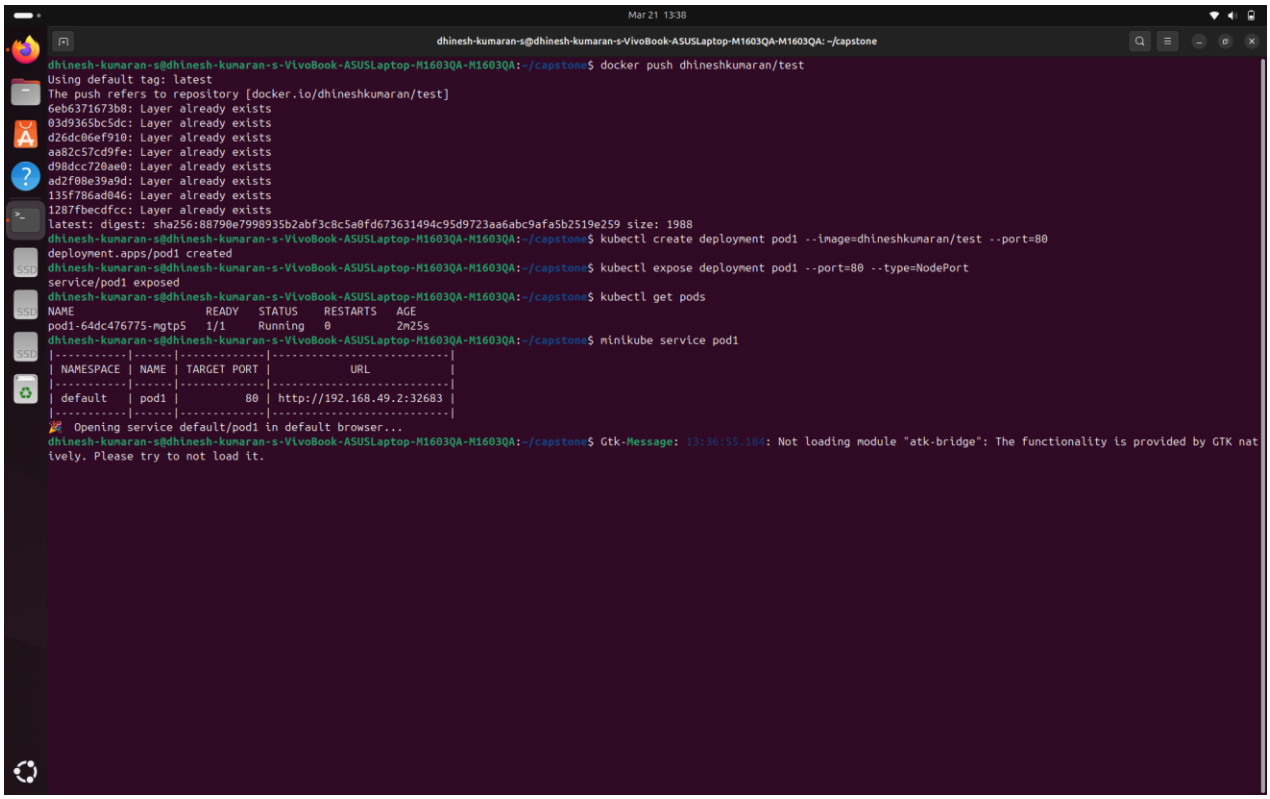
Step 6: Verify the Pod

Check the running pods:

kubectl get pods

Step 7: Access the Service

Expose the service using Minikube and get the URL:
minikube service pod1



Step 8: Output in the Web Browser