#### 1. Installation

#### **Install Minikube and kubectl:**

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

Start Minikube:

minikube start

## 2. Docker Image Creation

## **Build Docker Image:**

docker build -t ecommerce:latest.

## **Verify Image:**

docker images

# 3. Kubernetes Deployment

## **Apply Deployment and Service:**

kubectl apply -f deployment.yaml

#### **Check Pods and Services:**

kubectl get pods

kubectl get services

## **Describe and Debug:**

kubectl describe pod <pod-name>

kubectl logs <pod-name>

### 4. Port Forwarding

### **Expose Service:**

kubectl port-forward service/react-ecommerce-deployment 8080:80









