DEVOPS TASK 3

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22CDR013

**PROCEDURE:**

**Step 1: Clone the Repository**

git clone <your-repo-url>

cd <your-repo-folder>

**Step 2: Build the Docker Image**

docker build -t e-commerce-app .

**Step 3: Start Minikube**

minikube start --force

minikube status

**Step 4: Load the Docker Image into Minikube**

minikube image load e-commerce-app

Verify the image is loaded:

minikube image list # Ensure "e-commerce-app" is listed

**Step 5: Deploy the Application**

kubectl apply -f deployment.yml

kubectl get deployments

kubectl get pods

If you need a **NodePort service**, apply it:

kubectl apply -f Nodeport.yaml

**Step 6: Fix Image Pull Issues (if necessary)**

If Kubernetes tries to pull the image from a registry instead of using the local image, patch the deployment:

kubectl patch deployment react-ecommerce-deployment --type='json' -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/imagePullPolicy", "value": "Never"}]'

Alternatively, manually run a pod:

kubectl run react-ecommerce --image=e-commerce-app --image-pull-policy=Never --port=80

kubectl expose pod react-ecommerce --type=NodePort --port=80

Check services:

kubectl get svc

**Step 7: Expose the Service & Access the App**

minikube ip

minikube service react-ecommerce-service

**SCREENSHOTS:**

**A screenshot of a computer screen

AI-generated content may be incorrect.**

A screenshot of a computer

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