**1️⃣ Build Docker images**

Make sure you are in the directory containing your Dockerfiles.

**Backend**

docker build -f Dockerfile.backend -t srithar123/ecommerce-backend1:v1 .

**Frontend**

docker build -f Dockerfile.frontend -t srithar123/ecommerce-frontend1:v1 .

**2️⃣ Push images to Docker Hub**

docker push srithar123/ecommerce-backend1:v1

docker push srithar123/ecommerce-frontend1:v1

Make sure you are logged in:  
docker login

**3️⃣ Apply Kubernetes deployment**

kubectl apply -f fullstack-deployment.yaml

**4️⃣ Verify pods and services**

kubectl get pods

kubectl get svc

* Pods should show RUNNING for mysql, backend, frontend.
* Services should show NodePorts 30083 (frontend) and 30084 (backend).

**5️⃣ Check logs (optional)**

kubectl logs -f <pod-name>

Example:

kubectl logs -f frontend-xxxxxxxxx

kubectl logs -f backend-xxxxxxxxx

kubectl logs -f mysql-xxxxxxxxx

**6️⃣ Access services in Windows browser**

| **Service** | **URL** |
| --- | --- |
| Frontend | <http://localhost:8083> |
| Backend | <http://localhost:8084> |