docker build -t travel-memory-app .

DEPLOY EVERYTHING

kubectl apply -f k8s/

Check:
kubectl get pods
kubectl get svc
kubectl get pvc
kubectl get ingress

```
 ---> Running in 95b49198d99d
 ---> Removed intermediate container 95b49198d99d
 ---> b620e504b23b
Successfully built b620e504b23b
Successfully tagged travel-memory-app:latest
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app$ kubectl apply -f k8s/
configmap/travel-config created
deployment.apps/travel-app created
service/travel-app-service created
ingress.networking.k8s.io/travel-ingress created
deployment.apps/mongo created
persistentvolumeclaim/mongo-pvc created
service/mongo created
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app$ kubectl get pods
kubectl get svc
kubectl get pvc
kubectl get ingress
NAME                            READY   STATUS            RESTARTS        AGE
microservice-1-d94466577-cnrhc  1/1     Running           1 (3h18m ago)   4h9m
microservice-2-f859c57bf-gp95r  1/1     Running           1 (3h18m ago)   4h9m
microservice-3-64465dc89c-69lx8 1/1     Running           1 (3h18m ago)   4h9m
mongo-796f87b8fc-xwnd8          1/1     Running           0               26s
travel-app-6d65c4ccb4-hmtn4     0/1     ImagePullBackOff  0               26s
travel-app-6d65c4ccb4-mfnf6     0/1     ImagePullBackOff  0               26s
NAME                TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)     AGE
kubernetes          ClusterIP   10.96.0.1       <none>        443/TCP     20h
microservice-1      ClusterIP   10.103.237.229  <none>        80/TCP      4h9m
microservice-2      ClusterIP   10.106.103.92   <none>        80/TCP      4h9m
microservice-3      ClusterIP   10.99.253.152   <none>        80/TCP      4h9m
mongo               ClusterIP   10.107.30.69    <none>        27017/TCP   26s
travel-app-service  ClusterIP   10.106.31.26    <none>        80/TCP      26s
NAME        STATUS  VOLUME                                    CAPACITY  ACCESS MODES  STORAGECLASS  VOLUMEATTRIBUTESCLASS  AGE
mongo-pvc   Bound   pvc-82adb282-55a2-441c-b083-cface1c0e3bb  1Gi       RWO           standard      <unset>                26s
NAME                  CLASS  HOSTS                                            ADDRESS       PORTS  AGE
microservices-ingress nginx  service1.local.com,service2.local.com,service3.local.com  192.168.49.2  80     4h9m
```

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app$ kubectl get svc
NAME               TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)     AGE
kubernetes         ClusterIP   10.96.0.1       <none>        443/TCP     20h
microservice-1     ClusterIP   10.103.237.229  <none>        80/TCP      4h11m
microservice-2     ClusterIP   10.106.103.92   <none>        80/TCP      4h11m
microservice-3     ClusterIP   10.99.253.152   <none>        80/TCP      4h11m
mongo              ClusterIP   10.107.30.69    <none>        27017/TCP   2m37s
travel-app-service ClusterIP   10.106.31.26    <none>        80/TCP      2m37s
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app$ kubectl get pvc
NAME        STATUS   VOLUME                                     CAPACITY   ACCESS MODES   STORAGECLASS   VOLUMEATTRIBUTESCLASS   AGE
mongo-pvc   Bound    pvc-82adb282-55a2-441c-b083-cface1c0e3bb   1Gi        RWO            standard       <unset>                 2m46s
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app$ kubectl get pods
NAME                             READY   STATUS             RESTARTS       AGE
microservice-1-d94466577-cnrhc   1/1     Running            1 (3h21m ago)  4h11m
microservice-2-f859c57bf-gp95r   1/1     Running            1 (3h21m ago)  4h11m
microservice-3-64465dc89c-69lx8  1/1     Running            1 (3h21m ago)  4h11m
mongo-796f87b8fc-xwnd8           1/1     Running            0              3m4s
travel-app-6d65c4ccb4-hmtn4      0/1     ImagePullBackOff   0              3m4s
travel-app-6d65c4ccb4-mfnf6      0/1     ImagePullBackOff   0              3m4s
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app$ kubectl get ingress
NAME                  CLASS   HOSTS                                              ADDRESS        PORTS   AGE
microservices-ingress nginx   service1.local.com,service2.local.com,service3.local.com   192.168.49.2   80      4h11m
travel-ingress        nginx   memories.local.com                                 192.168.49.2   80      3m6s
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app$
```

Add to /etc/hosts

# Get Minikube IP
MINIKUBE_IP=$(minikube ip)

Add to /etc/hosts
echo "$MINIKUBE_IP memories.local.com" | sudo tee -a /etc/hosts

Verify
cat /etc/hosts | grep memories.local.com

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app/k8s$ MINIKUBE_IP=$(minikube ip)
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app/k8s$ echo "$MINIKUBE_IP memories.local.com" | sudo tee -a /etc/ho
sts
192.168.49.2 memories.local.com
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app/k8s$ cat /etc/hosts | grep memories.local.com
192.168.49.2 memories.local.com
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app/k8s$ curl -X POST http://memories.local.com/memories \
-H "Content-Type: application/json" \
-d '{
  "location":"Paris",
  "date":"2024-01-05",
  "description":"Eiffel Tower visit",
  "imageUrl":"https://example.com/img1.jpg"
}'
<html>
<head><title>503 Service Temporarily Unavailable</title></head>
<body>
<center><h1>503 Service Temporarily Unavailable</h1></center>
<hr><center>nginx</center>
</body>
</html>
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/travel-memory-app/k8s$
```

TEST API
CREATE
curl -X POST http://memories.local.com/memories \
-H "Content-Type: application/json" \

```
-d '{
  "location":"Paris",
  "date":"2024-01-05",
  "description":"Eiffel Tower visit",
  "imageUrl":"https://example.com/img1.jpg"
}'
```

GET
curl http://memories.local.com/memories