

LAB4 OUTPUTS

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS E:\Amaan Vahora\BCDV-4032\Lab4> minikube start
W0128 22:01:40.849501 20584 main.go:291] Unable to resolve the current Docker CLI context "default": context "default" not found
ell\docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the file specified
🐳 minikube v1.32.0 on Microsoft Windows 11 Home Single Language 10.0.22621.3007 Build 22621.3007
🔧 Using the docker driver based on existing profile
🔥 Starting control plane node minikube in cluster minikube
📶 Pulling base image ...
🔄 Updating the running docker "minikube" container ...
🔧 Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
🔧 Configuring bridge CNI (Container Networking Interface) ...
🔍 Verifying Kubernetes components...
  ▪ Using image docker.io/kubernetesui/dashboard:v2.7.0
  ▪ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
💡 Some dashboard features require the metrics-server addon. To enable all features please run:

    minikube addons enable metrics-server

🌟 Enabled addons: storage-provisioner, default-storageclass, dashboard
🏠 Done! kubecttl is now configured to use "minikube" cluster and "default" namespace by default
PS E:\Amaan Vahora\BCDV-4032\Lab4> kompose convert
INFO Kubernetes file "dapp-service.yaml" created
INFO Kubernetes file "ganache-service.yaml" created
INFO Kubernetes file "react-service.yaml" created
INFO Kubernetes file "dapp-deployment.yaml" created
INFO Kubernetes file "ganache-deployment.yaml" created
INFO Kubernetes file "react-deployment.yaml" created
```

```
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl apply -f ganache-deployment.yaml
deployment.apps/ganache configured
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl apply -f ganache-service.yaml
service/ganache configured
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl apply -f dapp-deployment.yaml
deployment.apps/dapp configured
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl apply -f dapp-service.yaml
service/dapp created
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl apply -f react-deployment.yaml
deployment.apps/react configured
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl apply -f react-service.yaml
service/react configured
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl get pods
NAME                                READY   STATUS              RESTARTS   AGE
dapp-65fdc95c66-q89rc               1/1     Running             2 (97m ago) 27h
dapp-7dbc4b9bb5-nlcn5               0/1     Pending             0           57s
ganache-68fcbf4785-4jbjj            0/1     Pending             0           90s
ganache-7fc8fbfbc4-dgvyb6           1/1     Running             3 (97m ago) 27h
mongo-express-deployment-b88f6d45f-wmw4d 0/1     CreateContainerConfigError 0           6d23h
mongodb-stateful-set-0              0/1     CreateContainerConfigError 0           7d1h
nginx-deployment-5f4f55f467-6v9dh    1/1     Running             5 (97m ago) 7d1h
nginx-deployment-5f4f55f467-mbxr7    1/1     Running             5 (97m ago) 7d1h
nginx-deployment-5f4f55f467-wv5rl    1/1     Running             5 (97m ago) 7d1h
nginx-nvpv2                          1/1     Running             5 (97m ago) 7d1h
note-deployment-74cc946cd8-2hc6d     1/1     Running             12 (97m ago) 6d23h
note-deployment-74cc946cd8-88rm2     1/1     Running             10 (97m ago) 7d
note-server-deployment-6fb5fcb67f-2qhdm 0/1     CreateContainerConfigError 0           7d
note-server-deployment-6fb5fcb67f-xncg7 0/1     CreateContainerConfigError 0           7d
react-689f46c46c-ffwht               1/1     Running             2 (97m ago) 27h
react-78495dbb48-hblnm               0/1     Pending             0           23s
web-0                                 0/1     Pending             0           7d1h
```

```
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl get services
NAME                                TYPE               CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
dapp                               ClusterIP          10.102.68.25    <none>           4000/TCP         81s
ganache                           ClusterIP          10.106.248.20   <none>           8545/TCP         27h
kubernetes                        ClusterIP          10.96.0.1       <none>           443/TCP          7d2h
mongo-express-service              LoadBalancer      10.106.82.114   <pending>        8081:30648/TCP   6d23h
mongodb-service                   ClusterIP          10.108.145.224   <none>           27017/TCP        7d
note-server-service                ClusterIP          10.108.249.251   <none>           5000/TCP         7d
note-service                       LoadBalancer      10.110.51.39     <pending>        3000:31125/TCP   7d
react                             ClusterIP          10.103.40.245    <none>           3000/TCP         27h
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubecttl port-forward service/dapp 4000:4000
Forwarding from 127.0.0.1:4000 -> 4000
Forwarding from [::1]:4000 -> 4000
```

```

PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl describe deployment dapp
Name: dapp
Namespace: default
CreationTimestamp: Sat, 27 Jan 2024 18:35:35 -0500
Labels: io.kompose.service=dapp
Annotations: deployment.kubernetes.io/revision: 2
             kompose.cmd: C:\ProgramData\chocolatey\lib\kubernetes-kompose\tools\kompose.exe convert
             kompose.version: 1.32.0 (765fde254)
Selector: io.kompose.service=dapp
Replicas: 1 desired | 1 updated | 2 total | 1 available | 1 unavailable
StrategyType: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels: io.kompose.network/lab4-default=true
          io.kompose.service=dapp
  Annotations: kompose.cmd: C:\ProgramData\chocolatey\lib\kubernetes-kompose\tools\kompose.exe convert
               kompose.version: 1.32.0 (765fde254)
  Containers:
    dapp:
      Image: schadokar/eth-server:1.0.0
      Port: 4000/TCP
      Host Port: 4000/TCP
      Environment: <none>
      Mounts: <none>
      Volumes: <none>
Conditions:
  Type           Status  Reason
  ----           -
  Available      True    MinimumReplicasAvailable
  Progressing    False   ProgressDeadlineExceeded
OldReplicaSets: dapp-65fdc95c66 (1/1 replicas created)
NewReplicaSet:  dapp-7dbc4b9bb5 (1/1 replicas created)
Events:
  Type    Reason              Age   From          Message
  ----    -
  Normal  ScalingReplicaSet   27h   deployment-controller  Scaled up replica set dapp-65fdc95c66 to 1
  Normal  ScalingReplicaSet   17m   deployment-controller  Scaled up replica set dapp-7dbc4b9bb5 to 1

```

```

PS E:\Amaan Vahora\BCDV-4032\Lab4> minikube addons enable metrics-server
W0128 22:31:18.755453 32856 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found
ell\docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.
⚠ metrics-server is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.
You can view the list of minikube maintainers at: https://github.com/kubernetes/minikube/blob/master/OWNERS
  * Using image registry.k8s.io/metrics-server/metrics-server:v0.6.4
  * The 'metrics-server' addon is enabled
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl apply -f dapp-hpa.yaml
horizontalpodautoscaler.autoscaling/dapp-hpa created
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl apply -f frontend-hpa.yaml
error: the path "frontend-hpa.yaml" does not exist
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
dapp-hpa Deployment/dapp <unknown>/50% 1 5 1 22s
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl apply -f frontend-hpa.yaml
error: the path "frontend-hpa.yaml" does not exist
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl apply -f frontend-hpa.yaml
horizontalpodautoscaler.autoscaling/frontend-hpa created
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
dapp-hpa Deployment/dapp <unknown>/50% 1 5 1 3m43s
frontend-hpa Deployment/react <unknown>/50% 1 5 0 3s
PS E:\Amaan Vahora\BCDV-4032\Lab4> |

```

```

PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl get pods
NAME READY STATUS RESTARTS AGE
dapp-65fdc95c66-q89rc 1/1 Running 2 (126m ago) 28h
dapp-7dbc4b9bb5-nlcn5 0/1 Pending 0 30m
ganache-68fcbf4785-4jbjj 0/1 Pending 0 31m
ganache-7fe8fbfbcd-dgvb6 1/1 Running 3 (126m ago) 28h
mongo-express-deployment-b88fd45f-wwm4d 0/1 CreateContainerConfigError 0 6d23h
mongodb-stateful-set-0 0/1 CreateContainerConfigError 0 7d1h
nginx-deployment-5f4f55f467-6v9dh 1/1 Running 5 (126m ago) 7d1h
nginx-deployment-5f4f55f467-mbxr7 1/1 Running 5 (126m ago) 7d1h
nginx-deployment-5f4f55f467-wv5rl 1/1 Running 5 (126m ago) 7d1h
nginx-nvpv2 1/1 Running 5 (126m ago) 7d2h
note-deployment-74cc946cd8-2hc6d 1/1 Running 12 (126m ago) 6d23h
note-deployment-74cc946cd8-88rm2 1/1 Running 10 (126m ago) 7d
note-server-deployment-6fb5fcb67f-2qhdn 0/1 CreateContainerConfigError 0 7d
note-server-deployment-6fb5fcb67f-xncg7 0/1 CreateContainerConfigError 0 7d
react-689f46c46c-ffwht 1/1 Running 2 (126m ago) 28h
react-78495dbb48-hblnm 0/1 Pending 0 30m
web-0 0/1 Pending 0 7d2h
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl get pv
NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM STORAGECLASS
pvc-ef684428-1a69-4246-976f-c6ab8f777b39 1Gi RWO Delete Bound default/mongodb-data-mongodb-stateful-set-0 standard
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl get pvc
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE
mongodb-data-mongodb-stateful-set-0 Bound pvc-ef684428-1a69-4246-976f-c6ab8f777b39 1Gi RWO standard 7d2h
www-web-0 Pending my-storage-class 7d2h
PS E:\Amaan Vahora\BCDV-4032\Lab4> kubectl get storageclass
NAME PROVISIONER RECLAIMPOLICY VOLUMEBINDINGMODE ALLOWVOLUMEEXPANSION AGE
standard (default) k8s.io/minikube-hostpath Delete Immediate false 7d3h
PS E:\Amaan Vahora\BCDV-4032\Lab4> |

```

set message

Set Message
Get Message
Compile Contract
Deploy Contract

set message

Set Message
Get Message
Compile Contract
Deploy Contract

Contract compiled successfully!

set message

Set Message
Get Message
Compile Contract
Deploy Contract

0x9573D395b773De57140d11dFc190252Ae1149E50

Hello Amaan here !

Set Message
Get Message
Compile Contract
Deploy Contract

0x7c3848b8993f4b3d77d48ff9b1ff0f6dab317a7dcb5ecceebb33f39a469b0b9f

Hello Amaan here !

Set Message
Get Message
Compile Contract
Deploy Contract

Hello Amaan here !