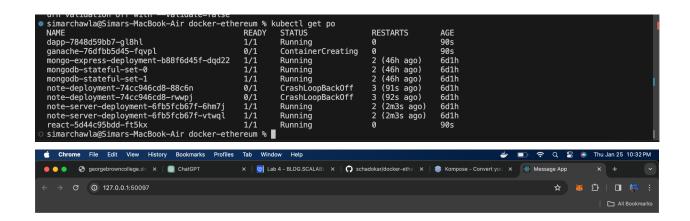
```
simarchawla@Simars-MacBook-Air docker-ethereum % cd..
zsh: command not found: cd..
simarchawla@Simars-MacBook-Air docker-ethereum % cd ..
simarchawla@Simars-MacBook-Air lab4 % cd docker-ethereum
simarchawla@Simars-MacBook-Air docker-ethereum % kompose convert -f docker-compose.yml
INFO Kubernetes 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 "ganache-deployment.yaml" created
INFO Kubernetes file "react-deployment.yaml" created
INFO Kubernetes file "react-deployment.yaml" created
INFO Kubernetes file "react-deployment.yaml" created
Simarchawla@Simars-MacBook-Air docker-ethereum % kubectl apply -f .
zsh: command not found: $
simarchawla@Simars-MacBook-Air docker-ethereum % kubectl apply -f .
The connection to the server 127.0.0.1:61600 was refused - did you specify the right host or port?
simarchawla@Simars-MacBook-Air docker-ethereum % minikube start
minikube v1.32.0 on Darwin 14.2.1 (arm64)
Jusing the docker driver based on existing profile
         ■ Exiting due to PROVIDER_DOCKER_NOT_RUNNING: "docker version —-format <no value>-<no value>:<no value>:<no value>: exit status 1: Cannot co nnect to the Docker daemon at unix:///Users/simarchawla/.docker/run/docker.sock. Is the docker daemon running?

■ Suggestion: Start the Docker service

■ Documentation: https://minikube.sigs.k8s.io/docs/drivers/docker/
          simarchawla@Simars-MacBook-Air docker-ethereum % 
          minikube
          type: Control Plane
host: Nonexistent
kubelet: Nonexistent
          apiserver: Nonexistent
          kubeconfia: Nonexistent
 Simarchawla@Simars-MacBook-Air docker-ethereum % kubectl apply -f .
The connection to the server 127.0.0.1:61600 was refused - did you specify the right host or port?
simarchawla@Simars-MacBook-Air docker-ethereum % minikube start
minikube v1.32.0 on Darwin 14.2.1 (arm64)
Using the docker driver based on existing profile
starting control plane node minikube in cluster minikube
Pulling base image ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
Configuring bridge CNI (Container Networking Interface) ...
Verifying Kubernetes components...
Using image gcr.io/kubernetesui/metrics-scraper:v1.0.8
Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
Using image docker.io/kubernetesui/dashboard:v2.7.0
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! kubectl is now configured to use "minikube" cluster and "default" namespace by default simarchawla@Simars-MacBook-Air docker-ethereum % kubectl apply -f.
          deployment.apps/dapp created
        service/dapp created
deployment.apps/ganache created
service/ganache created
deployment.apps/react created
service/react created
```



set message



Contract compiled successfully!

```
error: lost connection to pod
simarchawla@Simars-MacBook-Air docker-ethereum % kubectl get pods
                                                 READY
                                                         STATUS
                                                                       RESTARTS
  NAME
                                                                                         AGE
  dapp-7848d59bb7-gl8hl
                                                                       7 (5m45s ago)
                                                 1/1
                                                         Running
                                                                                         73m
  ganache-76dfbb5d45-fqvpl
                                                 0/1
                                                         00MKilled
                                                                       14 (4m1s ago)
                                                                                         73m
                                                1/1
1/1
  mongo-express-deployment-b88f6d45f-dqd22
                                                         Running
                                                                       9 (5m45s ago)
                                                                                         6d2h
                                                                         (5m45s ago)
  mongodb-stateful-set-0
                                                                       9
                                                                                         6d2h
                                                         Running
                                                1/1
1/1
1/1
  mongodb-stateful-set-1
                                                         Running
                                                                       9 (5m45s ago)
                                                                                         6d2h
  note-deployment-74cc946cd8-88c6n
                                                         Running
                                                                       18 (4m39s ago)
                                                                                         6d2h
  note-deployment-74cc946cd8-rwwpj
                                                                       18 (4m37s ago)
                                                                                         6d2h
                                                         Running
 note-server-deployment-6fb5fcb67f-6hm7j
                                                1/1
1/1
                                                                      14 (5m45s ago)
12 (2m55s ago)
                                                         Running
                                                                                         6d2h
  note-server-deployment-6fb5fcb67f-vtwql
                                                         Running
                                                                                         6d2h
                                                 1/1
  react-5d44c95bdd-ft5kx
                                                                       7 (5m45s ago)
                                                         Running
simarchawla@Simars-MacBook-Air docker-ethereum % kubectl delete pod dapp-7848d59bb7-gl8hl
pod "dapp-7848d59bb7-gl8hl" deleted
  simarchawla@Simars-MacBook-Air docker-ethereum % kubectl get pods
                                                                       RESTARTS
  NAME
                                                 READY
                                                         STATUS
                                                                                         AGE
  dapp-7848d59bb7-ckc2p
                                                 1/1
                                                         Running
                                                                                         12s
                                                 0/1
                                                                       15 (118s ago)
  ganache-76dfbb5d45-fqvpl
                                                         00MKilled
                                                                                         74m
                                                1/1
1/1
  mongo-express-deployment-b88f6d45f-dqd22
                                                                       9 (7m28s ago)
                                                                                         6d2h
                                                         Running
                                                                         (7m28s ago)
  mongodb-stateful-set-0
                                                                                         6d2h
                                                         Running
                                                1/1
1/1
1/1
  mongodb-stateful-set-1
                                                                       9 (7m28s ago)
                                                         Running
                                                                                         6d2h
  note-deployment-74cc946cd8-88c6n
                                                         Running
                                                                       18
                                                                         (6m22s ago)
                                                                                         6d2h
  note-deployment-74cc946cd8-rwwpj
                                                                       18 (6m20s ago)
                                                         Running
                                                                                         6d2h
                                                1/1
1/1
1/1
  note-server-deployment-6fb5fcb67f-6hm7j
                                                         Running
                                                                       14 (7m28s ago)
                                                                                         6d2h
                                                                       13 (77s ago)
  note-server-deployment-6fb5fcb67f-vtwql
                                                         Running
                                                                                         6d2h
  react-5d44c95bdd-ft5kx
                                                                       7 (7m28s ago)
                                                                                         74m
                                                         Running
 simarchawla@Simars-MacBook-Air docker-ethereum %
```

```
pod "dapp-7848d59bb7-ckc2p" deleted
simarchawla@Simars-MacBook-Air docker-ethereum % kubectl get pods
                                                                                                              READY
                                                                                                                                                                                  RESTARTS
                                                                                                                                  STATUS
                                                                                                                                                                                                                           AGE
   dapp-57fb7cd8c7-xxqnd
                                                                                                                                                                                                                            95s
                                                                                                                                  Running
                                                                                                              1/1
    ganache-76dfbb5d45-fqvpl
                                                                                                              0/1
                                                                                                                                  CrashLoopBackOff
                                                                                                                                                                                 18 (63s ago)
                                                                                                                                                                                                                           94m
                                                                                                                                                                                        (7m34s ago)
(7m33s ago)
    mongo-express-deployment-b88f6d45f-dqd22
                                                                                                              1/1
1/1
1/1
1/1
1/1
1/1
                                                                                                                                                                                  10
                                                                                                                                                                                                                           6d2h
                                                                                                                                  Running
   mongo-express-deployment-p88760457-dqd2
mongodb-stateful-set-0
mongodb-stateful-set-1
note-deployment-74cc946cd8-88c6n
note-deployment-74cc946cd8-rwwpj
note-server-deployment-6fb5fcb67f-6hm7j
                                                                                                                                                                                  10
                                                                                                                                  Running
                                                                                                                                                                                                                           6d2h
                                                                                                                                                                                 10 (7m33s ago)
10 (7m33s ago)
20 (7m5s ago)
20 (7m7s ago)
17 (2m49s ago)
15 (7m49s ago)
                                                                                                                                  Running
                                                                                                                                                                                                                            6d2h
                                                                                                                                  Running
                                                                                                                                                                                                                            6d2h
                                                                                                                                  Running
                                                                                                                                                                                                                            6d2h
                                                                                                                                  Running
                                                                                                                                                                                                                           6d2h
    note-server-deployment-6fb5fcb67f-vtwql
                                                                                                              1/1
                                                                                                                                  Running
                                                                                                                                                                                                                           6d2h
    react-5d44c95bdd-ft5kx
                                                                                                              1/1
                                                                                                                                  Running
                                                                                                                                                                                  8 (7m33s ago)
                                                                                                                                                                                                                           94m
   simarchawla@Simars-MacBook-Air docker-ethereum % kubectl exec dapp-57fb7cd8c7-xxqnd
                                                                                                                                                                                                                           env
 SIMATCHAWLAGSIMATS-MACBOOK-AIT GOCKET-ETHEREUM HOME=/root
YARN_VERSION=1.9.4
NODE_VERSION=8.12.0
NOTE_SERVICE_PORT_3000_TCP_ADDR=10.103.220.129
NOTE_SERVICE_PORT_10.103.220.129:3000
KUBERNETES_PORT_443_TCP=tcp://10.96.0.1:443
REACT_PORT=tcp://10.96.111.61:3000
NOTE_SERVICE_PORT_3000_TCP_PORT=3000
GANACHE_PORT=tcp://10.101.113.179:8545
DAPP_PORT_4000_TCP=tcp://10.99.179.132:4000
REACT_SERVICE_HOST=10.96.111.61
NOTE_SERVER_SERVICE_PORT_5000_TCP_PROTO=tcp
MONGO_EXPRESS_SERVICE_SERVICE_PORT=8081
DAPP_PORT_4000_TCP_ADDR=10.99.179.132
DAPP_PORT_4000_TCP_ADDR=10.99.179.132
DAPP_PORT_4000_TCP_PROTO=tcp
NOTE_SERVER_SERVICE_SERVICE_PORT=5000
MONGOOB_SERVICE_SERVICE_PORT=27017
KUBERNETES_PORT=tcp://10.96.0.1:443
GANACHE_PORT_8545_TCP_PORT=8545
DAPP_SERVICE_PORT_4000
    HOME=/root
   GANACHE_PORT_8045_TCP_PORT=8545
DAPP_SERVICE_PORT=4000
NOTE_SERVER_SERVICE_SERVICE_HOST=10.102.206.156
MONGO_EXPRESS_SERVICE_PORT_8081_TCP_ADDR=10.100.43.119
MONGO_EXPRESS_SERVICE_PORT=tcp://10.100.43.119:8081
    GANACHE_SERVICE_PORT=8545
   MONGO_EXPRESS_SERVICE_PORT_8081_TCP=tcp://10.100.43.119:8081
MONGO_EXPRESS_SERVICE_SERVICE_HOST=10.100.43.119
```

```
NOTE_SERVICE_PORT_3000_TCP=tcp://10.103.220.129:3000
NOTE_SERVICE_PORT_3000_TCP=tcp://10.103.220.129:3000
NOTE_SERVICE_SERVICE_PORT=3000
KUBERNETES_PORT_443_TCP_PROTO=tcp
GANACHE_SERVICE_PORT_8354=8545
REACT_PORT_3000_TCP_PROTO=tcp
DAPP_SERVICE_PORT_8000_TCP_PROTO=tcp
MONGODB_SERVICE_PORT_8000_TOP_SERVICE_PORT_8000
DAPP_SERVICE_PORT_4000=4000
DAPP_SERVICE_PORT_8000_TCP_ROTO=tcp
KUBERNETES_PORT_443_TCP_PORT=433
NOTE_SERVICE_PORT_5000_TCP_ECD://10.102.206.156:5000
NOTE_SERVICE_PORT_5000_TCP_ECD://10.102.206.156:5000
NOTE_SERVICE_PORT_3000=3000
NOTE_SERVICE_PORT_3000=3000
NOTE_SERVICE_PORT_3000=3000
NOTE_SERVICE_PORT_3000_TCP_ADDR=10.102.206.156
GANACHE_SERVICE_HOST=10.101.113.179
REACT_PORT_3000_TCP=tcp://10.6.111.61:3000
KUBERNETES_SERVICE_HOST=10.96.0.1
GANACHE_PORT_8545_TCP_PROTO=tcp
GANACHE_PORT_8545_TCP_PROTO=tcp
GANACHE_PORT_8545_TCP_PROTO=tcp
GANACHE_PORT_8545_TCP_PROTO=tcp
GANACHE_PORT_8545_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_3000_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_3000_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_3000_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_3000_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_3000_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_3000_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_3000_TCP_PROTO=tcp
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_PORT=8000
NOTE_SERVER_SERVICE_PORT_2000_TCP_PORT=8001
KUBERNETES_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_PORT=8001
MONGOOB_SERVICE_PORT_2000_TCP_PORT=8001
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139
MONGOOB_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139:27017
KUBERNETES_SERVICE_PORT_2000_TCP_ADDR=10.99.49.139:27017
KUBERNETES_SERVICE_PORT_3000_TCP_PORT=8000
NOTINEMEDIA_SERVICE_PORT_3000_TCP_ADDR=10.99.49.139:27017
KUBERNETES_SERVICE_PORT_3000_TC
```

- Using image gcr.io/k8s-minikube/storage-provisioner:v5
 Using image docker.io/kubernetesui/dashboard:v2.7.0
 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! kubectl is now configured to use "minikube" cluster and "default" namespace by default

 simarchawla@Simars-Air docker-ethereum % kubectl create role example-role --verb=get,list,watch --resource=pods role.rbac.authorization.k8s.io/example-role created

 simarchawla@Simars-Air docker-ethereum % kubectl create rolebinding example-binding --role=example-role --user= st-user
 error: failed to create rolebinding: Timeout: request did not complete within requested timeout context deadl exceeded

 simarchawla@Simars-Air docker-ethereum % kubectl create rolebinding example-binding --role=example-role --user= st-user
 rolebinding.rbac.authorization.k8s.io/example-binding created

 simarchawla@Simars-Air docker-ethereum % minikube addons enable metrics-server

 simarchawla@Simars-Air docker-ethereum % minikube addons enable metrics-server

 simarchawla@Simars-Air docker-ethereum % minikube addons enable metrics-server

 metrics-server is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.
- simarchawla@Simars-Air docker-ethereum % minikube addons enable metrics-server
 ↑ 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
 simarchawla@Simars-Air docker-ethereum % kubectl apply -f dapp-hpa.yaml horizontalpodautoscaler.autoscaling/dapp-hpa created
- simarchawla@Simars-Air docker-ethereum % kubectl apply -f frontend-hpa.yaml horizontalpodautoscaler.autoscaling/frontend-hpa created simarchawla@Simars-Air docker-ethereum % kubectl get hpa REFERENCE **TARGETS** MINPODS MAXPODS **REPLICAS** AGE dapp-hpa Deployment/dapp <unknown>/50% 2m48s frontend-hpa Deployment/react <unknown: simarchawla@Simars-Air docker-ethereum % o <unknown>/50% 20s