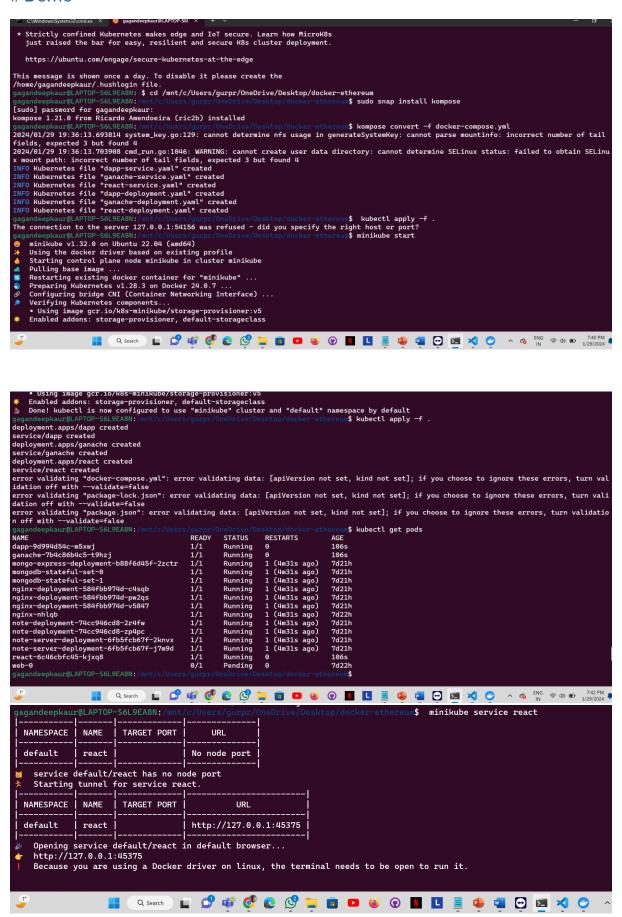
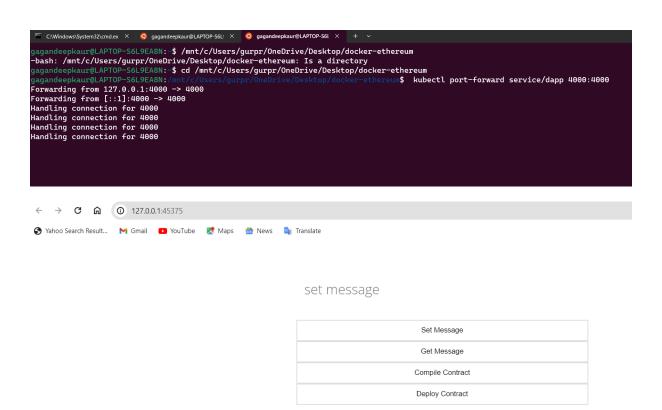
Demo





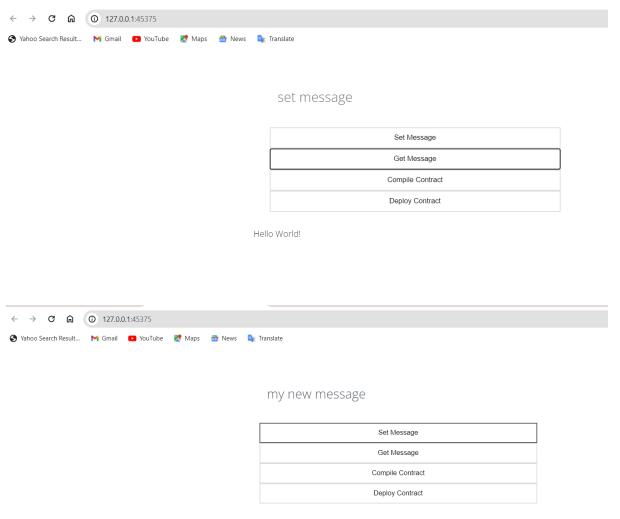
Contract compiled successfully!



set message

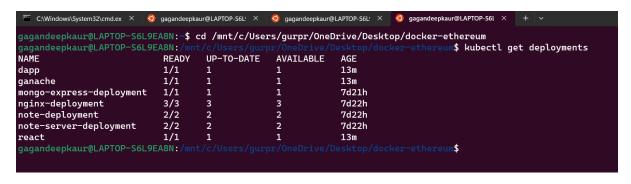


0xDd7aD967c331d2bB3847bF4D04bfAAB295C16AD0



0x662f35b07653ce49c713638e28b65ea53eb5480bd0019d41b16e018266dad67d

Deployment Replicaset



```
sktop/docker-ethereum$ kubectl apply -f secret-configmap.yaml
configmap/node-app-config created
                                                                                                                                              ethereum$ kubectl apply -f dapp-deployemnt.yaml
error: the path "dapp-deployemnt.yaml" does not exist
                                                                                                                                                              $ kubectl apply -f dapp-deployment.yaml
deployment.apps/dapp configured
                                                                                                                                                             s kubectl get pods
                                                                                                                                                  AGE
11s
15m
7d22h
7d22h
7d22h
                                                                                   STATUS
                                                                                                                       RESTARTS
dapp-5f85856bf7-njpzn
                                                                                                   Running
Running
Running
Running
ganache-7b4c8664c5-t9hzj
mongo-express-deployment-b88f6d45f-2zctr
mongodb-stateful-set-0
                                                                                                                      0
1 (18m ago)
mongoub-stateful-set-1
nginx-deployment-584fbb974d-c4sqb
nginx-deployment-584fbb974d-pw2qs
nginx-deployment-584fbb974d-v5847
nginx-deployment-584fbb974d-v5847
nginx-hlqb
note-deployment-74cc946cd8-2r4fw
                                                                                                   Running
Running
Running
                                                                                                                                                   7d22h
7d22h
7d21h
7d22h
7d22h
7d22h
7d22h
7d22h
7d22h
                                                                                                   Running
Running
Running
note-deployment-74cc946cd8-zp4pc
note-server-deployment-6fb5fcb67f-2knvx
note-server-deployment-6fb5fcb67f-j7m9d
react-6c46cbfc45-kjxq8
                                                                                                   Running
Running
Running
                                                                                                    Running
                                                                                                                                                   15m
7d22h
web-0 0/1 Pendang 0
gagandeepkaur@LAPTOP-SGL9EABN:/mmt/c/Users/numpr/Obenshive/Desiktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
HOSTMAME=dapp-5f88856bf7-njpzn
NODE_PORT=8080
DAPP_PORT_4000_TCP_PORT=4000
                                                                                                                                                             $ kubectl exec dapp-5f85856bf7-njpzn -- env
GANACHE_SERVICE_PORT=8545
MONGODB_SERVICE_SERVICE_HOST=10.109.43.119
MONGO_EXPRESS_SERVICE_PORT_8081_TCP_PROT0=tcp
REACT_SERVICE_PORT=3000
KUBERNETES_PORT_443_TCP_PORT=443
MONGODB_SERVICE_SERVICE_PORT=27017
MONGODB_SERVICE_PORT=tcp://10.109.43.119:27017
                                     🔡 Q. Search 📗 🧬 💞 🤡 😰 🚱 🛅 📵 🔼 🍪 🕥 📳 🚨 🔞 🗷 🚳 🗷 💮 🔝 💆 💆 💆 💆 💆 🔭 1737 PM
```

scaling - HPA

```
m$ kubectl apply -f scaling-hpa.yaml
horizontalpodautoscaler.autoscaling/react configured
                                                                               docker-ethereum$ kubectl autoscale deployment react --cpu-percent=50 --min=1 -
-max=10

Error from server (AlreadyExists): horizontalpodautoscalers.autoscaling "react" already exists

-max=10

Error from server (AlreadyExists): horizontalpodautoscalers.autoscaling "react" already exists

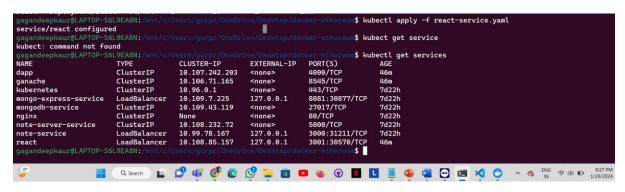
-max=10

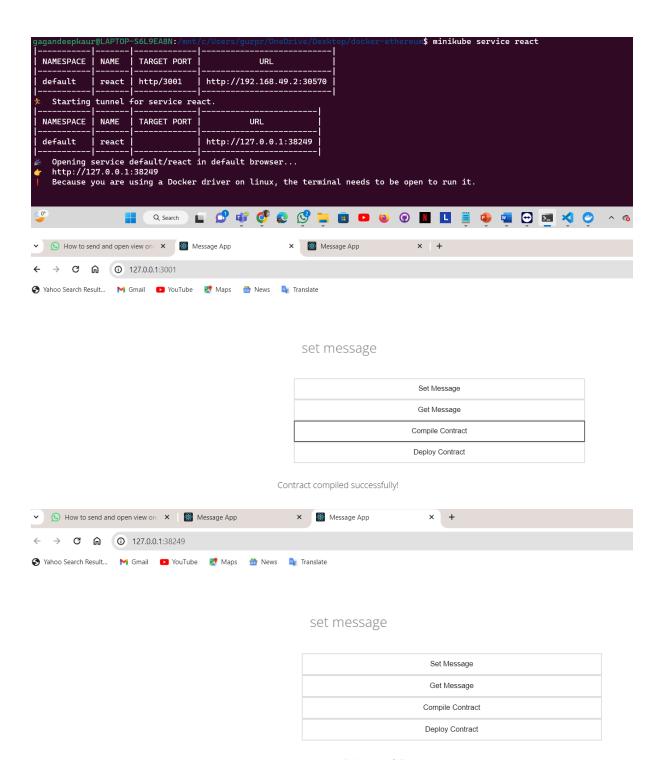
Error from server (AlreadyExists): horizontalpodautoscalers.autoscaling "react" already exists

-max=10

Error from server (AlreadyExists): horizontalpodautoscalers.autoscaling "react" already exists
rom are planned APTOP-S6L9EASN: MINPODS PeptaureLAPTOP-S6L9EASN: MINPODS PeptaureLAPTOP-S6L9EASN: MINPODS REFERENCE TARGETS MINPODS MINPODS MINPODS MINPODS
NAME
                                                                                AGE
13m
                                                       MAXPODS
                                                                   REPLICAS
                                                                                               m$ kubectl get hpa
NAME
                                                       MAXPODS
10
                                                                   REPLICAS
                                                                                AGE
13m
         Deployment/react 0%/40%
                                                                                                              eum$ kubectl get hpa react
                                      TARGETS
NAME
           REFERENCE
                                                    MINPODS
                                                                  MAXPODS
                                                                                REPLICAS
          Deployment/react 45%/40%
                                                                  10
react
gagandeepkaur@LAPTOP-S6L9EA8N:/mnt
                                                                                                    r-ethereum$
0°
```

Load balance





Contract compiled successfully!

Role binding

```
$ openssl genrsa -out gagan.key 2048
$ openssl req -new -key gagan.key -out gagan.csr -subj "/CN-gagan.csr
 an/O=dev/O=example.org'
                                                                                                                ocker-ethereum$ openssl x509 -reg -CA ~/.minikube/ca.crt -CAkey ~/.minikube
ca.key -CAcreateserial -days 730 -in gagan.csr -out gagan.crt
Certificate request self-signature ok
subject=CN = gagan, 0 = dev, 0 = example.org
                                                                                                      ktop/docker-ethereum$ kubectl config set-credentials gagan --client-certificate=ga
gan.crt --client-key=gagan.key
User "gagan" set.
gagandeepkaur@LAPTOP-S6L9EA8N:
                                                              .
Users/qurpr/OneDrive/Desktop/docker-ethereum$ kubectl config set-context gagan-minikube --cluster=minikube
 --user=gagan --namespace=default
Context "gagan-minikube" created.
                                                                                                              docker-ethereum$ kubectl config get-contexts
                                                              Users/gurpr/Uneuriver
AUTHINFO NAMESPACE
gagan default
               NAME
                                            CLUSTER
                NAME CLUSTER gagan-minikube minikube minikube
                                                              gagan default
minikube default
                                                                                                              docker-ethereum$ kubectl config use-context gagan-minikube
Switched to context "gagan-minikube"
gagandeepkaur@LAPTOP-5619EA8N:/mnt/c/Users/gurpr/OneDrive/Desktop/docker-ethereum$ kubectl get pods

Error from server (Forbidden): pods is forbidden: User "gagan" cannot list resource "pods" in API group "" in the namespace "default"

gagandeepkaur@LAPTOP-5619EA8N:/mnt/c/Users/gurpr/OneDrive/Desktop/docker-ethereum$
                         /docker-ethereum$ kubectl apply -f role.vaml
role.rbac.authorization.k8s.io/pod-reader unchanged
                                                                                                                          -ethereum$ kubectl apply -f role-binding.yaml
rolebinding.rbac.authorization.k8s.io/read-pods configured
                                                                                                                                   eum$ kubectl get pods
                                                                                                                             AGE
52m
67m
38m
7d22h
dapp-5f85856bf7-njpzn
ganache-7b4c86b4c5-t9hzj
load-generator
                                                                                     Running
Running
Error
                                                                        0
1 (70m ago)
mongo-express-deployment-b88f6d45f-2zctr
                                                                                      Running
mongod-express-deployment-b88fbd4sf
mongodb-stateful-set-1
nginx-deployment-584fbb974d-c4sqb
nginx-deployment-584fbb974d-c4sqb
nginx-deployment-584fbb974d-v5847
nginx-nhlqb
                                                                                     Running
Running
Running
Running
Running
                                                                                                                              7d23h
7d23h
7d22h
7d23h
                                                                                                                              7d23h
7d23h
7d22h
7d23h
                                                                                     Running
Running
Running
ngin-nniqb
note-deployment-74cc946cd8-2r4fw
note-deployment-74cc946cd8-zp4pc
note-server-deployment-6fb5fcb67f-2knvx
note-server-deployment-6fb5fcb67f-j7m9d
react-95c5d68df-vc9qv
                                                                                                                              7d22h
7d22h
7d22h
7d22h
                                                                                     Running
Running
Running
                                                                                                                              7d22h
                                                                                                                              41m
7d23h
web-0
                                                                                      Pending
                                ■ Q. Search ■ 🗗 🗗 🗗 🗗 🚱 😢 🖺 📵 💶 🐿 🕡 🕟 🔝 🚨 🔞 🖎 <equation-block> 🔞 🔝 🕒 🕒 🔞 🔞 🕞 🔠 🕞 🕞 🖂 🕞 🖂 848 PM
                                                                                                                                           m$ kubectl config use-context gagan-minikube
Switched to context "gagan-minikube"
                                                                                                                                         um$ kubectl get pods
NAME
                                                                          READY
                                                                                        STATUS
                                                                                                          RESTARTS
                                                                                                                                 AGE
53m
dapp-5f85856bf7-njpzn
                                                                          Running
ganache-7b4c86b4c5-t9hzj
load-generator
                                                                                        Running
Error
                                                                                                                                 68m
39m
mongo-express-deployment-b88f6d45f-2zctr
mongodb-stateful-set-0
mongodb-stateful-set-1
                                                                                        Running
Running
Running
                                                                                                         1 (71m ago)
1 (71m ago)
1 (71m ago)
                                                                                                                                  7d22h
                                                                                                                                  7d23h
                                                                                                        1 (71m ago)
0
1 (71m ago)
6
nginx
nginx-deployment-584fbb974d-c4sqb
                                                                                        Running
Running
                                                                                                                                  29s
7d23h
nginx-deployment-584fbb974d-pw2qs
nginx-deployment-584fbb974d-v5847
nginx-nhlqb
                                                                                        Running
Running
                                                                                                                                  7d23h
                                                                                        Running
                                                                                                                                  7d23h
ngin-nniqb
note-deployment-74cc946cd8-2r4fw
note-deployment-74cc946cd8-zp4pc
note-server-deployment-6fb5fcb67f-2knvx
note-server-deployment-6fb5fcb67f-j7m9d
react-95c5d68df-vc9qv
                                                                                        Running
Running
                                                                                                                                  7d23h
7d23h
                                                                                        Running
Running
                                                                                                                                  7d23h
7d23h
                                                                                        Running
Pending
                                                                                                                                  42m
                                                                                                                                  7d23h
 gagandeepkaur@LAPTOP-S6L9EA8N:/mnt/c/User
```

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```
gagandeepkaur@LAPTOP-S6L9EABN:/mmt/c/Users/gurpr/OneDrive/Desktop/docker-ethereus kubectl run nginx --image=nginx
Error from server (Forbidden): pods is forbidden: User "gagan" cannot create resource "pods" in API group "" in the namespace "default"
gagandeepkaur@LAPTOP-S6L9EABN:/mmt/c/Users/gurpr/OneDrive/Desktop/docker-ethereum kubectl config use-context minikube
Switched to context "minikube".
                                            /Users/gurpr/OneDrive/Desktop/docker-ethereum$ kubectl create ns test
namespace/test created
gagandeepkaur@LAPTOP-S6L9EA8N:
                                                                                      -ethereum$ kubectl run nginx --image=nginx -n test
pod/nginx created
                                                                                       ethereum$ kubectl get pods -n test
         epkaur@LAPTOP-S6L9EASN:/minc/c/osc
READY STATUS RESTARTS AGE
1/1 Running 0 12s
name READY
gagandeeppaurgLAPIOP—S6L9EA8N:/mmt/c/Users/gurpr/OneDrive/Desktop/docker-ethereus$ kubectl apply -f cluster-role.yaml gagandeepkaurgl.APIOP—s6L9EA81./mmt/c/Users/gurpr/OneDrive/Desktop/docker-ethereus$ kubectl apply -f cluster-role.yaml
                                                                      Desktop/docker-ethereum$ kubectl apply -f cluster-rolebinding.yaml
clusterrolebinding.rbac.authorization.k8s.io/pod-reader-global created
                                                                                     r-ethereum$ kubectl config use-context gagan-minikube
Switched to context "gagan-minikube".
                                                          /OneDrive/Desktop/docker-ethereum$ kubectl get pods -n test
NAME READY
         pkadret.Prop Sot Becker:
READY STATUS RESTARTS AGE
1/1 Running 0 80s
pkaur@LAPTOP-SGL9EA8N:/mnt/c/Users/gurpr/OneDi
       leepkaur@LAPTOP-S
                                                                 ive/Desktop/docker-ethereum$
                   m$ kubectl config use-context minikube
Switched to context "minikube"
gagandeepkaur@LAPTOP-S6
NAME SECRETS AGE
default 0
                       7d23h
default
gagandeepkaur@LAPTOP-S6L9E
NAME SECRETS AGE
3m37s
serviceaccount/test-sa created
                                                                             docker-ethereum$ kubectl config use-context gagan-minikube
Switched to context "gagan-minikube".
gagandeepkaur@LAPIOP-S6L9EABN:/mnt/c/Users/gurpr/OneDrive/Desktop/docker-ethereus$ kubectl apply -f kubectl-pod.yaml
Error from server (Forbidden): error when creating "kubectl-pod.yaml": pods is forbidden: User "gagan" cannot create resource "pods" in API grou
p "" in the namespace "default"
gagandeepkaur@LAPTOP-S6L9EA8N:/mnt/c/Us
Switched to context "minikube".
                                              ers/gurpr/OneDrive/Desktop/docker-ethereum$ kubectl config use-context minikube
                                                                                                s kubectl config use-context gagan-minikube
Switched to context "gagan-minikube".
                                                                                           reum$ kubectl exec -it kubectl-pod -- bash
Error from server (NotFound): pods "kubectl-pod" not found
                                                                                      -ethereum$ kubectl config use-context minikube
Switched to context "minikube".
                                                                                            reum$ kubectl apply -f role-binding-1.yaml
rolebinding.rbac.authorization.k8s.io/read-pods configured
                                                                      Desktop/docker-ethereum$ kubectl apply -f kubectl-pod-1.yaml
 ood/kubectl-pod1 created
                                     mnt/c/Users/gurpr/OneDrive/Desktop/docker-ethereum$ kubectl exec -it kubectl-pod1 -- bash
I have no name!@kubectl-pod1:/$
I have no name!@kubectl-pod1:/$
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                                                                                                         m$ kubectl config use-context minikube
Switched to context "minikube"
gagandeepkaur@LAPTOP-S6L9EA8N:/mnt/c/Users/gurpr/OneDrive/Desktop/docker-ethereum$ kubectl auth can-i create pods
yes
gagandeepkaur@LAPTOP-S6L9EA8N:/mnt/c/Users/gurpr/OneDrive/Desktop/docker-ethereum$ kubectl auth can-i get pods
gagandeepkaur@LAPTOP-S6L9EA8N:/mnt/c/Users/gurpr/OneDrive
error: no context exists with the name: "gagan-minikue"
                                                                                ktop/docker-ethereum$ kubectl config use-context gagan-minikue
                                                                                 ktop/docker-ethereum$ kubectl config use-context gagan-minikube
Switched to context "gagan-minikube".
                                                                           Desktop/docker-ethereum$ kubectl auth can-i create pods
                                                                            Desktop/docker-ethereum$ kubectl auth can-i get pods
```