

Docker Ethereum app in kubernetes

<https://ubuntu.com/engage/secure-kubernetes-at-the-edge>

```
This message is shown once a day. To disable it please create the
/home/reetika/.hushlogin file.
reetika@DESKTOP-17FQPRN:~$ cd /mnt/c/Users/ritik/Desktop/docker-ethereum
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ sudo snap install kompose
[sudo] password for reetika:
kompose 1.21.0 from Ricardo Amendeira (ric2b) installed
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/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 "react-deployment.yaml" created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f .
Command 'kubectl' not found, but can be installed with:
sudo snap install kubectl
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/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
error validating "docker-compose.yml": error validating data: [apiVersion not set, kind not set]; if you choose to ignore these error
s, turn validation off with --validate=false
error validating "package-lock.json": error validating data: [apiVersion not set, kind not set]; if you choose to ignore these errors
, turn validation off with --validate=false
error validating "package.json": error validating data: [apiVersion not set, kind not set]; if you choose to ignore these errors, tur
n validation off with --validate=false
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$
```

NAME	READY	STATUS	RESTARTS	AGE
dapp-9d994d54c-8s6nq	0/1	ContainerCreating	0	3m55s
dapp-9d994d54c-rxwvt	0/1	ContainerCreating	0	66s
demo-pod	1/1	Running	1 (5m47s ago)	4d
ganache-7b4c86b4c5-cm6hd	0/1	ContainerCreating	0	65s
ganache-7b4c86b4c5-qmxbb	1/1	Running	0	3m54s
mongo-express-deployment-b88f6d45f-hnvth	1/1	Running	2 (5m47s ago)	7d2h
mongodb-stateful-set-0	1/1	Running	2 (5m47s ago)	7d2h
mongodb-stateful-set-1	1/1	Running	2 (5m47s ago)	7d2h
my-pod	1/1	Running	13 (5m47s ago)	2d8h
nginx-deployment-584fbb974d-4ktcp	1/1	Running	4 (5m47s ago)	9d
nginx-deployment-584fbb974d-dfr8p	1/1	Running	4 (5m47s ago)	9d
nginx-deployment-584fbb974d-lrlpf	1/1	Running	4 (5m47s ago)	9d
nginx-m5pzz	1/1	Running	4 (5m47s ago)	9d
note-deployment-74cc946cd8-25gfq	1/1	Running	3 (5m47s ago)	7d2h
note-deployment-74cc946cd8-2t56b	1/1	Running	3 (5m47s ago)	7d2h
note-server-deployment-6fb5fcb67f-txvrh	1/1	Running	2 (5m47s ago)	7d2h
note-server-deployment-6fb5fcb67f-wnnb4	1/1	Running	2 (5m47s ago)	7d2h
react-6c46cbfc45-8trbp	1/1	Running	0	3m52s
react-6c46cbfc45-pvtfg	1/1	Running	0	64s
web-0	0/1	Pending	0	9d
web-db44c7d4f-4x6nf	1/1	Running	4 (5m47s ago)	9d
web-db44c7d4f-csflf	1/1	Running	4 (5m47s ago)	9d
web-db44c7d4f-hppqw	1/1	Running	4 (5m47s ago)	9d

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get deployments
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
dapp	0/2	2	0	4m29s
ganache	1/2	2	1	4m28s
mongo-express-deployment	1/1	1	1	7d2h
nginx-deployment	3/3	3	3	9d
note-deployment	2/2	2	2	7d2h
note-server-deployment	2/2	2	2	7d2h
react	2/2	2	2	4m27s

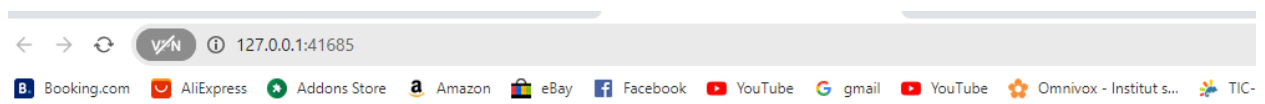
```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ minikube service react
```

NAMESPACE	NAME	TARGET PORT	URL
default	react		No node port

🐛 service default/react has no node port
 ⚠️ Starting tunnel for service react.

NAMESPACE	NAME	TARGET PORT	URL
default	react		http://127.0.0.1:41685

🌐 Opening service default/react in default browser...
 🖱️ http://127.0.0.1:41685
 ! Because you are using a Docker driver on linux, the terminal needs to be open to run it.



set message

Set Message
Get Message
Compile Contract
Deploy Contract

Contract compiled successfully!

```
reetika@DESKTOP-17FQPRN:~$ kubectl port-forward service/dapp 4000:4000
Forwarding from 127.0.0.1:4000 -> 4000
Forwarding from [::1]:4000 -> 4000
Handling connection for 4000
Handling connection for 4000
```

set message

Set Message
Get Message
Compile Contract
Deploy Contract

0x023E565aFebCF731BED65fB6452b68659c32A9Fb

set message

Set Message
Get Message
Compile Contract
Deploy Contract

Hello World!

--- replicaset ---

```
reetika@DESKTOP-17FQPRN:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
dapp-9d994d54c-8s6nq               1/1     Running   0           10m
dapp-9d994d54c-rxwvt               1/1     Running   0           7m49s
demo-pod                           1/1     Running   1 (12m ago)  4d
ganache-7b4c86b4c5-cm6hd          1/1     Running   0           7m48s
ganache-7b4c86b4c5-qmxbbb         1/1     Running   0           10m
mongo-express-deployment-b88f6d45f-hnvth 1/1     Running   2 (12m ago)  7d2h
mongodb-stateful-set-0             1/1     Running   2 (12m ago)  7d2h
mongodb-stateful-set-1             1/1     Running   2 (12m ago)  7d2h
my-pod                             1/1     Running   13 (12m ago) 2d8h
nginx-deployment-584fbb974d-4ktcp  1/1     Running   4 (12m ago)  9d
nginx-deployment-584fbb974d-dfr8p  1/1     Running   4 (12m ago)  9d
nginx-deployment-584fbb974d-lr1pf  1/1     Running   4 (12m ago)  9d
nginx-m5pzzr                      1/1     Running   4 (12m ago)  9d
note-deployment-74cc946cd8-25gfg  1/1     Running   3 (12m ago)  7d2h
note-deployment-74cc946cd8-2t56b  1/1     Running   3 (12m ago)  7d2h
note-server-deployment-6fb5fcb67f-txvrh 1/1     Running   2 (12m ago)  7d2h
note-server-deployment-6fb5fcb67f-wnnb4 1/1     Running   2 (12m ago)  7d2h
react-6c46cbfc45-8trbp            1/1     Running   0           10m
react-6c46cbfc45-pvtfg            1/1     Running   0           7m47s
web-0                              0/1     Pending   0           9d
web-db44c7d4f-4x6nf              1/1     Running   4 (12m ago)  9d
web-db44c7d4f-csflf              1/1     Running   4 (12m ago)  9d
web-db44c7d4f-hpqpw              1/1     Running   4 (12m ago)  9d
reetika@DESKTOP-17FQPRN:~$ kubectl delete pod dapp-9d994d54c-8s6nq
pod "dapp-9d994d54c-8s6nq" deleted
reetika@DESKTOP-17FQPRN:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
dapp-9d994d54c-qt7tc               1/1     Running   0           7s
dapp-9d994d54c-rxwvt               1/1     Running   0           8m37s
demo-pod                           1/1     Running   1 (13m ago)  4d
ganache-7b4c86b4c5-cm6hd          1/1     Running   0           8m36s
```

--- secret -----

```
reetika@DESKTOP-17FQPRN:~$ cd /mnt/c/Users/ritik/Desktop/docker-ethereum
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f dapp-config.yaml
configmap/node-app-config created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f dapp-deployemnt.yaml
error: the path "dapp-deployemnt.yaml" does not exist
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f dapp-deployment.yaml
error: the path "dapp-deployment.yaml" does not exist
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f dapp-deployment.yaml
deployment.apps/dapp configured
```

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl exec dapp-5f85856bf7-glfht -- env
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
HOSTNAME=dapp-5f85856bf7-glfht
NODE_PORT=8080
NGINX_SERVICE_PORT=80
NOTE_SERVICE_PORT_3000_TCP_PORT=3000
GANACHE_SERVICE_PORT=8545
DAPP_SERVICE_PORT_4000=4000
NOTE_SERVICE_PORT_3000_TCP_ADDR=10.111.85.249
REACT_SERVICE_PORT=3000
MONGODB_SERVICE_PORT=tcp://10.107.163.164:27017
KUBERNETES_SERVICE_PORT_HTTPS=443
KUBERNETES_PORT_443_TCP_PORT=443
DAPP_SERVICE_HOST=10.106.187.168
REACT_SERVICE_PORT_3000=3000
MONGODB_SERVICE_PORT_27017_TCP=tcp://10.107.163.164:27017
KUBERNETES_SERVICE_HOST=10.96.0.1
KUBERNETES_PORT_443_TCP=tcp://10.96.0.1:443
GANACHE_PORT_8545_TCP_ADDR=10.102.72.128
DAPP_SERVICE_PORT=4000
NGINX_PORT_80_TCP_PORT=80
REACT_PORT=tcp://10.97.187.183:3000
MONGODB_SERVICE_PORT_27017_TCP_PORT=27017
GANACHE_PORT_8545_TCP_PORT=8545
MONGO_EXPRESS_SERVICE_PORT_8081_TCP_PROTO=tcp
MONGO_EXPRESS_SERVICE_PORT_8081_TCP_ADDR=10.96.71.190
NOTE_SERVICE_SERVICE_PORT=3000
```

--- HPA scaling ---

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f react-deployment.yaml
deployment.apps/react configured
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl autoscale deployment react --cpu-percent=50 --min=1 --max=10
horizontalpodautoscaler.autoscaling/react autoscaled
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f react-hpa.yaml
error: the path "react-hpa.yaml" does not exist
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f hpa.yaml
Warning: resource horizontalpodautoscalers/react is missing the kubectrl.kubernetes.io/last-applied-configuration annotation which is required by kubectl apply. kubectl apply should only be used on resources created declaratively by either kubectl create --save-configuration or kubectl apply. The missing annotation will be patched automatically.
horizontalpodautoscaler.autoscaling/react configured
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$
```

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get hpa
NAME      REFERENCE          TARGETS  MINPODS  MAXPODS  REPLICAS  AGE
react     Deployment/react    0%/50%   1         5         1          7m16s
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get hpa
NAME      REFERENCE          TARGETS  MINPODS  MAXPODS  REPLICAS  AGE
react     Deployment/react    67%/50%   1         5         1          7m30s
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$
```

--- Load balancing -----

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f react-service.yaml
service/react configured
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get service
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
dapp	ClusterIP	10.106.187.168	<none>	4000/TCP	39m
ganache	ClusterIP	10.102.72.128	<none>	8545/TCP	39m
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	10d
mongo-express-service	LoadBalancer	10.96.71.190	127.0.0.1	8081:30095/TCP	7d3h
mongodb-service	ClusterIP	10.107.163.164	<none>	27017/TCP	7d3h
nginx	ClusterIP	10.97.106.120	<none>	80/TCP	10d
note-server-service	ClusterIP	10.107.135.176	<none>	5000/TCP	7d3h
note-service	LoadBalancer	10.111.85.249	127.0.0.1	3000:31749/TCP	7d3h
react	LoadBalancer	10.97.187.183	127.0.0.1	3001:30901/TCP	38m

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$
```

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ minikube service react
```

NAMESPACE	NAME	TARGET PORT	URL
default	react	http/3001	http://192.168.49.2:30901

✧ Starting tunnel for service react.

NAMESPACE	NAME	TARGET PORT	URL
default	react		http://127.0.0.1:34827

🚀 Opening service default/react in default browser...
👉 http://127.0.0.1:34827
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

← → ↺ ✓ 127.0.0.1:3001

Booking.com AliExpress Addons Store Amazon eBay Facebook YouTube gmail YouTube Omnivox - Institut s... TIK

set message

Set Message
Get Message
Compile Contract
Deploy Contract

Contract compiled successfully!

set message

Set Message
Get Message
Compile Contract
Deploy Contract

0x9bA94F7e7ef966Cc9c6d55B2008CFde5F3D4c5b3

set message

Set Message
Get Message
Compile Contract
Deploy Contract

Hello World!

---Role binding----

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ openssl genrsa -out reetika.key 2048
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ openssl req -new -key reetika.key -out reetika.csr -subj "/CN=reetika/O=dev/O=example.org"
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ ls
Dockerfile      dapp-service.yaml      hpa.yaml          react-deployment.yaml  role-binding.yaml
Dockerfile.ganache cluster-role.yaml      docker-compose.yaml kubectl-pod-1.yaml    react-service.yaml     role.yaml
LICENSE         cluster-rolebinding.yaml etherium           kubectl-pod.yaml      reetika.csr            reetika.key
LICENSE.md      dapp-config.yaml       ganache-deployment.yaml package-lock.json      reetika.key            server
README.md       dapp-deployment.yaml   ganache-service.yaml package.json           role-binding-1.yaml
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ openssl x509 -req -CA ~/.minikube/ca.crt -CAkey ~/.minikube/ca.key -CAcreateserial -days 730 -in reetika.csr -out reetika.crt
Certificate request self-signature ok
subject=CN = reetika, O = dev, O = example.org
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config set-credentials reetika --client-certificate=reetika.crt --client-key=reetika.key
User "reetika" set.
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config set-context reetika-minikube --cluster=minikube --user=reetika --namespace=default
Context "reetika-minikube" created.
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config get-contexts
CURRENT  NAME           CLUSTER  AUTHINFO  NAMESPACE
*        minikube       minikube minikube  default
        reetika-minikube minikube reetika   default
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context reetika-minikube
Switched to context "reetika-minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get pods
Error from server (Forbidden): pods is forbidden: User "reetika" cannot list resource "pods" in API group "" in the namespace "default"
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context minikube
Switched to context "minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f role.yaml
role.rbac.authorization.k8s.io/pod-reader created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f role-binding.yaml
```

```
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f role-binding.yaml
rolebinding.rbac.authorization.k8s.io/read-pods created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context reetika-minikube
Switched to context "reetika-minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
dapp-5f85856bf7-glft               1/1      Running   0           41m
demo-pod                            1/1      Running   1 (62m ago)  4d
ganache-7b4c86b4c5-cm6hd           1/1      Running   0           58m
ganache-7b4c86b4c5-qmxb           1/1      Running   0           61m
mongo-express-deployment-b88f6d45f-hnvth 1/1      Running   2 (62m ago)  7d3h
mongodb-stateful-set-0              1/1      Running   2 (62m ago)  7d3h
mongodb-stateful-set-1              1/1      Running   2 (62m ago)  7d3h
my-pod                              1/1      Running   14 (95s ago) 2d9h
nginx-deployment-584fbb974d-4ktcp    1/1      Running   4 (62m ago)  9d
nginx-deployment-584fbb974d-dfr8p    1/1      Running   4 (62m ago)  9d
nginx-deployment-584fbb974d-lrlpf    1/1      Running   4 (62m ago)  9d
nginx-m5pzzr                        1/1      Running   4 (62m ago)  10d
note-deployment-74cc946cd8-25gfg     1/1      Running   3 (62m ago)  7d3h
note-deployment-74cc946cd8-2t56b     1/1      Running   3 (62m ago)  7d3h
note-server-deployment-6fb5fcb67f-txvrh 1/1      Running   2 (62m ago)  7d3h
note-server-deployment-6fb5fcb67f-wnnb4 1/1      Running   2 (62m ago)  7d3h
react-95c5d68df-n2lg2               1/1      Running   0           34m
web-0                               0/1      Pending   0           10d
web-db44c7d4f-4x6nf                 1/1      Running   4 (62m ago)  10d
web-db44c7d4f-csflf                 1/1      Running   4 (62m ago)  10d
web-db44c7d4f-hpqpw                 1/1      Running   4 (62m ago)  10d
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$
```




```

reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl run nginx --image=nginx
Error from server (Forbidden): pods is forbidden: User "reetika" cannot create resource "pods" in API group "" in the namespace "default"
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context minikube
Switched to context "minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl create ns test
namespace/test created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl run nginx --image=nginx -n test
pod/nginx created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get pods -n test
NAME      READY   STATUS    RESTARTS   AGE
nginx     1/1     Running   0           11s
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f cluster-role.yaml
clusterrole.rbac.authorization.k8s.io/pod-reader created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f cluster-rolebinding.yaml
clusterrolebinding.rbac.authorization.k8s.io/pod-reader-global created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context reetika-minikube
Switched to context "reetika-minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get pods -n test
NAME      READY   STATUS    RESTARTS   AGE
nginx     1/1     Running   0           2m10s
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context minikube
Switched to context "minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get sa
NAME      SECRETS   AGE
default   0          10d
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl get sa -n test
NAME      SECRETS   AGE
default   0          3m11s
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl create sa test-sa
serviceaccount/test-sa created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context reetika-minikube
Switched to context "reetika-minikube".

```

```

reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context reetika-minikube
Switched to context "reetika-minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f kubectl-pod.yaml
Error from server (Forbidden): error when creating "kubectl-pod.yaml": pods is forbidden: User "reetika" cannot create resource "pods" in API group "" in the namespace "default"
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl exec -it kubectl-pod1 -- bash
Error from server (NotFound): pods "kubectl-pod1" not found
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context minikube
Switched to context "minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f role-binding-1.yaml
rolebinding.rbac.authorization.k8s.io/read-pods configured
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl apply -f kubectl-pod-1.yaml
pod/kubectl-pod1 created
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl exec -it kubectl-pod1 -- bash
error: unable to upgrade connection: container not found ("kubectl")
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl exec -it kubectl-pod1 -- bash
I have no name!@kubectl-pod1:/$

```

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reetika@DESKTOP-17FQPRN:~$ cd /mnt/c/Users/ritik/Desktop/docker-ethereum
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context minikube
Switched to context "minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl auth can-i create pods
yes
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context reetika-minikube
error: no context exists with the name: "reetika-minikube"
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl config use-context reetika-minikube
Switched to context "reetika-minikube".
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl auth can-i create pods
no
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ kubectl auth can-i get pods
yes
reetika@DESKTOP-17FQPRN:/mnt/c/Users/ritik/Desktop/docker-ethereum$ █

```