```
$ mkdir projet-react-kub-react
$ cd projet-react-kub-react
$_git clone https://github.com/lholmquist/react-web-app.git
Cloning into 'react-web-app'.
remote: Enumerating objects: 82, done.
remote: Total 82 (delta 0), reused 0 (delta 0), pack-reused 82 Receiving objects: 100% (82/82), 215.65 KiB | 788.00 KiB/s, done. Resolving deltas: 100% (31/31), done.
D:\projet-react-kub-react\react-web-app>npm install -g npm@7.0.12
Création de Dockerfile :
FROM node:current-slim
WORKDIR /usr/src/app
COPY package.json .
RUN npm install
EXPOSE 3000
COPY . ./
CMD [ "npm", "start" ]
D:\projet-react-kub-react\react-web-app> docker build --tag testreact-kub-dock:1.0 .
D:\projet-react-kub-react\react-web-app> docker run --publish 8989:3000 --detach --name
testreact 809560b83a0c
D:\projet-react-kub-react\react-web-app>docker stop 8de387be0ce7
D:\projet-react-kub-react\react-web-app>docker rm 8de387be0ce7
docker tag testreact-kub-dock:1.0 eylidal/react-kub-dock:1.0
docker push eylidal/react-kub-dock:1.0
```

gcloud container clusters get-credentials cluster-1 --zone europe-west1-b --project academic-oasis-296111

gcloud container clusters list

```
sim_rouxl@cloudshell:~ (academic-oasis-296111)$ kubectl cluster-info
Kubernetes master is running at https://35.205.68.244
GLBCDefaultBackend is running at https://35.205.68.244/api/v1/namespaces/kube-system/services/default-http-backend:http/proxy
KubeDNS is running at https://35.205.68.244/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
Metrics-server is running at https://35.205.68.244/api/v1/namespaces/kube-system/services/https:metrics-server:/proxy
```

 $sim_roux1@cloudshell:~ (academic-oasis-296111)$  kubectl get all --all-namespaces

sim_roux1@cloudshell:~ (academic-oasis-296111)\$ kubectl get allall-namespaces -o wide								
NAMESPACE	NAME		READY	STATUS	RESTARTS	AGE	IP	NODE
	NOMINATED NODE	READINESS GATES						
kube-system	pod/event-expo	rter-gke-77cccd97c6-gdh59	2/2	Running		23m	10.0.0.6	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system	pod/fluentd-gk	e-lxsrp	2/2	Running	0	22m	10.132.0.5	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system		e-scaler-54796dcbf7-d2k6s	1/1	Running	0	23m	10.0.0.2	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system	pod/gke-metric		1/1	Running		23m	10.132.0.5	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system		bb4975665-hmljx	4/4	Running	0	23m	10.0.0.5	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system		utoscaler-645f7d66cf-zfbrj	1/1	Running	0	23m	10.0.0.3	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system		-gke-cluster-1-default-pool-1d64f476-hs5t	1/1	Running	0	23m	10.132.0.5	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system		-backend-678889f899-w8spf	1/1	Running		23m	10.0.0.10	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>						
kube-system		rver-v0.3.6-64655c969-g4sls	2/2	Running	0	23m	10.0.0.8	gke-cluster-1-default-pool-1d64
	<none></none>	<none></none>					40.400.0.5	
kube-system	pod/prometheus	-to-sd-jb28g	1/1	Running	0	23m	10.132.0.5	gke-cluster-1-default-pool-1d64

```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: deployment-react
 labels:
  deployment: react
spec:
 replicas: 3
 selector:
  matchLabels:
   pod: react
 template:
  metadata:
   labels:
    pod: react
  spec:
   containers:
   - name: reactGKE
    image: eylidal/react-kub-dock:1.0
    ports:
    - containerPort: 3000
```

## deployment

replica set

pod

container

```
:6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl get deployments
                         READY
                                     UP-TO-DATE
NAME
                                                       AVAILABLE
                                                                        AGE
                          3/3
deploymentreact
                                                                        2m5s
apiversion: v1
kind: Service
metadata:
   name: my-service
spec:
   selector:
     pod: react
   ports:
     - protocol: TCP
        port: 8989
        targetPort: 3000
simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl apply -f deployment.yml
deployment.apps/deploymentreact configured
  :imro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
 $ kubectl get pod
 NAME
                                               READY
                                                          STATUS
                                                                       RESTARTS
                                                                                     AGE
                                               1/1
1/1
1/1
                                                          Running
                                                                                     19m
 deploymentreact-6bc4cb4dc5-d84mf
                                                                       0
 deploymentreact-6bc4cb4dc5-khlth
                                                          Running
                                                                       0
                                                                                     19m
 deploymentreact-6bc4cb4dc5-pjnmk
                                                          Running
  simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
 $ ^C
  :imro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl port-forward deploymentreact-6bc4cb4dc5-d84mf 8989:3000

Forwarding from 127.0.0.1:8989 -> 3000

Forwarding from [::1]:8989 -> 3000

Handling connection for 8989

Handling connection for 8989
 Handling connection for 8989
 Handling connection for 8989
   → C ① localhost 8989
 Applications ... Casino ... dessin ... Autre ... Rasp ... mongo ... solo certif ... NEXT-U EDUCATIO... ... Projet immobilier -... ... Mail
```

To get started, edit src/App.js and save to reload.

**Welcome to React on Openshift** 

```
simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl apply -f service.yml
service/my-service created
simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl get service
NAME
                         CLUSTER-IP
             TYPE
                                       EXTERNAL-IP
                                                     PORT(S)
                                                                 AGE
             ClusterIP
                          10.4.0.1
                                                     443/TCP
                                                                 147m
kubernetes
                                       <none>
                                                     8989/TCP
             ClusterIP
                          10.4.8.128
                                                                 39s
my-service
                                       <none>
```

```
simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl get service
             TYPE
                          CLUSTER-IP
                                       EXTERNAL-IP
                                                      PORT(S)
NAME
                                                                  AGF
                                                      443/TCP
8989/TCP
kubernetes
             ClusterIP
                          10.4.0.1
                                        <none>
                                                                  3h2m
my-service
             ClusterIP
                          10.4.8.128
                                                                  35m
                                        <none>
simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
```

```
:imro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl apply -f ingress.yml
ingress.networking.k8s.io/my-ingress unchanged
simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl get service
             TYPE
NAME
                            CLUSTER-IP
                                          EXTERNAL-IP
                                                          PORT(S)
                                                                         AGE
             ClusterIP
                            10.4.0.1
                                                                         16h
kubernetes
                                                          443/TCP
                                          <none>
                                                          80:30213/TCP
             LoadBalancer
                            10.4.8.128
                                          35.205.47.102
                                                                         14h
my-service
```

```
simro@DESKTOP-JPR6KRG MINGW64 /d/projet-react-kub-react/react-web-app (master)
$ kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
my-hpa Deployment/deploymentreact 0%/65% 3 50 3 49s
```