cd  /home/osboxes/Desktop/MSD/EventRegistration/Eventregistration

docker build -t project-data:v1.0 .

kubectl create deployment project-data --image=project-data:v1.0

# Verify Data API projects are deployed

root@osboxes:~# kubectl get deployments

NAME           READY   UP-TO-DATE   AVAILABLE   AGE

project-data   1/1     1            1           8s

#View pod list

root@osboxes:~# kubectl get pods

NAME                            READY   STATUS    RESTARTS   AGE

project-data-6df5d66dfb-r896d   1/1     Running   0          24s

# Build Docker image for project-auth

cd  /home/osboxes/Desktop/MSD/EventRegistration/Authentication

docker build -t project-auth:v1.0 .

# Expose Data API service

kubectl expose deployment project-data --type=LoadBalancer --port=8080

root@osboxes:~# kubectl get services

NAME           TYPE           CLUSTER-IP      EXTERNAL-IP   PORT(S)          AGE

kubernetes     ClusterIP      10.96.0.1       <none>        443/TCP          10m

project-data   LoadBalancer   10.103.54.182   <pending>     8080:31420/TCP   7s

# Deploy Authentication API image to Kubernetes cluster

kubectl create deployment project-auth --image=project-auth:v1.0

kubectl set env deployment/project-auth API\_HOST=10.103.54.182:8080

kubectl expose deployment project-auth --type=LoadBalancer --port=8081

# Modify the IP addresses of the services in the react client

cd  /home/osboxes/Desktop/MSD/EventRegistration/project-react-client

#Edit default.conf

gedit default.conf

Locate location/account and change proxy pass to http://<PROJECT\_AUTH\_IP>:8081

Locate location/api and change proxy pass to http://<PROJECT\_DATA\_IP>:8080

#Edit src/setupProxy.js

gedit src/setupProxy.js

Locate /account and change target to http://<PROJECT\_AUTH\_IP>:8081

Locate /api, change target to http://<PROJECT\_DATA\_IP>:8080

# Build the docker image of the react client

cd /Users/rajendercheekatamarla/Documents/MSD/Project/project-react-client

cd  /home/osboxes/Desktop/MSD/EventRegistration/project-react-client

docker build -t project-react:v1.0 .

#Deploy React client application to Kubernetes cluster.

kubectl create deployment project-react --image=project-react:v1.0

root@osboxes:~# kubectl get deployments

NAME            READY   UP-TO-DATE   AVAILABLE   AGE

project-auth    1/1     1            1           13m

project-data    1/1     1            1           21m

project-react   1/1     1            1           4s

root@osboxes:~# kubectl get pods

NAME                             READY   STATUS    RESTARTS   AGE

project-auth-64b8576ccd-7r8jw    1/1     Running   0          12m

project-data-6df5d66dfb-r896d    1/1     Running   0          21m

project-react-7f6b4dbdb9-2k8rz   1/1     Running   0          9s

# Expose the React client application service so you can access it from outside the Kubernetes cluster.

kubectl expose deployment project-react --type=LoadBalancer --port=80

#Verify the React client application is exposed and make a note of the IP address.

root@osboxes:~# kubectl get services

# Open the web browser and enter the following URL

http://<REACT\_APP\_IP>

<http://10.97.215.55>