[root@k8s-master01 ~]# docker login

[root@k8s-master01 kube-frontend]# docker build -t asrafbd/react-frontend:v1 .

[root@k8s-master01 two-tier-demo-main]# docker push asrafbd/react-frontend:v1

[root@k8s-master01 kube-backend]# docker build -t asrafbd/python-backend:v1 .

[root@k8s-master01 kube-backend]# docker push asrafbd/python-backend:v1 .

**vi react-frontend-deployment.yaml**

apiVersion: apps/v1

kind: Deployment

metadata:

name: frontend-deployment

spec:

replicas: 1

selector:

matchLabels:

component: frontend-deployment

template:

metadata:

labels:

component: frontend-deployment

spec:

containers:

- name: frontend

image: asrafbd/react-frontend:v1

imagePullPolicy: Always

ports:

- containerPort: 80

---

apiVersion: v1

kind: Service

metadata:

name: frontend-nodeport-service

spec:

type: NodePort

selector:

component: frontend-deployment

ports:

- port: 80

targetPort: 80

nodePort: 30006

**vi python-backend-deployment.yaml**

apiVersion: apps/v1

kind: Deployment

metadata:

name: python-backend-service

labels:

app: python-backend-service

spec:

replicas: 1

selector:

matchLabels:

app: python-backend-service

template:

metadata:

labels:

app: python-backend-service

spec:

containers:

- name: python-backend-service

image: asrafbd/python-backend:v1

imagePullPolicy: Always

---

apiVersion: v1

kind: Service

metadata:

name: python-backend-service

labels:

run: python-backend-service

spec:

type: NodePort

ports:

- port: 5000

protocol: TCP

nodePort: 30007

selector:

app: python-backend-service

kubectl apply -f react-frontend-deployment.yaml

kubectl apply -f python-backend-deployment.yaml

# kubectl get svc

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

frontend-nodeport-service NodePort 10.101.51.180 <none> 80:30006/TCP 32m

python-backend-service NodePort 10.96.62.147 <none> 5000:30007/TCP 60m

<http://192.168.30.5:30006/>

