## **Kubernetes (EKS or GKE)**

1: Write Script to creating Microservice using Nginx webserver to show default webpage. Create Kubernetes configuration files. Expose this microservice on ClusterIP, NodePort and as a LoadBalancer. Create a custom webpage to show which pod the page is loading from (it should automatically change with every refresh).

## Solution :deployment.yml

```
apiVersion: extensions/v1beta1
kind: Deployment
metadata:
name: nginx-austin-deployment-lb
spec:
replicas: 2
minReadySeconds: 15
strategy:
  type: RollingUpdate
  rollingUpdate:
  maxUnavailable: 1
   maxSurge: 1
template:
  metadata:
  labels:
    app: nginx
  spec:
   containers:
    - image: austindsouza1997/docker-assignment:latest
     imagePullPolicy: Always
     name: nginx
     ports:
      - containerPort: 8080
For NobePort : service.yml
apiVersion: v1
kind: Service
metadata:
name: nginx-np-austin
spec:
type: NodePort
ports:
- port: 8080
 protocol: TCP
  targetPort: 8080
selector:
  ausapp: nginx
For LoadBalancer: service.yml
```

apiVersion: v1 kind: Service metadata:

name: nginx-lb-austin

spec:

type: LoadBalancer

ports: - port: 8080 protocol: TCP targetPort: 8080

selector: ausapp: nginx

For ClusterIp: service.yml

apiVersion: v1 kind: Service metadata:

name: nginx-cip-austin

spec:

type: ClusterIP

ports:

- port: 8080 protocol: TCP targetPort: 8080

selector:

ausapp: nginx