```
Step 1:- Create an EKS Cluster
```

Step 2:- Create nodegroup for EKS Cluster

Step 3:- Use Cloudshell

Step 4:- AWS Configure
Access key =
Secret key =

Step 5:- Connect to Cluster

aws eks --region <region_name> update-kubeconfig --name <cluster_name>

Step 6:- Check nodes & cluster-info

kubectl get nodes kubectl cluster-info

Step 7:- Create manifest files

pods.yml

```
apiVersion: v1
kind: Pod
metadata:
    name: nginx
labels:
    app: new_app
spec:
    containers:
    - name: nginx
    image: nginx
    ports:
    - containerPort: 80
        protocol: TCP
- name: tomcat
    image: tomcat
    ports:
    - containerPort: 8080
    protocol: TCP
```

Service.yml

```
apiVersion: v1
kind: Service
metadata:
  name: nodeportsrv

spec:
  selector:
   app: new_app
  type: NodePort
  ports:
   - port: 80
     targetPort: 80
     nodePort: 30080
     name: nginx
     protocol: TCP
```

```
- port: 8080
targetPort: 8080
nodePort: 30081
name: tomcat
protocol: TCP
```

Step 8:- Create Pods using manifest file

kubectl apply pods.yml Kubectl get pods

Step 9:- Create service using manifest file

kubectl apply service.yml

Kubectl get services

Step 10:- Copy IP of instance node with port numbers and Paste in browser



tomcat

