Tasks To Be Performed:

- 1. Use the previous deployment
- 2. Deploy an NGINX deployment of 3 replicas
- Create an NGINX service of type ClusterIP.
- Create an ingress service/ Apache to Apache service/ NGINX to NGINX service
- 1. Use the previous deployment

```
EKS $kubectl create deployment nginx --image=nginx --replicas=3
deployment.apps/nginx created
EKS $kubectl expose deployment nginx --type=LoadBalancer --port=80
service/nginx exposed
EKS $kubectl get deployment nginx
NAME READY UP-TO-DATE AVAILABLE AGE
nginx 3/3 3 3 82s
EKS $
```

Deploy an NGINX deployment of 3 replicas

```
cind: Deployment
netadata:
 name: nginx-deployment
 labels:
   app: nginx
spec:
 replicas: 3
 selector:
   matchLabels:
     app: nginx
 template:
   metadata:
      labels:
        app: nginx
   spec:
     containers:
        - name: nginx
          image: nginx:latest
          ports:

    containerPort: 80
```

```
EKS $vi nginx-deployment.yaml
EKS $kubectl apply -f nginx-deployment.yaml
deployment.apps/nginx-deployment created
EKS $kubectl get deployments
NAME
                   READY
                            UP-TO-DATE
                                         AVAILABLE
                                                      AGE
                            5
                                         5
nginx
                   5/5
                                                      32m
                   3/3
                            3
                                         3
nginx-deployment
                                                      11s
EKS $
```

Create an NGINX service of type ClusterIP

```
apiVersion: v1
kind: Service
metadata:
   name: nginx-service
spec:
   selector:
    app: nginx
   type: ClusterIP
   ports:
    - protocol: TCP
        port: 80
        targetPort: 80
```

 Create an ingress service/ Apache to Apache service/ NGINX to NGINX service

```
EKS $kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/main/deploy/static/provider/cloud/deploy.yaml
namespace/ingress-nginx created
serviceaccount/ingress-nginx created
serviceaccount/ingress-nginx-admission created
role.rbac.authorization.k8s.io/ingress-nginx created
role.rbac.authorization.k8s.io/ingress-nginx created
clusterrole.rbac.authorization.k8s.io/ingress-nginx created
clusterrole.rbac.authorization.k8s.io/ingress-nginx created
rolebinding.rbac.authorization.k8s.io/ingress-nginx created
rolebinding.rbac.authorization.k8s.io/ingress-nginx created
rolebinding.rbac.authorization.k8s.io/ingress-nginx created
clusterrolebinding.rbac.authorization.k8s.io/ingress-nginx created
clusterrolebinding.rbac.authorization.k8s.io/ingress-nginx created
clusterrolebinding.rbac.authorization.k8s.io/ingress-nginx created
clusterrolebinding.rbac.authorization.k8s.io/ingress-nginx-admission created
service/ingress-nginx-controller created
service/ingress-nginx-controller created
service/ingress-nginx-controller created
deployment.apps/ingress-nginx-admission-created
deployment.apps/ingress-nginx-admission-created
diop.batch/ingress-nginx-admission-created
rolebinding.rbac.authorization.k8s.io/ingress-nginx-admission created
validatingwebhookconfiguration.admissionregistration.k8s.io/ingress-nginx-admission created
validatingwebhookconfiguration.admissionregistration.k8s.io/ingress-nginx-admission created
```

EKS \$kubectl get pods -n ingress-nginx

NAME READY STATUS RESTARTS AGE

ingress-nginx-controller-86559dfd66-gqdvz 1/1 Running 0 57s

EKS \$vi nginx-ingress.yaml

EKS \$kubectl apply -f nginx-ingress.yaml

ingress.networking.k8s.io/nginx-ingress created

EKS \$