Module-9: Kubernetes Assignment – 5

```
ubuntu@master: ~
                                                                                                X ubuntu@node1: ~
                                                                                                                                                                                                   X 💹 ubuntu@node2: ~
\verb|customresourcedefinition.apiextensions.k8s.io/global networksets.crd.project calico.org | \verb|created| customresourcedefinition| consists a constant of the 
customresourcedefinition.apiextensions.k8s.io/hostendpoints.crd.projectcalico.org created customresourcedefinition.apiextensions.k8s.io/ipamblocks.crd.projectcalico.org created customresourcedefinition.apiextensions.k8s.io/ipamconfigs.crd.projectcalico.org created
custommesourcedefinition.apiextensions.k8s.io/ipamhandles.crd.projectcalico.org created custommesourcedefinition.apiextensions.k8s.io/ippools.crd.projectcalico.org created custommesourcedefinition.apiextensions.k8s.io/ipreservations.crd.projectcalico.org created custommesourcedefinition.apiextensions.k8s.io/kubecontrollersconfigurations.crd.projectcalico.org created custommesourcedefinition.apiextensions.k8s.io/networkpolicies.crd.projectcalico.org created custommesourcedefinition.apiextensions.k8s.io/networkpolicies.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/networksets.crd.projectcalico.org created clusterrole.rbac.authorization.k8s.io/calico-kube-controllers created clusterrole.rbac.authorization.k8s.io/calico-node created
clusterrolebinding.rbac.authorization.k8s.io/calico-kube-controllers created
clusterrolebinding.rbac.authorization.k8s.io/calico-node created daemonset.apps/calico-node created
deployment.apps/calico-kube-controllers created
ubuntu@master:~$ kubeadm token create --print-join-command kubeadm join 172.31.43.27:6443 --token luo576.cmkvo2yujhqcozb9 --discovery-token-ca-cert-hash sha256:c4b07c8481e0dfa7fb7
f1838d3592488eb8900e0f636dec463e3f5d85a7b1bb6
   f1838d3592486e06960607633
ubuntu@master:~$ kubectl get nodes
NAME STATUS ROLES
NAME
                                                                                                                                     AGE
                                                                                                                                                                  VERSION
                                                                          control-plane
                                                                                                                                     2m56s
                                                                                                                                                                  v1.29.14
master
                                  Ready
node1
                                 Ready
                                                                           <none>
                                                                                                                                     32s
                                                                                                                                                                   v1.29.14
                                 NotReady <none>
aster:~$ kubectl get nodes
                                                                                                                                                                  v1 29 14
node2
                                                                                                                                     275
NAME
                                  STATUS
                                                                  ROLES
                                                                                                                             AGE
                                                                                                                                                           VERSION
master
                                                                  control-plane
                                                                                                                              6m14s
                                                                                                                                                           v1.29.14
                                                                                                                                                          v1.29.14
v1.29.14
node1
                                 Ready
                                                                   <none>
                                                                                                                              3m50s
node2
                                 Ready
                                                                  <none>
                                                                                                                              3m45s
```

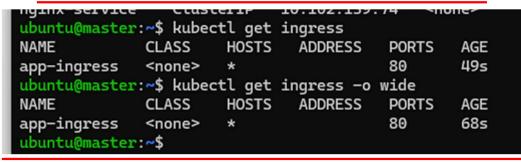


```
- containerPort: 80
apiVersion: v1
kind: Service
metadata:
  name: nginx-service
spec:
  selector:
    app: nginx
  ports:
   - protocol: TCP
      port: 80
      targetPort: 80
  type: ClusterIP
apiVersion: v1
kind: Service
metadata:
  name: apache-service
spec:
  selector:
    app: apache
  ports:
   - protocol: TCP
      port: 80
      targetPort: 80
  type: ClusterIP
ubuntu@master:~$
```

```
ubuntu@master:~$ kubectl apply -f sample.yml
deployment.apps/nginx-deployment created
deployment.apps/apache-deployment created
service/nginx-service created
service/apache-service created
ubuntu@master:~$
```

```
ubuntu@master:~$ kubectl apply -f sample.yml
deployment.apps/nginx-deployment created
deployment.apps/apache-deployment created
service/nginx-service created
service/apache-service created
ubuntu@master:~$ kubectl get posd
error: the server doesn't have a resource type "posd"
ubuntu@master:~$ kubectl get pods
NAME
                                       READY
                                                STATUS
                                                           RESTARTS
                                                                       AGE
apache-deployment-784dcc968c-6sfwb
                                       1/1
                                                Running
                                                                       34s
apache-deployment-784dcc968c-dt4xz
                                       1/1
                                                Running
                                                           0
                                                                       34s
                                       1/1
nginx-deployment-7c79c4bf97-6cjdp
                                                Running
                                                           0
                                                                       34s
nginx-deployment-7c79c4bf97-p6ks4
                                       1/1
                                                Running
                                                           0
                                                                       34s
nginx-deployment-7c79c4bf97-zlhp9
                                       1/1
                                                Running
                                                           0
                                                                       34s
ubuntu@master:~$
ubuntu@master:~$ kubectl get service
NAME
                   TYPE
                                CLUSTER-IP
                                                 EXTERNAL-IP
                                                                PORT(S)
                                                                           AGE
apache-service
                   ClusterIP
                                10.105.19.40
                                                                80/TCP
                                                                           68s
                                                 <none>
kubernetes
                   ClusterIP
                                10.96.0.1
                                                 <none>
                                                                443/TCP
                                                                           10m
nginx-service
                   ClusterIP
                                10.102.139.74
                                                                80/TCP
                                                                           68s
                                                 <none>
ubuntu@master:~$
ubuntu@node1: ~
                                                  ubuntu@node2: ~
  GNU nano 7.2
                                                   ingress.yml *
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: app-ingress
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: /
spec:
  rules:
  - http:
      paths:
      - path: /nginx
       pathType: Prefix
       backend:
         service:
           name: nginx-service
           port:
            number: 80
      - path: /apache
       pathType: Prefix
       backend:
         service:
           name: apache-service
           port:
            number: 80
```

```
ubuntu@master:~$ kubectl get service
NAME
                 TYPE
                             CLUSTER-IP
                                              EXTE
                             10.105.19.40
apache-service
                 ClusterIP
                                              <nor
kubernetes
                 ClusterIP
                             10.96.0.1
                                              <nor
nginx-service
                 ClusterIP
                             10.102.139.74
                                              <nor
ubuntu@master:~$ nano ingress.yml
ubuntu@master:~$ kubectl apply ingress.yml
error: Unexpected args: [ingress.yml]
See 'kubectl apply -h' for help and examples
ubuntu@master:~$ kubectl apply -f ingress.yml
ingress.networking.k8s.io/app-ingress created
ubuntu@master:~$
```







404 Not Found