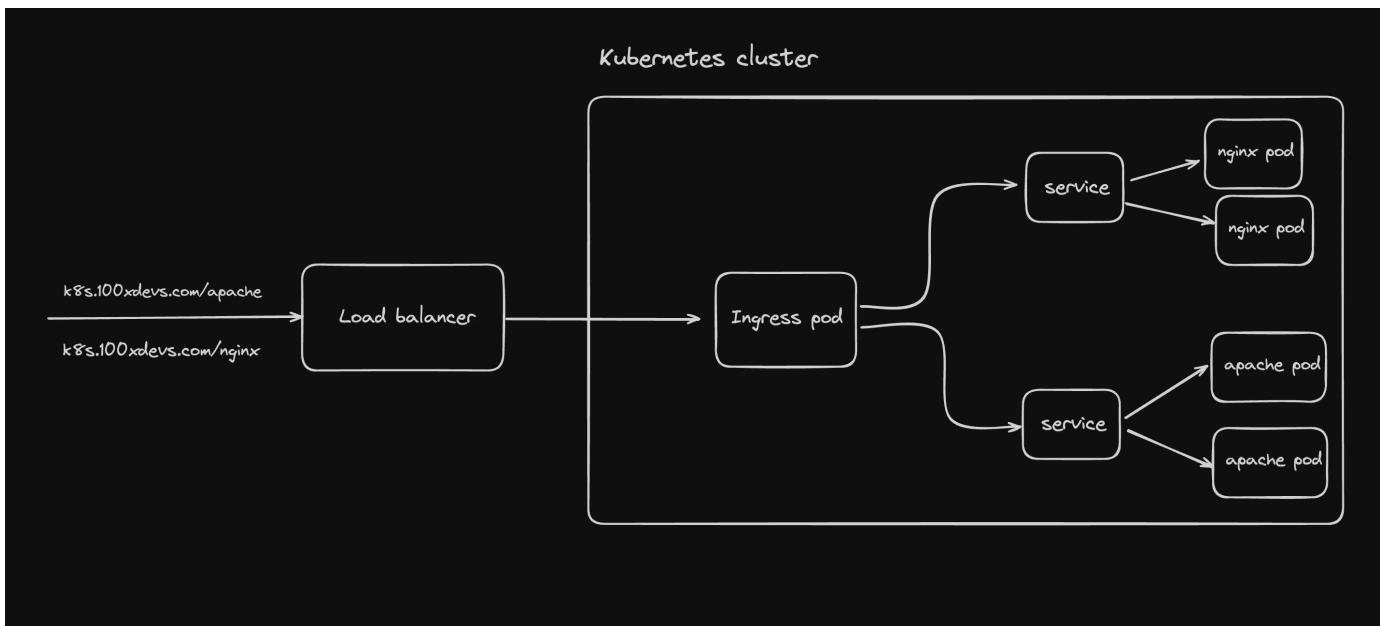


Adding the routing to the ingress controller

Next up, we want to do the following -



- Get rid of all existing deployments in the default namespace

```
kubectl get deployments
kubectl delete deployment_name
```



- Get rid of all the services in the default namespace (dont delete the default kubernetes service, delete the old `nginx` and `apache` loadbalancer services)

```
kubectl get services
kubect
```



- Create a `deployment` and `service` definition for the `nginx` image/app (this is different from the nginx controller)



metadata:



```

name: nginx-deployment
namespace: default
spec:
  replicas: 2
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: nginx:alpine
          ports:
            - containerPort: 80
---

```

```

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

```

- Create a deployment and service for the **apache** app

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: apache-deployment
  namespace: default
spec:
  replicas: 2

```



```

  app: apache
template:
  metadata:
    labels:
      app: apache
  spec:
    containers:
      - name: my-apache-site
        image: httpd:2.4
        ports:
          - containerPort: 80
---
apiVersion: v1
kind: Service
metadata:
  name: apache-service
  namespace: default
spec:
  selector:
    app: apache
  ports:
    - protocol: TCP
      port: 80
      targetPort: 80
  type: ClusterIP

```

- Create the ingress resource

```

apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: web-apps-ingress
  namespace: default
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: /
spec:
  ingressClassName: nginx
  rules:
    - host: your-domain.com
      http:
        paths:

```



```
backend:
  service:
    name: nginx-service
    port:
      number: 80
- path: /apache
  pathType: Prefix
  backend:
    service:
      name: apache-service
      port:
        number: 80
```

Combined manifest

- Create a combined manifest with all the api objects
- Apply the manifest

```
kubectl apply -f complete.yml
```



```
kubernetes git:(main) x kubectl get pods
→ kubernetes git:(main) x kubectl apply -f complete.yml
deployment.apps/nginx-deployment created
service/nginx-service created
deployment.apps/apache-deployment created
service/apache-service created
ingress.networking.k8s.io/web-apps-ingress created
```

- Update your local hosts entry (`/etc/hosts`) such that your-domain.com points to the IP of your load balancer

```
65.20.84.86 your-domain.com
```



- Try going to your-domain.com/apache and your-domain.com/nginx

