**Kubernetes Yaml files:**

**1.Pod Yaml file:**

apiVersion: v1

kind: Pod

metadata:

name: adi-pod

namespace: adi

labels:

app: adi-nginx

spec:

containers:

* name: adi-nginx

image: nginx: latest

ports:  
 - containerPort: 80

**2.ReplicaSet Yaml file:**

apiVersion: apps/v1

kind: ReplicaSet

metadata:

name: adi-replica

namespace: adi

labels:

app: adi-nginx-rs

spec:

replicas: 3

selector:  
 matchlabels:  
 app: adi-nginx-rs

template:

metadata:

labels:  
 app: adi-nginx-rs

spec:

containers:

* name: adi-users-rs

image: nginx:latest

ports:

* containerPort: 80

**3.Deployment.yaml file:**

apiVersion: apps/v1

kind: Deployment

metadata:

name: adi-deployment

namespace: adi

labels:  
 app: adi-nginx-dp

spec:

replicas: 3

selector:

matchLabels:

app: adi-nginx-dp

template:

metadata:

labels:

app: adi-nginx-dp

spec:

containers:

* name: adi-user-dp

image: nginx:latest

ports:

* containerPort: 80

**4. Service.yaml file:**

**1.ClusterIP yaml file:**

apiVersion: v1

kind: Service

metadata:

name: adi-service

namespace: adi

spec:

selector:

app: adi-ipl

ports:

* protocol: TCP

port: 80

targetPort: 3000

type: ClusterIP

**2.NodePort yaml file:**

apiVersion: v1

kind: Service

metadata:

name: adi-service

namespace: adi

spec:  
 selector:

app: adi-ipl

ports:

* protocol: TCP

port: 80

targetPort: 3000

nodePort: 30080

type: NodePort

**3.LoadBalancer yaml file:**

apiVersion: v1

kind: Service

metadata:

name: adi-service

namespace: adi

spec:

selector:

app: ipl

ports:  
 - protocol: TCP

port: 80

targetPort: 3000

type: LoadBalancer

**4.ExternalName yaml file:**

apiVersion: v1

kind: Service

metadata:

name: adi-service

namespace: adi

spec:

selector:

app: ipl

ports:

* protocol: TCP

port: 80

targetPort: 3000

ExternalName: flipkart.com

type: ExternalName

**5.Configmap.yaml file:**

apiVersion: v1

kind: ConfigMap

metadata:

name: adi-ipl-configmap

namespace: adi

data:  
 DB\_HOST: “mydatabase”

DB\_PORT: “27071”

APP\_ENV: “prod”

**6.Secrets.yaml file:**

apiVersion: v1

kind: Secret

metadata:

name: adi-ipl-secret

namespace: adi  
type: Opaque

data:

Username: bXVyYWxpLWlwbA==

Password: bXVyYWxpQDQ1NiUm

**Deployment file with confimaps and secrets configured:**

apiVersion: apps/v1

kind: Deployment

metadata:

name: adi-deployment

namespace: adi

labels:  
 name: adi-nginx-dp

spec:

replicas: 3

selector:

matchLabels:

name: adi-nginx-dp

template:

metadata:

labels:

name: adi-nginx-dp

spec:

containers:

* name: adi-user-dp

image: nginx:latest

ports:

* containerPort: 80

envFrom:

* confiMapRef:

name: adi-ipl-confiMap

- secretRef:

name: adi-ipl-secret