DEPLOY IN KUBERNETES CLUSTER

TEAM ID	PNT2022TMID29528
PROJECT NAME	CUSTOMER CARE REGISTRY
DATE	17.11.2022

KUBERNETES:

DRASHBOARD-ADMINUSER:

```
    apiVersion: v1
kind: ServiceAccount
metadata:
  name: admin-user
  namespace: kubernetes-dashboard
---
apiVersion: v1
kind: Secret
metadata:
  name: admin-user-token
  namespace: kubernetes-dashboard
  annotations:
    kubernetes.io/service-account.name: admin-user
type: kubernetes.io/service-account-token

---
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: admin-user
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: cluster-admin
subjects:
- kind: ServiceAccount
  name: admin-user
  namespace: kubernetes-dashboard
```

FLASK DEPLOYMENT:

```
      apiVersion: apps/v1
    kind: Deployment
  metadata:
        name: flask-app

  spec:
   replicas: 3
   selector:
      matchLabels:
  app: flask-app
   template:
        metadata:
            labels:
```

```yaml
        app: flask-app

    spec:
      containers:
        - name: webpage
          image: rajkiranss/flask
          imagePullPolicy: Never
          ports:
            - containerPort: 5000
              protocol: TCP
```

FLASK INGRESS:

```yaml
           apiVersion: networking.k8s.io/v1
          kind: Ingress
          metadata:
              name: flask-app-ingress
        annotations:
            kubernetes.io/ingress.class: nginx
            nginx.ingress.kubernetes.io/ssl-redirect: "false"

      spec:
        # ingressClassName: nginx
        rules:
          - http:
              paths:
              - backend:
                      service:
                    name: flask-app-service
                      port:
                      number: 5000

                  path: /
                      pathType: Prefix
```

FLASK SERVICE:

```yaml
     apiVersion: v1
    kind: Service
    metadata:
        name: flask-app-service
    spec:
      type: ClusterIP
     ports:
      - port: 5000
     selector:
        app: flask-app
```

IBM DEPLOYMENT:

DEPLOY IN KUBERNETES CLUSTER

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: flask-deploy

spec:
  replicas: 3
  selector:
    matchLabels:
      app: flask-deploy
  template:
    metadata:
      labels:
        app: flask-deploy

    spec:
      containers:
        - name: web
          image: jp.icr.io/webpage/web
          imagePullPolicy: Always
          ports:
            - containerPort: 5000
              protocol: TCP
```