## DevOps Day-6

## Java application deployment in minikube

Kubectl pipeline code:

```
pipeline {
  agent any
  stages {
    stage('SCM') {
       steps {
         git branch: 'main', url: 'https://github.com/ragules/simple-
web-app'
       }
    }
    stage('Build'){
       steps {
         bat 'mvn clean install'
       }
    }
    stage('build to images') {
       steps {
         script{
```

```
bat "docker build -t ragul1177/webapplication ."
         }
       }
    }
    stage('docker push hub') {
      steps {
         script{
            withDockerRegistry(credentialsId: 'docker_crud', url:
'https://index.docker.io/v1/') {
  bat 'docker push ragul1177/webapplication'
}
         }
       }
    }
    // stage('test') {
         steps {
    //
           withKubeConfig(caCertificate: ", clusterName: 'minikube',
contextName: 'minikube', credentialsId: 'minikube', namespace: ",
restrictKubeConfigAccess: false, serverUrl:
'https://192.168.39.226:8443')
           sh 'kubectl apply -f deploy.yml --validate=false'
    //
        }}
  }
}
```

```
Deployment.yml:
apiVersion: apps/v1
kind: Deployment
metadata:
 name: my-deploy
 labels:
  name: my-deploy
spec:
 replicas: 1
 selector:
  matchLabels:
   apptype: web-backend
 strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    apptype: web-backend
  spec:
   containers:
   - name: my-app
    image: praneshc/webapplication
    ports:
    - containerPort: 9000
```

---

apiVersion: v1

kind: Service

metadata:

name: my-service

labels:

app: my-service

spec:

type: NodePort

ports:

- port: 9000

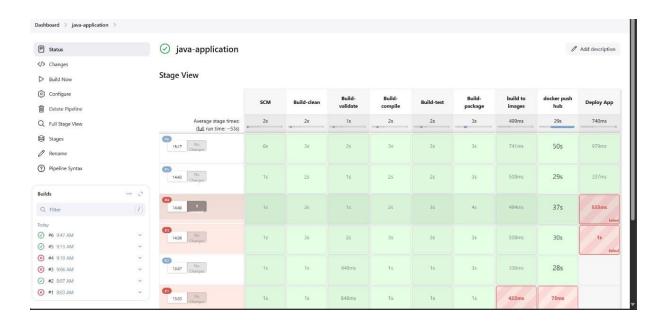
targetPort: 8080

nodePort: 30002

selector:

apptype: web-backend

Output:



```
### Initiable vi 35 0 on illustra 24 dd (ended)

### Initiable primary control-plane node in "Initiable" cluster
### Initiable primary control-plane node in "Initiable" cluster
### Initiable primary control-plane node in "Initiable" cluster
### Initiable primary components...
### I
```



Hello World!