

DevOps Day-6

Kubectrl pipeline code:

```
pipeline {
  agent any

  stages {
    stage('SCM') {
      steps {
        git branch: 'main', url:
'https://github.com/PraneshC2005/DevOps_simple-web-app.git'
      }
    }
    stage('Build-clean') {
      steps{
        sh 'mvn clean'
      }
    }
    stage('Build-validate') {
      steps{
        sh 'mvn validate'
      }
    }
  }
}
```

```
stage('Build-compile') {
    steps{
        sh 'mvn compile'
    }
}

stage('Build-test') {
    steps{
        sh 'mvn test'
    }
}

stage('Build-package') {
    steps{
        sh 'mvn package'
    }
}

stage('build to images') {
    steps {
        script{
            sh "docker build -t praneshc/webapplication ."
        }
    }
}

stage('docker push hub') {
    steps {
```

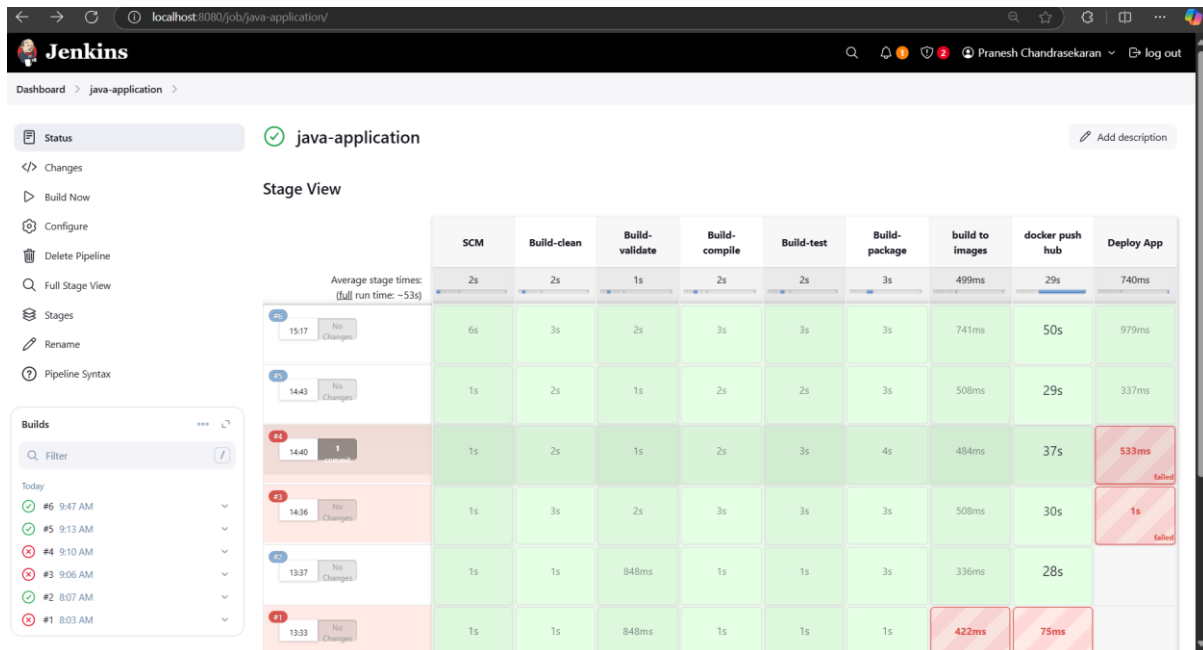
```

    script{
        withDockerRegistry(credentialsId: 'cred-2', url:
'https://index.docker.io/v1/') {
            sh 'docker push praneshc/webapplication'
        }
    }
}

stage('Deploy App') {
    steps {
        withKubeConfig(caCertificate: '', clusterName: 'minikube',
contextName: 'minikube', credentialsId: 'kube-cred', namespace: '',
restrictKubeConfigAccess: false, serverUrl:
'https://192.168.39.226:8443') {
            sh 'kubectl apply -f Deployment.yml --validate=false'
        }
    }
}
}

```

Output:



```
pcubuntu@PraneshPC: ~/kub$ kubectl get pod
NAME          READY   STATUS    RESTARTS   AGE
my-app        1/1     Running   1 (127m ago)  5h8m
my-deploy-795d5b5d8c-tpm7h  1/1     Running   0           58m
my-pod        1/1     Running   1 (127m ago)  5h19m
pcubuntu@PraneshPC:~/kub$ minikube service my-service
NAMESPACE    NAME      TARGET PORT  URL
default      my-service 9000         http://192.168.49.2:30002
Starting tunnel for service my-service.
NAMESPACE    NAME      TARGET PORT  URL
default      my-service 9000         http://127.0.0.1:34781
Opening service default/my-service in default browser...
http://127.0.0.1:34781
Because you are using a Docker driver on linux, the terminal needs to be open to run it.
^C Stopping tunnel for service my-service.
pcubuntu@PraneshPC:~/kub$ curl http://192.168.49.2:30002
<doctype html><html lang="en"><head><title>HTTP Status 404 - Not Found</title><style type="text/css">body {font-family:Tahoma,Arial,sans-serif;
} h1, h2, h3, b {color:white;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} p {font-size:12px;} a {co
lor:black;} .line {height:1px;background-color:#525D76;border:none;}</style></head><body><h1>HTTP Status 404 - Not Found</h1><hr class="line" />
<p><b>Type</b></p><p><b>Status Report</b></p><p><b>Description</b></p>The origin server did not find a current representation for the target resource or is not
willing to disclose that one exists.</p><hr class="line" /><h3>Apache Tomcat/9.0.102</h3></body></html>pcubuntu@PraneshPC:~/kub$ ^C
pcubuntu@PraneshPC:~/kub$ curl http://192.168.49.2:30002/my-app/
<html>
<body>
<h2>Hello World!</h2>
</body>
</html>
```

