DAY 6 – Java Application Minikube deployment

minikube deployment of java:

Stage View of pipeline project:

- Minikube srv my-service

```
pipeline {
  agent any
  tools { maven "maven" }
  stages {
    stage('Clone Repository') {
      steps {
        git branch: 'main', url: 'https://github.com/RahulSiddharth04/webapp.git'
      }
    }
    stage('Clean Project') {
      steps {
        sh 'mvn clean'
      }
    }
    stage('Validate') {
      steps {
        sh 'mvn validate'
      }
    }
    stage('Compile') {
```

```groovy
        steps {

            sh 'mvn compile'

        }

    }

    stage('Run Tests') {

        steps {

            sh 'mvn test'

        }

    }

    stage('Package Application') {

        steps {

            sh 'mvn package'

        }

    }

    stage('Build Docker Image') {

        steps {

            script {

                sh 'docker build -t rahulsid04/webapp1 .'

            }

        }

    }

    stage('Push to Docker Hub') {

        steps {

            script {

                withDockerRegistry(credentialsId: 'docker_cred', url:
'https://index.docker.io/v1/') {

                    sh 'docker push rahulsid04/webapp1'

                }

            }

        }
```
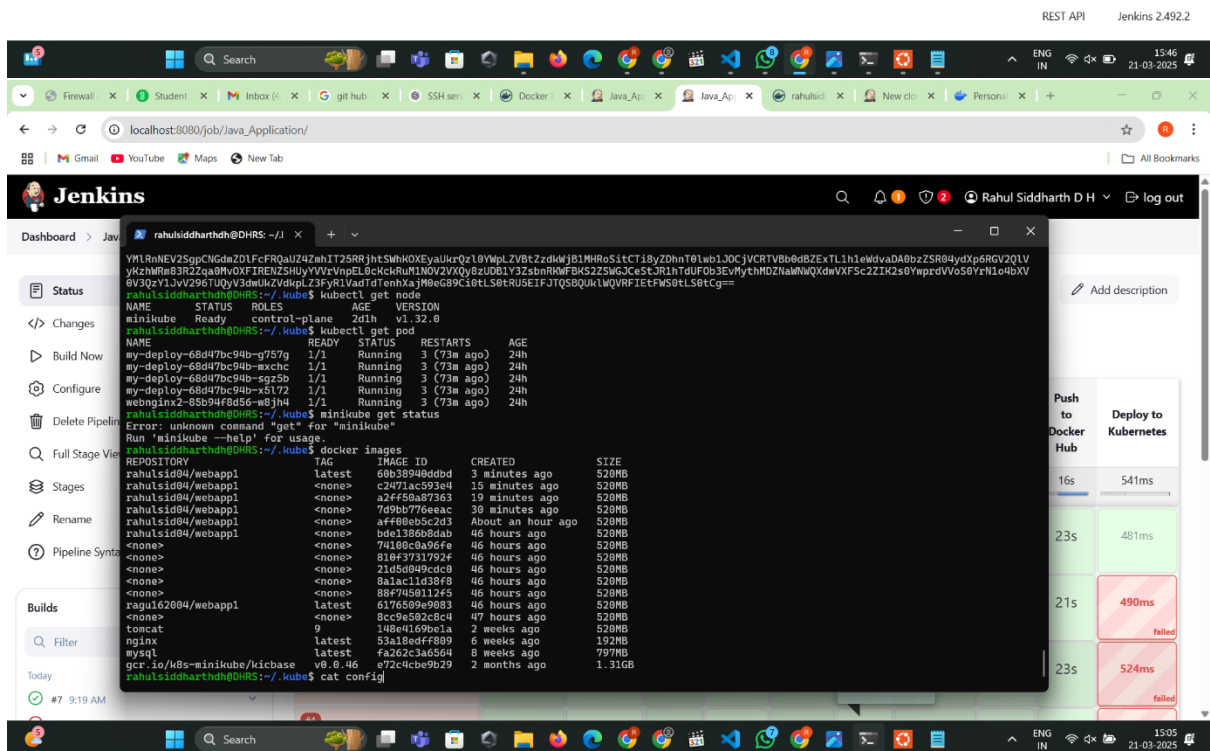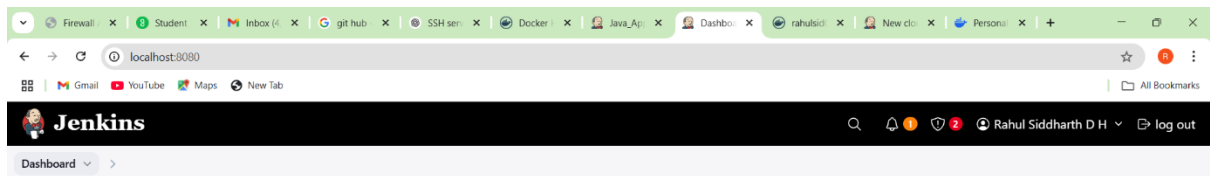
```
        }
        stage('Deploy to Kubernetes') {
            steps {
                withKubeConfig(
                    caCertificate: '',
                    clusterName: 'minikube',
                    contextName: 'minikube',
                    credentialsId: 'kub_id',
                    namespace: '',
                    restrictKubeConfigAccess: false,
                    serverUrl: 'https://192.168.39.226:8443'
                ) {
                    sh 'kubectl apply -f my-deploy.yml --validate=false'
                }
            }
        }
    }
}
```

YMLRnNEV2SgpCNGdmZDlFcFRQaUZ4ZmhIT25RRjhtSWhHOXEyaUkrQzl0YWpLZVBtZzdkWjB1MHRoSitCTi8yZDhnT0lwb1JOCjVCRTVBb0dBZExTL1h1eWdvaDA0bzzSR04ydXp6RGV2Q1LV
yKzhWRm83R2Zqa0MvOXFIRENZSHUyYVVrVnpEL0cKckRuM1NOV2VXQy8zUDB1Y3ZsbnRkWFBKS2ZSWGJCeStJR1hTdUFOb3EvMythMDZNaWNWQXdwVXF5Z2ZIK2s0YwprdVVoS0YrNlo4bXhV
0V3QzY1JvV296TUOyV3dwVkzVdkpLZ3FyR1VadTdTenhXajM0eG89Ci0tLS0tRU5EIFJTQSBQUklWQVRFIEtFWS0tLS0tCg==
rahulsiddharthdh@DHRS:~/.kube$ kubectl get node
NAME   STATUS   ROLES   AGE   VERSION
minikube   Ready   control-plane 2d1h   v1.32.0
rahulsiddharthdh@DHRS:~/.kube$ kubectl get pod
NAME   READY   STATUS   RESTARTS   AGE
my-deploy-68d47bc94b-g757g 1/1   Running   3 (73m ago)   24h
my-deploy-68d47bc94b-mxchc 1/1   Running   3 (73m ago)   24h
my-deploy-68d47bc94b-sgz5b 1/1   Running   3 (73m ago)   24h
my-deploy-68d47bc94b-x5l72 1/1   Running   3 (73m ago)   24h
webnginx2-85b94f8d56-w8jh4 1/1   Running   3 (73m ago)   24h
rahulsiddharthdh@DHRS:~/.kube$ minikube get status
Error: unknown command "get" for "minikube"
Run 'minikube --help' for usage.
rahulsiddharthdh@DHRS:~/.kube$ docker images
REPOSITORY   TAG   IMAGE ID   CREATED   SIZE
rahulsid04/webapp1   latest   60b38940ddbd   3 minutes ago   520MB
rahulsid04/webapp1   <none>   c2471ac593e4   15 minutes ago   520MB
rahulsid04/webapp1   <none>   a2ff50a87363   19 minutes ago   520MB
rahulsid04/webapp1   <none>   7d9bb776eeac   30 minutes ago   520MB
rahulsid04/webapp1   <none>   aff00eb5c2d3   About an hour ago 520MB
rahulsid04/webapp1   <none>   bde1386b8dab   46 hours ago   520MB
<none>   <none>   74100c0a96fe   46 hours ago   520MB
<none>   <none>   810f3731792f   46 hours ago   520MB
<none>   <none>   21d5d049cdc0   46 hours ago   520MB
<none>   <none>   8a1ac11d38f8   46 hours ago   520MB
<none>   <none>   88f7450112f5   46 hours ago   520MB
ragu162004/webapp1   latest   6176509e9083   46 hours ago   520MB
<none>   <none>   8cc9e502c8c4   47 hours ago   520MB
tomcat   9   148e4169be1a   2 weeks ago   520MB
nginx   latest   53a18edff809   6 weeks ago   192MB
mysql   latest   fa262c3a6564   8 weeks ago   797MB
gcr.io/k8s-minikube/kicbase   v0.0.46 e72c4cbe9b29   2 months ago   1.31GB
rahulsiddharthdh@DHRS:~/.kube$ cat config

Add description

	Push to Docker Hub	Deploy to Kubernetes
	16s	541ms
	23s	481ms
	21s	490ms failed
	23s	524ms failed

Builds
🔍 Filter
Today
✓ #7 9:19 AM

Jenkins

Rahul Siddharth D H ⌄   log out

Dashboard > Java_Application >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Stages

Rename

Pipeline Syntax

✓ Java_Application

Add description

Stage View

	Declarative: Tool Install	Clone Repository	Clean Project	Validate	Compile	Run Tests	Package Application	Build Docker Image	Push to Docker Hub	Deploy to Kubernetes
Average stage times: (full run time: ~33s)	108ms	1s	1s	1s	1s	1s	1s	399ms	16s	541ms
#7 14:49	71ms	1s	1s	1s	1s	1s	2s	452ms	23s	481ms
#6 14:37	73ms	1s	1s	1s	1s	1s	2s	458ms	21s	490ms failed
#5 14:33 No Changes	106ms	1s	1s	1s	1s	1s	2s	463ms	23s	524ms failed

Builds

Filter

Today

✓ #7 9:19 AM

localhost:8080

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Dashboard ⌄

+ New Item

Add description

🖹 Build History

All +

Project Relationship

Check File Fingerprint

S	W	Name ↓	Last Success	Last Failure	Last Duration	
✓		Java_Application	56 min #7	1 hr 8 min #6	34 sec	▷
⊙	☀	simple_web_app	N/A	N/A	N/A	▷
✓		simple_web_app1_pipeline	1 day 22 hr #9	1 day 22 hr #8	35 sec	▷

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Icon: S M L   ooo

Build Executor Status   0/2 ⌄

Cloud Statistics ⌄

REST API   Jenkins 2.492.2

127.0.0.1:46509/my-web/ - Brave

http://127.0.0.1:46509/my-web/

M kavin's bookmark Ragu bookmarks ServiceNow - Now L... Date and Time Sele... Microsoft Certified:...

Hello World!