

DevOpsDAY-5

deployment.yml

```
apiVersion:apps/v1
kind: Deployment
metadata:
  name: my-deploy
  namespace:my-bank
  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-web
          image:22cs1258/mysimplewebapplication:tagname
          ports:
            -containerPort:9001

---

apiVersion:v1
kind: Service
metadata:
  name: my-service
  namespace:my-bank
  labels:
    app:my-service
spec:
  type:NodePort
  ports:
    -port:9001
      targetPort:8080
```

Pipelinescript-jenkins

JAVAApplication

```
pipeline {
    agent any

    stages {
        stage('scm'){
            steps{
                gitbranch:" https://github.com/NavinkumarD/Guvi-Tasks-DevOps.git"
            }
        }
        stage('builb-clean'){
            steps {
                sh"mvn clean"
            }
        }
        stage('build-validate'){
            steps {
                sh"mvn validate"
            }
        }
        stage('build-com'){
            steps {
                sh"mvn compile"
            }
        }
    }
}
```

```

stage('build-test'){
    steps {
        sh"mvn test"
    }
}

stage('build-install'){
    steps {
        sh"mvn package"
    }
}

stage('buildtoimages'){
    steps {
        script{
            sh'docker build-t.'
        }
    }
}

stage('pushtohub'){ steps
    {
        script{
            withDockerRegistry(credentialsId:'Docker_cred',url:'https://index.docker.io/v1/'){ sh
                'docker push '
            }
        }
    }
}

```

```

}

stage('DeployApp'){
    steps {
        withKubeConfig(caCertificate:"",clusterName:'minikube',contextName:'minikube',
credentialsId:'mukubeconfig_011',namespace:"",restrictKubeConfigAccess:false,serverUrl:
'https://192.168.49.2:8443') {
            sh'kubectl apply -f deployment.yml --validate=false'
        }
    }
}

stage('Test'){
    steps {
        withKubeConfig(caCertificate: "", clusterName: 'minikube', contextName: 'minikube',
credentialsId:'mukubeconfig_011',namespace:"",restrictKubeConfigAccess:false,serverUrl:
'https://192.168.49.2:8443') {

            sh'minikube service my-service --url | xargs curl'
        }
    }
}

```

Dashboard > java application >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Stages

Rename

Pipeline Syntax

Builds

Filter

Today

#15 10:32 AM

#14 10:30 AM

#13 10:29 AM

#11 10:02 AM

java application

Add description

Stage View

Average stage times:
(full run time: ~20s)

	SCM	Build	Build Docker Image	Push Docker Image	test
#15	711ms	1s	310ms	14s	
#14	746ms	1s	313ms	16s	392ms failed
#13	1s	1s	563ms	17s	1s failed
#11	724ms	1s	299ms	14s	
#10	1s	1s	305ms	22s	

java application #11 Console - x

Docker Hub

Personal access tokens | Docker

localhost:8080/job/java%20application/11/console

WARNING: Your password will be stored unencrypted in /var/lib/jenkins/workspace/java_application@9ff278c-1258-4b77-8b43-d85d82b1188/config.xml.
Configure a credential helper to remove this warning. See
<https://docs.docker.com/engine/reference/commandline/login/#credentials-store>

Login Succeeded

[Pipeline] {

[Pipeline] sh

+ docker push 22cs1258/mysimplewebApplication

Using default tag: latest

The push refers to repository [docker.io/22cs1258/mysimplewebApplication]

baad0928804: Preparing

5f70bf18a086: Preparing

43c9fa18061: Preparing

5f70bf18a086: Preparing

bc85267c13b: Preparing

4a955ab7345: Preparing

39c4ba89a5a: Preparing

f844dcf94808: Preparing

3359bc3d7ada: Preparing

4b7c8ae0934: Preparing

f844dcf94808: Waiting

39c4ba89a5a: Waiting

4b7c8ae0934: Waiting

3359bc3d7ada: Waiting

bc85267c13b: Layer already exists

5f70bf18a086: Layer already exists

43c9fa18061: Layer already exists

4a955ab7345: Layer already exists

39c4ba89a5a: Layer already exists

3359bc3d7ada: Layer already exists

f844dcf94808: Layer already exists

4b7c8ae0934: Layer already exists

baad0928804: Pushed

latest: digest: sha256:95be5478167852192541da8177d1f62a782a2ab1c8bdc188967188564387ef5 size: 2489

[Pipeline] }

[Pipeline] // withDockerRegistry

[Pipeline] }

[Pipeline] // script

[Pipeline] }

[Pipeline] // stage

[Pipeline] }

[Pipeline] // node

[Pipeline] End of Pipeline

Finished: SUCCESS

35°C Mostly sunny

Search

ENG IN

16:04 21-03-2025

34°C Mostly sunny

Search

ENG IN

15:35 21-03-2025

java application #11 Console

Docker Hub

Personal access tokens | Docker

+

localhost:8080/job/java%20application/11/console

Jenkins

Navin Kumar D

log out

Dashboard > java application > #11

Status

Changes

Console Output

Edit Build Information

Timings

Git Build Data

Pipeline Overview

Pipeline Console

Thread Dump

Pause/resume

Replay

Pipeline Steps

Workspaces

Previous Build

Console Output

Download

Copy

View as plain text

Started by user Navin Kumar D

[Pipeline] Start of Pipeline

[Pipeline] node

Running on Jenkins in /var/lib/jenkins/workspace/java application

[Pipeline] {

[Pipeline] stage

[Pipeline] { (SCH)

[Pipeline] git

The recommended git tool is: NONE

No credentials specified

> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/java application/.git # timeout=10

Fetching changes from the remote Git repository

> git config remote.origin.url https://github.com/NavinkumarD/Guvitasks.git # timeout=10

Fetching upstream changes from https://github.com/NavinkumarD/Guvitasks.git

> git --version # timeout=10

> git --version # 'git version 2.43.0'

> git fetch --tags --force --progress -- https://github.com/NavinkumarD/Guvitasks.git +refs/heads/*:refs/remotes/origin/* # timeout=10

> git rev-parse refs/remotes/origin/main^{commit} # timeout=10

Checking out Revision 5804759c8acdc532c7246d816470a7e863e716df (refs/remotes/origin/main)

> git config core.sparsecheckout # timeout=10

> git checkout -f 5804759c8acdc532c7246d816470a7e863e716df # timeout=10

> git branch -a -v --no-abbrev # timeout=10

> git branch -D main # timeout=10

> git checkout -b main 5804759c8acdc532c7246d816470a7e863e716df # timeout=10

Commit message: "jenkinsfile"

> git rev-list --no-walk 5804759c8acdc532c7246d816470a7e863e716df # timeout=10

[Pipeline] }

[Pipeline] // stage

34°C

Mostly sunny

Search

ENG IN

15:33

21-03-2025