

# DevOps

## Day 6

**Date:** 22.03.2025

**Topics Covered:** Java Application Minikube deployment

Docker Image is deployed with minikube

✓ java-application

[Add description](#)

Stage View

		Declarative: Tool Install	scm	clean	validate	compile	test	package	build to images	push to hub	deploy
Average stage times: (full run time: ~57s)		201ms	3s	3s	2s	3s	3s	3s	914ms	33s	1s
#7	14:55 2	150ms	1s	2s	2s	2s	2s	3s	740ms	28s	3s
#6	14:50 1	136ms	2s	3s	2s	2s	2s	3s	655ms	26s	941ms
#5	14:21 No Changes	168ms	3s	2s	2s	2s	3s	3s	824ms	37s	1s
#4	14:17 No Changes	147ms	3s	2s	2s	3s	3s	3s	1s	37s	633ms
#3	14:15 No Changes										
#2	14:12 No Changes	290ms	3s	4s	2s	3s	3s	3s	1s	35s	
#1	13:33 No Changes	316ms	9s	3s	2s	3s	3s	4s	1s	34s	

Pipeline stages upto deploy

Pipeline script:

```
pipeline {
    agent any

    tools {maven 'mvn'}

    stages {
        stage('scm') {
            steps {
                git 'https://github.com/Sanchay1054/WarProject.git'
            }
        }

        stage('clean') {
            steps {
```

```
        sh "mvn clean"
    }
}
stage('validate') {
    steps {
        sh "mvn validate"
    }
}
stage('compile') {
    steps {
        sh "mvn compile"
    }
}
stage('test') {
    steps {
        sh "mvn test"
    }
}
stage('package') {
    steps {
        sh "mvn package"
    }
}
stage('build to images') {
    steps {
        script{
            sh 'docker build -t sanchaym/simplewebapp .'
        }
    }
}
stage('push to hub') {
```

```

steps {
  script{
    withDockerRegistry(credentialsId: 'Docker', url: 'https://index.docker.io/v1/') {
      sh 'docker push sanchaym/simplewebapp'
    }
  }
}

stage('deploy') {
  steps {
    withKubeConfig(caCertificate: '', clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'minikube_cred', namespace: '', restrictKubeConfigAccess: false, serverUrl:
'https://192.168.39.226:8443') {
      sh 'kubectl delete all --all'

      sh 'kubectl apply -f deployment.yml --validate=false'
    }
  }
}
}
}
}

```

Getting the service my-service port number

```

sanchay@SANCHAY:~$ minikube service my-service

```

NAMESPACE	NAME	TARGET PORT	URL
default	my-service	9001	http://192.168.49.2:30005

```

✳ Starting tunnel for service my-service.

```

NAMESPACE	NAME	TARGET PORT	URL
default	my-service		http://127.0.0.1:34401

```

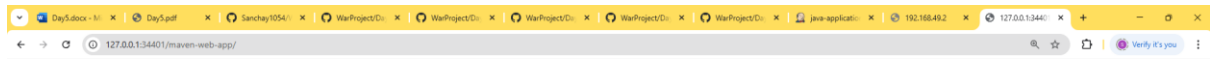
🌐 Opening service default/my-service in default browser...
👉 http://127.0.0.1:34401
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

```

service

**output:**

Deployment in minikube



**Hello World!**



output