

DevOps Day 2 – Automation using Jenkins push image from github to docker hub using jenkins automation

docker

```
# sudo apt install docker.io -y
```

```
# sudo service docker restart
```

```
# sudo service docker status
```

```
# sudo usermod -aG docker $USER
```

docker images

docker ps

```
# sudo chmod 666 /var/run/docker.sock
```

```
curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl
```

```
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
```

```
chmod +x kubectl
```

```
mkdir -p ~/.local/bin
```

```
mv ./kubectl ~/.local/bin/kubectl
```

```
kubectl version --client
```

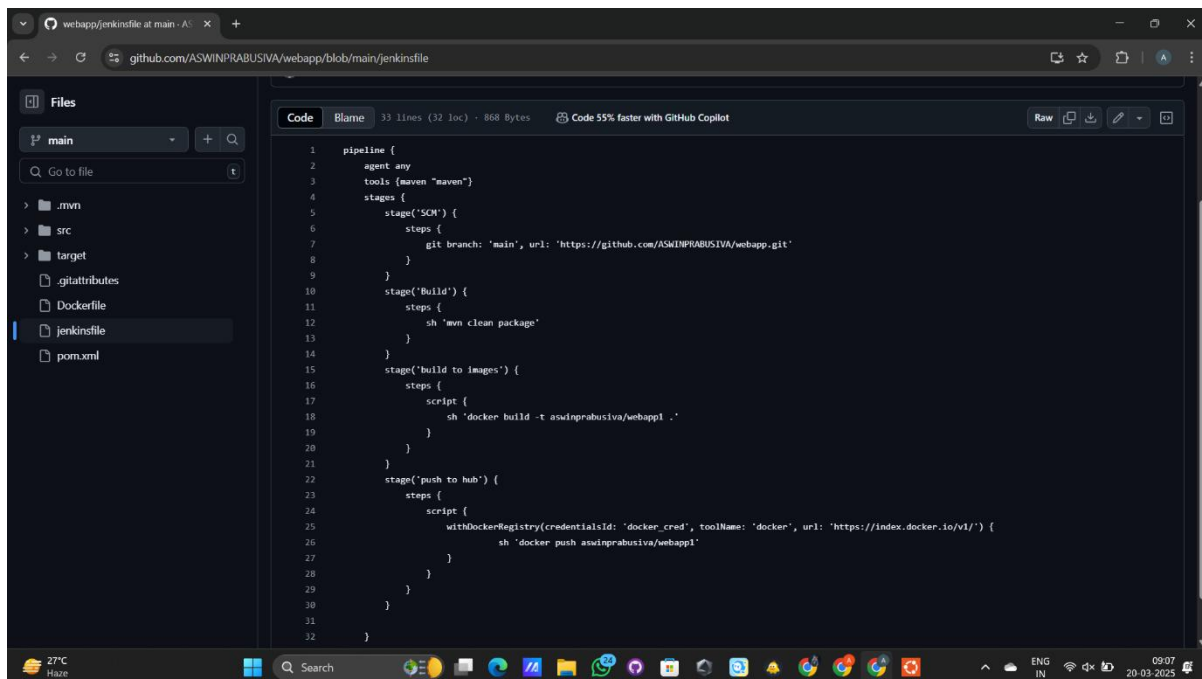
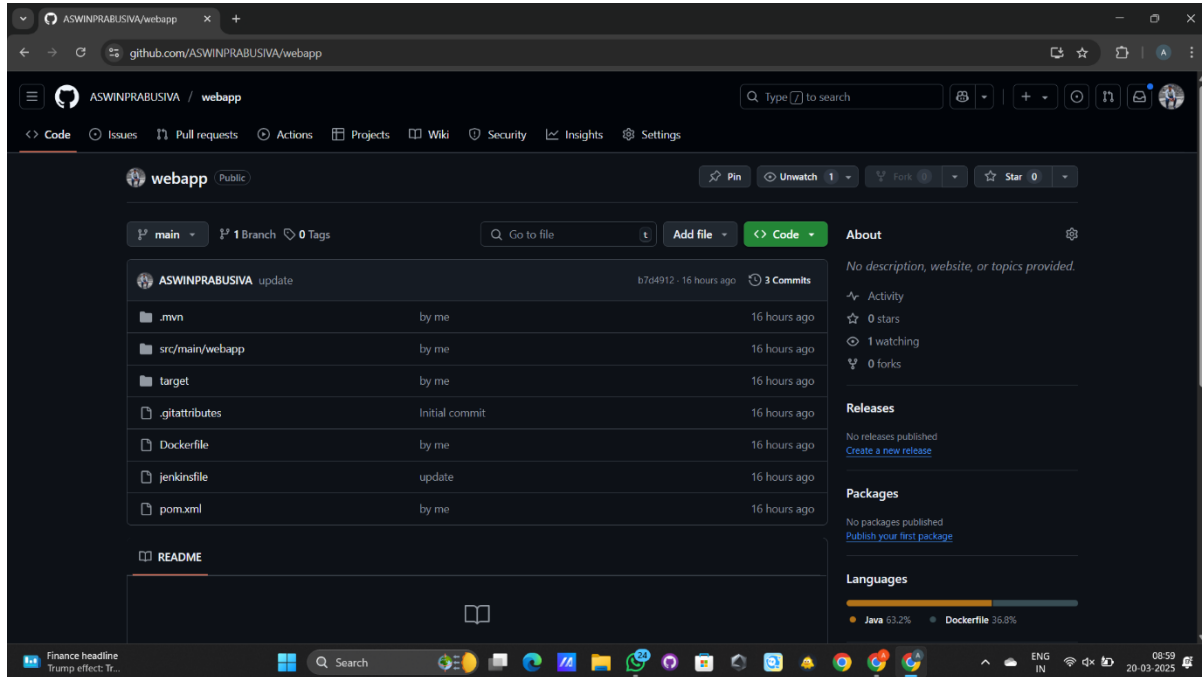
```
udo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
```

```
chmod +x kubectl
```

```
mkdir -p ~/.local/bin
```

```
mv ./kubectl ~/.local/bin/kubectl
```

kubectl version –client



Kubernetes Docker Jenkins Set

Dashboard [Jenkins]

localhost:8080

Jenkins

aswinprabu log out

Dashboard

+ New Item

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

(0 of 2 executors busy)

All

S	W	Name	Last Success	Last Failure	Last Duration
...	☀	maven	N/A	N/A	N/A
✓	☁	mvn	1 day 16 hr #10	1 day 16 hr #7	50 sec
...	☀	pipeline	N/A	N/A	N/A

Icons: S M L

REST API Jenkins 2.492.2

Git

Repositories ?

Repository URL ?

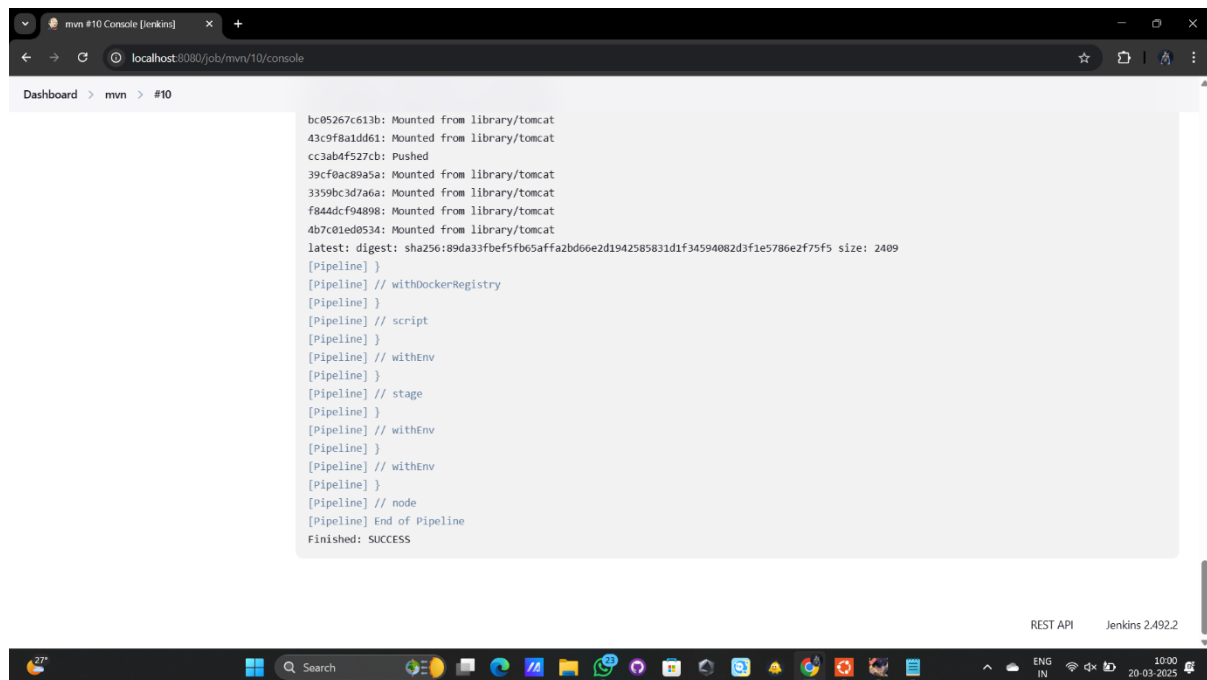
https://github.com/ASWINPRABUSIVA/webapp

Credentials ?

ASWINPRABUSIVA/***** (github_crd)

+ Add

Advanced



Pipeline code

```
pipeline {  
    agent any  
  
    tools {maven "maven"}  
  
    stages {  
        stage('SCM') {  
            steps {  
                git branch: 'master', url: 'https://github.com/Saran-Avinash/DevOps.git'  
            }  
        }  
  
        stage('Build') {
```

```
    steps {
      sh 'mvn clean package'
    }
  }
  stage('build to images') {
    steps {
      script {
        sh 'docker build -t saranavinashb/webapp1 .'
      }
    }
  }
  stage('push to hub') {
    steps {
      script {
        withDockerRegistry(credentialsId: 'docker_cred', toolName: 'docker', url:
'https://index.docker.io/v1/') {
          sh 'docker push saranavinashb/webapp1'
        }
      }
    }
  }
}
```

New Tab

GitHub - Rags162004/web-app

KEC_DevOps_Erode Daily task

Docker Hub

hub.docker.com/repositories/aswinprabusiva

NewIntroducing our new CEO Don Johnson - Read More

dockerhubExploreMy Hub

Search Docker Hub

ctrl+K

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aswinprabusiva

Docker Personal

Repositories

Settings

Default privacy

Notifications

Billing

Usage

Pulls

Storage

Repositories

All repositories within the aswinprabusiva namespace.

Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
aswinprabusiva/webapp1	about 16 hours ago	IMAGE	Public	Inactive

1-1 of 1

27°C
Haze

Search

ENG
IN

09:07
20-03-2025