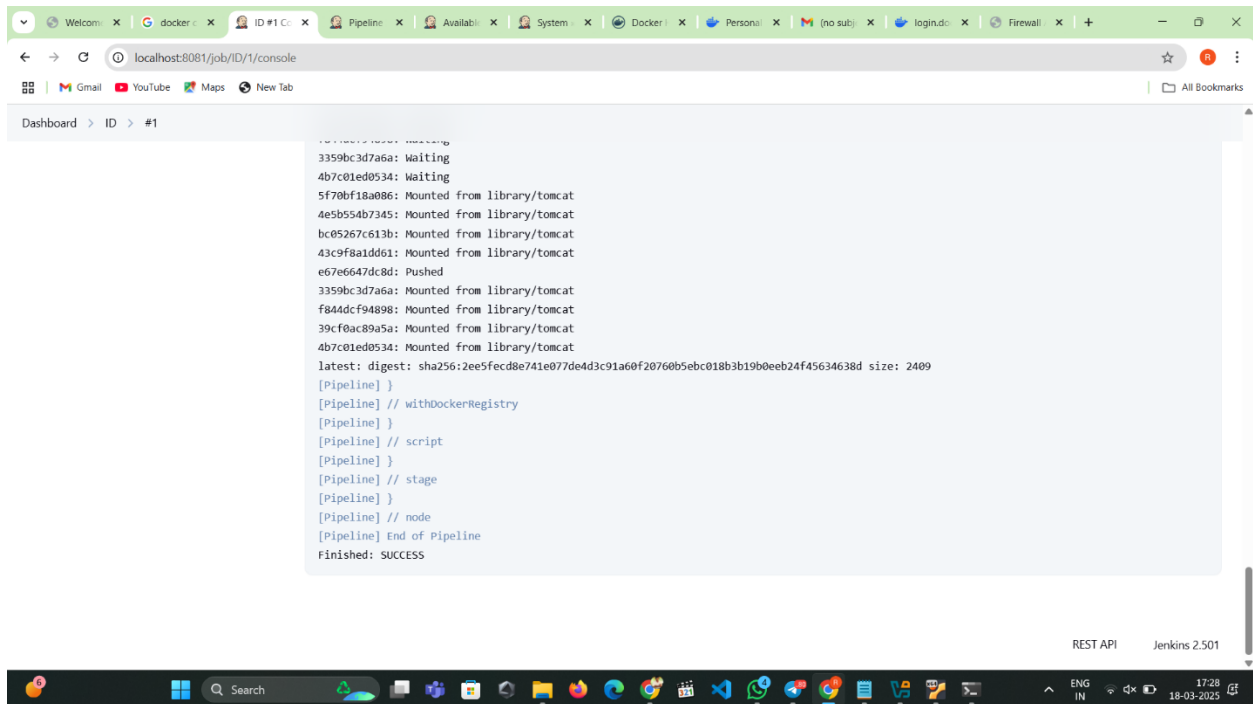


Rahul Siddharth D H– 22CS158

III CSE C

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

```
kubectl version --client
```

Dashboard - Jenkins

localhost:8081

Jenkins

Dashboard

+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

0/2

All +

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	ID	15 hr #1	N/A	38 sec
✓	☀	nginx1	14 hr #1	N/A	0.31 sec
✓	☁	simple web app	18 hr #5	18 hr #4	3 min 23 sec

Icon: S M L

REST API Jenkins 2.501

28°C Mostly cloudy

Search

localhost:8081/job/ID/

Jenkins

Dashboard ID

Status

Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

Builds

Filter

Today

#1 5:26 PM

✓ ID

Add description

Permalinks

- Last build (#1), 1 min 27 sec ago
- Last stable build (#1), 1 min 27 sec ago
- Last successful build (#1), 1 min 27 sec ago
- Last completed build (#1), 1 min 27 sec ago

localhost:8081/job/ID/lastStableBuild/

REST API Jenkins 2.501

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'
```

```
}
```

```
}
```

```
}
```

```
}
```

```
}
```

```
}
```

