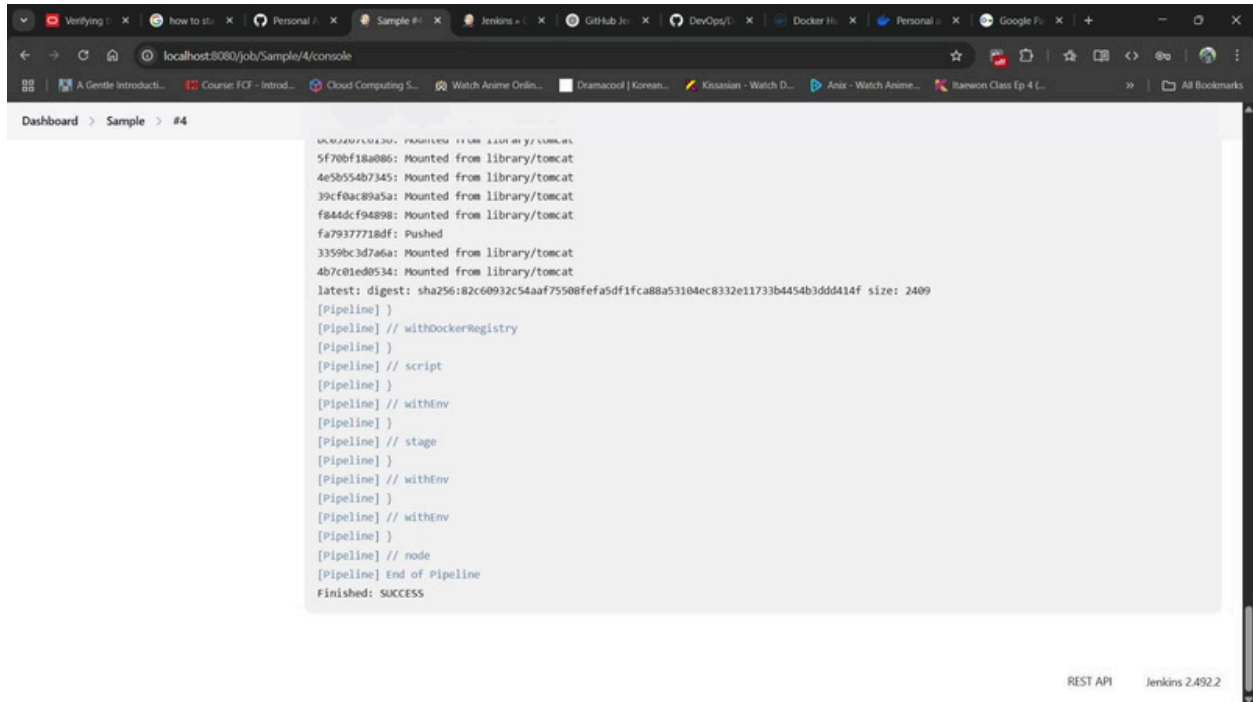


Mugesh V – 22CSR124 III CSE C DevOps Day 2 – Automation using Jenkins push image from github to docker hub using jenkins automation



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
```

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

```
kubectl version --client
```

Dashboard >

+ New Item

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Open Blue Ocean

Add description

All +

S	W	Name	Last Success	Last Failure	Last Duration	F
✓	☁	Sample	1 day 16 hr #4	1 day 16 hr #3	53 sec	▶ ☆

Icon: S M L

...

Build Queue

Build Executor Status

0/2

REST API Jenkins 2.492.2

Dashboard > Simple-web-app > Configuration

### Configure

- General
- Triggers
- Pipeline
- Advanced

#### Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

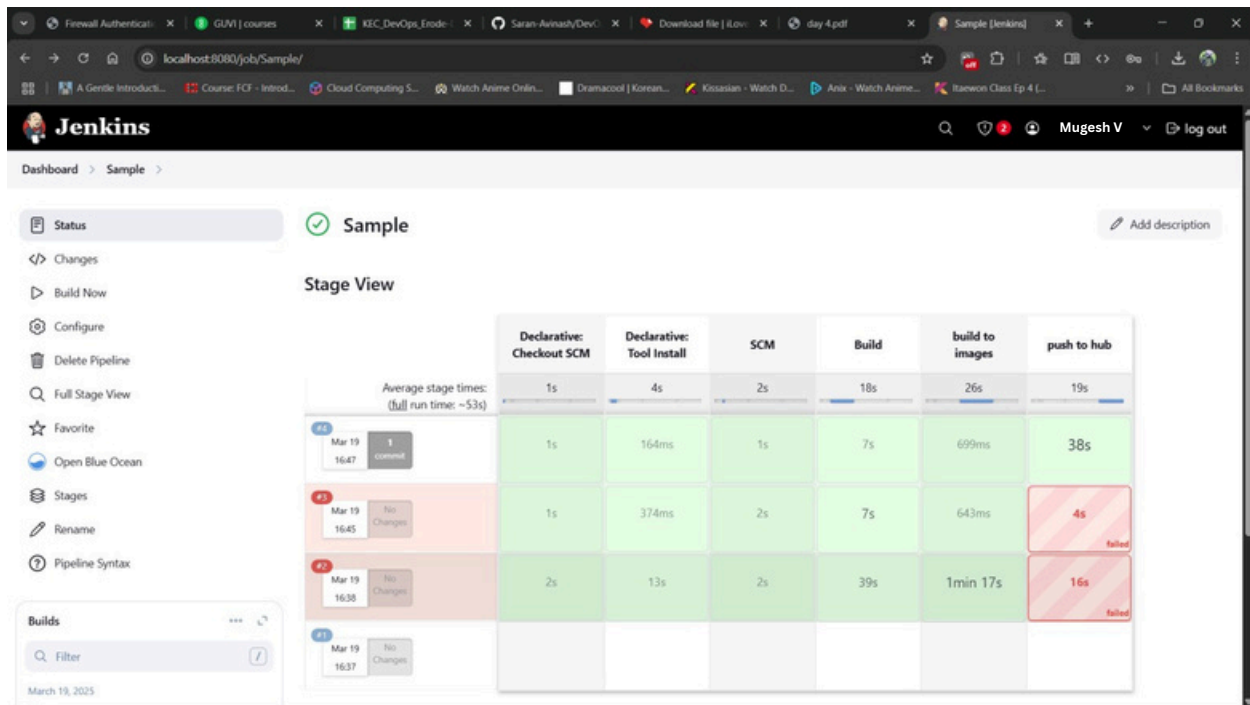
Pipeline script

```
Script ?
33- stage('Run Docker Container') {
34-   steps {
35-     script {
36-       bat "docker run -d -p 8888:8080 --name war-container ${DOCKER_HUB_USERNAME}/warimage-jenkins:latest"
37-     }
38-   }
39- }
40-
41- stage('Push to Docker Hub') {
42-   steps {
43-     script {
44-       withDockerRegistry(credentialsId: 'docker-hub-credentials', url: 'https://index.docker.io/v1/') {
45-         // Push the correctly tagged image
46-         bat "docker push ${DOCKER_HUB_USERNAME}/warimage-jenkins:latest"
47-       }
48-     }
49-   }
50- }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply



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'  
            }  
        }  
    }  
}  
}
```

Upload files - Mugesha04/Dev

docker hub - Search

Docker Hub

https://hub.docker.com/repositories/mugesha04

New

Introducing our new CEO Don Johnson - Read More

dockerhub

Explore

My Hub

Search Docker Hub

CEH+K

M

mugesha04

Docker Personal

Repositories

Settings

Default privacy

Notifications

Billing

Usage

Pulls

Storage

Repositories

All repositories within the mugesha04 namespace.

Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
mugesha04/guviddevpsday1	about 3 hours ago	IMAGE	Public	Inactive
mugesha04/warimage-jenkins	about 22 hours ago	IMAGE	Public	Inactive

1 - 2 of 2

https://hub.docker.com/repositories

07:57 PM 19-03-2025