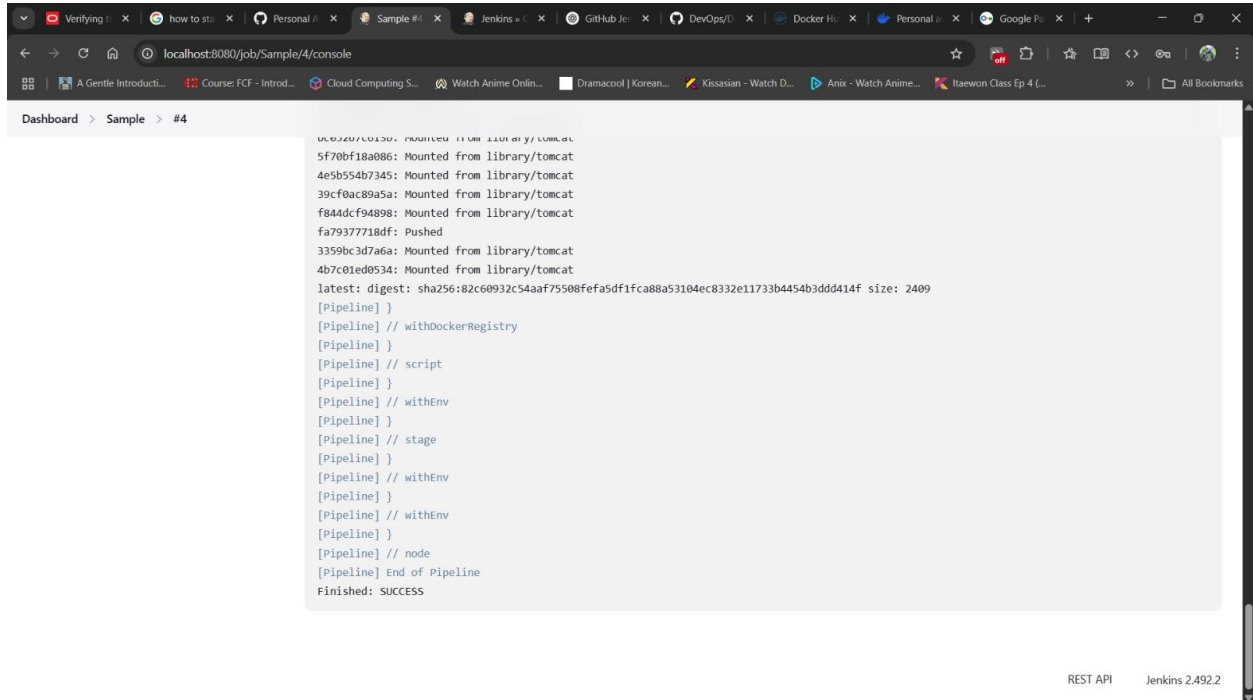


SARAN AVINASH B – 22CSR179 III CSE C

## 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

Build Queue

Build Executor Status

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

REST API

Jenkins 2.492.2

Sample

Configuration

Configure

General

Triggers

Pipeline

Advanced

Definition

Pipeline script from SCM

SCM

Git

Repositories

Repository URL

https://github.com/Saran-Avinash/Dev-Ops.git

Credentials

Saran-Avinash/\*\*\*\*\* (github\_cred)

+ Add

Advanced

Add Repository

Branches to build

Branch Specifier (blank for 'any')

\*/master

Add Branch

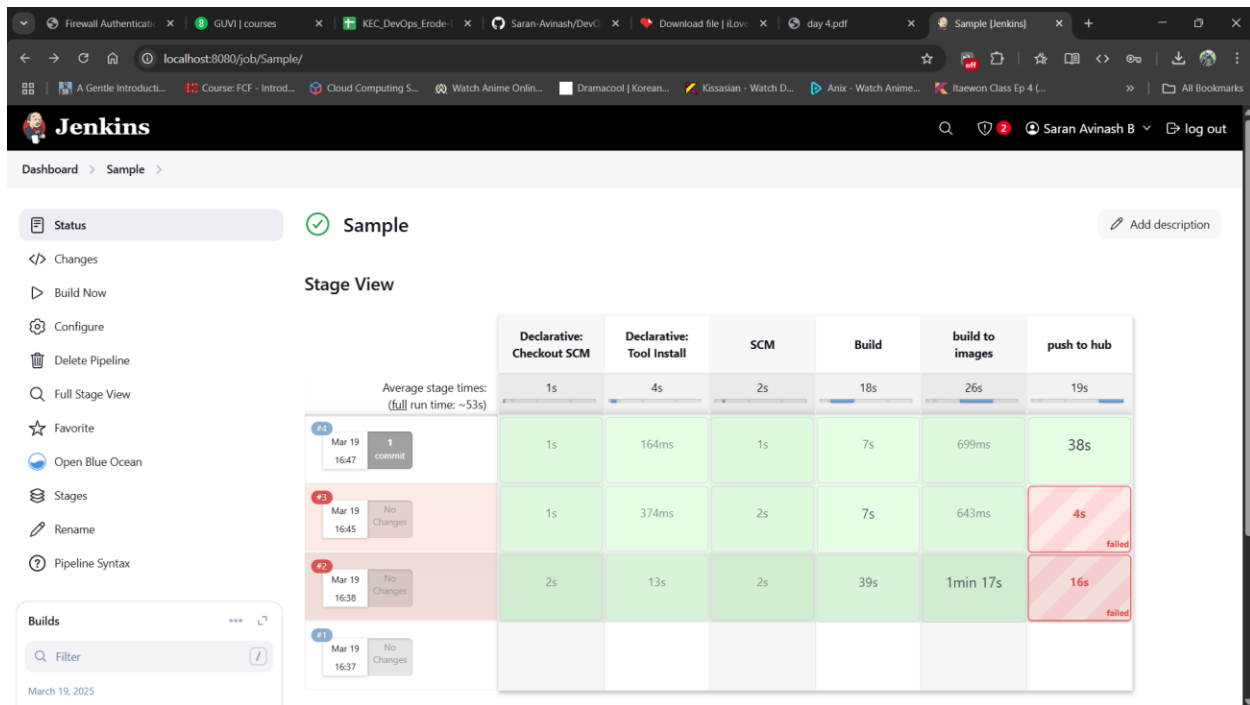
Repository browser

(Auto)

Additional Behaviours

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'  
            }  
        }  
    }  
}  
  
}  
}
```

Firewall Authenti

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Saran-Avinashy/D

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day 4.pdf

Sample [Jenkins]

Docker Hub

hub.docker.com/repositories/saranavinashb

New Introducing our new CEO Don Johnson - Read More →

dockerhub

ExploreMy Hub

Search Docker Hub

Ctrl+K

S

saranavinashb

Docker Personal

Repositories

Settings

Default privacy

Notifications

Billing

Usage

Pulls

Storage

Repositories

All repositories within the saranavinashb namespace.

Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
saranavinashb/webapp1	1 day ago	IMAGE	Public	Inactive
saranavinashb/new_docker_rep	15 days ago		Public	Inactive

1-2 of 2