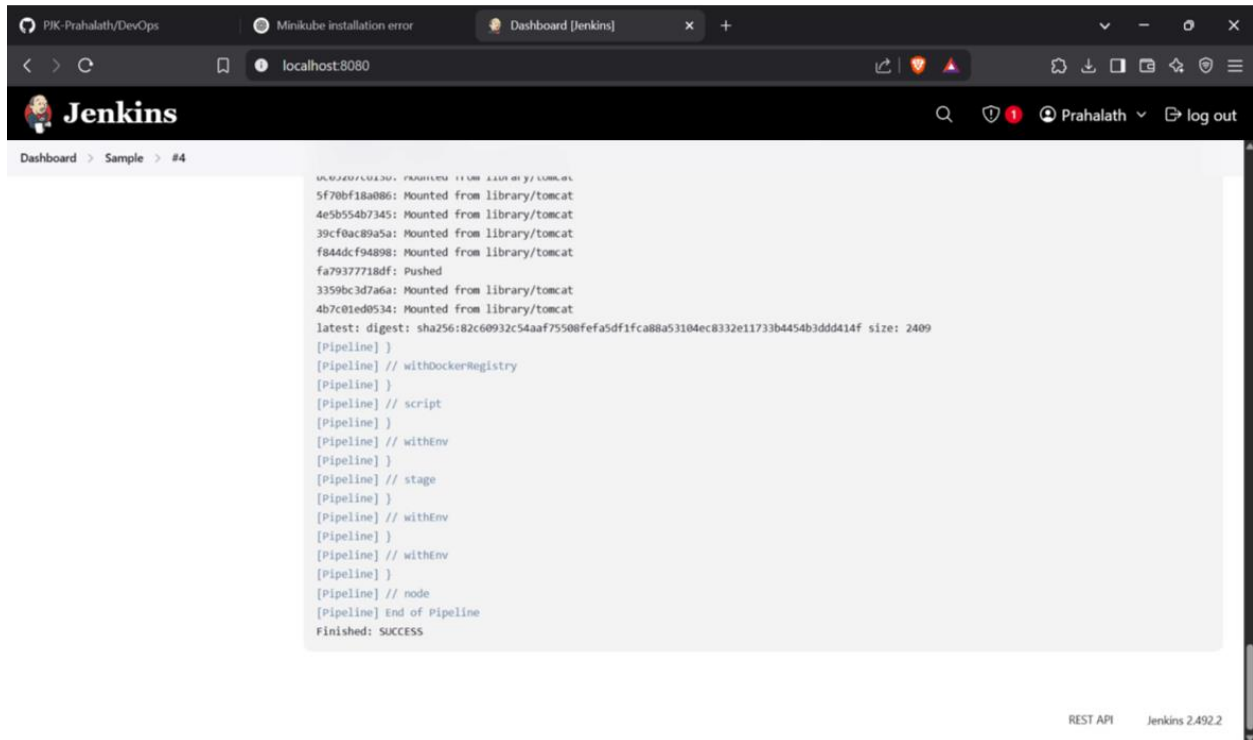


PRAHALATH P J K – 22CSR146 III CSE C

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
```

PIK-Prahalath/DevOps

Minikube installation error

Dashboard [Jenkins]

localhost:8080

Jenkins

Prahalath

log out

Dashboard

+ New Item

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Open Blue Ocean

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

PIK-Prahalath/DevOps

Minikube installation error

Dashboard [Jenkins]

localhost:8080

Jenkins

Prahalath

log out

Dashboard > Sample > Configuration

Configure

General

Triggers

Pipeline

Advanced

Definition

Pipeline script from SCM

SCM

Git

Repositories

Repository URL

https://github.com/Saran-Avinash/DevOps.git

Credentials

Saran-Avinash (github_cred)

+ Add

Advanced

Add Repository

Branches to build

Branch Specifier (blank for 'any')

*/master

Add Branch

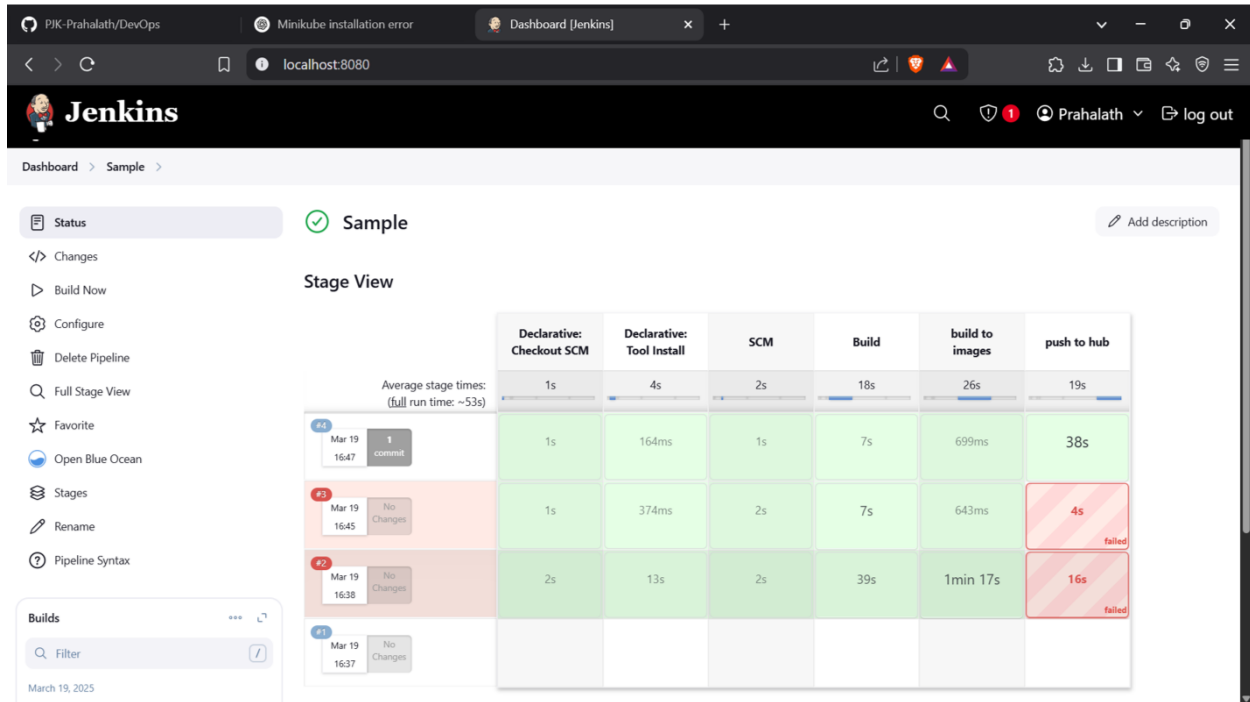
Repository browser

(Auto)

Additional Behaviours

Save

Apply



Pipeline code

```

pipeline {
    agent any

    tools {maven "maven"}

    stages {
        stage('SCM') {
            steps {
                git branch: 'master', url: 'https://github.com/PJK-Prahalath/devops'
            }
        }

        stage('Build') {
            steps {
                sh 'mvn clean package'
            }
        }
    }
}

```

```
}  
stage('build to images') {  
    steps {  
        script {  
            sh 'docker build -t prahalath99/webapp1.'  
        }  
    }  
}  
stage('push to hub') {  
    steps {  
        script {  
            withDockerRegistry(credentialsId: 'docker_cred', toolName: 'docker', url:  
'https://index.docker.io/v1/') {  
                sh 'docker push prahalath99/webapp1'  
            }  
        }  
    }  
}  
}
```

PIK-Prahalath/DevOps

Minikube installation error

Dashboard [Jenkins]

Docker Hub

hub.docker.com/repositories/prahalath99

dockerhub

Explore

My Hub

Search Docker Hub

Ctrl+K

P

prahalath99

Docker Personal

Repositories

Settings

Default privacy

Notifications

Billing

Usage

Pulls

Storage

Repositories

All repositories within the prahalath99 namespace.

Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
prahalath99/webapp1	5 minutes ago		Public	Inactive
prahalath99/first_repository	15 days ago	IMAGE	Public	Inactive

1-2 of 2

https://hub.docker.com/repositories