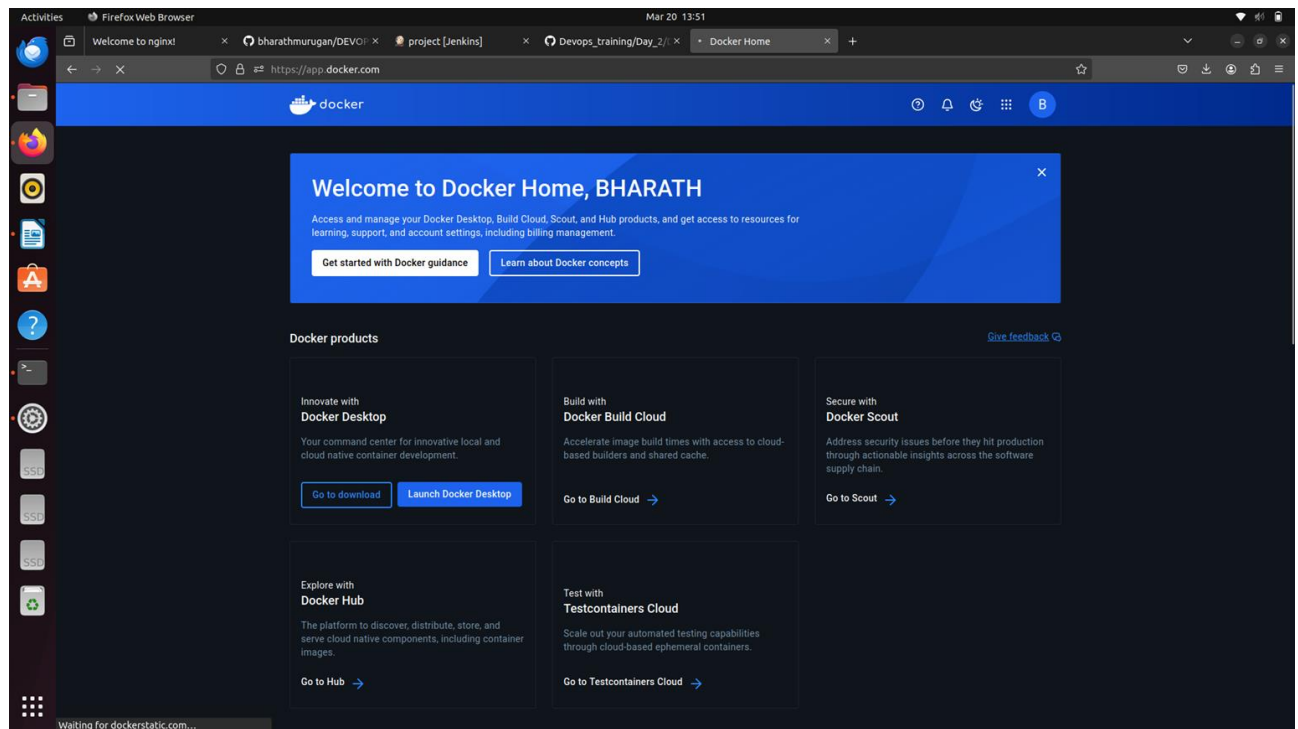


DAY 2

1.CREATE DOCKER CREDENTIALS



2.PIPELINE

```
pipeline {
    agent any

    tools {
        jdk 'jdk17'
        nodejs 'node20'
    }

    environment {
        IMAGE_NAME = 'bharathm746/project'
        IMAGE_TAG = 'latest'
        CONTAINER_NAME = 'jusjes_container'
    }

    stages {

        stage('Clean Workspace') {
            steps {
                script {
                    echo "Cleaning workspace..."
                    deleteDir() // Deletes everything in the Jenkins workspace before starting
                }
            }
        }
    }
}
```

```

}

stage('Git Checkout') {
    steps {
        script {
            git branch: 'main',
                credentialsId: 'github_seccred',
                url: 'https://github.com/bharathmurugan/Devops-Setup.git'
        }
    }
}

stage('Install Node') {
    steps {
        script {
            sh """
            if [ -f package.json ]; then
                echo "package.json found. Running npm install..."
                npm install
            else
                echo "ERROR: package.json is missing. Skipping npm install."
                exit 1
            fi
            """
        }
    }
}

stage('Docker Build & Push') {
    steps {
        script {
            docker.withRegistry('https://index.docker.io/v1/', 'docker') {
                sh """
                docker build -t ${IMAGE_NAME}:${IMAGE_TAG} .
                docker tag ${IMAGE_NAME}:${IMAGE_TAG}
                ${IMAGE_NAME}:${IMAGE_TAG}
                docker push ${IMAGE_NAME}:${IMAGE_TAG}
                """
            }
        }
    }
}

stage('Deploy Docker Container') {
    steps {
        script {
            // Ensure Docker is running
            sh "docker info"

            // Stop and remove the existing container if it's running
            sh "docker stop ${CONTAINER_NAME} || true"
            sh "docker rm ${CONTAINER_NAME} || true"
        }
    }
}

```

```
        // Run the new container
        sh "docker run -d --name ${CONTAINER_NAME} -p 3001:3000
${IMAGE_NAME}:${IMAGE_TAG}"
    }
}
}
}
```

3.TOOLS CONFIGURATION

JAVA
NODE JS
DOCKER

4.PLUGINS

NODE JS
DOCKER RELATED(EXCEPT BUILD)
ECLIPSE
PIPELINE

5.CREDENTIALS

GITHUB
DOCKER

BUILD PIPELINE

FOR DOCKER BUILD & PUSH ,DEPLOY CONTAINER

```
sudo usermod -aG docker jenkins
sudo chmod 666 /var/run/docker.sock
sudo systemctl restart jenkins
sudo systemctl status jenkins
```

Activities

Firefox Web Browser

Mar 20 14:01

Welcome to nginx!

bharathmurugan/DEVOPS

project [Jenkins]

Devops_training/Day_2/

Guys, incase yarukachi

localhost:8080/job/project/

Jenkins

Dashboard > project

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Stages

Rename

Pipeline Syntax

Builds

Filter

Today

#34 1:34 PM

#33 11:31 AM

#30 9:45 AM

#27 8:47 AM

#25 7:19 AM

project

Add description

Stage View

Average stage times: (full run time: ~8min 31s)

	Declarative: Tool Install	Clean Workspace	Git Checkout	Install Node	Docker Build & Push	Deploy Docker Container
#34 1:34 PM						
#33 11:31 AM	156ms	1s	3s	2min 9s	6min 14s	1s
#30 9:45 AM	351ms	409ms	3s	2min 36s	9min 16s	99ms
#27 8:47 AM	160ms	1s	23s	5h 13min	aborted	aborted
#25 7:19 AM	156ms	1s	3s	6h 41min		

Permalinks

Last build (#34), 26 min ago

Activities

Firefox Web Browser

Mar 20 14:02

Welcome to nginx!

bharathmurugan/DEVOPS

project #33 Console [Jenkins]

Devops_training/Day_2/

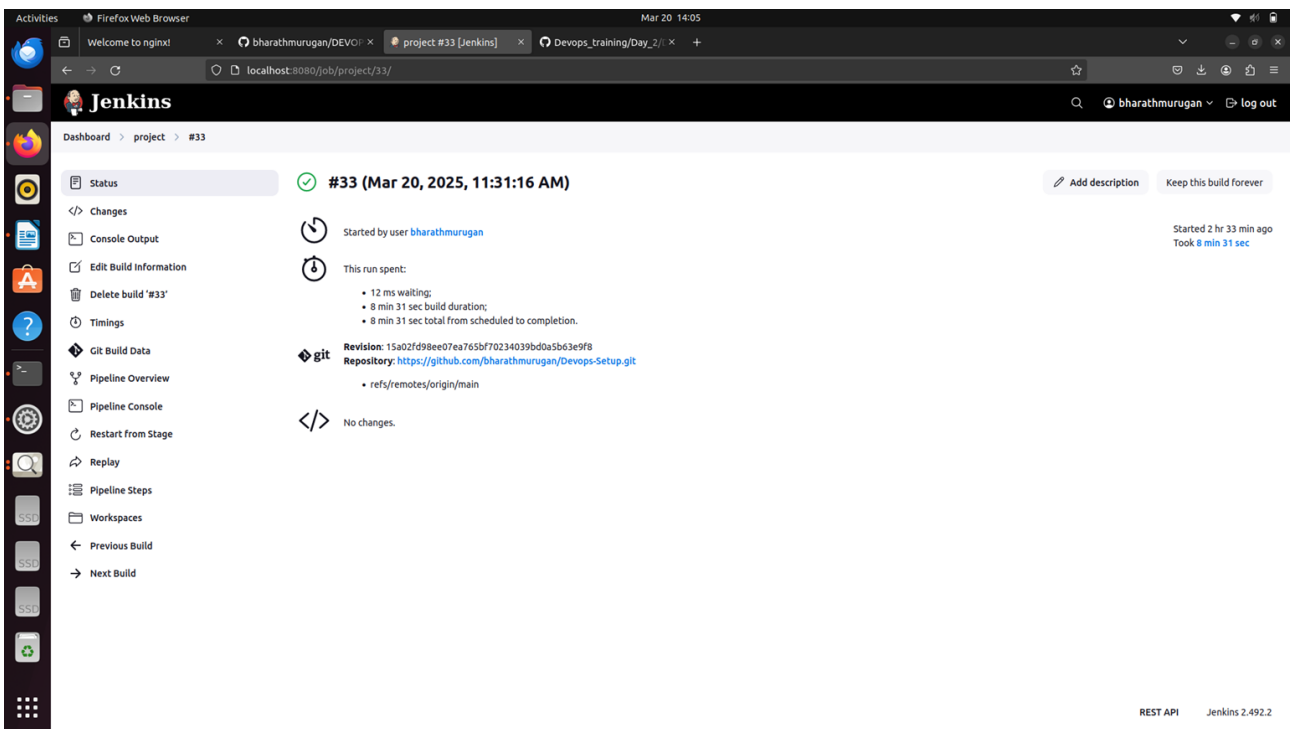
Guys, incase yarukachi

localhost:8080/job/project/33/console

Dashboard > project > #33

```
OSType: linux
Architecture: x86_64
CPUs: 12
Total Memory: 7.426618
Name: bharath-m
ID: b3783791-ffd8-42c8-9a95-524b7ff0c3c5
Docker Root Dir: /var/lib/docker
Debug Mode: false
Experimental: false
Insecure Registries:
::1/128
127.0.0.0/8
Live Restore Enabled: false

[Pipeline] sh
+ docker stop jusjes_container
jusjes_container
[Pipeline] sh
+ docker rm jusjes_container
jusjes_container
[Pipeline] sh
+ docker run -d --name jusjes_container -p 3001:3000 bharathm746/project:latest
7f2b9bf786bf839203b58680b5cb71758ca57aa39a534987d224550846f9f71d
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



`http://localhost:3001`

