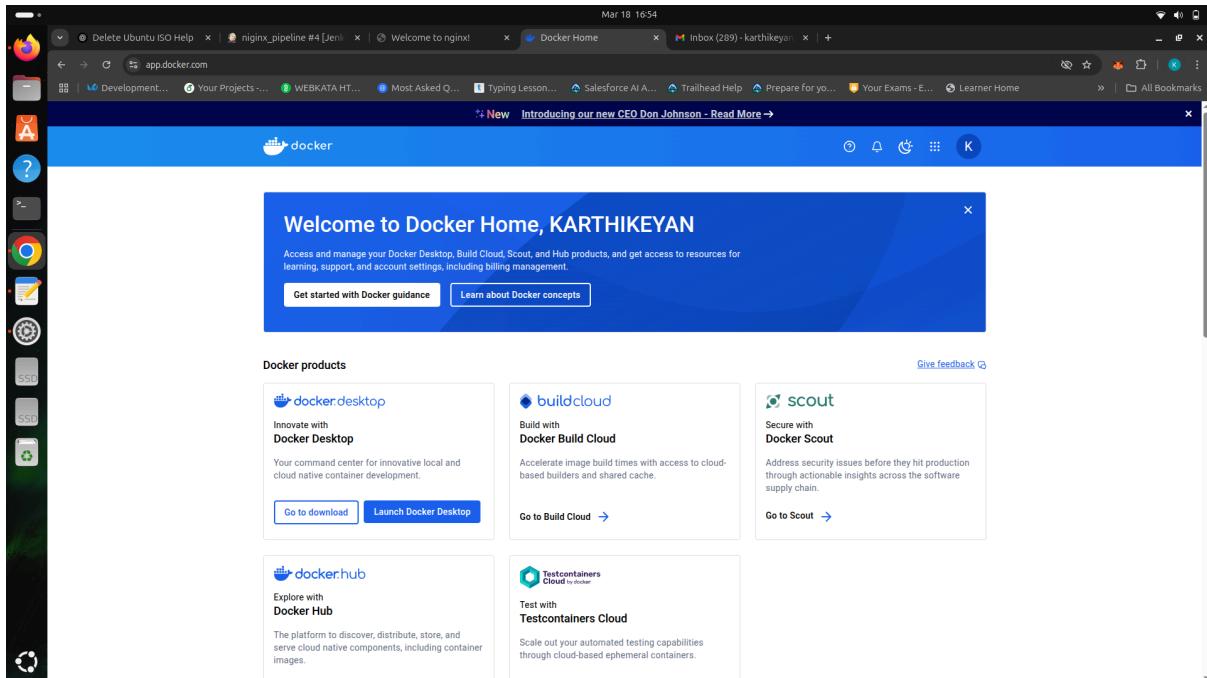


## Day 2

### 1) Create docker credentials



### 2) Pipeline script

```
pipeline {
    agent any
    tools {
        jdk 'java21'
        nodejs 'Node23'
    }

    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/Karthikeyan-2004/docker.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 {
            withDockerRegistry(credentialsId: 'docker', toolName: 'docker') {
                def imageName = "karthikeyanr17/devops"
                def tag = "latest"

                sh "docker build -t ${imageName} ."
                sh "docker tag ${imageName} ${imageName}:${tag}"
                sh "docker push ${imageName}:${tag}"
            }
        }
    }
}
stage('Deploy Docker Container') {
    steps {
        script {
            // Stop and remove the existing container if it's running
            sh "docker stop devops_container || true"
            sh "docker rm devops_container || true"

            // Run the new container
            sh "docker run -d --name devops_container -p 3001:3000
karthikeyanr17/devops:latest"
        }
    }
}
}

```

### 3) Tools configuration

Java  
Nodejs  
docker

### 4) Plugins

Nodejs  
Docker related (except build)  
Eclipse  
pipeline

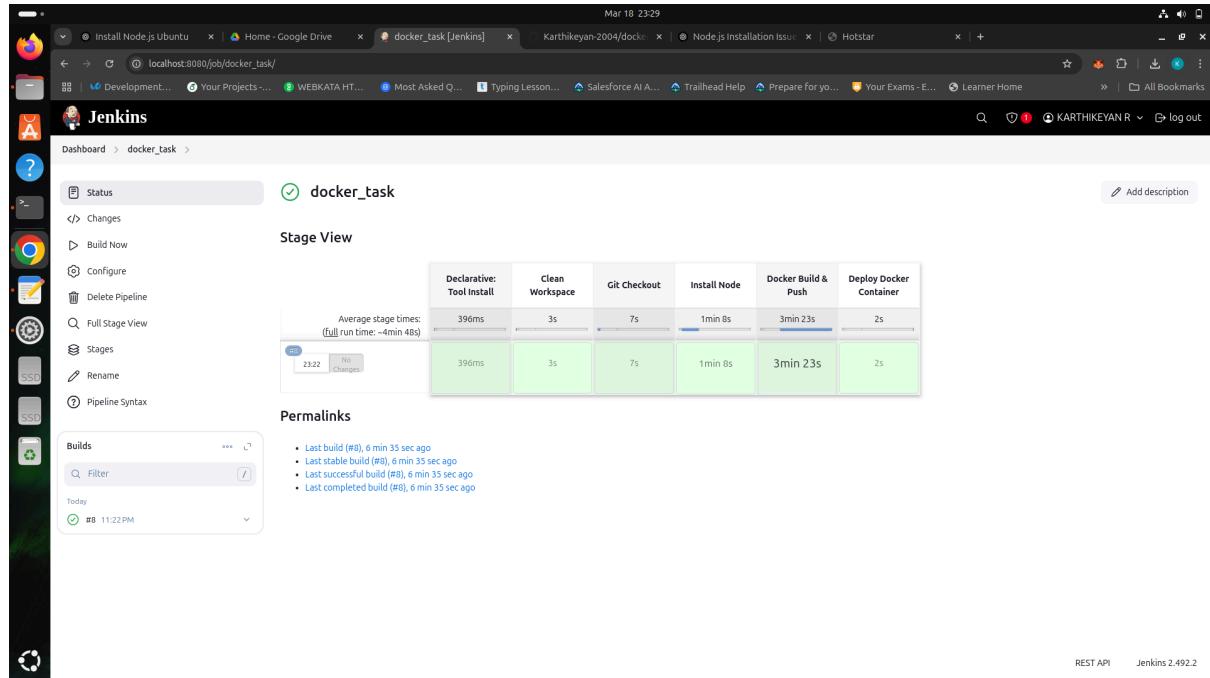
### 5) credentials

Github & docker

## Build pipeline

### For docker Build & push , depoly docker Container

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



The screenshot shows a web browser window with multiple tabs open. The active tab displays Jenkins Pipeline console output for build #8. The log shows the following steps:

```
[Pipeline] { (Deploy Docker Container)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
[Pipeline] script
[Pipeline] {
[Pipeline] sh
+ docker stop devops_container
Error response from daemon: No such container: devops_container
+ true
[Pipeline] sh
+ docker rm devops_container
Error response from daemon: No such container: devops_container
+ true
[Pipeline] sh
+ docker run -d --name devops_container -p 3001:3000 karthikeyan17/devops:latest
f1433bd7824e36c11807be8fe6a4e6b4d22f9ec194d8467ae2e7f4aad9a259
[Pipeline]
[Pipeline] // script
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // stage
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

At the bottom right of the browser window, it says "REST API Jenkins 2.492.2".

The screenshot shows the Jenkins UI for the "docker\_task" job. The main view displays the build history for build #8, which was started by user KARTHIKEYAN R on Mar 18, 2025, at 11:22:57 PM. The build status is green. The left sidebar contains links for Status, Changes, Console Output, Edit Build Information, Delete build '#8', Timings, Git Build Data, Pipeline Overview, Pipeline Console, Replay, Pipeline Steps, and Workspaces.

Build #8 (Mar 18, 2025, 11:22:57 PM)

Started by user KARTHIKEYAN R

This run spent:

- 47 ms waiting;
- 4 min 49 sec build duration;
- 4 min 48 sec total from scheduled to completion.

git Revision: 8cb79eeff131392901a929212747be377ae00a1a  
Repository: https://github.com/karthikeyan-2004/docker.git  
refs/remotes/origin/main

</> No changes.

At the bottom right of the screen, it says "REST API Jenkins 2.492.2".

<http://localhost:3001>

