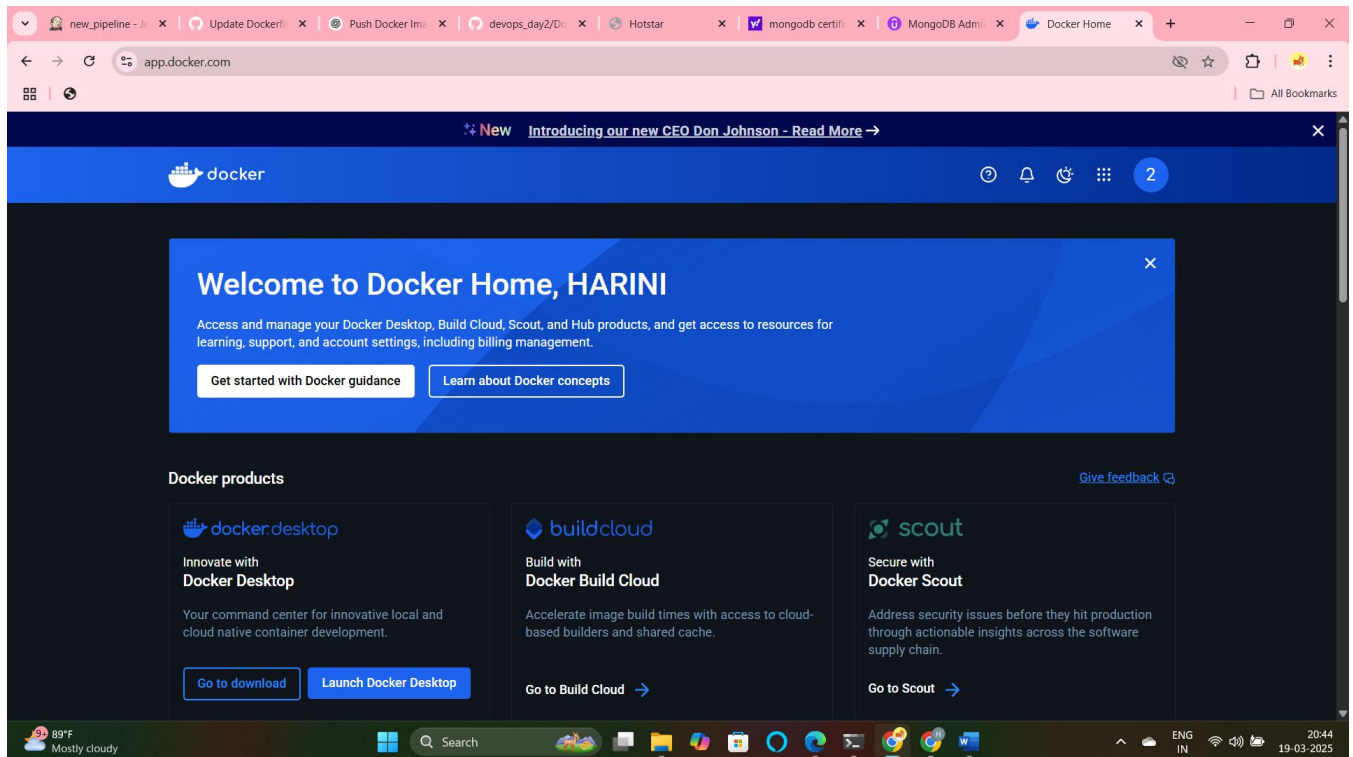# DAY 2

1)CREATE DOCKER CREDENTIALS

2)PIPELINE SCRIPT

```
pipeline {
    agent any
    tools {
        jdk 'jdk17'
        nodejs 'node20'
    }

    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/har-kumar/devops_day2.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',url: 'https://index.docker.io/v1/') {
                    def imageName = "22itr029/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 hotstar_container || true"
        sh "docker rm hotstar_container || true"


        // Run the new container
```

```
        sh "docker run -d --name hotstar_container -p 3001:3000 22itr029/devops:latest"

    }

  }

}



  }

}
```

3) TOOLS CONFIGURATION

Java

Node js

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

Screenshot 1 — Jenkins new_pipeline Stage View

Jenkins

Harini K   log out

Dashboard > new_pipeline

Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
Stages
Rename
Pipeline Syntax

new_pipeline   Add description

Stage View

	Declarative: Tool Install	Clean Workspace	Git Checkout	Install Node	Docker Build & Push	Deploy Docker Container
Average stage times: (full run time: ~9min 9s)	433ms	2s	3s	1min 17s	7min 43s	1s
#6 19:50 1	433ms	2s	3s	1min 17s	7min 43s	1s

Builds

Permalinks

Sports headline
Toto Wolff says...

19:59
19-03-2025

Screenshot 2 — Jenkins build #6

Dashboard > new_pipeline > #6

Status
Changes
Console Output
Edit Build Information
Delete build '#6'
Timings
Git Build Data
Pipeline Overview
Pipeline Console
Restart from Stage
Replay
Pipeline Steps

#6 (Mar 19, 2025, 7:50:17 PM)   Add description   Keep this build forever

Started by user Harini K

Started 1 hr 2 min ago
Took 9 min 9 sec

This run spent:

- 31 ms waiting;
- 9 min 9 sec build duration;
- 9 min 9 sec total from scheduled to completion.

git
Revision: ac36012ba7754abc22904296e9a671b4736f8f44
Repository: https://github.com/har-kumar/devops_day2.git

- refs/remotes/origin/main

Changes

1. Update Dockerfile (details / githubweb)

89°F
Mostly cloudy

20:53
19-03-2025

```
+ docker stop hotstar_container
Error response from daemon: No such container: hotstar_container
+ true
[Pipeline] sh
+ docker rm hotstar_container
Error response from daemon: No such container: hotstar_container
+ true
[Pipeline] sh
+ docker run -d --name hotstar_container -p 3001:3000 22itr029/devops:latest
5081df758ce6f9dc1cd80b7d8b09e9064c1bd9267ea46431da34ab7be1f45645
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

LOCAL HOST : https://localhost/3001