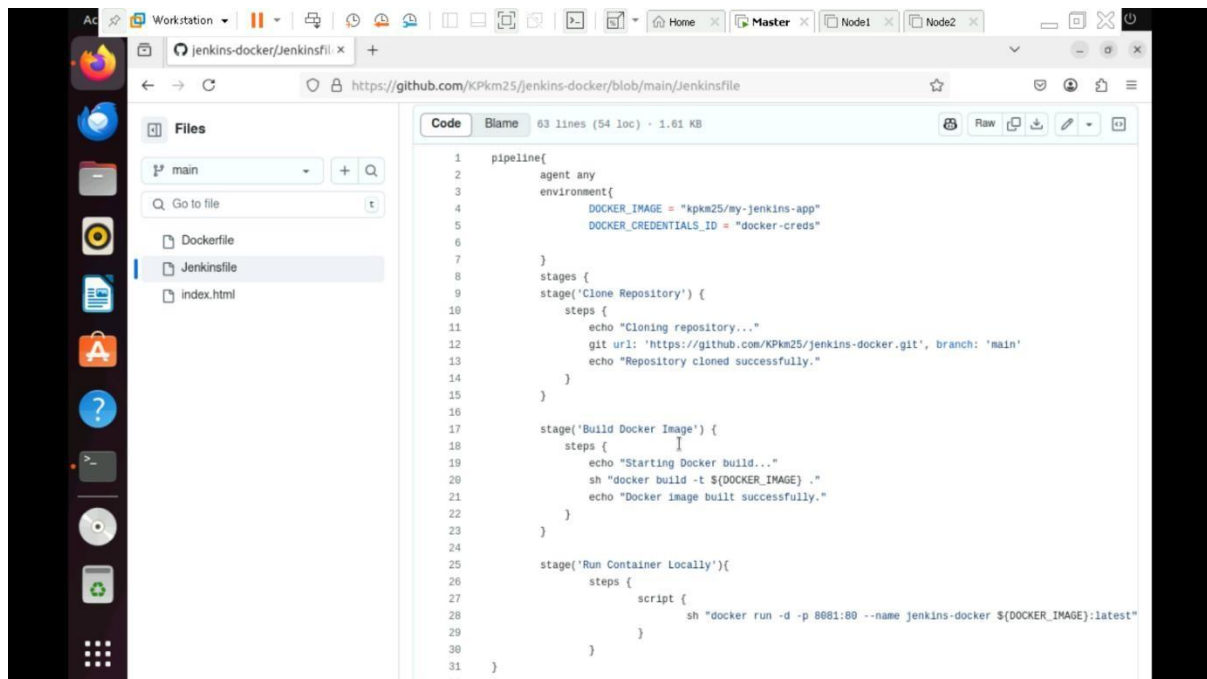
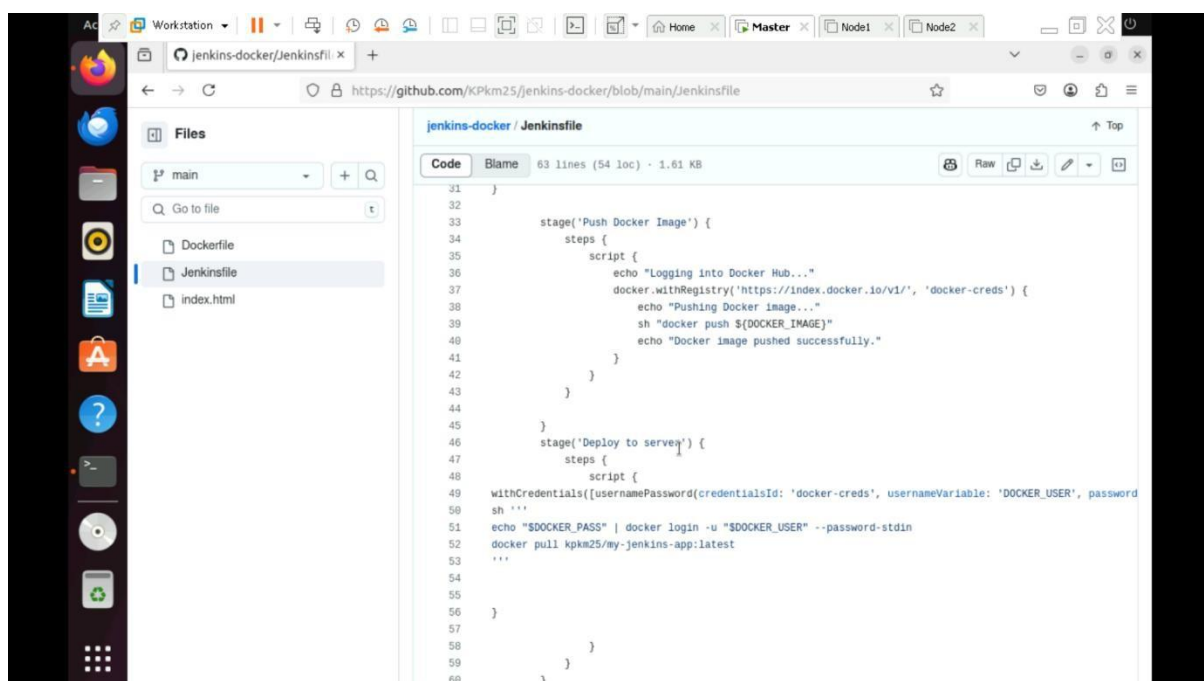


PROJECT – 2



```
1 pipeline{
2   agent any
3   environment{
4     DOCKER_IMAGE = "kpkm25/my-jenkins-app"
5     DOCKER_CREDENTIALS_ID = "docker-creds"
6   }
7   stages {
8     stage('Clone Repository') {
9       steps {
10        echo "Cloning repository..."
11        git url: 'https://github.com/KPkm25/jenkins-docker.git', branch: 'main'
12        echo "Repository cloned successfully."
13      }
14    }
15  }
16  stage('Build Docker Image') {
17    steps {
18      echo "Starting Docker build..."
19      sh "docker build -t ${DOCKER_IMAGE} ."
20      echo "Docker image built successfully."
21    }
22  }
23  stage('Run Container Locally'){
24    steps {
25      script {
26        sh "docker run -d -p 8081:80 --name jenkins-docker ${DOCKER_IMAGE}:latest"
27      }
28    }
29  }
30 }
31
32
```



```
jenkins-docker / Jenkinsfile
31 }
32
33 stage('Push Docker Image') {
34   steps {
35     script {
36       echo "Logging into Docker Hub..."
37       docker.withRegistry('https://index.docker.io/v1/', 'docker-creds') {
38         echo "Pushing Docker Image..."
39         sh "docker push ${DOCKER_IMAGE}"
40         echo "Docker image pushed successfully."
41       }
42     }
43   }
44 }
45
46 stage('Deploy to server') {
47   steps {
48     script {
49       withCredentials([usernamePassword(credentialsId: 'docker-creds', usernameVariable: 'DOCKER_USER', password
50       sh '''
51       echo "${DOCKER_PASS}" | docker login -u "${DOCKER_USER}" --password-stdin
52       docker pull kpkm25/my-jenkins-app:latest
53       '''
54     }
55   }
56 }
57
58 }
59
60 }
```

The screenshot shows the Jenkins web interface for a job named 'jenkins-docker'. The 'Stage View' is displayed, showing a pipeline with six stages: Declarative Checkout SCM, Clone Repository, Build Docker Image, Run Container Locally, Push Docker Image, and Deploy to server. The pipeline is currently in a failed state, indicated by a red 'X' icon and the text 'jenkins-docker'. The 'Average stage times' are shown as (full run time: ~26s). The 'Builds' section on the left shows a list of builds, with the most recent build (#17) at 3:23 PM. The 'Deploy to server' stage is highlighted in red, indicating a failure.

Stage	Declarative: Checkout SCM	Clone Repository	Build Docker Image	Run Container Locally	Push Docker Image	Deploy to server
Average stage times: (full run time: ~26s)	1s	2s	1s	1s	12s	3s
#17 15:23	1s	1s	1s	1s	10s	8s
#16 15:19	1s	1s	1s	1s	12s	4s failed
#15 15:16	1s	1s	993ms	1s	14s	4s failed
#14						failed

The screenshot shows the Jenkins web interface for the 'jenkins-docker' job, displaying the 'Deployment Successful with Jenkins and Docker!' message. The URL bar shows '0.0.0.0:8081'. The Jenkins logo and navigation menu are visible on the left side of the page.