DevOps

Day 2

Date: 18.03.2025

Topics Covered: Installation of Ubuntu WSL, Jenkins, Docker in Ubuntu and Master slave nodes

Jenkins

Installing Jenkins, Docker and pulling a git project and pushing to Docker Hub

- Pushing a new Jenkinsfile to GitHub
- Pushing an image to Docker Hub with the Jenkinsfile from GitHub

```
sanchay@SANCHAY:/mnt/c/Users/sanch$ docker --version
Docker version 26.1.3, build 26.1.3-Oubuntu1~24.04.1
sanchay@SANCHAY:/mnt/c/Users/sanch$ jenkins --version
2.492.2
sanchay@SANCHAY:/mnt/c/Users/sanch$
```

Installations in Ubuntu

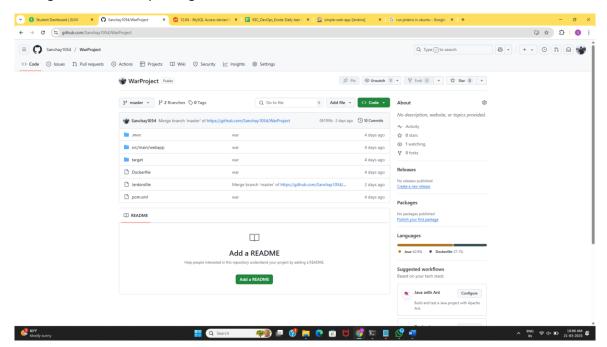
Commands:

```
Jenkinsfile in War project
pipeline {
    agent any
tools {maven 'mvn'}

    stages {
        stage('scm') {
            steps {
                git 'https://github.com/Sanchay1054/WarProject.git'
                }
                stage('build') {
                     steps {
                      sh "mvn clean"
                      sh "mvn install"
                }
}
```

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

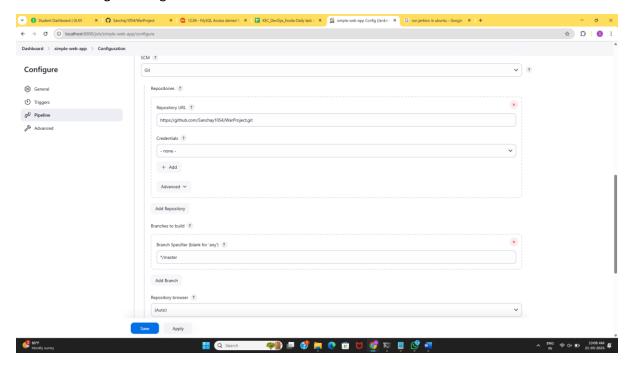
Creating Jenkinsfile and pushing it to GitHub



GitHub war project Repository

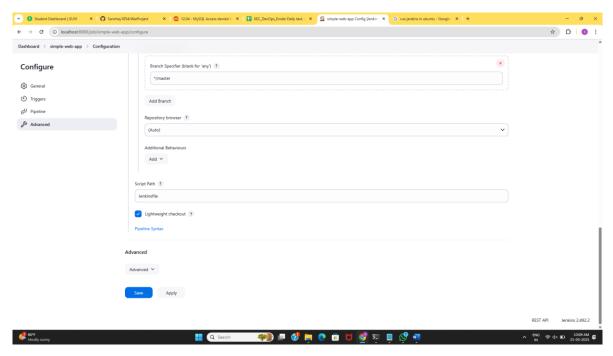
Adding the GitHub link to the Jenkins

- Pulling the Jenkinsfile
- Running the Jenkinsfile from Jenkins
- Pushing the image to DockerHub



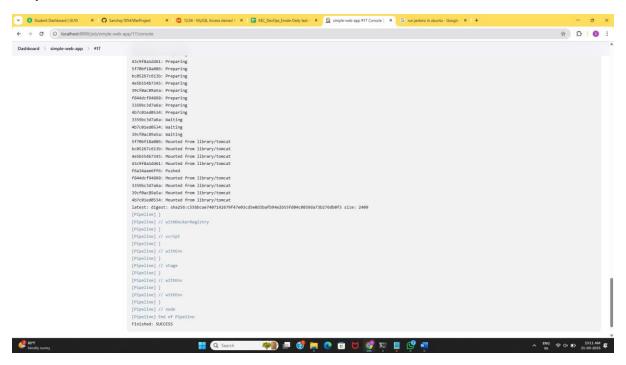
Adding GitHub to Jenkins

Script from Jenkinsfile

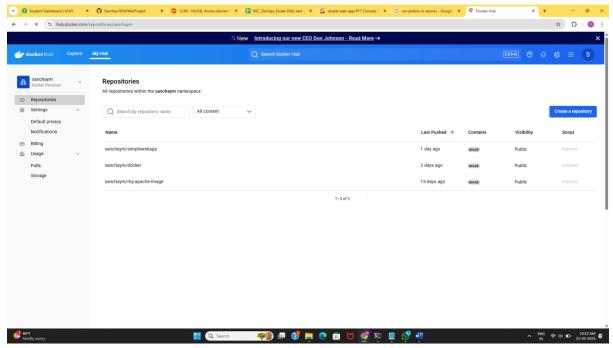


Added Jenkinsfile to execute

Output:



Pushed to Docker Hub from Jenkins



War project Image pushed to Docker Hub