

CICD LAB VIVA

Create a Simple Jenkins pipeline using Jenkinsfile and create a build using it

Tools used

1. Jenkins
2. Maven
3. Github

Implementation

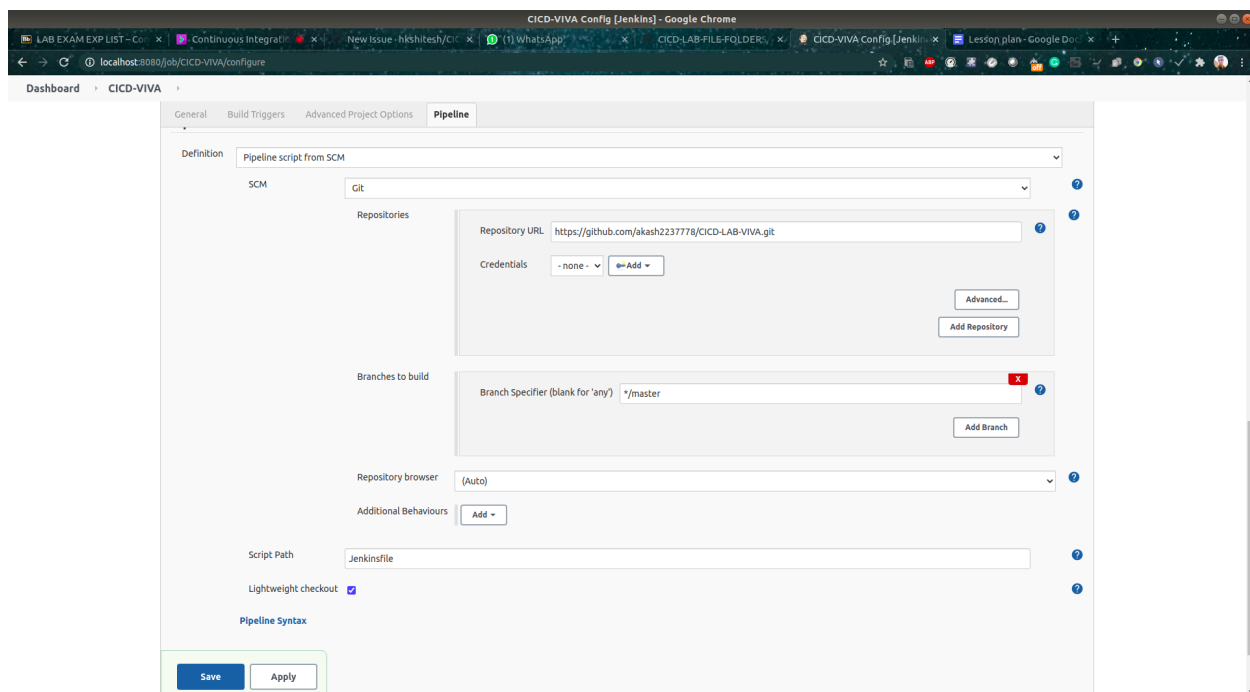
1. Create a maven project.
2. Create a new repository on GitHub.
3. Upload maven project on GitHub.
4. Start Jenkins. Create a new project. Opt for pipeline project.
5. Poll SCM: * * * * * (for automatic triggers)
6. Choose Pipeline script from SCM.
7. Choose git. Add repo URL.
8. Check branch and Jenkinsfile path
9. Now, Create a jenkins file in maven project having 2 stages “mvn clean” and “mvn package”

```
pipeline{
  agent any
  stages{
    stage('Clean'){
      steps{
        echo 'Build Stage'
        sh 'mvn clean'
      }
    }
    stage('Build'){
      steps{
```

```
    sh 'mvn package'
  }
}
}
```

10. Stage Jenkinsfile and commit.
11. Your project will build automatically and will be available in jenkins workspace.

Screenshots



The image shows two screenshots of the Jenkins web interface. The top screenshot displays the 'Pipeline CICD-VIVA' dashboard. The left sidebar contains navigation links: Back to Dashboard, Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Open Blue Ocean, Rename, Pipeline Syntax, and Git Polling Log. The main content area shows the 'Stage View' with a table of stage times and a 'Permalinks' section. The bottom screenshot shows the 'Workspace' view for build #4, displaying the file structure of the workspace.

Pipeline CICD-VIVA

Recent Changes

Stage View

	Declarative: Checkout SCM	Clean	Build
Average stage times: (Average full run time: ~31s)	5s	4s	12s
#4 Dec 04 11:26 No Changes	5s	4s	12s
#2 Dec 04 11:23 No Changes			
#1 Dec 04 11:19 No Changes			

Permalinks

- Last build (#4), 1 hr 8 min ago
- Last stable build (#4), 1 hr 8 min ago
- Last successful build (#4), 1 hr 8 min ago
- Last failed build (#2), 1 hr 12 min ago
- Last unsuccessful build (#2), 1 hr 12 min ago
- Last completed build (#4), 1 hr 8 min ago

Workspace

target /

- classes/AttendanceSystem
- generated-sources/annotations
- maven-archiver
- maven-status/maven-compiler-plugin/compile/default-compile
- AttendanceSystem-0.0.1-SNAPSHOT.jar

04-Dec-2020, 11:27:26 AM 10.98 KB view

(all files in zip)