

NAME- RAJAT PANWAR  
ROLL N0- R171218080  
SAP ID – 500069414

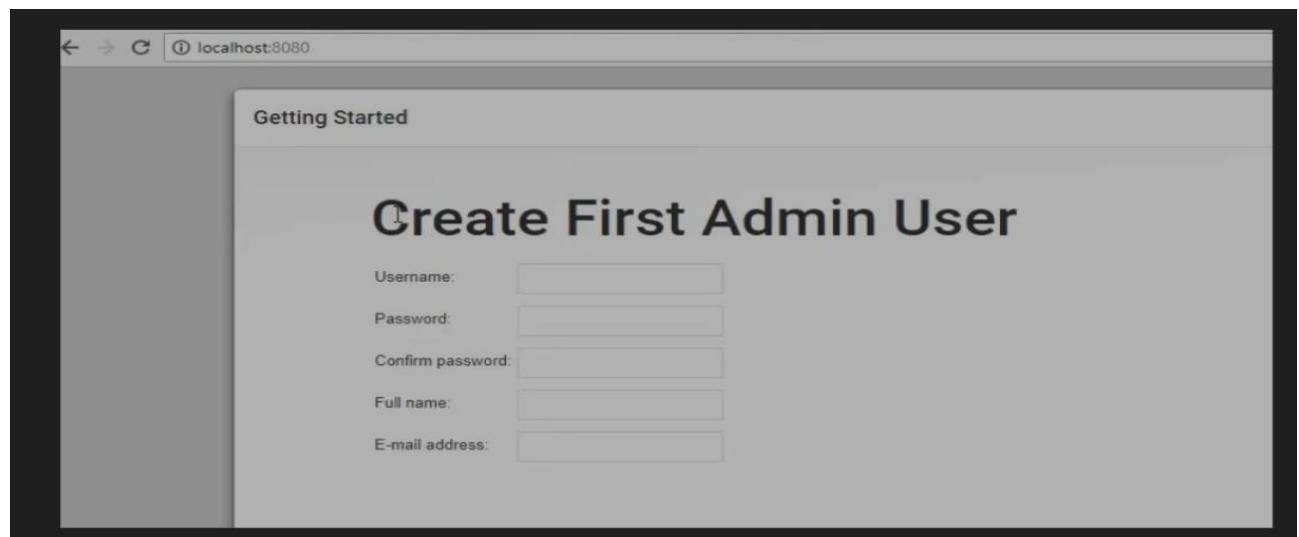
## CICD LAB FILE

### EXPERIMENT-1

AIM- Installation of jenkins and Execution a simple job in jenkins

#### COMMAND FOR INSTALLATION ON LINUX:-

- 1] wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -
- 2] sudo sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
- 3] sudo apt-get update
- 4 ] sudo apt-get install jenkins



# Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

## Install suggested plugins

Install plugins the Jenkins community finds most useful.

## Select plugins to install

Select and install plugins most suitable for your needs.

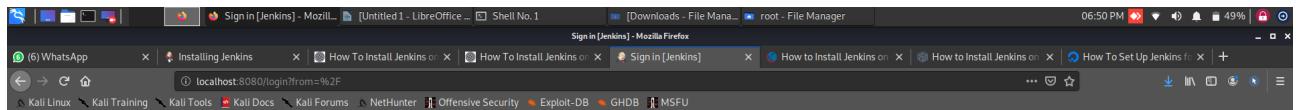
## Getting Started

## Getting Started

The screenshot shows the Jenkins 'Getting Started' page. On the left, there's a sidebar with a 'Folders' section containing links to 'Timestamper', 'Pipeline', 'Git', and 'PAM Authentication'. The main area displays a grid of plugin cards:

	OWASP Markup Formatter	Build Timeout	Credentials Binding
Timestamper	Workspace Cleanup	Ant	Gradle
Pipeline	Github Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View
Git	Subversion	SSH Slaves	Matrix Authorization Strategy
PAM Authentication	LDAP	Email Extension	Mailer

A vertical sidebar on the right lists Jenkins components and their sub-APIs, such as 'Script Security', 'Command Agent Launcher', 'Folders', 'bouncycastle API', 'Structs', 'Pipeline: Step API', 'SCM API', 'Pipeline: API', and 'JUnit'.



Welcome to Jenkins!

rajatpanwar

•••••••

Keep me signed in

Applications ▾ Places ▾ Firefox ESR ▾

Wed Aug 12 8:41 PM ●

Dashboard [Jenkins] - Mozilla Firefox

localhost:8080

Most Visited Getting Started Kali Training Kali Tools Kali Docs Kali Forums NetHunter Offensive Security GHDB UWatchFree Worldfree4u.trade

Jenkins

search nipun singal log out

People

Build History

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle  
2 Idle

Page generated: Aug 12, 2020 8:41:06 PM IST REST API Jenkins 2.235.1

# Welcome to Jenkins!

# CREATE YOUR SIMPLE JOB:-

The screenshot shows the Jenkins 'New Item' creation page. A search bar at the top right contains the name 'Rajat panwar'. Below it, a 'Required field' message is displayed above a text input field containing 'test1'. A list of project types is shown in cards:

- Freestyle project**: This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- Maven project**: Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**: Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- Multi-configuration project**: Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
- Bitbucket Team/Project**: Scans a Bitbucket Cloud Team (or Bitbucket Server Project) for all repositories matching some defined markers.
- Folder**: Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
- GitHub Organization**: Scans a GitHub organization (or user account) for all repositories matching some defined markers.
- Multibranch Pipeline**: Sets of Pipeline projects according to detected branches in one SCM repository.

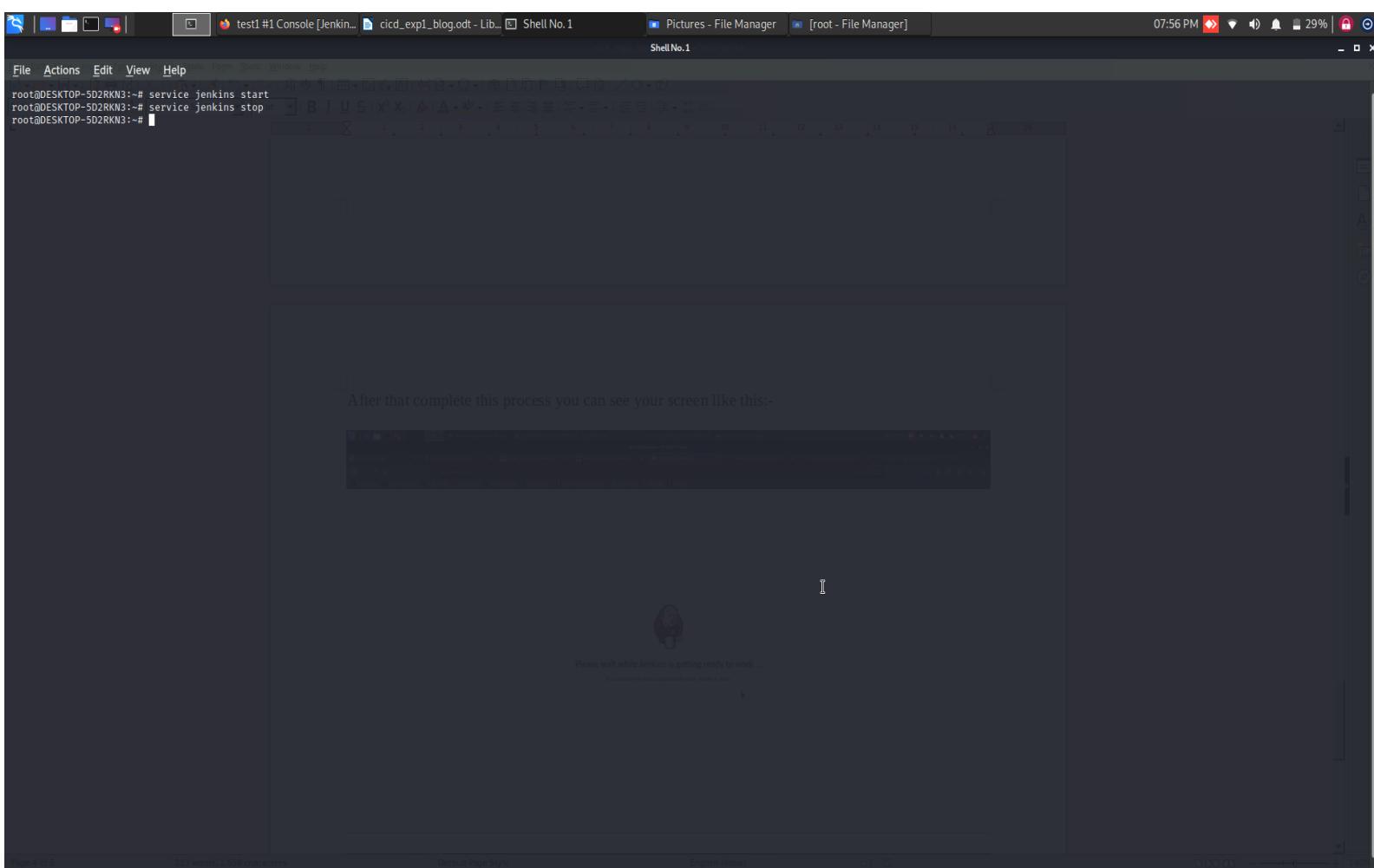
A blue 'OK' button is visible at the bottom left of the card list.

The screenshot shows the Jenkins configuration page for the 'test1' job. The tabs at the top include General, Source Code Management, Build Triggers, Build Environment, Build, and Post-build Actions. The 'Source Code Management' tab is selected, showing options for None, Git, Mercurial, and Subversion. The 'Build Triggers' tab is also visible, listing triggers like 'Trigger builds remotely (e.g., from scripts)', 'Build after other projects are built', and 'Poll SCM'. The 'Build Environment' tab is partially visible at the bottom. At the bottom of the page are 'Save' and 'Apply' buttons, and a note about 'Gradle build scans'.

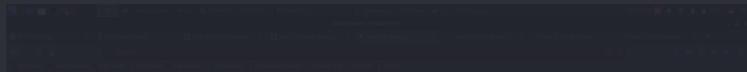
The screenshot shows the Jenkins job configuration page for a job named 'test1'. The 'Build Environment' tab is selected. Under the 'Build' section, there is a single build step named 'Execute shell' with the command 'date'. The 'Post-build Actions' section contains a placeholder for adding actions. At the bottom are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins console output for build #1 of the 'test1' job. The output shows the command 'date' was run and printed the current date and time: 'Saturday 03 October 2020 07:55:44 PM IST'. The status of the build is listed as 'SUCCESS'.

The screenshot shows the Jenkins console output for build #1 of the 'test1' job. The output shows the command 'date' was run and printed the current date and time: 'Saturday 03 October 2020 07:55:44 PM IST'. The status of the build is listed as 'SUCCESS'.



After that complete this process you can see your screen like this:-



# EXPERIMENT-2

## AIM- Jenkins integration with github

The screenshot shows a Firefox browser window with multiple tabs open. The active tab is 'rajatpanwar/Java1' on GitHub. The page content includes:

- Code** tab selected.
- Master branch selected.
- 2 branches: master, dev.
- 0 tags.
- Recent commits:
  - rajatpanwar after 5th commit (ab9125f, May 10)
  - Fib.java (commit on branch, 5 months ago)
  - Outer.java (after 5th commit, 5 months ago)
  - README.md (Update README.md, 5 months ago)
- About**: No description, website, or topics provided.
- Releases**: No releases published. Create a new release.
- Packages**: No packages published. Publish your first package.
- Languages**: Java 100.0%.

The screenshot shows a Firefox browser window with multiple tabs open. The active tab is 'test2 Config [Jenkins]'. The Jenkins configuration interface is displayed, specifically the 'General' configuration tab. The configuration includes:

- General** tab selected.
- GitHub project** checked.
- Project url**: https://github.com/rajatpanwar/Java1
- Source Code Management** tab is also visible.

The screenshot shows the Jenkins Project test2 dashboard. On the left, there's a sidebar with links like Back to Dashboard, Status, Changes, Workspace, Build Now, Delete Project, Configure, Favorite, GitHub, Open Blue Ocean, and Rename. The main content area is titled "Project test2". It features a "Recent Changes" section with a "Workspace" link. Below that is a "Permalinks" section listing the last four builds. A "Build History" panel on the left shows a single build from Oct 4, 2020, at 12:21 AM. At the bottom right, there are links for "Page generated: Oct 4, 2020, 12:22:47 AM IST", "REST API", and "Jenkins 2.235.5".

The screenshot shows the Jenkins Console Output for build #1 of project test2. The sidebar on the left includes links for Back to Project, Status, Changes, Console Output (which is selected), View as plain text, Edit Build Information, Delete build #1, Git Build Data, No Tags, and Open Blue Ocean. The main content area is titled "Console Output". It displays the command-line log of the build process, starting with cloning the remote Git repository from https://github.com/rajatpanwar/Java1.git and fetching upstream changes. The log concludes with "Finished: SUCCESS". At the bottom right, there are links for "Page generated: Oct 4, 2020, 12:22:00 AM IST", "REST API", and "Jenkins 2.235.5".

# EXPERIMENT-3

## AIM- Jenkins integration with Github and Maven

The screenshot shows two instances of the Eclipse IDE running on a Windows operating system.

**Eclipse IDE - Top Window:**

- Project Explorer:** Shows the project structure for "cicd-b2-lab".
- Console:** Displays the Java code for "test.java":

```
1 package cicd_lab_b2_;
2
3 public class test {
4     public static void main(String[] args)
5     {
6         System.out.println("concept of CICD");
7     }
8
9
10 }
```

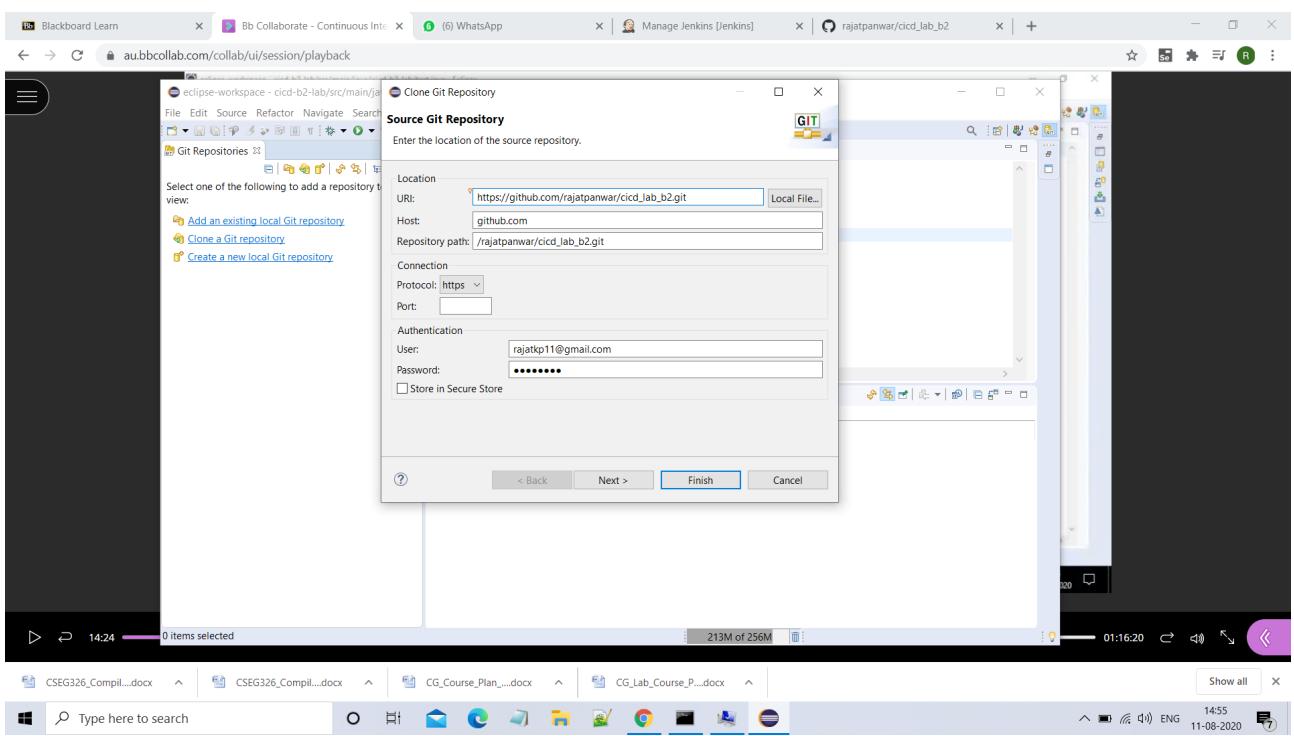
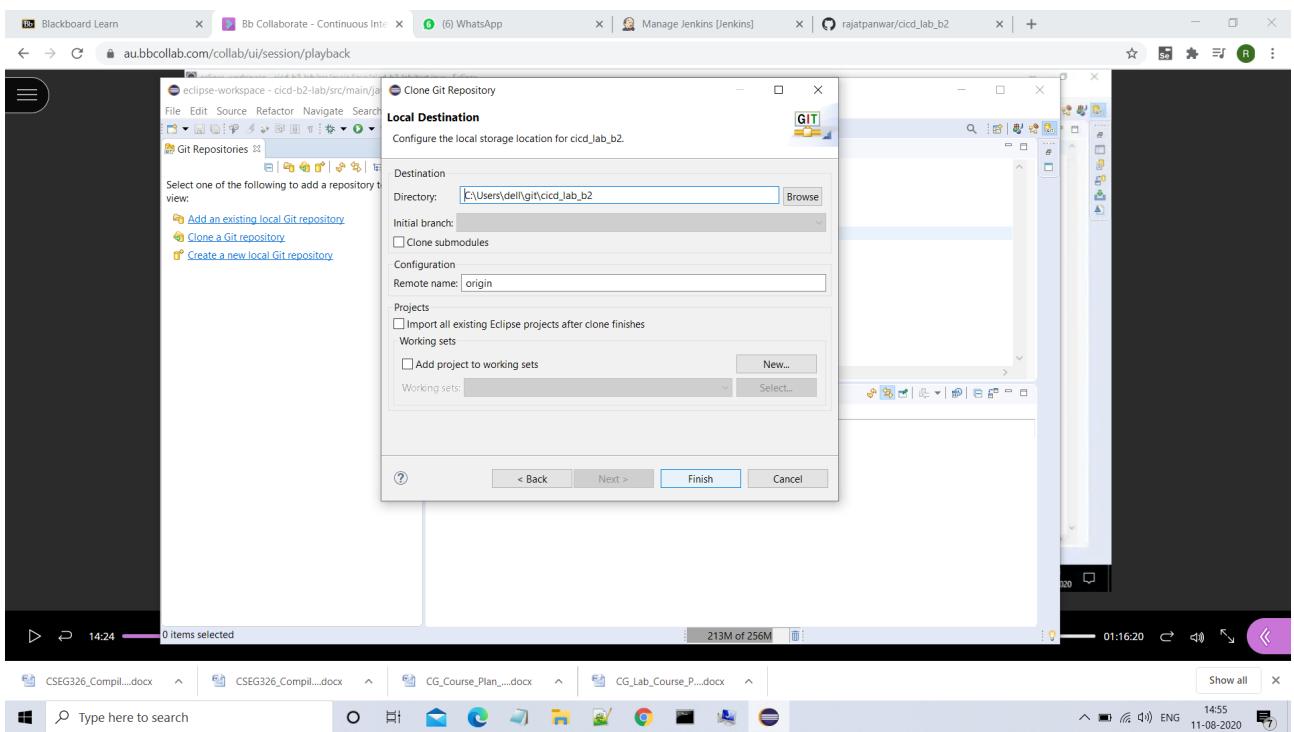
- Servers:** Shows "Tomcat v8.5 Server at localhost".

**Eclipse IDE - Bottom Window:**

- Project Explorer:** Shows the project structure for "cicd-b2-lab [cicd\_lab\_b2 master]".
- Console:** Displays the Maven build log:

```
<terminated> cicd-b2-lab [Maven Build] C:\Program Files\Java\jdk1.8.0_231\jre\bin\javaw.exe (11-Aug-2020, 2:38:11 pm)
[INFO] Scanning for projects...
[INFO]
[INFO] --> Cicd-b2:cicd-b2-lab <--->
[INFO] Building cicd-b2-lab 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ cicd-b2-lab ---
[INFO] Deleting C:\Users\dell\eclipse-workspace\cicd-b2-lab\target
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.746 s
[INFO] Finished at: 2020-08-11T14:38:17+05:30
[INFO] -----
```

- Git Integration:** Shows the commit history for "test.java".



The screenshot shows a web browser window with several tabs open. The active tab is GitHub, displaying a repository named 'rajampanwar/cicd\_lab\_b2'. The 'Code' tab is selected, showing a commit history for the 'master' branch. The commit message for the first commit is 'this is first commit'. The commit was made by 'rajampanwar' 4 minutes ago. The commit history also lists other files like '.settings', 'src/main/java/cicd\_lab\_b2\_', 'target', '.classpath', '.project', and 'pom.xml', all with the same commit message and timestamp.

The screenshot shows the Eclipse IDE interface. The 'Package Explorer' view on the left displays a Java project named 'cicd\_lab\_b2'. The 'Console' view in the center shows the following Java code:

```
1 package cicd_lab_b2;
2
3 public class test {
4     public static void main(String[] args) {
5         System.out.println("concept of CICD");
6     }
7 }
8
9
10 }
```

The 'Git Staging' view at the bottom right shows an uncommitted change: 'this is my first commit'. The commit dialog is open, with the author and committer both set to 'rajampanwar <rajampanwar11@gmail.com>'. There are two 'Commit' buttons: one for committing only and one for committing and pushing to the remote repository.

[Back to Dashboard](#)

[Manage Jenkins](#)

[Manage Plugins](#)

## Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Javadoc

Maven Integration

Restarting Jenkins

Downloaded Successfully. Will be activated during the next boot

Installing

Pending

[Go back to the top page](#)  
(you can start using the installed plugins right away)

Restart Jenkins when installation is complete and no jobs are running

CSEG326\_Compil...docx

CSEG326\_Compil...docx

CG\_Course\_Plan....docx

CG\_Lab\_Course\_P....docx

Show all

Type here to search

15:23 11-08-2020

Blackboard Learn

Bb Collaborate - Continuous Inte

WhatsApp

cicd-lab1-b2 Config [Jenkins]

cicd\_lab\_b2/cicd-b2-lab at master

Jenkins ver. 2.222.3

Page generated: Aug 11, 2020 3:22:36 PM IST REST API Jenkins ver. 2.222.3

localhost:8080/job/CICD-lab1-b2/configure

[Jenkins](#) > [CICD-lab1-b2](#)

General Source Code Management Build Triggers **Build Environment** Pre Steps Build Post Steps Build Settings

Post-build Actions

Abort the build if it's stuck

Add timestamps to the Console Output

Inspect build log for published Gradle build scans

With Ant

Pre Steps

Add pre-build step ▾

Build

Root POM: cicd-b2-lab/pom.xml

Goals and options: clean

Advanced...

Post Steps

Run only if build succeeds  Run only if build succeeds or is unstable  Run regardless of build result

Should the post-build steps run only for successful builds, etc.

Add post-build step ▾

Build Settings

**Save** **Apply**

The screenshot shows the Jenkins dashboard for the 'CICD-lab1-b2' project. The top navigation bar includes links for Blackboard Learn, Bb Collaborate - Continuous Integration, WhatsApp, Jenkins, and cicd\_lab\_b2/cicd-b2-lab at master. The main content area displays the project's status with a green 'Build Now' button and a blue 'Workspace' link. A 'Recent Changes' section is also present. On the right, there are buttons for 'add description', 'Disable Project', 'enable auto refresh', and user information for Rajat Panwar.

Maven project CICD-lab1-b2

Workspace

Recent Changes

Permalinks

- Last build (#1), 10 min ago
- Last stable build (#1), 10 min ago
- Last successful build (#1), 10 min ago
- Last completed build (#1), 10 min ago

#1 Aug 11, 2020 4:38 PM

Atom feed for all Atom feed for failures



The screenshot shows the Jenkins console output for build #2 of the 'CICD-lab1-b2' project. The title is 'Console Output'. The log starts with the command 'git rev-parse --is-inside-work-tree' and continues through various git operations like fetch, config, and checkout. It then shows the Maven build process, including the execution of 'mvn clean', 'mvn -B -f pom.xml clean', and 'mvn -B -f pom.xml clean'. The log concludes with the message 'this is first commit'.

Started by user Rajat Panwar

Running as SYSTEM

Building in workspace C:\Program Files (x86)\Jenkins\workspace\CICD-lab1-b2

No credentials specified

> git.exe rev-parse --is-inside-work-tree # timeout=10

Fetching changes from the remote Git repository

> git.exe config remote.origin.url https://github.com/rajatpanwar/cicd\_lab\_b2.git # timeout=10

Fetching upstream changes from https://github.com/rajatpanwar/cicd\_lab\_b2.git

> git.exe --version # timeout=10

> git.exe fetch -tags -force --progress -- https://github.com/rajatpanwar/cicd\_lab\_b2.git +refs/heads/\*:refs/remotes/origin/\* # timeout=10

> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10

> git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10

Checking out Revision 874a68d0dc89b6f6e9a350df1dbf41294e17399 (refs/remotes/origin/master)

> git.exe config core.sparsecheckout # timeout=10

> git.exe checkout -f 874a68d0dc89b6f6e9a350df1dbf41294e17399 # timeout=10

Commit message: "this is first commit"

> git.exe rev-list --no-walk 874a68d0dc89b6f6e9a350df1dbf41294e17399 # timeout=10

Parsing POMs

Established TCP socket on 50065

[cicd-b2-lab] \$ java -cp "C:\Program Files (x86)\Jenkins\plugins\maven-plugin\WEB-INF\lib\maven32-agent-1.13.jar;C:\Program Files (x86)\Jenkins\tools\hudson.tasks.Maven\_MavenInstallation\\_\apache-maven-3.2.5\boot\plexus-classworlds-2.5.2.jar;C:\Program Files (x86)\Jenkins\tools\hudson.tasks.Maven\_MavenInstallation\\_\apache-maven-3.2.5\conf\logging" jenkins.maven3.agent.Maven32Main "C:\Program Files (x86)\Jenkins\plugins\maven-plugin\WEB-INF\lib\remoting-4.2.jar" "C:\Program Files (x86)\Jenkins\war\WEB-INF\lib\remoting-4.2.jar" "C:\Program Files (x86)\Jenkins\plugins\maven-plugin\WEB-INF\lib\maven3-interceptor-commons-1.13.jar" 50065

<==[JENKINSL REMOTING CAPACITY]==>channel started

Executing Maven: -B -f C:\Program Files (x86)\Jenkins\workspace\CICD-lab1-b2\cicd-b2-lab\pom.xml clean

[INFO] Scanning for projects...

[INFO]

[INFO] -----

[INFO] Building cicd-b2-lab 0.0.1-SNAPSHOT

[INFO] -----

[INFO]

The screenshot shows a Windows desktop environment. At the top, there is a taskbar with several open windows:

- Rb Collaborate - Unable to load
- Workspace of CICD-lab1-b2 on master
- cicd\_lab\_b2/cicd-b2-lab at master
- (4) WhatsApp

The main window is a Jenkins job named "CICD-lab1-b2". The title bar says "Workspace of CICD-lab1-b2 on master". The left sidebar contains links: Back to Dashboard, Status, Changes, Workspace, Build Now, Delete Maven project, Configure, Modules, and Rename. The right side displays the contents of the "target" directory of the workspace, which includes "classes/cicd\_lab\_b2", "maven-archiver", "maven-status/maven-compiler-plugin/composite/deliver", ".gitignore", and "cicd-b2-lab-0.0.1-SNAPSHOT.jar". Below this is a "Build History" section showing builds #12, #11, #10, #9, #8, #7, and #6, all of which failed. A search bar at the bottom says "Type here to search" and a taskbar with various icons is visible.

# EXPERIMENT-4

## AIM- Static code analysis using Sonarqube

The screenshot shows the Sonarqube web interface running in Mozilla Firefox. The title bar indicates the window is titled 'Projects - Mozilla Firefox'. The main content area displays a 'Filters' sidebar on the left and a central panel for managing projects. A message at the top right says, 'Once you analyze some projects, they will show up here.' Below it, there's a section for creating new projects with a 'Create new project' button. The central panel is currently empty, showing '0 of 0 shown'. At the bottom, a note states: 'Embedded database should be used for evaluation purposes only. The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.' The footer includes the text 'SonarQube™ technology is powered by SonarSource SA' and links for 'Community Edition - Version 8.4.1 (build 35946) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About'.

This screenshot shows the same Sonarqube interface after a project has been analyzed. The title bar now includes the project name 'CICD SONARQUBE/upes\_cicd\_lab2' and the status 'Aug 21 18:39'. The central panel now displays the results for the project 'upes\_cicd\_lab2', which is marked as 'Passed'. It shows the last analysis date as 'August 21, 2020, 6:39 PM'. Below this, various metrics are listed with their counts and grades: 0 bugs (A), 0 vulnerabilities (A), 2 hotspots reviewed (A), 0 code smells (A), 0.0% coverage (red circle), 0.0% duplications (green circle), and 16 XML, Java files. The note about the embedded database remains at the bottom.

Passed

All conditions passed.

**MEASURES**

Category	Value	Reliability
Bugs	0	A
Vulnerabilities	0	A
Security Hotspots	0	Reviewed
Code Smells	2	A
Debt	20min	Maintainability

Last analysis had 1 warning | August 21, 2020, 12:41 AM Version 0.0.1-SNAPSHOT

## EXPRIMENT-5

**AIM:** Jenkins integration with sonarqube

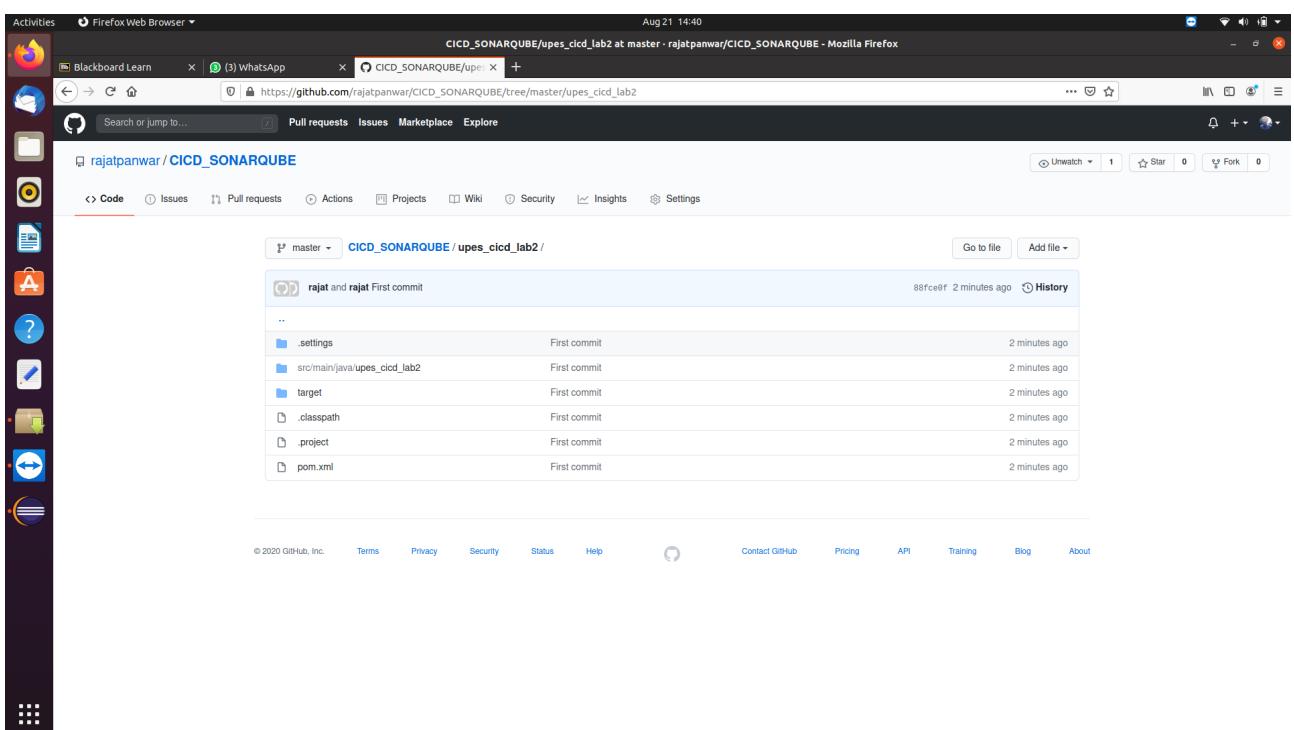
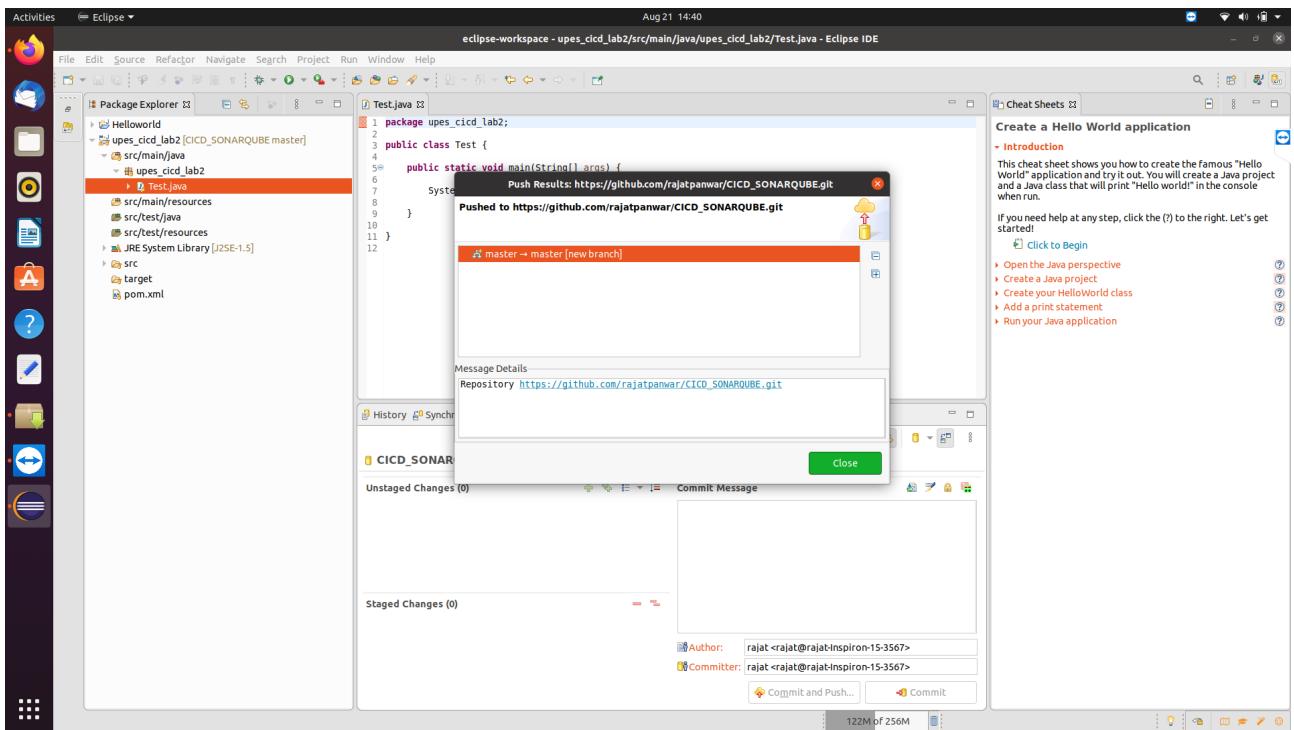
```

1 package upes_cicd_lab2;
2
3 public class Test {
4
5     public static void main(String[] args) {
6         System.out.println("Sonarqube ");
7     }
8
9 }
10
11 }

```

Commit Message  
First commit

Author: rajat <rajat@rajat-inspiron-15-3567>  
Committer: rajat <rajat@rajat-inspiron-15-3567>



Activities Firefox Web Browser ▾ Aug 21 18:24 CICD\_LAB2 Config [Jenkins] - Mozilla Firefox localhost:8080/job/CICD\_LAB2/configure ... ☰ 🔍 ⌂

Jenkins > CICD\_LAB2 >

General Source Code Management Build Triggers Build Environment Pre Steps Build Post Steps Build Settings Post-build Actions

Execute concurrent builds if necessary Advanced...

**Source Code Management**

None  
 Git

**Repositories**  
Repository URL: https://github.com/rajatpanwar/CICD SONARQUBE.git  
Credentials: -none- Add Advanced... Add Repository

**Branches to build**  
Branch Specifier (blank for 'any') \*/\*master  
Add Branch

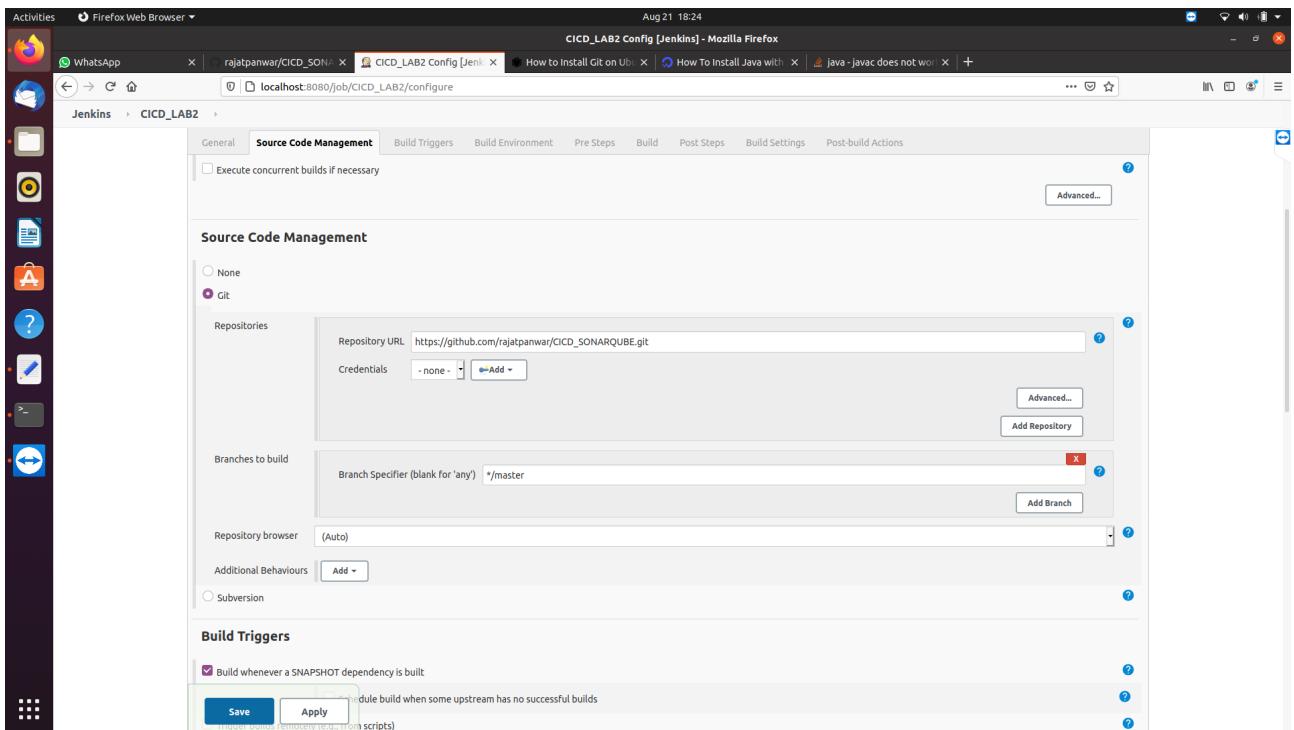
**Repository browser** (Auto)

**Additional Behaviours** Add

Subversion

**Build Triggers**  
 Build whenever a SNAPSHOT dependency is built

Save Apply Triggered by: GitHub (category: scripts)



Activities Firefox Web Browser ▾ Aug 21 18:27 CICD SONARQUBE/upes\_cicd\_lab2 - Mozilla Firefox localhost:8080/job/CICD\_LAB2/configure ... ☰ 🔍 ⌂

Jenkins > CICD\_LAB2 >

General Source Code Management Build Triggers Build Environment Pre Steps Build Post Steps Build Settings Post-build Actions

Poll SCM

**Build Environment**

Delete workspace before build starts  
 Use secret text(s) or file(s)  
 Abort the build if it's stuck  
 Add timestamps to the Console Output  
 Inspect build log for published Gradle build scans  
 With Ant

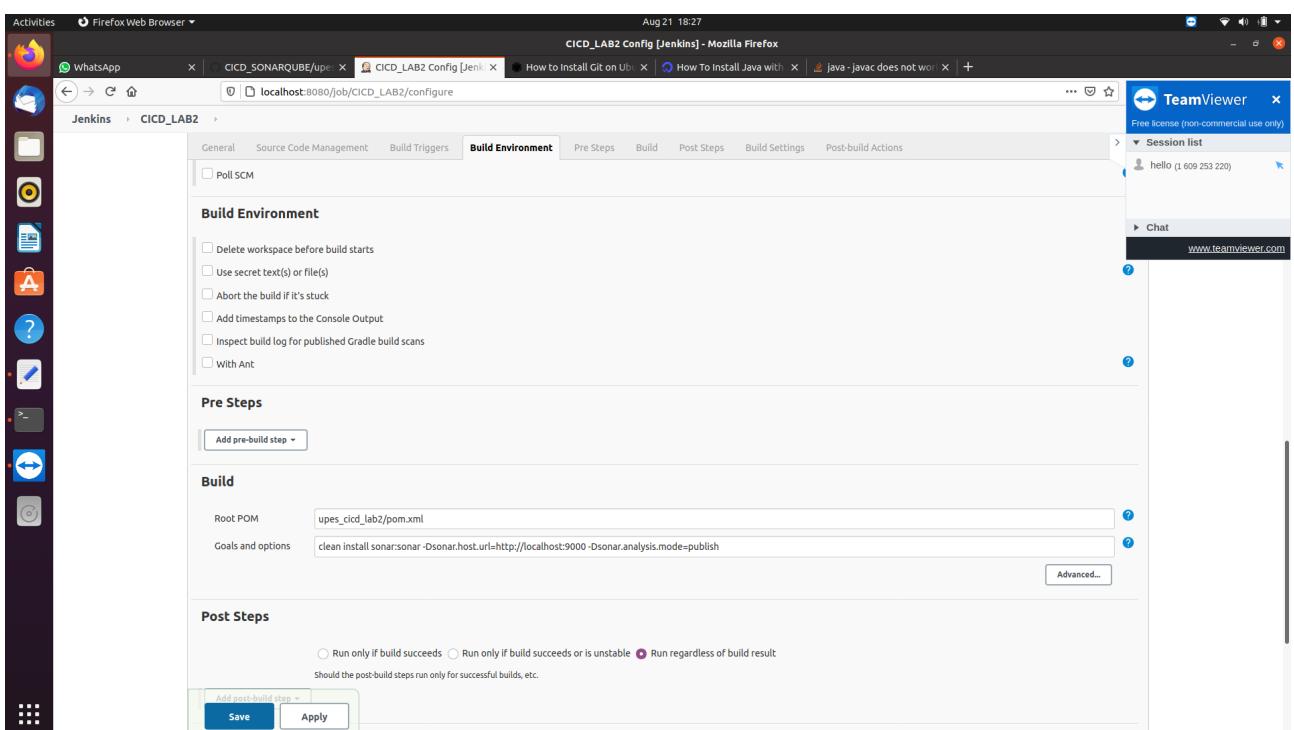
**Pre Steps**  
Add pre-build step ▾

**Build**  
Root POM: upes\_cicd\_lab2/pom.xml  
Goals and options: clean install sonar:sonar -Dsonar.host.url=http://localhost:9000 -Dsonar.analysis.mode=publish Advanced...

**Post Steps**

Run only if build succeeds  
 Run only if build succeeds or is unstable  
 Run regardless of build result  
Should the post-build steps run only for successful builds, etc.

Add post-build step ▾ Save Apply



Activities Firefox Web Browser ▾ Aug 21 18:31 Projects - Mozilla Firefox

WhatsApp CICD SONARQUBE/up... CICD LAB2 [Jenkins] Projects localhost:9000/projects

sonarcube Projects Issues Rules Quality Profiles Quality Gates Administration

My Favorites All

Perspective: Overall Status Sort by: Name Search for projects... + A

Filters

Quality Gate

Passed	0
Failed	0

Reliability ( Bugs )

A	B	C	D	E	F
0	0	0	0	0	0

Security ( Vulnerabilities )

A	B	C	D	E	F
0	0	0	0	0	0

Security Review ( Security Hotspots )

≥ 80%	70% - 80%	50% - 70%	30% - 50%	< 30%	0
0	0	0	0	0	0

Maintainability ( Code Smells )

A	B	C	D	E	F
0	0	0	0	0	0

Once you analyze some projects, they will show up here.

Here is how you can analyze new projects

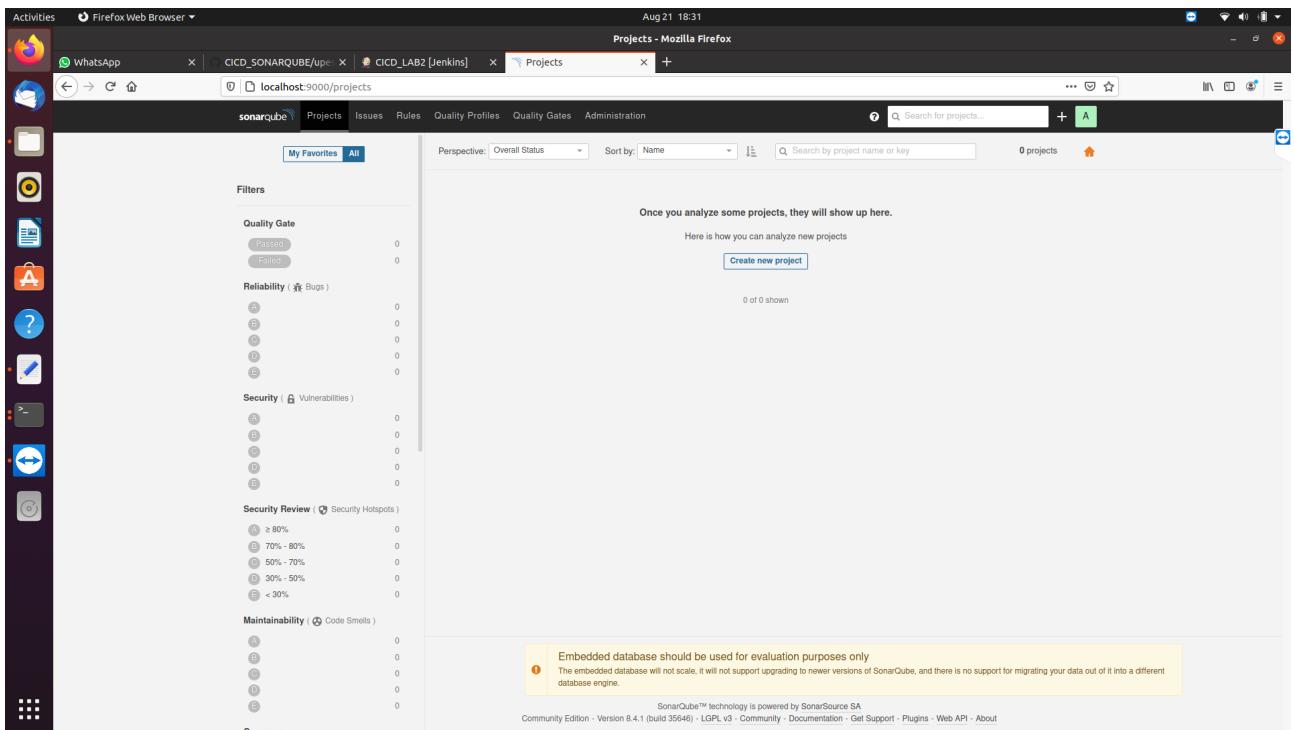
Create new project

0 of 0 shown

Embedded database should be used for evaluation purposes only

The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ technology is powered by SonarSource SA  
Community Edition - Version 8.4.1 (build 35646) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About



Activities Firefox Web Browser ▾ Aug 21 18:39 Projects - Mozilla Firefox

WhatsApp CICD SONARQUBE/up... CICD LAB2 #2 Console Projects localhost:9000/projects

sonarcube Projects Issues Rules Quality Profiles Quality Gates Administration

My Favorites All

Perspective: Overall Status Sort by: Name Search for projects... + A

Filters

Quality Gate

Passed	1	0
Failed	0	1

Reliability ( Bugs )

A	B	C	D	E	F
0	1	0	0	0	0

Security ( Vulnerabilities )

A	B	C	D	E	F
1	0	0	0	0	0

Security Review ( Security Hotspots )

≥ 80%	70% - 80%	50% - 70%	30% - 50%	< 30%	0
1	0	0	0	0	0

Maintainability ( Code Smells )

A	B	C	D	E	F
0	0	0	0	0	0

Projects - Mozilla Firefox

upes\_cicd\_lab2 Passed

Last analysis: August 21, 2020, 6:39 PM

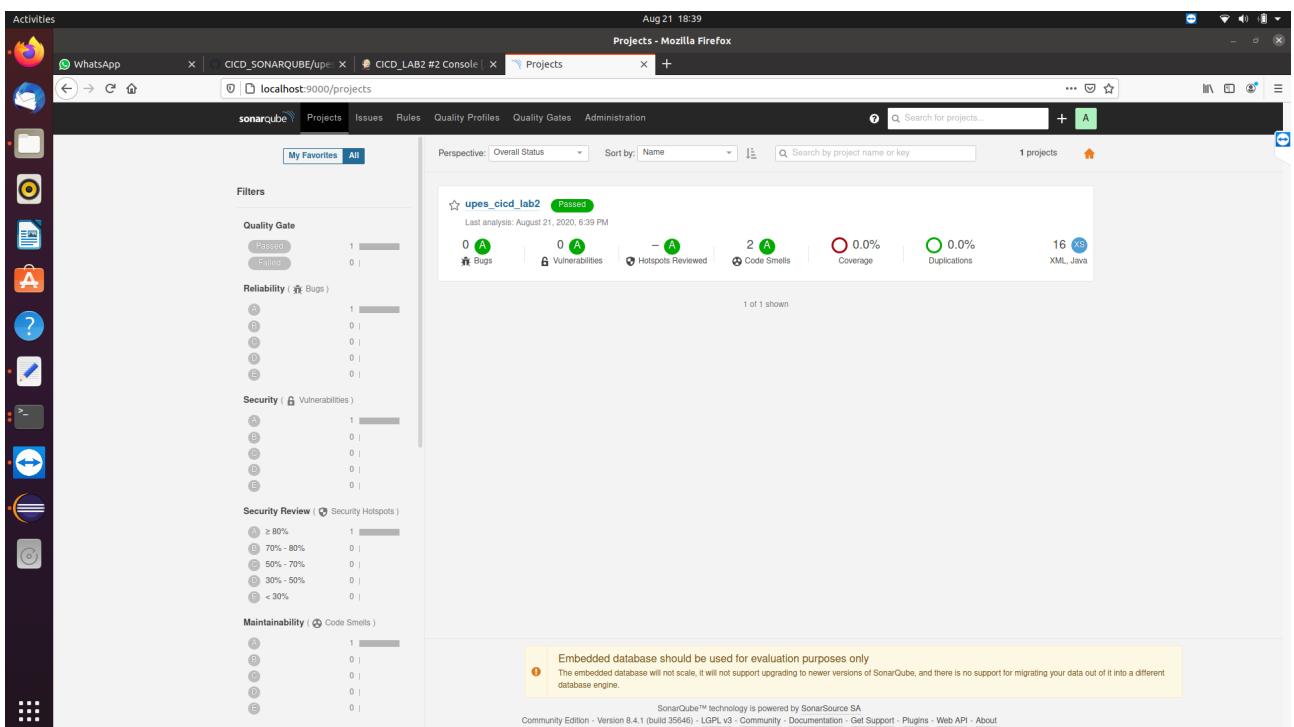
0 A Bugs 0 A Vulnerabilities 0 A Hotspots Reviewed 2 A Code Smells 0.0% Coverage 0.0% Duplications 16 XML, Java

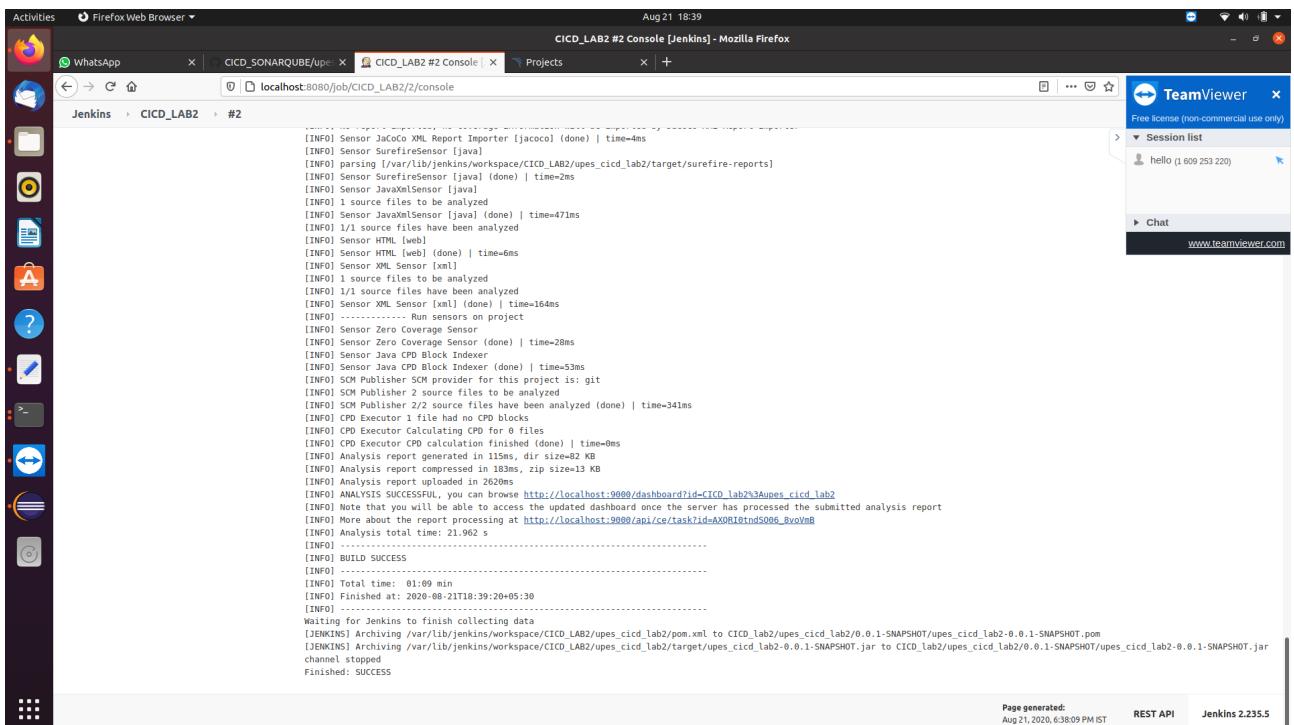
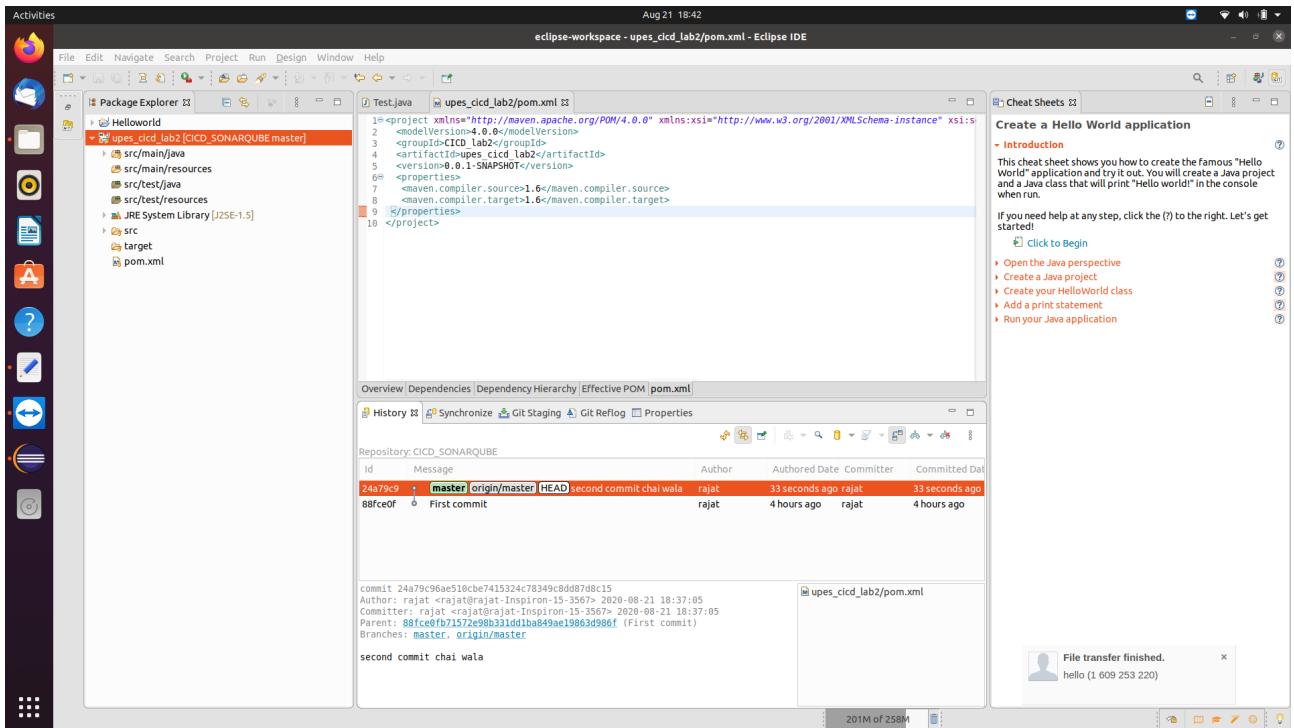
1 of 1 shown

Embedded database should be used for evaluation purposes only

The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

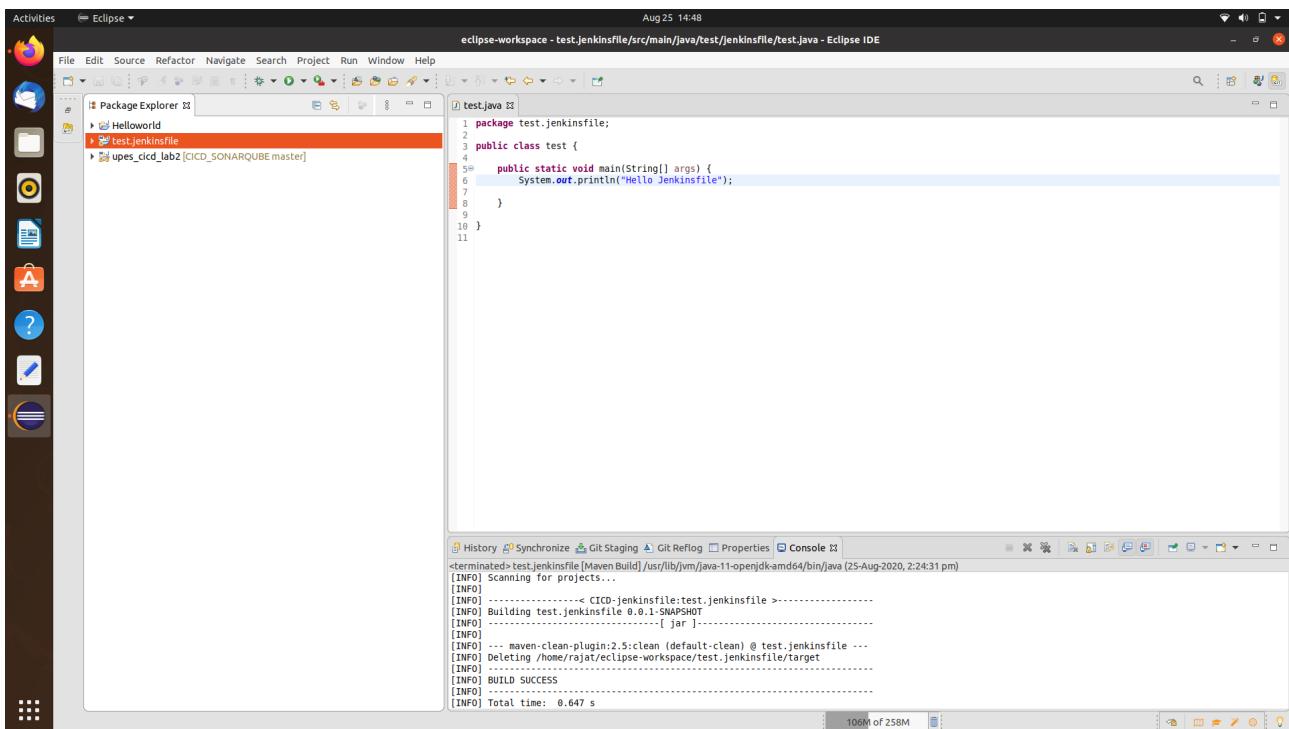
SonarQube™ technology is powered by SonarSource SA  
Community Edition - Version 8.4.1 (build 35646) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About





# EXPERIMENT-6

AIM:- Create pipeline using jenkins



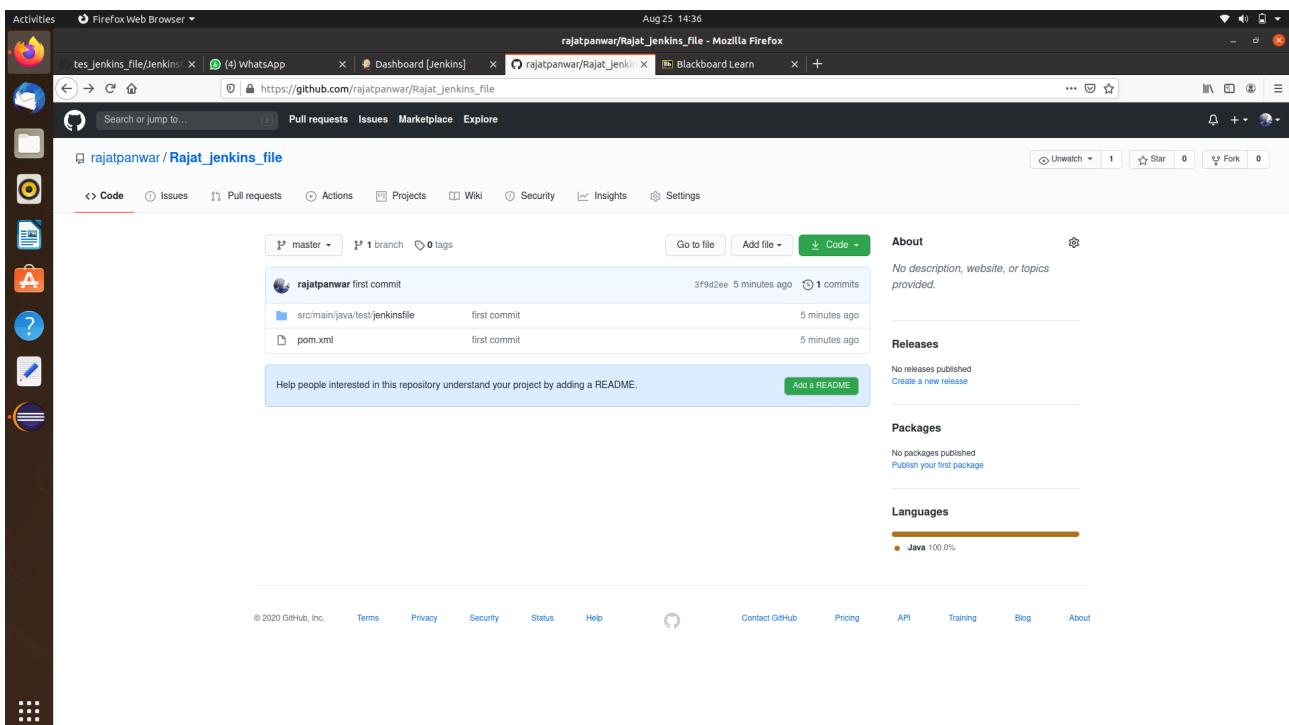
The screenshot shows the Eclipse IDE interface. The top menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The left sidebar has icons for various tools like Git, Maven, and Java. The Package Explorer view shows a project named "HelloWorld" with a file "test.jenkinsfile". The main editor window displays the Java code:

```
test.java
1 package test.jenkinsfile;
2
3 public class test {
4     public static void main(String[] args) {
5         System.out.println("Hello Jenkinsfile");
6     }
7
8 }
9
10
11
```

Below the editor is the Console view, which shows the build logs for a Maven build:

```
<terminated>:test:jenkinsfile [Maven Build] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (25-Aug-2020, 2:24:31 pm)
[INFO] Scanning for projects...
[INFO]
[INFO] <-----> < CIOD:jenkinsfile:test:jenkinsfile >----->
[INFO] Building test.jenkinsfile 0.0.1-SNAPSHOT
[INFO] -----> [ jar ]----->
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ test.jenkinsfile ---
[INFO] Deleting /home/raja/eclipse-workspace/test.jenkinsfile/target...
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] ----->
[INFO] Total time: 0.647 s
```

The status bar at the bottom indicates "106M of 258M".



Activities Firefox Web Browser Aug 25 14:48

rajalpanwar/Rajat\_jenkins\_file - Mozilla Firefox

tes\_jenkins\_file/pom.xml WhatsApp CICD\_jenkins\_lab3.1 #1 rajatpanwar/Rajat\_jenkins\_file Blackboard Learn

Search or jump to... Pull requests Issues Marketplace Explore

rajalpanwar / Rajat\_jenkins\_file

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags Go to file Add file ... Code

rajatpanwar after modification a18d826 2 minutes ago 3 commits

src/main/java/test/jenkinsfile first commit 17 minutes ago

Jenkinsfile create jenkinsfile 8 minutes ago

pom.xml after modification 2 minutes ago

Help people interested in this repository understand your project by adding a README. Add a README

About No description, website, or topics provided.

Releases No releases published Create a new release

Packages No packages published Publish your first package

Languages Java 100.0%

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Activities Firefox Web Browser Aug 25 15:12

Rajat\_jenkins\_file/Jenkinsfile at master · rajatpanwar/Rajat\_jenkins\_file - Mozilla Firefox

tes\_jenkins\_file/pom.xml WhatsApp CICD\_jenkins\_lab3.1 #4 Rajat\_jenkins\_file/Jenkinsfile Blackboard Learn

Search or jump to... Pull requests Issues Marketplace Explore

rajalpanwar / Rajat\_jenkins\_file

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

rajatpanwar Update Jenkinsfile Latest commit 3ffd7af now History

At 1 contributor

20 lines (20 sloc) | 313 Bytes

```
1 pipeline{
2     agent any
3     stages{
4         stage('Build'){
5             steps{
6                 echo 'Build Stage'
7             }
8         }
9         stage('Test'){
10            steps{
11                sh 'mvn clean'
12            }
13        }
14        stage('Deploy'){
15            steps{
16                echo 'Deploy Stage'
17            }
18        }
19    }
20 }
```

Raw Blame ⚙

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Activities Firefox Web Browser Aug 25 14:50 CICD\_jenkins\_lab3.1 Config [Jenkins] - Mozilla Firefox

Jenkins > CICD\_jenkins\_lab3.1 >

Pipeline

Definition Pipeline script from SCM

SCM Git

Repositories

Repository URL https://github.com/rajatpanwar/Rajat\_jenkins\_file.git

Credentials - none - Add

Branches to build Branch Specifier (blank for 'any') \*/master

Repository browser (Auto)

Additional Behaviours Add

Script Path Jenkinsfile

Lightweight checkout

Pipeline Syntax

Save Apply

This screenshot shows the Jenkins Pipeline configuration page. The 'Pipeline' tab is selected. Under 'Definition', 'Pipeline script from SCM' is chosen. The 'SCM' dropdown is set to 'Git'. A 'Repositories' section shows a single repository with the URL 'https://github.com/rajatpanwar/Rajat\_jenkins\_file.git'. The 'Branches to build' field contains the pattern '\*/master'. The 'Repository browser' is set to '(Auto)'. There are sections for 'Additional Behaviours' and 'Script Path' (set to 'Jenkinsfile'). A 'Lightweight checkout' checkbox is checked. At the bottom are 'Save' and 'Apply' buttons.

Activities Firefox Web Browser Aug 25 14:49 CICD\_jenkins\_lab3.1 [Jenkins] - Mozilla Firefox

Jenkins > CICD\_jenkins\_lab3.1 >

Pipeline CICD\_jenkins\_lab3.1

Recent Changes

Stage View

Declarative: Checkout SCM Build Test

Average stage times: (Average full run time: ~23s)

Declarative: Checkout SCM	Build	Test
3s	477ms	5s

Aug 25 14:47 No Changes

Atom feed for all Atom feed for failures

Permalinks

- Last build (#1), 1 min 24 sec ago
- Last stable build (#1), 1 min 24 sec ago
- Last successful build (#1), 1 min 24 sec ago
- Last completed build (#1), 1 min 24 sec ago

Page generated: Aug 25, 2020, 2:49:19 PM IST REST API Jenkins 2.235.5

This screenshot shows the Jenkins Pipeline stage view for the 'CICD\_jenkins\_lab3.1' pipeline. It displays a summary of average stage times: 3s for Declarative: Checkout SCM, 477ms for Build, and 5s for Test. Below this, a table shows the execution times for a single build: 3s for Declarative, 477ms for Build, and 5s for Test. The table also indicates 'No Changes' at the time of the build. At the bottom, there are permalinks to various build logs and a link to the REST API.

The screenshot shows a Firefox browser window with the following details:

- Address Bar:** localhost:8080/jenkins
- Title Bar:** CICD\_Jenkins\_lab3.1 #4 Console [Jenkins] - Mozilla Firefox
- User Information:** Rajat\_jenkins\_file/Jenkin... | Rajat Jenkins\_file - Blackbo... | Rajat Panwar | log out
- Left Sidebar (Jenkins Navigation):**
  - Back to Project
  - Status
  - Changes
  - Console Output** (selected)
  - View as plain text
  - Edit Build Information
  - Thread Dump
  - Pause/resume
  - Replay
  - Pipeline Steps
  - Workspaces
  - Previous Build
- Content Area:**

## Console Output

```
Started by user Rajat_Panwar
Obtained Jenkinsfile from git https://github.com/rajateamwar/Rajat_jenkins_file.git
Running in Durability Level: MAX_SURVIVABILITY
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/CICD_jenkins_lab3.1
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] }
[Pipeline] }
No credentials specified
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/rajatpanwar/Rajat_jenkins_file.git # timeout=10
Fetching upstream changes from https://github.com/rajatpanwar/Rajat_jenkins_file.git
> git -version # timeout=10
> git -version # 'git version 2.25.1'
> git fetch --tags --force --progress -- https://github.com/rajateamwar/Rajat_jenkins_file.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git rev-parse refs/remotes/origin/HEAD^{commit} # timeout=10
> git config core.sparsecheckout # timeout=10
> git checkout -f 3ffd7a112f05ed6d69e3c3fc44778ecb00c875df # timeout=10
Commit message: "Update Jenkinsfile"
> git rev-list --no-walk a1bd82688f1c0b157320eddfb46281ea#0689dc2 # timeout=10
[Pipeline]
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Build Stage
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
+ mvn clean
WARNING: An illegal reflective access operation has occurred
```

```
Activities Firefox Web Browser ▾ Aug 25 15:11 CICD_jenkins_lab3.1 #4 Console [Jenkins] - Mozilla Firefox tes_jenkins_file/pom.xml x (5) WhatsApp x CICD_jenkins_lab3.1 #4 x Rajat_jenkins_file/Jenkin x My Institution - Blackbo x + Jenkins > CICD_jenkins_lab3.1 > #4
[Pipeline] stage
[Pipeline] {
  [Pipeline] echo
  Build Stage
  [Pipeline]
  [Pipeline] // stage
  [Pipeline] stage
  [Pipeline] {
    [Pipeline] sh
    + rm -rf .cld
    WARNING: An illegal reflective access operation has occurred
    WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
    WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
    WARNING: Use -illegal-access=warn to enable warnings of further illegal reflective access operations
    WARNING: All illegal access operations will be denied in a future release
    [[1;34mINFO[m] Scanning for projects...
    [[1;34mINFO[m]
    [[1;34mINFO[m] < [0;36mCICD-jenkinsfile:test.jenkinsfile[0;1m >-----[[m
    [[1;34mINFO[m] [mBuilding test.jenkinsfile 0.0.1-SNAPSHOT[m
    [[1;34mINFO[m] [m-----[ jar ]-----[[m
    [[1;34mINFO[m]
    [[1;34mINFO[m] [m--- [0;32mmaven-clean-plugin:2.5:clean[m [m(default-clean)[m @ [36mtest.jenkinsfile[0;1m ---[m
    [[1;34mINFO[m] [m-----[[m
    [[1;34mINFO[m] [1;32mBUILD SUCCESS[m
    [[1;34mINFO[m] [m-----[[m
    [[1;34mINFO[m] Total time: 0.463 s
    [[1;34mINFO[m] Finished at: 2020-08-25T15:11:39+05:30
    [[1;34mINFO[m] [m-----[[m
    [Pipeline]
    [Pipeline] // stage
    [Pipeline] stage
    [Pipeline] {
      [Pipeline] echo
      [Pipeline] echo
      Deploy Stage
      [Pipeline]
      [Pipeline] // stage
      [Pipeline] // stage
      [Pipeline] )
      [Pipeline] // withEnv
      [Pipeline] )
      [Pipeline] // node
      [Pipeline] End of Pipeline
Finished: SUCCESS
```

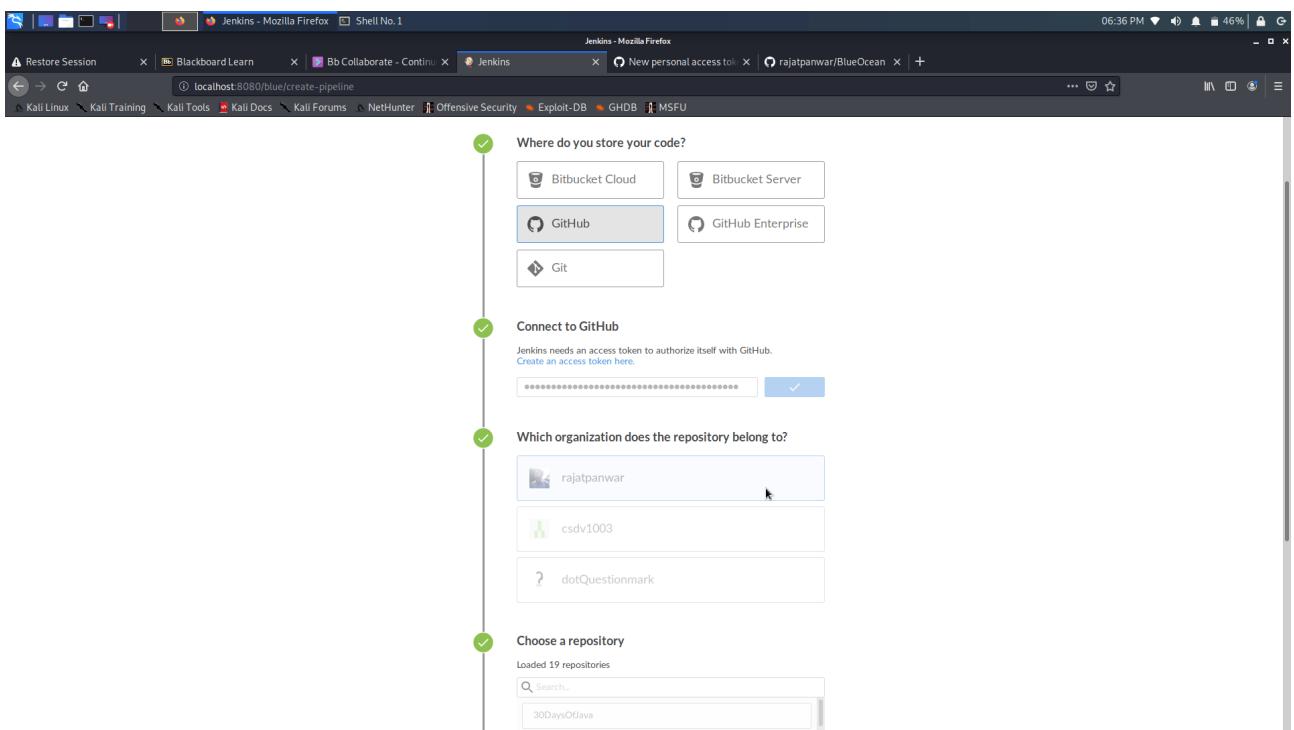
# EXPERIMENT-7

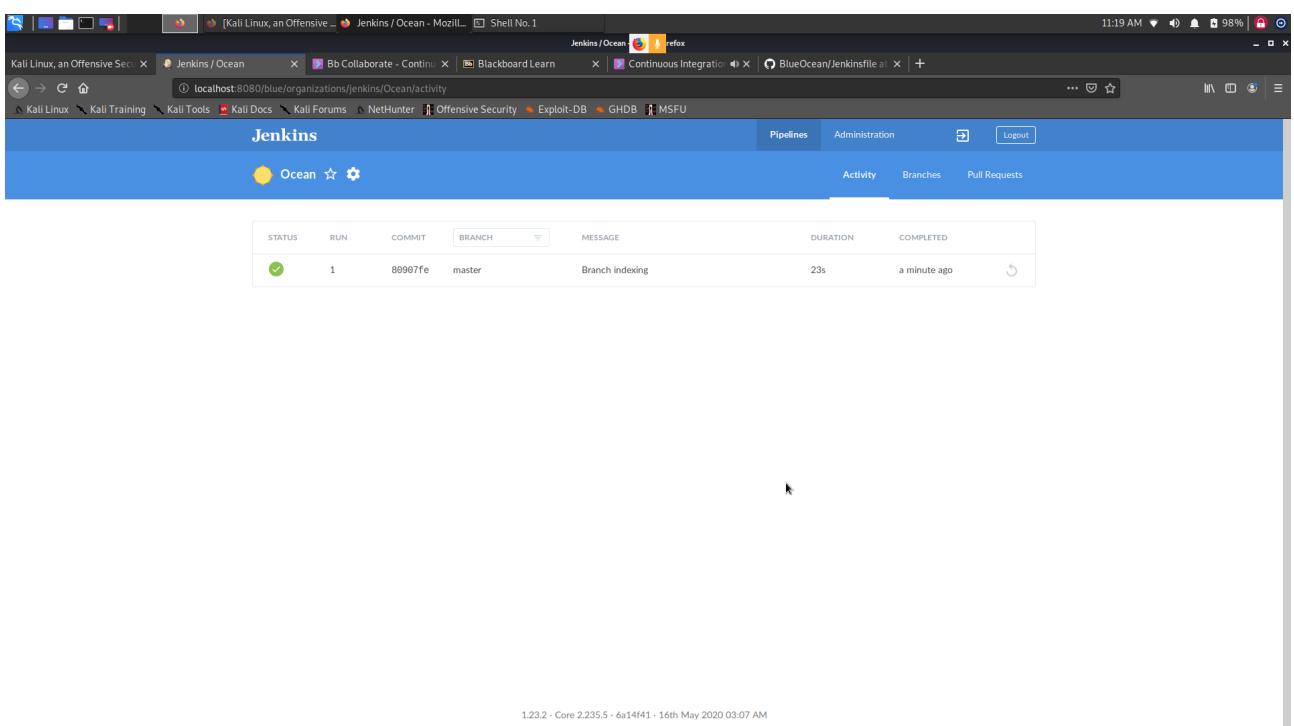
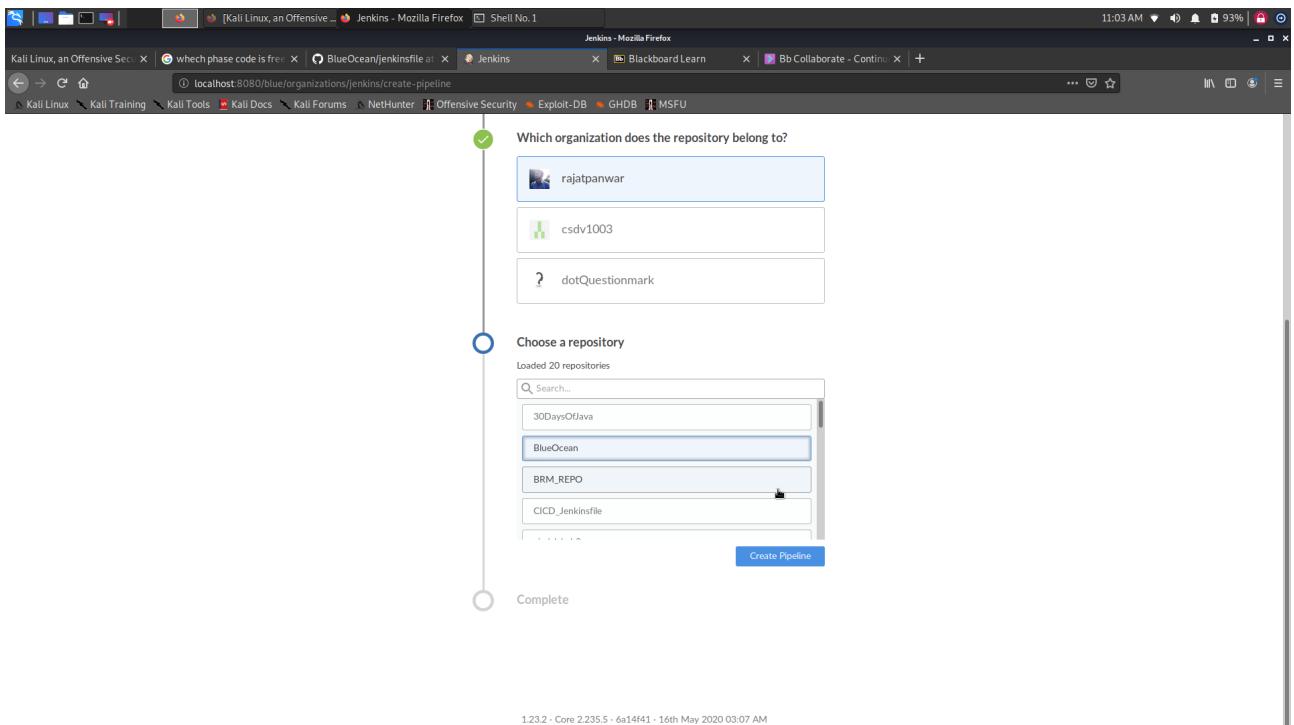
## AIM:- Create a pipeline using Blue Ocean plugin

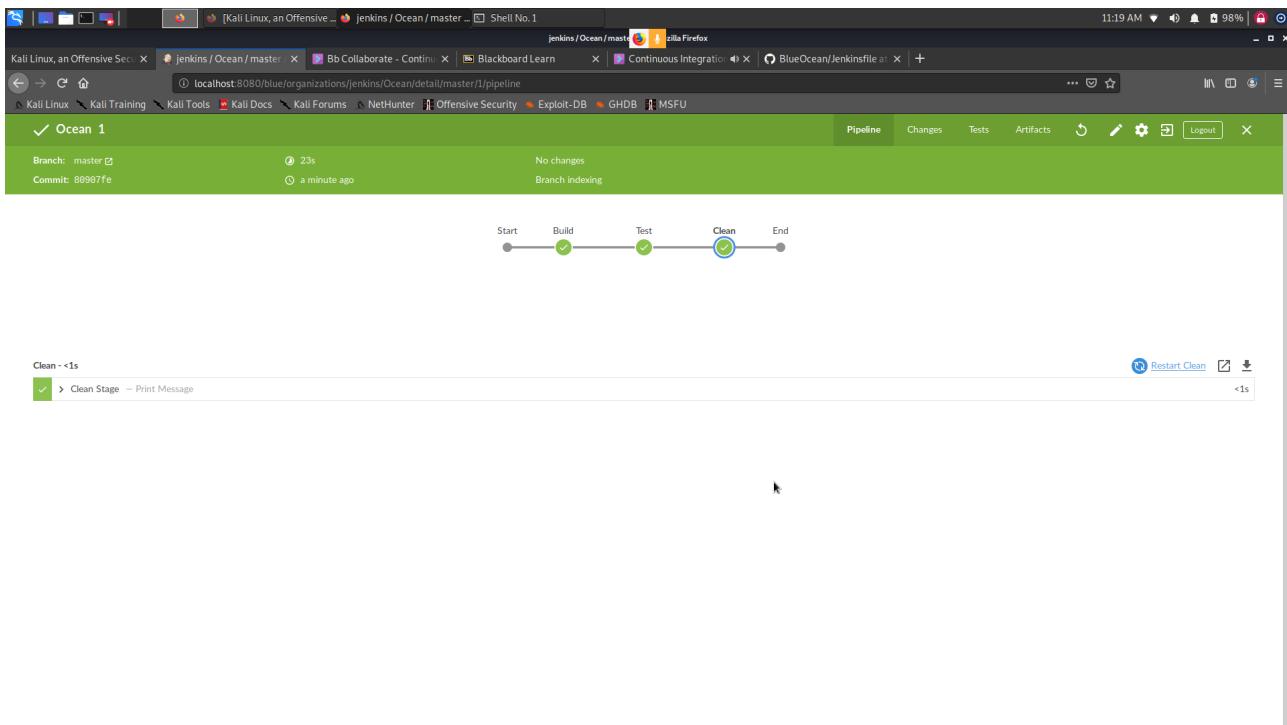
A screenshot of a GitHub repository page for 'rajatpanwar/BlueOcean'. The repository has 1 contributor and 20 lines of code (20 sloc). The code content is as follows:

```
1 pipeline{
2     agent any
3     stages{
4         stage('Build'){
5             steps{
6                 echo 'Build Stage'
7             }
8         }
9         stage("Test"){
10            steps{
11                echo 'mvn Test'
12            }
13        }
14        stage('Clean'){
15            steps{
16                echo 'Clean Stage'
17            }
18        }
19    }
20 }
```

The GitHub interface shows standard navigation links like Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings.







## **EXPERIMENT-8**

## **AIM:** Implementation Master/Slave Architecture in jenkins

```
root@DESKTOP-5DRKRN3:~# service jenkins start
root@DESKTOP-5DRKRN3:~# cd Downloads
root@DESKTOP-5DRKRN3:~/Downloads# ls
agent.jar  boundary1.cpp
boundary1.cpp  ecr-jee-hello-world-x86_64.tar.gz  firstOpenGLApp  floodfill.cpp  instance.tf  opengl.ppt  sonarque-8.4.2.36762.zip  terraform  terraform.tfstate
Picked up JAVA_OPTS from: /etc/jenkins/jenkins-slave/jenkins-slave-agent.jnlp
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /root/Documents/jenkins_slave/remoting as a remoting work directory
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Remoting logs will be printed to /root/Documents/jenkins_slave/remoting
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain createEngine
INFO: Setting up agent: slave1
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain$CuiListener <init>
INFO: Jenkins is running in headless mode.
Sep 12, 2020 10:32:03 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 4.3
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /root/Documents/jenkins_slave/remoting as a remoting work directory
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain$CuiListener status
INFO: Creating server socket [http://localhost:8080]
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.JNLPAgentEndpointResolver resolve
INFO: Remoting server accepts the following protocols: [JNLP4-connect, Ping]
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain$CuiListener status
INFO: Agent address: localhost
INFO: Agent port: 39917
Identity: 80:47:31:fc:9d:32:93:6d:d3:1e:61:00:85:e6:d6:d9
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain$CuiListener status
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain$CuiListener status
INFO: Connecting to localhost:39917
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain$CuiListener status
INFO: Trying protocol: JNLP4-connect
Sep 12, 2020 10:32:03 PM hudson.remoting.JNLPMain$CuiListener status
INFO: Remote identity confirmed: 80:47:31:fc:9d:32:93:6d:d3:1e:61:00:85:e6:d6:d9
Sep 12, 2020 10:32:04 PM hudson.remoting.JNLPMain$CuiListener status
INFO: Connected
INFO: A local reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use -illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
```

Screenshot of the Jenkins configuration page for the 'lab5' job.

**General** tab settings:

- This project is parameterized
- Throttle builds
- Disable this project
- Execute concurrent builds if necessary
- Restrict where this project can be run

Label Expression: slave1  
Warning message: There's no agent/cloud that matches this assignment. Did you mean 'slave1' instead of 'sl1'?

**Source Code Management** tab settings:

- None
- Git

Repositories:

- Repository URL: https://github.com/rajatpanwar/CICD SONARQUBE.git
- Credentials: - none -

Branches to build:

- Branch Specifier (blank for 'any'): \*/master

Repository browser: (Auto)

**Buttons:** Save, Apply

Screenshot of the Jenkins configuration page for the 'lab5' job, showing the 'Pre Steps', 'Build', 'Post Steps', 'Build Settings', and 'Post-build Actions' tabs.

**Pre Steps** tab:

Add pre-build step ▾

**Build** tab settings:

- Maven Version: Jenkins needs to know where your Maven is installed. Please do so from the tool configuration.
- Root POM: upes\_cicd\_lab2/pom.xml
- Goals and options: clean

**Post Steps** tab settings:

- Run only if build succeeds  Run only if build succeeds or is unstable  Run regardless of build result

Should the post-build steps run only for successful builds, etc.

**Build Settings** tab settings:

- E-mail Notification

**Post-build Actions** tab settings:

Add post-build action ▾

**Buttons:** Save, Apply

Jenkins - Mozilla Firefox Shell No. 1 Jenkins - Mozilla Firefox

Kali Linux, an Offensive Security Distribution Jenkins + localhost:8080/computer/createItem

Kali Linux Kali Training Kali Tools Kali Docs Kali Forums NetHunter Offensive Security Exploit-DB GHDB MSFU

Jenkins Nodes >

Back to Dashboard Manage Jenkins New Node Configure Clouds Node Monitoring

Build Queue Build Executor Status

1 Idle 2 Idle

Name: slave1 Description: # of executors: 1 Remote root directory: /root/Documents/jenkins\_slave/ Labels: Usage: Use this node as much as possible Launch method: Launch agent by connecting it to the master

Disable WorkDir Custom WorkDir path: /root/Documents/jenkins\_slave/ Internal data directory: remoting

Fail if workspace is missing  Use WebSocket

Availability: Keep this agent online as much as possible

Node Properties

Disable deferred wipeout on this node  Environment variables  Tool Locations

Save

Page generated: Sep 12, 2020, 10:24:37 PM IST REST API Jenkins 2.235.5

Jenkins - Mozilla Firefox Shell No. 1 Jenkins - Mozilla Firefox

Kali Linux, an Offensive Security Distribution Jenkins + localhost:8080/computer/new

Kali Linux Kali Training Kali Tools Kali Docs Kali Forums NetHunter Offensive Security Exploit-DB GHDB MSFU

Jenkins Nodes >

Back to Dashboard Manage Jenkins New Node Configure Clouds Node Monitoring

Build Queue Build Executor Status

1 Idle 2 Idle

Node name: slave1

Permanent Agent Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

OK

search Rajat panwar log out

Page generated: Sep 12, 2020, 10:24:07 PM IST REST API Jenkins 2.235.5

Configure Global Security [Jenkins] - Mozilla Firefox

Configure Global Security [Jenkins] - Mozilla Firefox

localhost:8080/configureSecurity

Kali Linux, an Offensive Security

Jenkins > Configure Global Security

Matrix-based security

Project-based Matrix Authorization Strategy

Markup Formatter

Plain text

Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

Agents

TCP port for inbound agents: Fixed: (radio button) Random (radio button) Disable (radio button)

Agent protocols...

CSRF Protection

Crumb Issuer: Default Crumb Issuer

Enable proxy compatibility

Hidden security warnings

Security warnings...

API Token

Generate a legacy API token for each newly created user (Not recommended)

Allow users to manually create a legacy API token (Not recommended)

Enable API Token usage statistics (checkbox checked)

Agent → Master Security

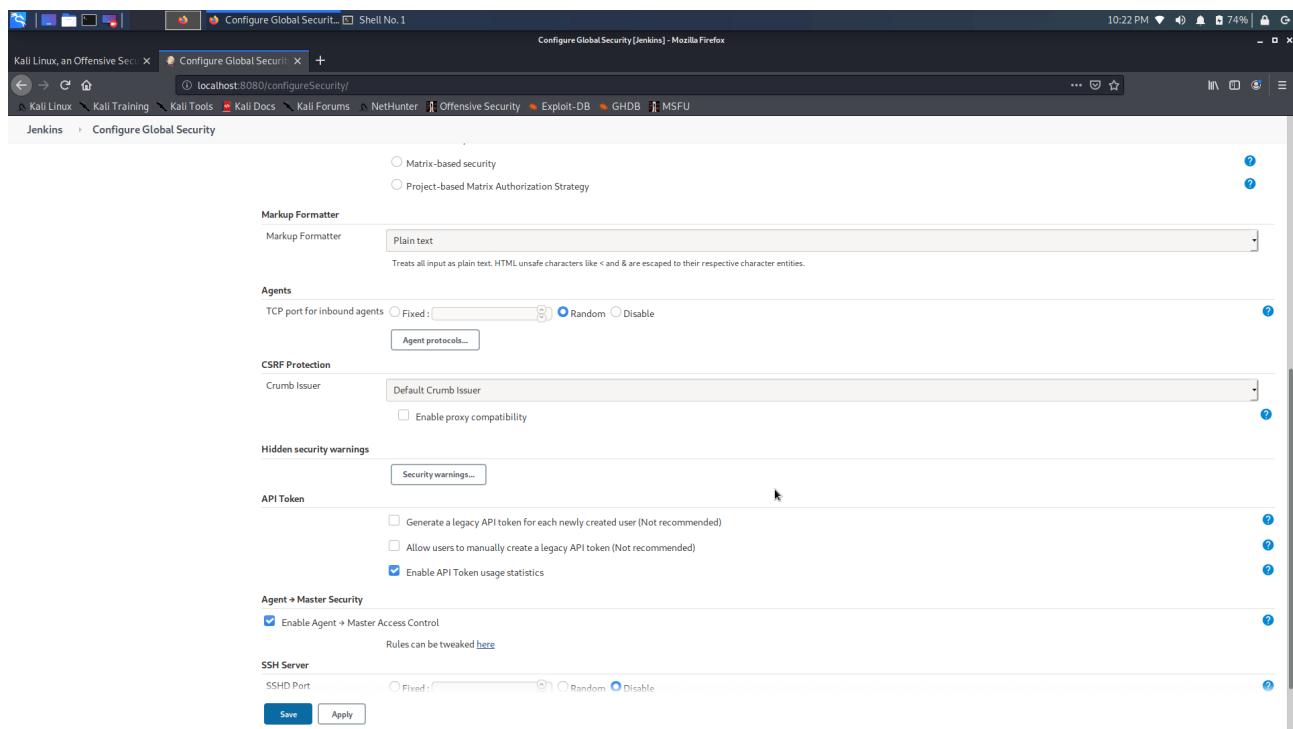
Enable Agent → Master Access Control (checkbox checked)

Rules can be tweaked [here](#)

SSH Server

SSHD Port: Fixed: (radio button) Random (radio button) Disable (radio button)

Save Apply



slave1 [Jenkins] - Mozilla Firefox

slave1 [Jenkins] - Mozilla Firefox

localhost:8080/computer/slave1

Kali Linux, an Offensive Security

Jenkins > Nodes > slave1

Agent slave1

Agent is connected.

Projects tied to slave1

None

Build Executor Status

1 Idle

Mark this node temporarily offline

Back to List

Status

Delete Agent

Configure

Build History

Load Statistics

Script Console

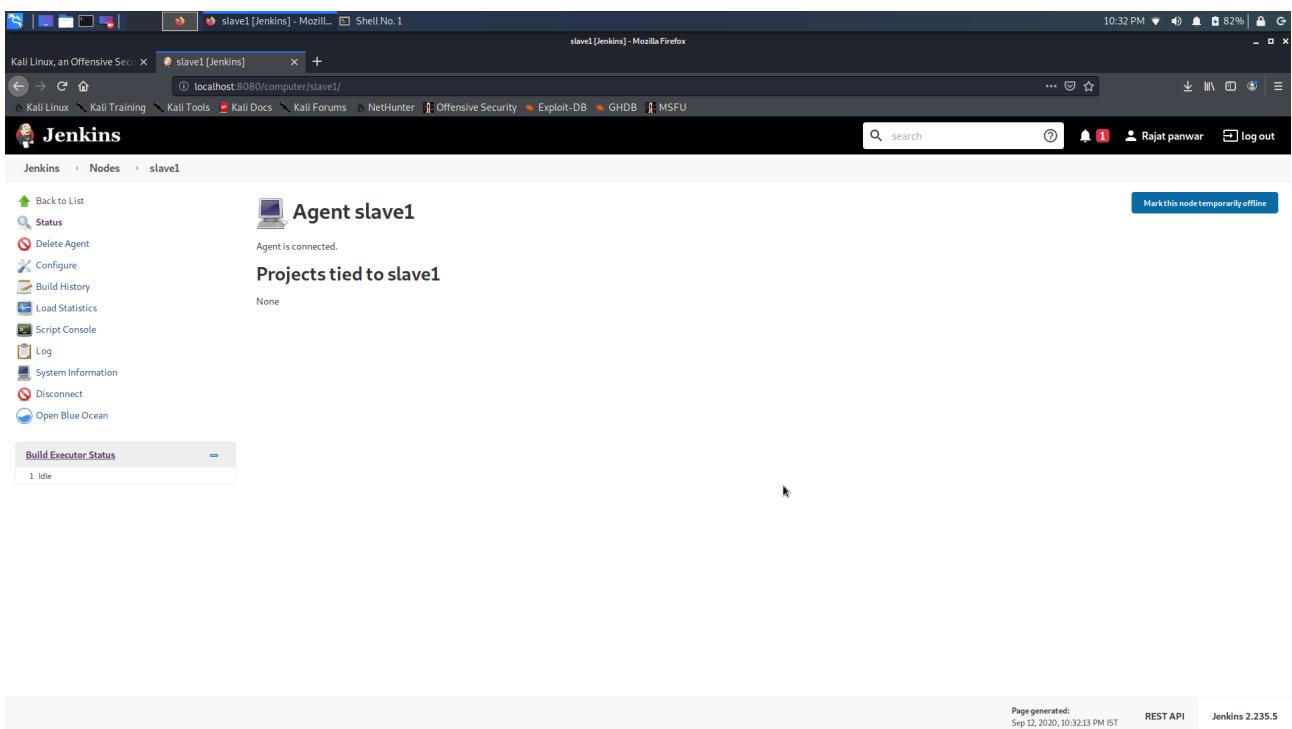
Log

System Information

Disconnect

Open Blue Ocean

Page generated: Sep 12, 2020, 10:32:13 PM IST REST API Jenkins 2.235.5



Kali Linux, an Offensive Sec... lab5 #1 Console [Jenkins] CICD SONARQUBE/upes\_cicd\_lab2 java - Checking Maven V... Shell No.1

localhost:8080/job/lab5/1/console

Jenkins Jenkins lab5 #1

## Console Output

```
Started by user Rajat_panwar
Running as SYSTEM
Building remotely on slave1 in workspace /root/Documents/jenkins_slave/workspace/lab5
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/rajatpanwar/CICD SONARQUBE.git
> git init /root/Documents/jenkins_slave/workspace/lab5 # timeout=10
Fetching upstream changes from https://github.com/rajatpanwar/CICD SONARQUBE.git
> git -version # timeout=10
> git -version # git version 2.28.0
> git fetch +tags --progress .. https://github.com/rajatpanwar/CICD SONARQUBE.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/rajatpanwar/CICD SONARQUBE.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git rev-parse refs/remotes/origin/origin^{commit} # timeout=10
Checking out Revision 24a79c96ae51bcb741532478349c8dd87d8c15 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 24a79c96ae51bcb741532478349c8dd87d8c15 # timeout=10
Commit message: "second commit chai wala"
First time build. Skipping changelog.
Parsing POMs
Discovering a new module CICD_lab2/upes_cicd_lab2 upes_cicd_lab2
Modules changed, recalculating dependency graph
Established TCP socket on 32769
Copied maven35-agent.jar
Copied maven35-interceptor.jar
Copied maven35-interceptor-commons.jar
[upes_cicd_lab2] $ java -cp /root/Documents/jenkins_slave/maven35-agent.jar:/usr/share/maven/boot/plexus-classworlds-2.x.jar:/usr/share/maven/conf/logging jenkins.maven3.agent.Maven35Main /usr/share/maven /root/downloads.agent.jar /root/Documents/jenkins_slave/maven35-interceptor.jar /root/Documents/jenkins_slave/maven35-interceptor-commons.jar 32769
Picard is JAVA_HOME=JAVA_HOME -Dawt.useSystemAAFontSettings=true
Using system properties configuration
Executing Maven: -B -f /root/Documents/jenkins_slave/workspace/lab5/upes_cicd_lab2/pom.xml clean
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use -illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: ... 
```

Kali Linux, an Offensive Sec... lab5 #1 Console [Jenkins] CICD SONARQUBE/upes\_cicd\_lab2 java - Checking Maven V... Shell No.1

localhost:8080/job/lab5/1/console

Jenkins Jenkins lab5 #1

```
[INFO] -----[ jar ]-----
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.pom (3.9 kB at 494 B/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugins/22/maven-plugins-22.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugins/22/maven-plugins-22.pom (13 kB at 11 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/21/maven-parent-21.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/21/maven-parent-21.pom (26 kB at 19 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/10/apache-10.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/10/apache-10.pom (15 kB at 15 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.jar (25 kB at 25 kB/s)
[INFO] ----- maven-clean-plugin:2.5:clean (default-clean) @ upes_cicd_lab2 ---
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom (1.5 kB at 1.4 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/2.0.6/maven-2.0.6.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/2.0.6/maven-2.0.6.pom (9.0 kB at 9.0 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom (15 kB at 12 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/3.0/apache-3.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/3.0/apache-3.pom (3.4 kB at 2.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.pom (4.1 kB at 4.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/spice/spice-parent-16.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/spice/spice-parent-16.pom (8.4 kB at 5.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/forge/forge-parent-5/forge-parent-5.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/forge/forge-parent-5/forge-parent-5.pom (8.4 kB at 6.8 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/plexus/plexus-utils/3.0/plexus-utils-3.0.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/plexus/plexus-utils/3.0/plexus-utils-3.0.jar (13 kB at 13 kB/s)
[INFO] Deleting /root/Documents/jenkins_slave/workspace/lab5/upes_cicd_lab2/target
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 28.652 s
[INFO] Finished at: 2020-09-12T22:51:12+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /root/Documents/jenkins_slave/workspace/lab5/upes_cicd_lab2/pom.xml to CICD_lab2/upes_cicd_lab2/0.0.1-SNAPSHOT/upes_cicd_lab2-0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```

<https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.jar>

Page generated: Sep 12, 2020, 10:50:18 PM IST REST API Jenkins 2.235.5

The screenshot shows the Jenkins interface for the 'slave1' node. The top navigation bar includes tabs for 'slave1 [Jenkins]', 'CICD SONARQUBE Update', and 'java - Checking Maven Version'. The main content area is titled 'Agent slave1' and displays the message 'Agent is connected.' Below this, a table lists 'Projects tied to slave1'. The table has columns: S (Status), W (Workload), Name, Last Success, Last Failure, Last Duration, and Fav. One project, 'lab5', is listed with a status icon showing a blue circle and a yellow sun, indicating it is idle. The 'Last Success' column shows '1 min 35 sec - [#1](#)'. The 'Last Failure' column shows 'N/A'. The 'Last Duration' column shows '1 min 0 sec'. A legend at the bottom right indicates that blue and yellow icons represent idle status, while red and green icons represent busy or error states. On the left sidebar, there are links for 'Back to List', 'Status', 'Delete Agent', 'Configure', 'Build History', 'Load Statistics', 'Script Console', 'Log', 'System Information', 'Disconnect', and 'Open Blue Ocean'. At the bottom, a 'Build Executor Status' section shows '1 Idle'. The footer contains links for 'Page generated: Sep 12, 2020, 10:51:48 PM IST', 'REST API', and 'Jenkins 2.235.5'.

## EXPERIMENT-9

**AIM:** Uploading Artifacts on Nexus Server Using command line

The screenshot shows the Sonatype Nexus Repository Manager interface. The left sidebar is titled 'Administration' and includes sections for Repository, Blob Stores, Repositories, Content Selectors, Cleanup Policies, Routing Rules, Security (Privileges, Roles, Users, Anonymous, LDAP, Realms, SSL Certificates), Support, and System. The 'Repositories' section is currently selected. The main content area is titled 'Repositories / Select Recipe' and lists various repository types: apt (hosted), apt (proxy), bower (group), bower (hosted), bower (proxy), docker (group), docker (hosted), docker (proxy), gitfs (hosted), go (group), go (proxy), maven2 (group), maven2 (hosted), maven2 (proxy), npm (group), npm (hosted), npm (proxy), nuget (group), nuget (hosted), nuget (proxy), pypi (group), pypi (hosted), pypi (proxy), raw (group), raw (hosted), raw (proxy), rubygems (group), rubygems (hosted), rubygems (proxy), yum (group), and yum (hosted). A search bar at the top right says 'Search components'.

The screenshot shows the 'Create Repository' dialog for a Maven 2 repository. The 'Name' field is set to 'raja\_cld'. The 'Online' checkbox is checked. Under 'Maven 2', the 'Version policy' is set to 'Snapshot' and the 'Layout policy' is 'Strict'. In the 'Storage' section, the 'Blob store' is set to 'default'. Under 'Hosted', the 'Deployment policy' is 'Allow redeploy'. In the 'Cleanup Policy' section, there is a dropdown for 'Available cleanup policies' which is currently set to 'None'. At the bottom of the dialog are 'Create repository' and 'Cancel' buttons.

command for start to nexus:-

```
rajat@DESKTOP-5D2RKN3:/root/Downloads/nexus-3.18.1-01-unix/nexus-3.18.1-01/bin$ ./nexus start
/nexus: 383: cd: can't cd to .
/nexus: 398: cd: can't cd to .
./nexus: 401: cd: can't cd to ../
./nexus: 408: cd: can't cd to /root/Downloads/nexus-3.18.1-01-unix/nexus-3.18.1-01/bin/..
./nexus: 334: cd: can't cd to /root/Downloads/nexus-3.18.1-01-unix/nexus-3.18.1-01/bin
Starting nexus
rajat@DESKTOP-5D2RKN3:/root/Downloads/nexus-3.18.1-01-unix/nexus-3.18.1-01/bin$
```

Screenshot of the Sonatype Nexus Repository Manager interface showing the 'Repositories' section.

The left sidebar shows the navigation menu:

- Administration
- Repository
- Content Selectors
- Cleanup Policies
- Routing Rules
- Security
- Privileges
- Roles
- Users
- Anonymous
- LDAP
- Realms
- SSL Certificates
- IQ Server
- Support
- System

The main content area is titled "Repositories Manage repositories". It displays a table of repositories:

Name ↑	Type	Format	Status	URL	Health check	IQ Policy Violat...	Filter
maven-central	proxy	maven2	Online - Ready to Connect		Analyze		>
maven-public	group	maven2	Online				>
maven-releases	hosted	maven2	Online				>
maven-snapshots	hosted	maven2	Online				>
nugget-group	group	nugget	Online				>
nugget-hosted	hosted	nugget	Online				>
nugget.org-proxy	proxy	nugget	Online - Ready to Connect		Analyze		>
rajat_CI_CD	hosted	maven2	Online				>

## Setting.xml Pom.xml

The screenshot shows the Eclipse IDE interface with two XML files open:

- pom.xml**: Located at `~\eclipse-workspace\test_jenkinsfile`. It defines a Maven project with a group ID of `CICD-jenkinsfile`, an artifact ID of `test_jenkinsfile`, and a version of `0.0.1-SNAPSHOT`. It includes properties for compiler source and target versions (both 1.6), and a distribution management section with a snapshot repository named `rajab_CICD` located at `http://localhost:8081/repository/rajab_CICD`.
- settings.xml**: Located at `/usr/share/maven/conf`. It contains proxy and server configurations. The proxy section specifies a host for non-proxy hosts. The servers section defines a deployment repository (`rajab_CICD`) with a user named `admin` and password `admin123`.

mvn clean and mvn install:-

```
root@DESKTOP-5D2RN3:~/eclipse-workspace/test.jenkinsfile# mvn clean
Picked up _JAVA_OPTIONS: -Dawt.useSystemAFontSettings=on -Dswing.aatext=true
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects ...
[INFO]
[INFO] _____< CICD-jenkinsfile:test.jenkinsfile >_____
[INFO] Building test.jenkinsfile 0.0.1-SNAPSHOT
[INFO]   [ jar ]
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ test.jenkinsfile ---
[INFO] Deleting /root/eclipse-workspace/test.jenkinsfile/target
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time:  0.550 s
[INFO] Finished at: 2020-09-26T17:57:52+05:30
[INFO]
root@DESKTOP-5D2RN3:~/eclipse-workspace/test.jenkinsfile# mvn install
Picked up _JAVA_OPTIONS: -Dawt.useSystemAFontSettings=on -Dswing.aatext=true
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects ...
[INFO]
[INFO] _____< CICD-jenkinsfile:test.jenkinsfile >_____
[INFO] Building test.jenkinsfile 0.0.1-SNAPSHOT
[INFO]
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.pom (6.1 kB at 3.4 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/23/maven-plugins-23.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/23/maven-plugins-23.pom (9.2 kB at 12 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/22/maven-parent-22.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/22/maven-parent-22.pom (30 kB at 24 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/11/apache-11.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/11/apache-11.pom (15 kB at 19 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/2.6/maven-resources-plugin-2.6.jar (30 kB at 37 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.pom (10 kB at 13 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/24/maven-plugins-24.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/23/maven-parent-23.pom (11 kB at 13 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/23/maven-parent-23.pom (33 kB at 40 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/13/apache-13.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/13/apache-13.pom (14 kB at 17 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.1/maven-compiler-plugin-3.1.jar (43 kB at 53 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plugin-2.12.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plugin-2.12.4.pom (10 kB at 13 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.12.4/surefire-2.12.4.pom (14 kB at 18 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven-surefire/surefire/2.12.4/surefire-2.12.4.pom (14 kB at 18 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plugin-2.12.4.jar
```

mvn deploy:-

```
Welcome - Nexus Repos... rajat@DESKTOP-5D2R... Shell No.1 conf - File Manager test.jenkinsfile - File Ma... 06:06 PM 51% 
[INFO] Installing /root/eclipse-workspace/test.jenkinsfile/pom.xml to /root/.m2/repository/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 02:59 min
[INFO] Finished at: 2020-09-26T18:01:09+05:30
[INFO]
root@DESKTOP-5D2RKN3:~/eclipse-workspace/test.jenkinsfile# mvn deploy
Picked up _JAVA_OPTIONS=-Dwt.useSystemAFPreferences=-Dswing.aatext=true
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass([Ljava.lang.String;Ljava.lang.String;byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
[INFO]
[INFO] <!-- CICD-jenkinsfile: test.jenkinsfile -->
[INFO] Building test.jenkinsfile 0.0.1-SNAPSHOT
[INFO] [ jar ]
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom (5.6 kB at 2.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.jar (27 kB at 28 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ test.jenkinsfile ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ test.jenkinsfile ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ test.jenkinsfile ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ test.jenkinsfile ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ test.jenkinsfile ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ test.jenkinsfile ---
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ test.jenkinsfile ---
[INFO] Installing /root/eclipse-workspace/test.jenkinsfile/target/test.jenkinsfile-0.0.1-SNAPSHOT.jar to /root/.m2/repository/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-SNAPSHOT.jar
[INFO] Installing /root/eclipse-workspace/test.jenkinsfile/pom.xml to /root/.m2/repository/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] --- maven-deploy-plugin:2.7:deploy (default-deploy) @ test.jenkinsfile ---
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6.pom (5.3 kB at 6.8 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.pom (9.8 kB at 12 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.jar (251 kB at 137 kB/s)
Download from central: https://repo.maven.apache.org/maven-metadata.xml
Download from central: https://rajamaven:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/maven-metadata.xml
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.jar
Uploaded to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile-0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.jar (2.3 kB at 2.5 kB/s)
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile-0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.pom
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile-0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.pom (780 B at 5.3 kB/s)
Download from rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/maven-metadata.xml
```

```
Welcome - Nexus Repos... rajat@DESKTOP-5D2R... Shell No.1 conf - File Manager test.jenkinsfile - File Ma... 06:06 PM 51% 
n)
[INFO] Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
[WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
[INFO]
[INFO] <!-- CICD-jenkinsfile: test.jenkinsfile -->
[INFO] Building test.jenkinsfile 0.0.1-SNAPSHOT
[INFO] [ jar ]
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom (5.6 kB at 2.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.jar (27 kB at 28 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ test.jenkinsfile ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ test.jenkinsfile ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ test.jenkinsfile ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ test.jenkinsfile ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ test.jenkinsfile ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ test.jenkinsfile ---
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ test.jenkinsfile ---
[INFO] Installing /root/eclipse-workspace/test.jenkinsfile/target/test.jenkinsfile-0.0.1-SNAPSHOT.jar to /root/.m2/repository/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-SNAPSHOT.jar
[INFO] Installing /root/eclipse-workspace/test.jenkinsfile/pom.xml to /root/.m2/repository/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] --- maven-deploy-plugin:2.7:deploy (default-deploy) @ test.jenkinsfile ---
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6.pom (5.3 kB at 6.8 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.pom (9.8 kB at 12 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/1.5.6/plexus-utils-1.5.6.jar (251 kB at 137 kB/s)
Download from central: https://repo.maven.apache.org/maven-metadata.xml
Download from central: https://rajamaven:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/maven-metadata.xml
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.jar
Uploaded to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile-0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.jar (2.3 kB at 2.5 kB/s)
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile-0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.pom
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile-0.0.1-SNAPSHOT/test.jenkinsfile-0.0.1-20200926.123130-1.pom (780 B at 5.3 kB/s)
Download from rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/maven-metadata.xml
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/maven-metadata.xml
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/maven-metadata.xml (782 B at 5.4 kB/s)
Uploading to rajat_CICD: http://localhost:8081/repository/rajat_CICD/CICD-jenkinsfile/test.jenkinsfile/0.0.1-SNAPSHOT/maven-metadata.xml (292 B at 2.5 kB/s)
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 10:631 s
[INFO] Finished at: 2020-09-26T18:01:31+05:30
[INFO]
```

