

NIPUN SINGAL
R171218069
500069052

CICD LAB FILE

EXPERIMENT-1

AIM: Installation of jenkins and execution of a simple job in jenkins

The screenshot shows a Google Chrome browser window with the address bar containing 'jenkins.io/doc/book/installing/#debianubuntu'. The page content is the Jenkins documentation for installing on Debian/Ubuntu. It includes sections on Long Term Support release, Weekly release, and command-line installation scripts.

Debian/Ubuntu

On Debian and Debian-based distributions like Ubuntu you can install Jenkins through [apt](#).

Long Term Support release

A **LTS (Long-Term Support) release** is chosen every 12 weeks from the stream of regular releases as the stable release for that time period. It can be installed from the [debian-stable apt repository](#).

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

Weekly release

A new release is produced weekly to deliver bug fixes and features to users and plugin developers. It can be installed from the [debian apt repository](#).

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -
sudo sh -c 'echo deb https://pkg.jenkins.io/debian binary/ > \
/etc/apt/sources.list.d/jenkins.list'
```

Applications ▾ Places ▾ Terminal ▾ Sat Oct 3 7:57 PM Untitled1 - LibreOffice Writer

File Edit View Insert Format Styles Table Form Tools Window Help

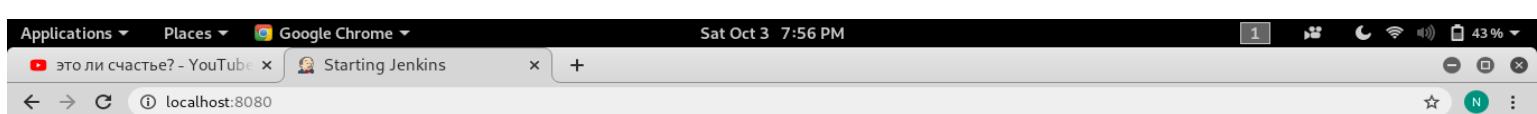
Default St root@anonymous: ~

```
root@anonymous:~# service jenkins start
root@anonymous:~# service jenkins stop
[...]
lled with multiple threads in process gpu-process.
```

14 15 16 17 18 19

Page 1 of 2

100%



Please wait while Jenkins is getting ready to work ...

Your browser will reload automatically when Jenkins is ready.

Applications ▾ Places ▾ Google Chrome ▾ Sat Oct 3 7:56 PM 1 43% ▾

YouTube x Sign in [Jenkins] +

localhost:8080/login?from=%2F



Welcome to Jenkins!

[Sign in](#)

Keep me signed in

Applications ▾ Places ▾ Firefox ESR ▾ Wed Aug 12 8:41 PM • 36% ▾

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

Jenkins

People Build History My Views

Welcome to Jenkins!

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

EXPERIMENT-2

AIM: Jenkins integration with GitHub

Sat Oct 3 8:04 PM

New Item [Jenkins] - Mozilla Firefox

localhost:8080/view/all/newJob

Jenkins

project

» Required field

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.

Configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific

OK

Sat Oct 3 8:09 PM

project Config [Jenkins] - Mozilla Firefox

I project Config [Jenkins] +

localhost:8080/job/project/configure

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Jenkins project

General Source Code Management Build Triggers Build Environment Build Post-build Actions

Source Code Management

None Git

Repositories

Repository URL: <https://github.com/nipunsingal7/work.git>

Credentials: - none - [Add](#)

[Advanced...](#) [Add Repository](#)

Branches to build

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

[Add Branch](#)

[Save](#) [Apply](#)

This screenshot shows the 'Source Code Management' configuration page for a Jenkins job named 'project'. The 'Git' option is selected. A repository is defined with the URL 'https://github.com/nipunsingal7/work.git'. The 'Branch Specifier' is set to '*/master'. There are 'Save' and 'Apply' buttons at the bottom.

Sat Oct 3 8:11 PM

Workspace of work on master : [Jenkins] - Mozilla Firefox

I Workspace of work on master +

localhost:8080/job/work/ws

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Jenkins

search nipunsingal log out

Jenkins work

Back to Dashboard Status Changes Workspace Wipe Out Current Workspace Build Now Delete Project Configure Favorite Open Blue Ocean Rename

Workspace of work on master

[.git](#)

[hello.c](#) Oct 3, 2020, 8:11:33 PM 138 B [view](#)

[hh.c](#) Oct 3, 2020, 8:11:33 PM 24 B [view](#)

[\(all files in zip\)](#)

Build History trend find

#1 Oct 3, 2020, 8:11 PM

This screenshot shows the Jenkins workspace for the 'work' job. It displays the contents of the '.git' folder, specifically the 'hello.c' and 'hh.c' files, both of which were uploaded on October 3, 2020, at 8:11:33 PM. There is also a link to download all files in a zip archive. The sidebar on the left provides navigation links for the Jenkins interface.

Applications ▾ Places ▾ Google Chrome ▾ Sat Oct 3 8:12 PM

(8) RAUF X FAIK - я лк x nipunsingal7/work: dd

github.com/nipunsingal7/work

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

nipunsingal7 / work

forked from ishitabansai/work

Code Pull requests Actions Projects Wiki Security Insights Settings

master 6 branches 0 tags Go to file Add file Code

This branch is 2 commits behind ishitabansai:master. Pull request Compare

nipunsingal123 hfukef f0689d2 3 days ago 27 commits

hello.c hfukef 3 days ago

hh.c dehhde 5 days ago

Add a README

About dd

Releases No releases published Create a new release

Packages No packages published Publish your first package

Languages

100 0%

EXPERIMENT-3

AIM: Jenkins integration with GitHub and Maven

The screenshot shows a Firefox browser window with the address bar set to "localhost:8080". The title bar reads "Dashboard [Jenkins] - Mozilla Firefox". The main content area displays the Jenkins dashboard, featuring a "Welcome to Jenkins!" message, navigation links for "People", "Build History", and "My Views", and sections for "Build Queue" and "Build Executor Status". The "Build Queue" section indicates "No builds in the queue." The "Build Executor Status" section shows "1 Idle" and "2 Idle" executors. At the bottom right, there is footer information: "Page generated: Aug 12, 2020 8:41:06 PM IST", "REST API", and "Jenkins 2.235.1".

Applications ▾ Places ▾ Firefox ESR ▾

Wed Aug 12 8:41 PM •

Dashboard [Jenkins] - Mozilla Firefox

localhost:8080

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Jenkins

search

nipun singal log out

Welcome to Jenkins!

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

Applications ▾ Places ▾ Eclipse ▾ Wed Aug 12 8:43 PM •

eclipse-workspace - jenkins/src/main/java/jenkins/File1.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

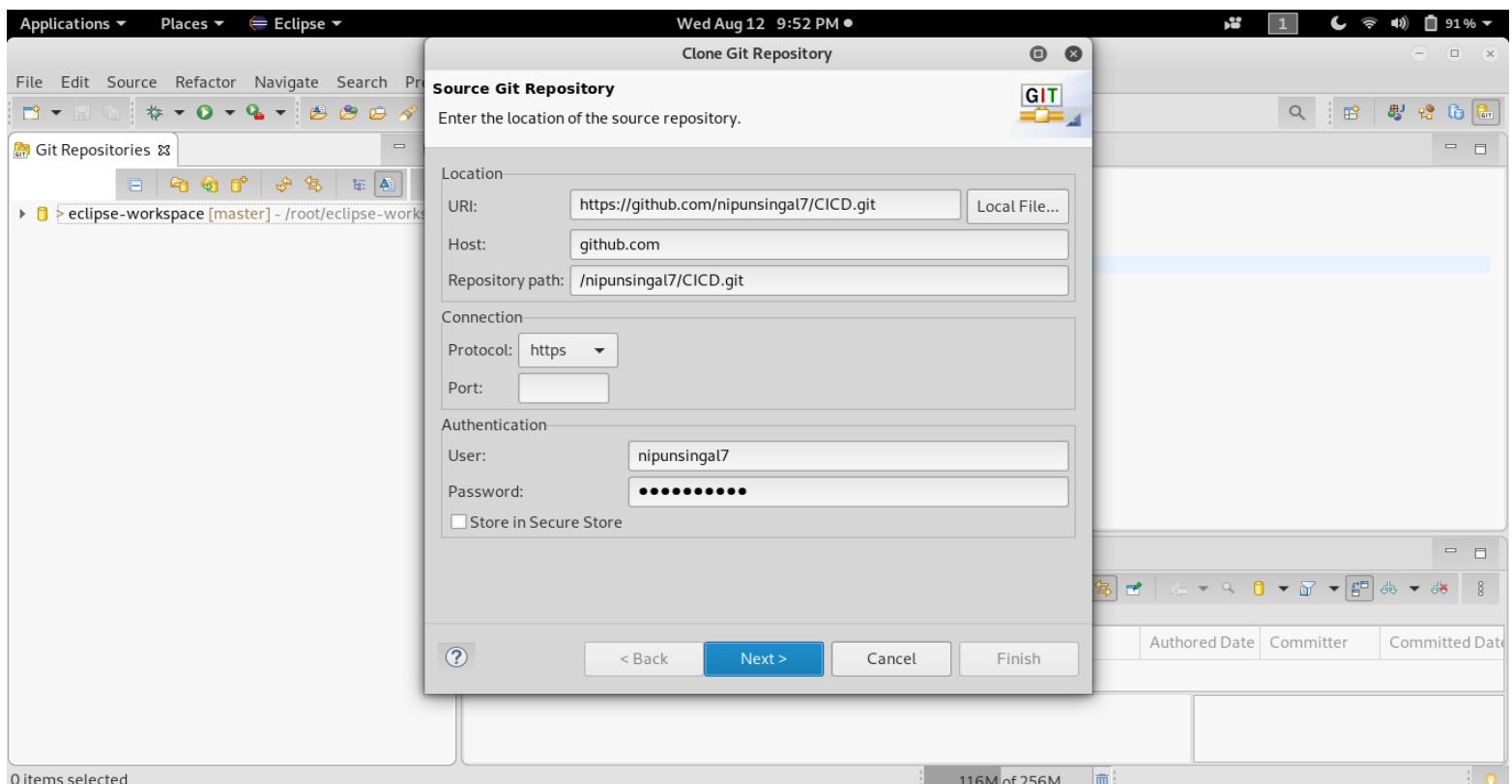
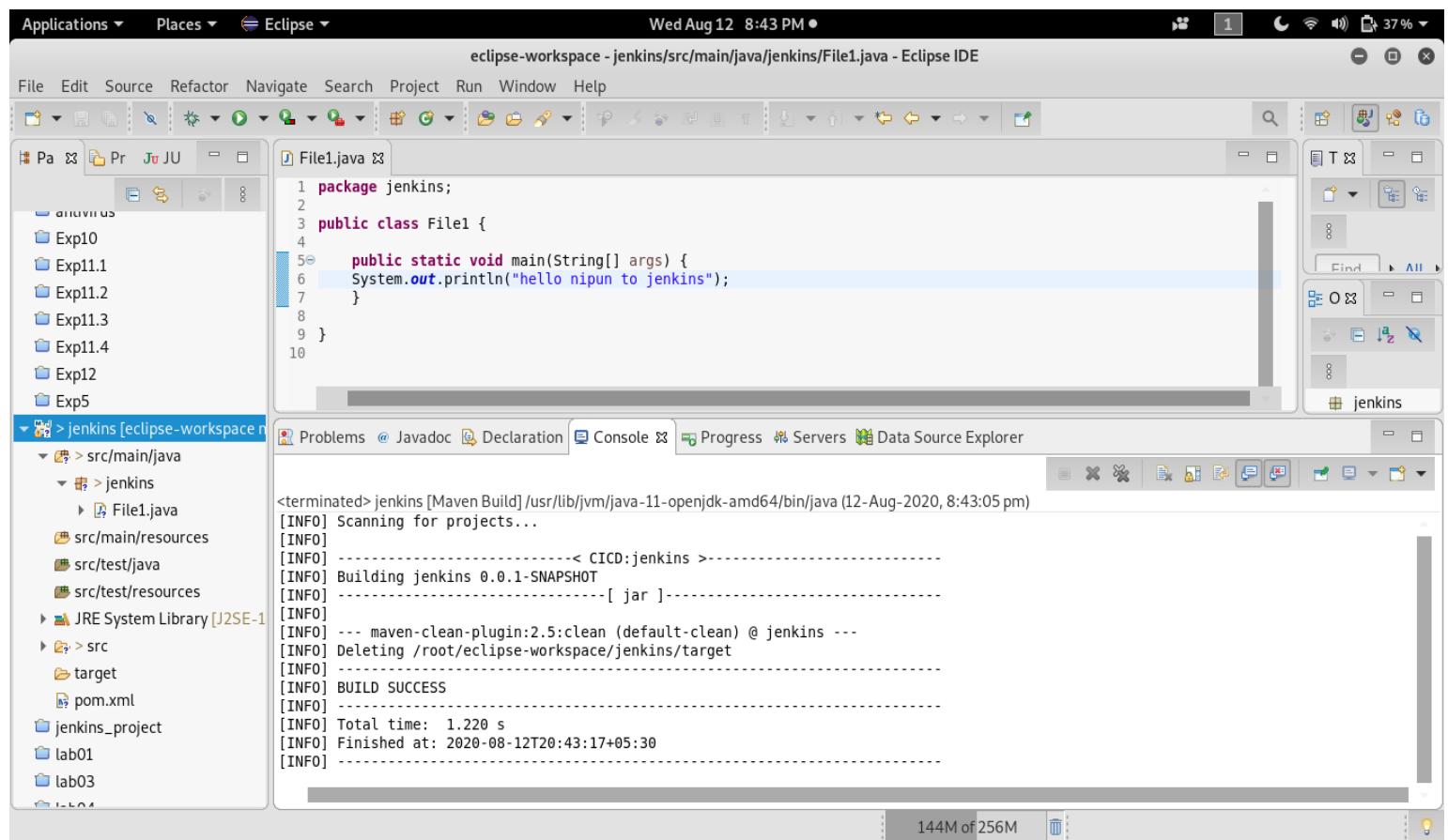
File1.java

```
1 package jenkins;
2
3 public class File1 {
4
5     public static void main(String[] args) {
6         System.out.println("Hello Nipun to Jenkins");
7     }
8
9 }
10
```

Problems Javadoc Declaration Console Progress Servers Data Source Explorer

```
<terminated> jenkins [Maven Build] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (12-Aug-2020, 8:43:05 pm)
[INFO] Scanning for projects...
[INFO]
[INFO] -----< CICD:jenkins >-----
[INFO] Building jenkins 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ jenkins ---
[INFO] Deleting /root/eclipse-workspace/jenkins/target
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 1.220 s
[INFO] Finished at: 2020-08-12T20:43:17+05:30
[INFO]
```

144M of 256M



Applications ▾ Places ▾ Eclipse ▾

Wed Aug 12 10:01 PM •

eclipse-workspace - jenkins/src/main/java/jenkins/File1.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

File1.java

```
1 package jenkins;
2
3 public class File1 {
4
5     public static void main(String[] args) {
6         System.out.println("hello nipun to jenkins");
7     }
}
```

Synchronize Git Staging Git Reflog Properties

> CICD [master]

Unstaged Changes (0)

Staged Changes (7)

- .classpath - jenkins
- .gitignore - jenkins
- .project - jenkins
- File1.java - jenkins/src/main/java/jenkins
- org.eclipse.jdt.core.prefs - jenkins/.settings

Commit Message

i Unborn branch: this commit will create the branch 'master'.

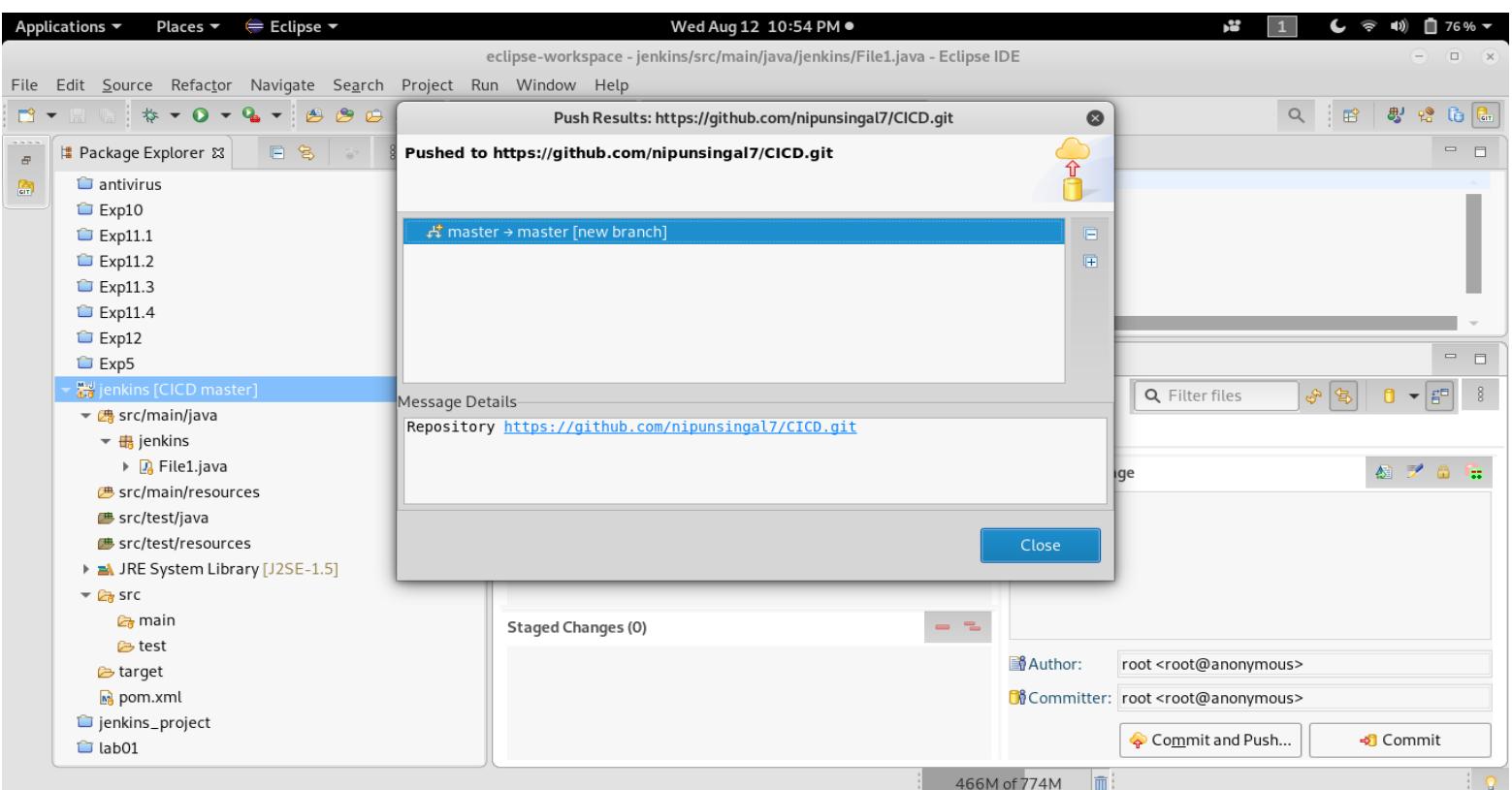
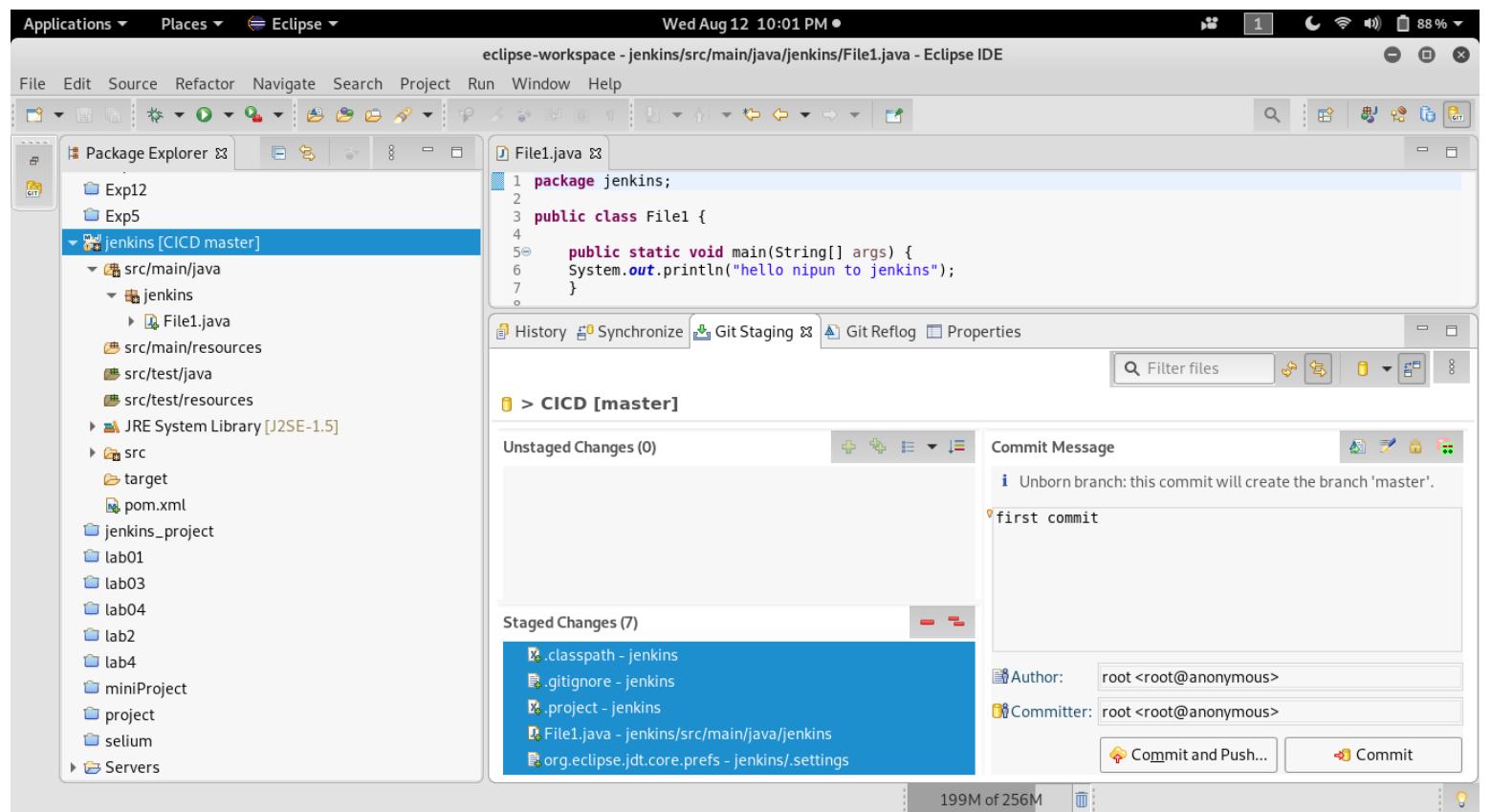
first commit

Author: root <root@anonymous>

Committer: root <root@anonymous>

Commit and Push... Commit

199M of 256M



Applications ▾ Places ▾ Firefox ESR ▾

Thu Aug 13 12:19 PM •

CICD_Project Config [Jenkins] - Mozilla Firefox

localhost:8080/me/my-views/view/all/job/CICD_Project/configure

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Jenkins > nipunsingal > My Views > All > CICD_Project >

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

Post-build Actions

Add pre-build step ▾

Build

Root POM jenkins/pom.xml

Goals and options clean

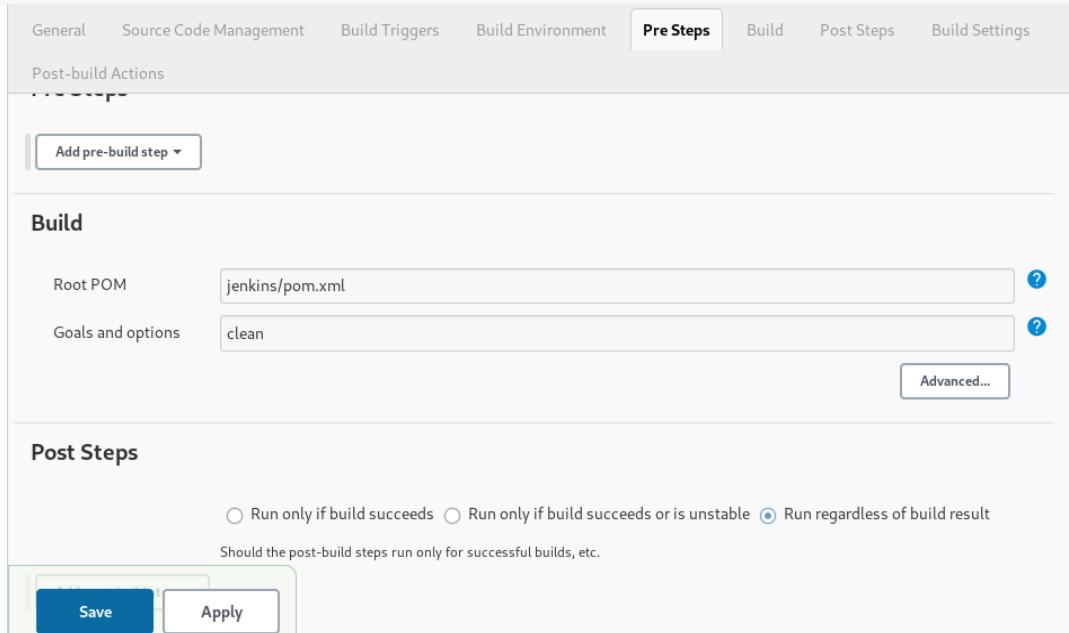
Advanced...

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.

Save Apply



Applications ▾ Places ▾ Firefox ESR ▾

Thu Aug 13 12:25 PM •

CICD_Project #7 Console [Jenkins] - Mozilla Firefox

localhost:8080/me/my-views/view/all/job/CICD_Project/7/console

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Jenkins > nipunsingal > My Views > All > CICD_Project > #7

```
alpha-u/plexus-utils-3.0.5.jar (17.5 KB at 7.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-
utils-3.0.5.jar
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-
digest-1.0.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-
digest-1.0.jar (12 kB at 10 kB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-
utils-3.0.5.jar (230 kB at 73 kB/s)
[INFO] Installing /var/lib/jenkins/workspace/CICD_Project/jenkins/target/jenkins-0.0.1-SNAPSHOT.jar to /var/lib/jenkins
/.m2/repository/DEVOPS/jenkins/0.0.1-SNAPSHOT/jenkins-0.0.1-SNAPSHOT.jar
[INFO] Installing /var/lib/jenkins/workspace/CICD_Project/jenkins/pom.xml to /var/lib/jenkins/.m2/repository/DEVOPS
/jenkins/0.0.1-SNAPSHOT/jenkins-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 03:27 min
[INFO] Finished at: 2020-08-13T12:25:33+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /var/lib/jenkins/workspace/CICD_Project/jenkins/pom.xml to DEVOPS/jenkins/0.0.1-SNAPSHOT/jenkins-
0.0.1-SNAPSHOT.pom
[JENKINS] Archiving /var/lib/jenkins/workspace/CICD_Project/jenkins/target/jenkins-0.0.1-SNAPSHOT.jar to DEVOPS/jenkins
/0.0.1-SNAPSHOT/jenkins-0.0.1-SNAPSHOT.jar
channel stopped
Finished: SUCCESS
```

Page generated: Aug 13, 2020 12:22:19 PM IST REST API Jenkins 2.235.2

Applications ▾ Places ▾ Firefox ESR ▾ Thu Aug 13 12:27 PM •

Workspace of CICD_Project on master : /jenkins/target [Jenkins] - Mozilla Firefox

localhost:8080/me/my-views/view/all/job/CICD_Project/ws/jenkins/target/

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Jenkins

search nipunsingal log out

Jenkins > nipunsingal > My Views > All > CICD_Project >

Back to Dashboard Status Changes Workspace Build Now Delete Maven project Configure Modules Rename

Workspace of CICD_Project on master

jenkins / target /

classes/jenkins
maven-archiver
maven-status/maven-compiler-plugin/compile/default-compile
jenkins-0.0.1-SNAPSHOT.jar

Aug 13, 2020 12:25:24 PM 1.83 KB view
[\(all files in zip\)](#)

Build History trend

find

#7 Aug 13, 2020 12:21 PM
#6 Aug 13, 2020 12:20 PM
#5 Aug 13, 2020 12:18 PM

Applications ▾ Places ▾ Firefox ESR ▾ Thu Aug 13 12:59 PM •

CICD/jenkins at master · nipunsingal7/CICD · Mozilla Firefox

https://github.com/nipunsingal7/CICD/tree/master/jenkins

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nipunsingal7 / CICD

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master CICD / jenkins /

root first commit 9eff805 14 hours ago History

..

.settings	first commit	14 hours ago
src/main/java/jenkins	first commit	14 hours ago
.classpath	first commit	14 hours ago
.gitignore	first commit	14 hours ago
.project	first commit	14 hours ago
pom.xml	first commit	14 hours ago

EXPERIMENT-4

AIM: Static code analysis using SonarQube

The screenshot shows the SonarQube interface running in Mozilla Firefox. The top navigation bar includes links for Applications, Places, and Firefox ESR. The title bar shows the date and time as Thu Aug 20 2:32 PM. The main content area is titled "Projects - Mozilla Firefox". The URL bar shows the address as localhost:9000/projects. Below the header, there's a toolbar with icons for sonarqube, Projects, Issues, Rules, Quality Profiles, Quality Gates, Administration, a search bar, and a button labeled "A".

The main dashboard displays various metrics and filters. On the left, there are sections for "Filters", "Quality Gate" (Passed: 0, Failed: 0), "Reliability" (A: 0, B: 0, C: 0, D: 0, E: 0), and "Security" (A: 0, B: 0, C: 0, D: 0, E: 0). A central message says "Once you analyze some projects, they will show up here." Below it, another message says "Here is how you can analyze new projects" with a "Create new project" button.

A yellow callout box contains the text: "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." At the bottom, footer text reads: "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".

Fri Aug 21 12:45 AM • Projects - Mozilla Firefox

localhost:9000/projects

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

My Favorites All

Perspective: Overall Status Sort by: Name Search by project name or key 1 projects

Filters

Quality Gate

Passed	Failed
1	0

Reliability (Bugs)

A	B	C	D	E
1	0	0	0	0

Security (Vulnerabilities)

A	B	C	D	E
1	0	0	0	0

CI-CI-lab2 Passed

Last analysis: August 21, 2020, 12:41 AM

0 A Bugs | 0 A Vulnerabilities | - A Hotspots Reviewed | 2 A Code Smells | 0.0% Coverage | 0.0% Duplications | 15 XS 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) - [GPL v3](#) - [Community](#) - [Documentation](#) - [Get Support](#) - [Plugins](#) - [Web API](#) - [About](#)

Fri Aug 21 12:45 AM • CI-CI-lab2 - Mozilla Firefox

localhost:9000/dashboard?id=devops%3ACI-CI-lab2

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

CI-CI-lab2 master

Overview Issues Security Hotspots Measures Code Activity Project Settings Project Information

QUALITY GATE STATUS

Passed

All conditions passed.

MEASURES

New Code Overall Code

0 Bugs Reliability A

0 Vulnerabilities Security A

0 Security Hotspots Reviewed Security Review A

20min Debt 2 Code Smells Maintainability A

EXPERIMENT-5

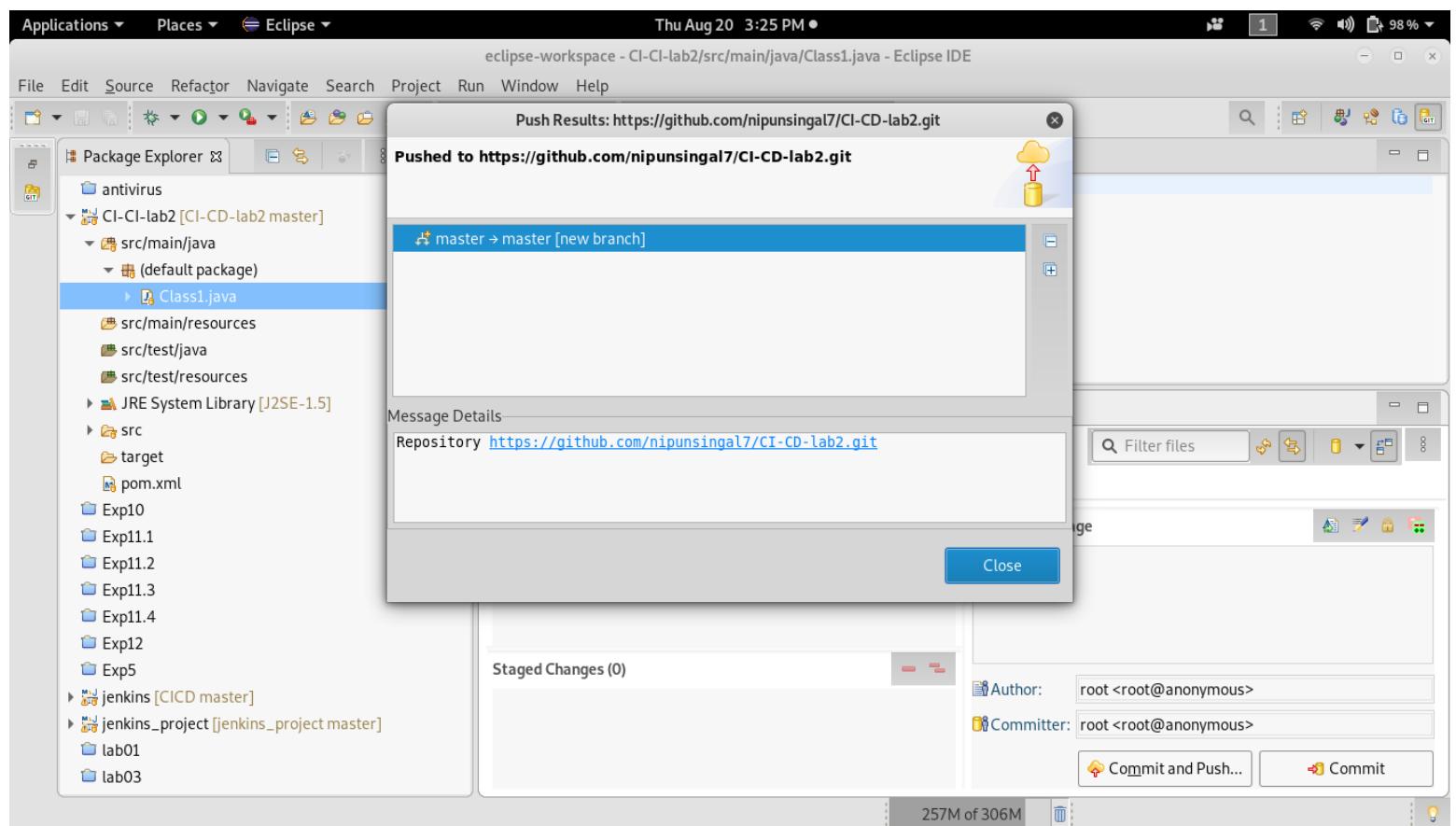
AIM: Jenkins integration with SonarQube

The screenshot shows the SonarQube web interface. At the top, it displays the date and time: Thu Aug 20 2:32 PM. The main header is "Projects - Mozilla Firefox". Below the header, the URL is localhost:9000/projects. The navigation bar includes "sonarqube", "Projects", "Issues", "Rules", "Quality Profiles", "Quality Gates", and "Administration". A search bar at the top right says "Search for projects...". On the left, there's a sidebar with "Filters" and sections for "Quality Gate" (Passed: 0, Failed: 0), "Reliability" (Bugs: 0 for all levels A-E), and "Security" (Vulnerabilities: 0 for all levels A-E). The central area has a message: "Once you analyze some projects, they will show up here." It also says "Here is how you can analyze new projects" and has a "Create new project" button. A yellow callout box contains the text: "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." At the bottom, it says "SonarQube™ technology is powered by SonarSource SA" and lists "Community Edition - Version 8.4.1 (build 35646) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About".

The screenshot shows the Eclipse IDE workspace titled "eclipse-workspace - CI-CD-lab2/src/main/java/Class1.java - Eclipse IDE". The date and time are Thu Aug 20 3:24 PM. The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The left side shows the "Package Explorer" with a tree view of projects: "antivirus", "CI-CD-lab2 [CI-CD-lab2 master]" (selected), "src/main/java" (under CI-CD-lab2), "src/main/resources", "src/test/java", "src/test/resources", "JRE System Library [J2SE-1.5]", "src", "target", and "pom.xml". Other projects like "Exp10", "Exp11.1", "Exp11.2", "Exp11.3", "Exp11.4", "Exp12", "Exp5", "jenkins [CI-CD master]", "jenkins-project [jenkins_project master]", "lab01", and "lab03" are listed below. The central editor window shows the Java code for "Class1.java":

```
1 | public class Class1 {
2 |     public static void main(String[] args) {
3 |         System.out.println("sonarqube lab example");
4 |     }
5 |
6 | }
```

Below the editor are tabs for History, Synchronize, Git Staging, Git Reflog, and Properties. The "Git Staging" tab is active, showing "Unstaged Changes (0)" and "Staged Changes (7)". The staged changes include ".classpath - CI-CD-lab2", ".gitignore - CI-CD-lab2", ".project - CI-CD-lab2", and "Class1.java - CI-CD-lab2/src/main/java". To the right, there's a "Commit Message" field with "first commit", author and committer fields both set to "root <root@anonymous>", and buttons for "Commit and Push..." and "Commit". The bottom of the screen shows the status bar with "Writable", "Smart Insert", "1:1:0", "141M of 306M", and other system information.



Applications ▾ Places ▾ Firefox ESR ▾ Thu Aug 20 3:25 PM •

CI-CD-lab2/CI-CI-lab2 at master · nipunsingal7/CI-CD-lab2 - Mozilla Firefox

How to setup | (13) SSL, TLS | Polymorphisms | What Are Pcs | resource | how to make | how to make | (13) Port For | Java Software | Future g | Projects | CI-CD X

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

nipunsingal7 / CI-CD-lab2

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master / CI-CD-lab2 / CI-CI-lab2 /

root first commit 5a09697 1 minute ago History

..

.settings	first commit	1 minute ago
src/main/java	first commit	1 minute ago
.classpath	first commit	1 minute ago
.gitignore	first commit	1 minute ago
.project	first commit	1 minute ago
pom.xml	first commit	1 minute ago

Applications ▾ Places ▾ Firefox ESR ▾ Thu Aug 20 4:26 PM • CI-CD-lab2 Config - Mozilla Firefox

How to se | (13) SSL, T | Polymorp | What Are | resources.in | how to ma | how to ma | (13) Port F | Java Softw | G Future | nipuns | B Blackb | Con | CI-CD-lab2 | +

localhost:8080/job/CI-CD-lab2/configure

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Jenkins CI-CD-lab2

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

Post-build Actions

Schedule build when some upstream has no successful builds

Trigger builds remotely (e.g., from scripts)

Build after other projects are built

Build periodically

GitHub hook trigger for GITScm polling

Poll SCM

Schedule

⚠ Do you really mean "every minute" when you say "***"? Perhaps you meant "H * * * *" to poll once per hour**

Would last have run at Thursday, 20 August, 2020 at 4:20:00 PM India Standard Time; would next run at Thursday, 20 August, 2020 at 4:20:00 PM India Standard Time.

Save Apply

Applications ▾ Places ▾ Firefox ESR ▾ Thu Aug 20 9:37 PM • CI-CD-lab2 Config [Jenkins] - Mozilla Firefox

How to setup a | (13) SSL, TL | Polymorphism | What Are Ports | resources.in | how to make yo | (13) Port For | CI-CD-lab2 | CI-CD-lab2 | +

localhost:8080/job/CI-CD-lab2/configure

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Jenkins CI-CD-lab2

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

Post-build Actions

Pre Steps

Add pre-build step ▾

Build

Root POM CI-CD-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.

Save Apply

Applications ▾ Places ▾ Firefox ESR ▾ Thu Aug 20 11:01 PM •

Update Center [Jenkins] - Mozilla Firefox

How to setup a | (13) SSL, TL | Polymorphism | What Are Ports | resources.in | how to make yo | G how to make | (13) Port For | CI-CD-lab2 | Update C | +

localhost:8080/updateCenter/ ... ? 🔍

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 Jenkins

search nipunsingal log out

Jenkins > Update Center

Back to Dashboard

Manage Jenkins

Manage Plugins

Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

SonarQube Scanner  Installing

Restarting Jenkins  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](#)

Page generated: Aug 20, 2020, 11:01:41 PM IST REST API Jenkins 2.235.2

Applications ▾ Places ▾ Firefox ESR ▾ Fri Aug 21 12:44 AM •

CI-CD-lab2 #5 Console [Jenkins] - Mozilla Firefox

How to setup a | (13) SSL, | Polymorphis | What Are Po | resource | how to make | G how to m | (13) Port | CI-CD-lab2 | Projects | spring bo | +

localhost:8080/job/CI-CD-lab2/5/console ... ? 🔍

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Jenkins > CI-CD-lab2 > #5

```
[INFO] SCM PUBLISHER 2 source files to be analyzed
[INFO] SCM Publisher 2/2 source files have been analyzed (done) | time=345ms
[INFO] CPD Executor 1 file had no CPD blocks
[INFO] CPD Executor Calculating CPD for 0 files
[INFO] CPD Executor CPD calculation finished (done) | time=0ms
[INFO] Analysis report generated in 188ms, dir size=82 KB
[INFO] Analysis report compressed in 20ms, zip size=13 KB
[INFO] Analysis report uploaded in 54002ms
[INFO] ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard?id=devops%3ACI-CI-lab2
[INFO] Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
[INFO] More about the report processing at http://localhost:9000/api/ce/task?id=AXQNSgGnCs8Q640r9cum
[INFO] Analysis total time: 2:58.175 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 05:12 min
[INFO] Finished at: 2020-08-21T00:43:09+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /var/lib/jenkins/workspace/CI-CD-lab2/CI-CI-lab2/pom.xml to devops/CI-CI-lab2/0.0.1-SNAPSHOT/CI-CI-lab2-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving /var/lib/jenkins/workspace/CI-CD-lab2/CI-CI-lab2/target/CI-CI-lab2-0.0.1-SNAPSHOT.jar to devops/CI-CI-lab2/0.0.1-SNAPSHOT/CI-CI-lab2-0.0.1-SNAPSHOT.jar
channel stopped
Finished: SUCCESS
```

Page generated: Aug 21, 2020, 12:39:01 AM IST REST API Jenkins 2.235.2

Applications ▾ Places ▾ Firefox ESR ▾ Fri Aug 21 12:45 AM • Projects - Mozilla Firefox

How to setup | (13) SSL | Polymorphis | What Are Po | resource | how to make | G how to m | (13) Port | CI-CD-le | CI-CD-le | Project X | spring bo | +

localhost:9000/projects

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sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration ? Search for projects... + A

My Favorites All Perspective: Overall Status Sort by: Name Search by project name or key 1 projects Home

Filters

Quality Gate

Status	Count	Grade
Passed	1	A
Failed	0	

Reliability (Bugs)

Grade	Count
A	1
B	0
C	0
D	0
E	0

Security (Vulnerabilities)

Grade	Count
A	1
B	0
C	0
D	0
E	0

CI-CI-lab2 Passed

Last analysis: August 21, 2020, 12:41 AM

0 A Bugs | 0 A Vulnerabilities | - A Hotspots Reviewed | 2 A Code Smells | 0.0% Coverage | 0.0% Duplications | 15 XS 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

Applications ▾ Places ▾ Firefox ESR ▾ Fri Aug 21 12:45 AM • CI-CI-lab2 - Mozilla Firefox

How to setup | (13) SSL | Polymorphis | What Are Po | resource | how to make | G how to m | (13) Port | CI-CD-le | CI-CD-le | Project X | spring bo | +

localhost:9000/dashboard?id=devops%3ACI-CI-lab2

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sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration ? Search for projects... + A

CI-CI-lab2 master

Overview Issues Security Hotspots Measures Code Activity Project Settings Project Information

QUALITY GATE STATUS

Passed
All conditions passed.

MEASURES

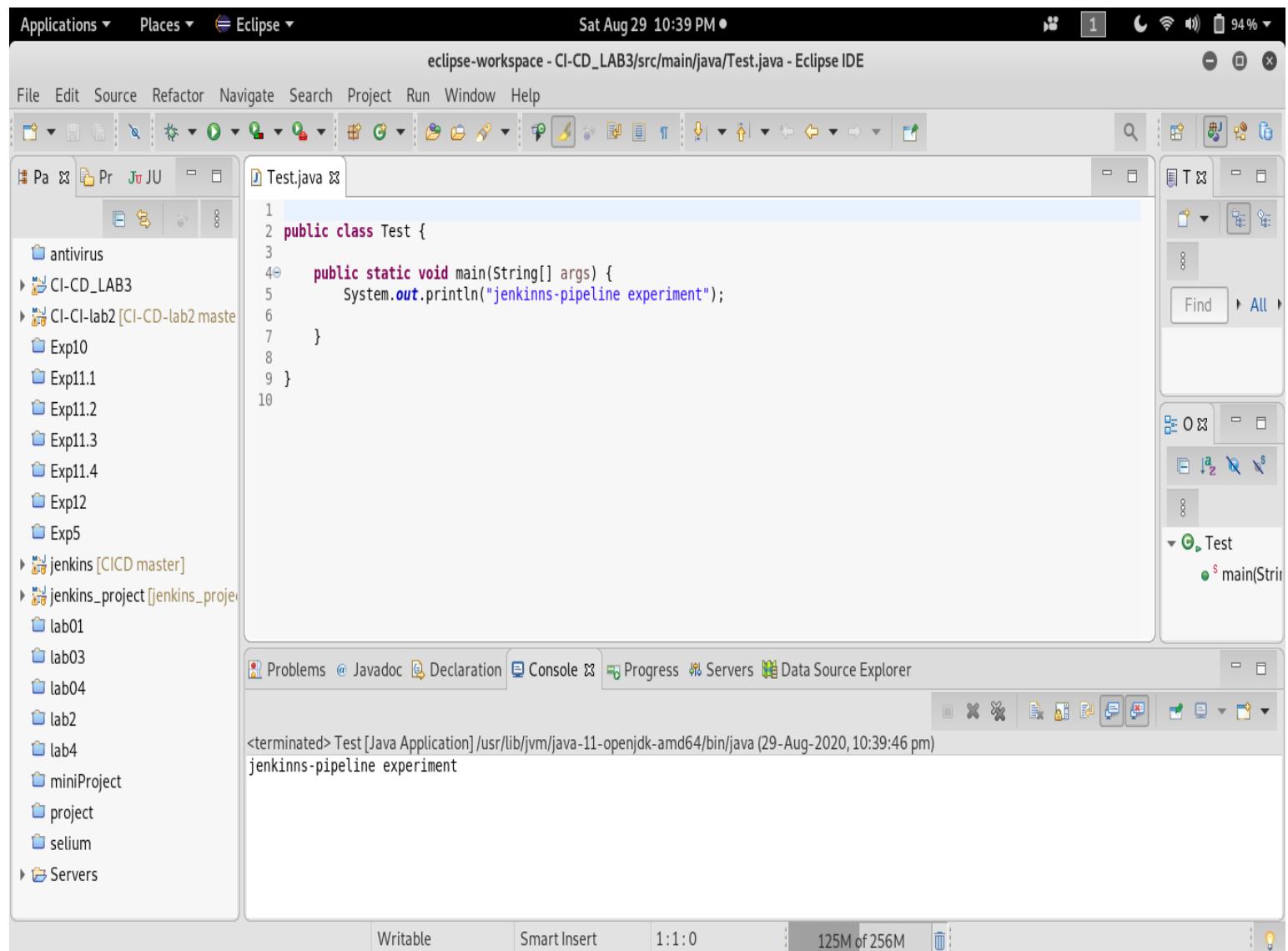
Measure Type	Count	Grade
Bugs	0	A
Vulnerabilities	0	A
Security Hotspots	0	
Code Smells	2	A

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

Reliability: A | Security: A | Security Review: A | Maintainability: A

EXPERIMENT-6

AIM: Create pipeline using Jenkins



Sat Aug 29 10:42 PM •

nipunsingal7/cicd-lab3 - Mozilla Firefox

https://github.com/nipunsingal7/cicd-lab3/tree/master

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

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags Go to file Add file Code

nipunsingal7 second commit df6f722 now 2 commits

src/main/java first commit 6 minutes ago
target/classes first commit 6 minutes ago
Jenkinsfile second commit now
pom.xml first commit 6 minutes ago

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%

Sun Aug 30 1:19 AM •

cicd-lab3/Jenkinsfile at master · nipunsingal7/cicd-lab3 - Mozilla Firefox

https://github.com/nipunsingal7/cicd-lab3/blob/master/Jenkinsfile

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```
33 lines (20 sloc) | 709 Bytes
```

```
1 pipeline{
2   agent any
3
4   stages{
5
6     stage('clean')
7     { steps{
8       sh 'mvn clean'
9     }
10
11   }
12
13
14   stage('test')
15   { steps{
16     sh 'mvn test'
17   }
18
19   }
20
21
22   stage('build')
23   { steps{
24     sh 'mvn install'
25   }
26
27   }
28
29 }
30
31 }
```

Sun Aug 30 1:18 AM • 1 62% ●

Pipeline ci-cd-lab3

[Recent Changes](#)

Stage View

	Declarative: Checkout SCM	clean	test	build
	3s	6s	6s	2s
#3 Aug 30 01:18	2s	3s	5s	4s
#2 Aug 30 01:14	3s	9s	6s	3s
#1 Aug 29 22:48	4s	8s	6s	308ms

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

[Add description](#) [Disable Project](#)

Build History

trend	Aug 30, 2020, 1:18 AM	Aug 30, 2020, 1:14 AM	Aug 29, 2020, 10:48 PM
find	1 commit	1 commit	No Changes
H3	Aug 30, 2020, 1:18 AM		
H2		Aug 30, 2020, 1:14 AM	
H1			Aug 29, 2020, 10:48 PM

[Atom feed for all](#) [Atom feed for failures](#)

Permalinks

EXPERIMENT-7

AIM: Create pipeline using Blue Ocean plugin

The screenshot shows a Firefox browser window with the address bar displaying <https://github.com/nipunsingal7/blueOcean/tree/master>. The page content is a GitHub repository for 'nipunsingal7/blueOcean'. The repository has 1 branch and 0 tags. It contains one commit from 'nipunsingal7' labeled 'first commit' at commit hash 2cdfe6f, made 'now'. A 'README' button is visible. The 'About' section notes 'No description, website, or topics provided.' The 'Releases' section indicates 'No releases published' and 'Create a new release'. The 'Packages' section shows 'No packages published' and 'Publish your first package'.

Applications ▾ Places ▾ Firefox ESR ▾

Tue Sep 15 11:28 AM

nipunsingal7/blueOcean - Mozilla Firefox

what is salting in Computer Gras Blackboard Le Continuous Jenkins nipunsingal7

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

nipunsingal7 / blueOcean

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags Go to file Add file Code

nipunsingal7 first commit 2cdfe6f now 1 commits

Jenkinsfile first commit now

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

The screenshot shows a Mozilla Firefox browser window with the title "New personal access token - Mozilla Firefox". The address bar displays the URL https://github.com/settings/tokens/new?scopes=repo,read:user,user:email,write:repo,repo:status,repo_deployment,public_repo,repo:invite,security_events. The main content area is titled "New personal access token" and contains instructions about personal access tokens. A sidebar on the left lists "GitHub Apps", "OAuth Apps", and "Personal access tokens", with "Personal access tokens" currently selected. A note section contains the text "blueocean" in a text input field. Below it, a question "What's this token for?" is followed by a "Select scopes" section. This section lists several OAuth scopes with checkboxes: "repo" (checked), "repo:status" (checked), "repo_deployment" (checked), "public_repo" (checked), "repo:invite" (checked), "security_events" (checked), and "write:packages" (unchecked). Descriptions for each scope are provided to the right.

Tue Sep 15 11:41 AM

New personal access token - Mozilla Firefox

what is salting | Computer | Blackboard | Continuous | Jenkins | New per session | Personal Address Book | +

what is salting | Computer | Blackboard | Continuous | Jenkins | New per session | Personal Address Book | +

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

Settings / Developer settings

GitHub Apps

OAuth Apps

Personal access tokens

New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Note

blueocean

What's this token for?

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input type="checkbox"/> write:packages	Upload packages to github package registry

Performing a TLS handshake to github.com...

Tue Sep 15 11:44 AM

jenkins / newblueocean / #1 - Mozilla Firefox

localhost:8080/blue/organizations/jenkins/newblueocean/detail/master/1/pipeline

what is salting in | Computer Games | Blackboard Learning | Continuous Integration | jenkins / newblueocean | Personal Access

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✓ newblueocean 1

Branch: master 14s No changes
Commit: 0a423f3 a few seconds ago Branch indexing

Pipeline Changes Tests Artifacts Logout

Start clean test build End

build - <1s

mvn install – Print Message

mvn install

EXPERIMENT-8

AIM: Implementing Master/Slave architecture in Jenkins

The screenshot shows a Firefox browser window with the Jenkins interface. The address bar indicates the URL is `localhost:8080/computer/new`. The main content area is titled "Nodes". A sidebar on the left lists navigation options: Back to Dashboard, Manage Jenkins, New Node, Configure Clouds, and Node Monitoring. The "New Node" option is selected. In the center, a form is being filled for a new node named "slave1". The "Permanent Agent" type is selected, with a description explaining it adds a plain, permanent agent to Jenkins. Below the form, the "Build Queue" section shows "No builds in the queue." and the "Build Executor Status" section shows "1 Idle" and "2 Idle". At the bottom right, there is footer information: "Page generated: Sep 12, 2020, 3:24:11 PM IST", "REST API", and "Jenkins 2.235.2".

Applications ▾ Places ▾ Firefox ESR ▾ Sat Sep 12 3:24 PM 13 % ▾ Jenkins Firefox

localhost:8080/computer/new ... 🔍 search ? 4 nipunsingal log out

Jenkins Nodes

Back to Dashboard Manage Jenkins New Node Configure Clouds Node Monitoring

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.

Build Queue

No builds in the queue.

Build Executor Status

1 Idle
2 Idle

Page generated: Sep 12, 2020, 3:24:11 PM IST REST API Jenkins 2.235.2

Sat Sep 12 3:26 PM

Jenkins Firefox

localhost:8080/computer/createlitem

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Jenkins Nodes

[Back to Dashboard](#)

[Manage Jenkins](#)

[New Node](#)

[Configure Clouds](#)

[Node Monitoring](#)

Build Queue
No builds in the queue.

Build Executor Status
1 Idle
2 Idle

Name: slave1

Description: slave1

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

[Advanced...](#)

Sat Sep 12 3:32 PM

root@anonymous:~# service jenkins start

root@anonymous:~# cd Downloads

root@anonymous:~/Downloads# java -jar agent.jar <jnlpUrl http://localhost:8080/computer/slave1/slave-agent.jnlp -secret f470e8e224313dbf917cde787c18c76cafd3c52f47562c9a85df44426390ab15 -workDir "/root/Documents/jenkins_slave/"

Sep 12, 2020 3:31:33 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir

INFO: Using /root/Documents/jenkins_slave/remoting as a remoting work directory

Sep 12, 2020 3:31:34 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging

INFO: Both error and output logs will be printed to /root/Documents/jenkins_slave/remoting

Sep 12, 2020 3:31:37 PM hudson.remoting.jnlp.Main createEngine

INFO: Setting up agent: slave1

Sep 12, 2020 3:31:37 PM hudson.remoting.jnlp.Main\$CuiListener <init>

INFO: Jenkins agent is running in headless mode.

Sep 12, 2020 3:31:37 PM hudson.remoting.Engine startEngine

Sep 12, 2020 3:31:37 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir

INFO: Using /root/Documents/jenkins_slave/remoting as a remoting work directory

Sep 12, 2020 3:31:37 PM hudson.remoting.jnlp.Main\$CuiListener status

INFO: Locating server among [http://localhost:8080/]

Sep 12, 2020 3:31:37 PM org.jenkinsci.remoting.engine.JnlpAgentEndpointResolver resolve

INFO: Remoting server accepts the following protocols: [JNLP4-connect, Ping]

Sep 12, 2020 3:31:37 PM hudson.remoting.jnlp.Main\$CuiListener status

INFO: Agent discovery successful

Agent address: localhost

Agent port: 43955

Identity: 9b:e3:ac:e7:86:b6:e0:ba:95:aa:4d:72:f0:9b:e7:91

Sep 12, 2020 3:31:37 PM hudson.remoting.jnlp.Main\$CuiListener status

INFO: Handshaking

Sep 12, 2020 3:31:37 PM hudson.remoting.jnlp.Main\$CuiListener status

INFO: Connecting to localhost:43955

Sep 12, 2020 3:31:37 PM hudson.remoting.jnlp.Main\$CuiListener status

INFO: Trying protocol: JNLP4-connect

Sep 12, 2020 3:31:38 PM hudson.remoting.jnlp.Main\$CuiListener status

INFO: Remote identity confirmed: 9b:e3:ac:e7:86:b6:e0:ba:95:aa:4d:72:f0:9b:e7:91

Sep 12, 2020 3:31:38 PM hudson.remoting.jnlp.Main\$CuiListener status

INFO: Connected

Sat Sep 12 3:32 PM

Nodes [Jenk] Mozilla Firefox

localhost:8080/computer/ Continuous Integration Nodes [Jenkins]

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Jenkins

Back to Dashboard Manage Jenkins New Node Configure Clouds Node Monitoring

Build Queue No builds in the queue.

Build Executor Status

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	master	Linux (amd64)	In sync	19.29 GB	9.92 GB	19.29 GB	0ms
	slave1	Linux (amd64)	In sync	19.29 GB	9.92 GB	19.29 GB	251ms
	Data obtained	5.1 sec	4.9 sec	4.8 sec	4.8 sec	4.8 sec	4.9 sec

Refresh status

Sat Sep 12 3:38 PM

CICD_lab5 Config Mozilla Firefox

localhost:8080/job/CICD_lab5/configure Continuous Integration CICD_lab5 Config nipunsingal7/CI-CD- I

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Jenkins > CICD_lab5 >

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

Post-build Actions

Restrict where this project can be run

Label Expression slave1

Label slave1 is serviced by 1 node. Permissions or other restrictions provided by plugins may prevent this job from running on those nodes.

Advanced...

Source Code Management

None Git

Repositories

Repository URL	https://github.com/nipunsingal7/CI-CD-lab2.git
Credentials	- none - Add
Advanced...	
Add Repository	

Branches to build

Branch Specifier (blank for 'any') */master

Save Apply Add Branch

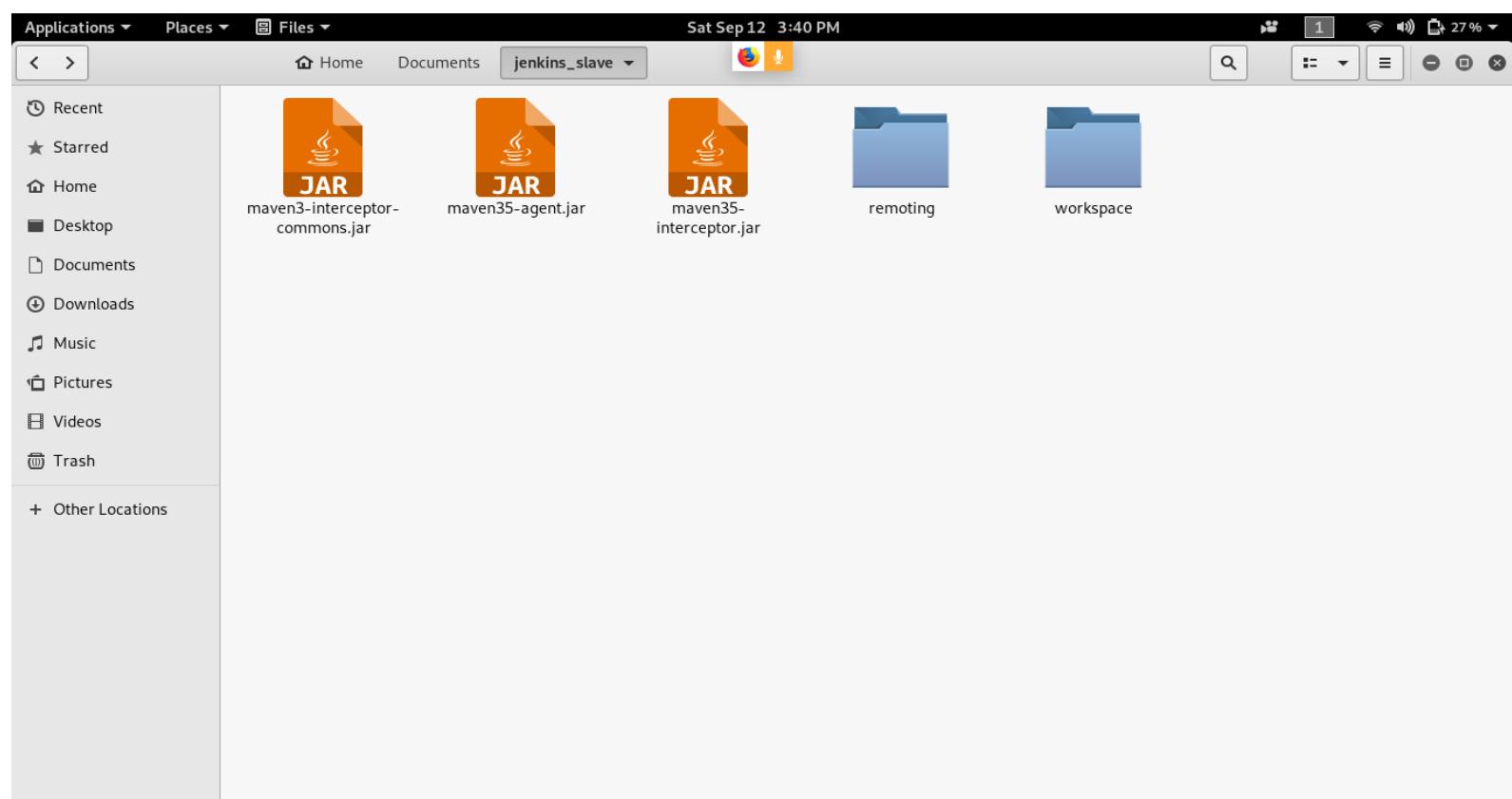
Sat Sep 12 3:40 PM

CICD_lab5 #1 Consol - Mozilla Firefox

localhost:8080/job/CICD_lab5/1/console

```
[CI-CI-lab2] $ /usr/bin/java -cp /root/Documents/jenkins_slave/maven3-agent.jar:/usr/share/maven/boot/plexus-classworlds-2.x.jar:/usr/share/maven/conf/logging jenkins.maven3.agent.Maven3Main /usr/share/maven /root/Downloads/agent.jar /root/Documents/jenkins_slave/maven3-interceptor-commons.jar 37763
<===[JENKINS REMOTING CAPACITY]==>channel started
Executing Maven: -B -f /root/Documents/jenkins_slave/workspace/CICD_lab5/CI-CI-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: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
[INFO]
[INFO] -----< devops:CI-CI-lab2 >-----
[INFO] Building CI-CI-lab2 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ CI-CI-lab2 ---
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.230 s
[INFO] Finished at: 2020-09-12T15:39:59+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /root/Documents/jenkins_slave/workspace/CICD_lab5/CI-CI-lab2/pom.xml to devops/CI-CI-lab2/0.0.1-SNAPSHOT/CI-CI-lab2-0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```

Page generated:
Sep 12, 2020, 3:38:44 PM IST REST API Jenkins 2.235.2



EXPERIMENT-9

AIM: Using Terraform for creating the instances on AWS

The screenshot shows the AWS Management Console homepage within a Firefox browser window. The URL in the address bar is <https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2>. The browser's top bar includes the date and time (Tue Sep 1 1:38 PM), battery level (41%), and various icons. The AWS logo is visible in the top left of the console page.

AWS Management Console

AWS services

Find Services
You can enter names, keywords or acronyms.
Example: Relational Database Service, database, RDS

▼ Recently visited services
Billing

► All services

Build a solution
Get started with simple wizards and automated workflows.

Stay connected to your AWS resources on-the-go

Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)

Explore AWS

AWS Training
Build your cloud skills with virtual classes and free digital courses—all from the convenience of home. [Learn more](#)

RDS Read Replicas
Achieve scale and low-latency for read-heavy workloads with RDS Read Replicas. [Learn more](#)

Applications ▾ Places ▾ Firefox ESR ▾ Tue Sep 1 1:48 PM •

IAM Management Console - Mozilla Firefox

https://console.aws.amazon.com/iam/home?#users

Add user Delete user

Find users by username or access key

Showing 1 result

User name	Groups	Access key age	Password age	Last activity	MFA
terrafoam_user	None	None	None	None	Not enabled

Identity and Access Management (IAM)

Dashboard

Access management

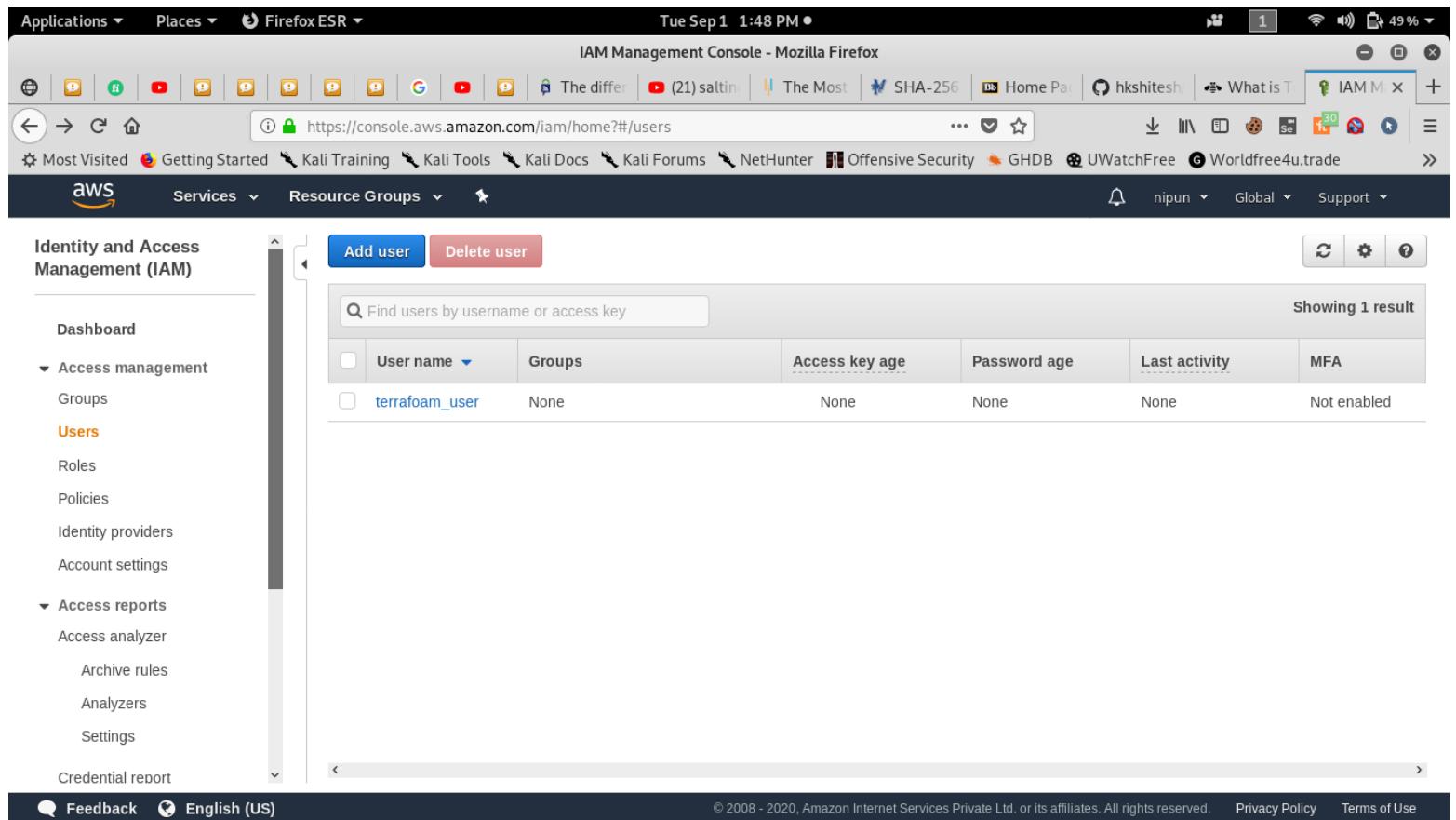
- Groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings

Credential report

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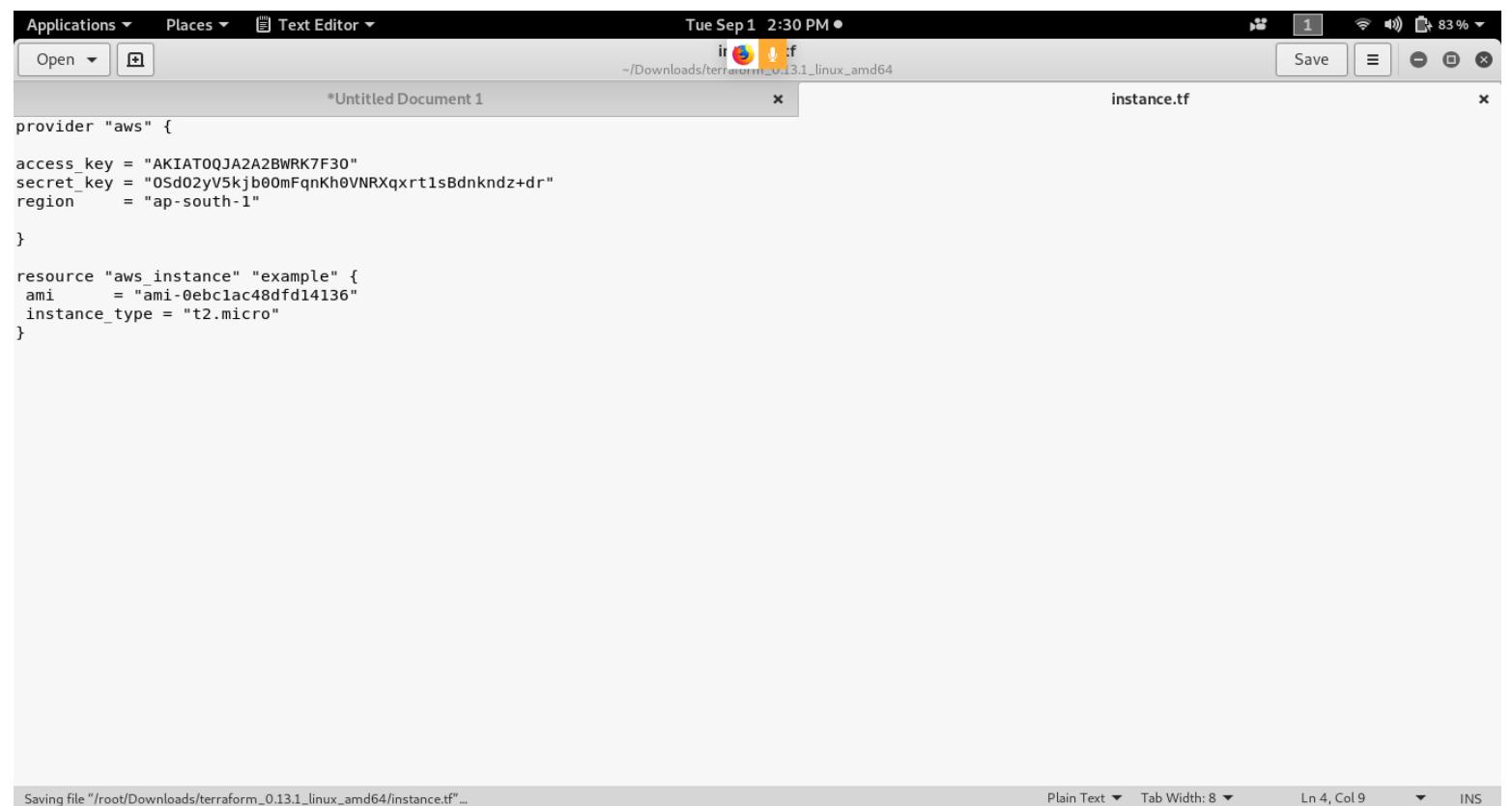
Applications ▾ Places ▾ Text Editor ▾ Tue Sep 1 2:30 PM •

Untitled Document 1 instance.tf

```
provider "aws" {  
  access_key = "AKIATOQJA2A2BWRK7F30"  
  secret_key = "OSd02yV5kjb00mFqnKh0VNRXqxrtlsBdnkndz+dr"  
  region     = "ap-south-1"  
  
}  
  
resource "aws_instance" "example" {  
  ami      = "ami-0ebc1ac48dfd14136"  
  instance_type = "t2.micro"  
}
```

Saving file "/root/Downloads/terraform_0.13.1_linux_amd64/instance.tf"...

Plain Text Tab Width: 8 Ln 4, Col 9 INS



The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes 'Applications', 'Places', and the current tab 'Firefox ESR'. The date and time 'Tue Sep 1 3:15 PM' are displayed. The main title is 'Instances | EC2 Management Console - Mozilla Firefox'. The left sidebar has sections for 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances' (selected), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', and 'Images'. The main content area shows a single instance: 'i-017fdd85f66150f1a' (t2.micro, ap-south-1a, running, 2/2 checks, None, ec2-3-6-39-88.ap-south-1.compute.amazonaws.com). The bottom status bar shows the footer with links for 'Feedback', 'English (US)', and legal notices.

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes 'Applications', 'Places', and the current tab 'Firefox ESR'. The title bar reads 'Instances | EC2 Management Console - Mozilla Firefox'. The main content area displays a table of instances. A single row is selected, showing details for an instance with ID i-017fdd85f66150f1a, which is a t2.micro type in the ap-south-1 availability zone, currently terminated. The status checks are listed as 'None'. Below the table, a detailed view for the selected instance is shown, including its description (Instance ID: i-017fdd85f66150f1a, Public DNS: -), status (terminated), type (t2.micro), and network information (Public DNS (IPv4): -, IPv4 Public IP: -, IPv6 IPs: -, Elastic IPs: -). The left sidebar contains navigation links for 'EC2 Dashboard', 'Events', 'Tags', 'Limits', and sections for 'Instances' (including 'Instances Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations'), and 'Images' (AMIs).

Applications ▾ Places ▾ Terminal ▾

Tue Sep 1 3:17 PM •

root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64

+ volume_id = (known after apply)
+ volume_size = (known after apply)
+ volume_type = (known after apply)

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aws Services Resource Groups Plan: 1 to add, 0 to change, 0 to destroy.

New EC2 Experience Tell us what you think

Note: You didn't specify an "-out" parameter to save this plan, so Terraform can't guarantee that exactly these actions will be performed if "terraform apply" is subsequently run.

You are using the following Amazon EC2 resources In the Asia Pacific (Mumbai) Region:

root@anonymous:~/Downloads/terraform_0.13.1_linux_amd64# ./terraform apply

An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
+ : create

Terraform will perform the following actions:

aws_instance.example will be created
+ resource "aws_instance" "example" {
+ ami = "ami-0ebclac48dfd14136"
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ get_password_data = (known after apply)
+ host_id = (known after apply)
+ id = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = (known after apply)
+ outpostArn = (known after apply)}

To get started with your new EC2 instance, which is a virtual server in the cloud.

Account attributes

Elastic IPs 0
Snapshots 0
Load balancers 0
Security groups 1

Supported platforms ▾

- VPC

Default VPC ▾

vpc-9a29cff1

Settings

EBS encryption

Zones

Default credit specification

Console experiments

Explore AWS

Save up to 90% on EC2 with Spot Instances

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```
Applications ▾ Places ▾ Terminal ▾ Tue Sep 1 3:17 PM • 1 97%
root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64# ./terraform apply
Plan: 1 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.
Enter a value: yes
aws_instance.example: Creating...
aws_instance.example: Still creating... [10s elapsed]
aws_instance.example: Still creating... [20s elapsed] Amazon EC2 resources in the Asia Pacific (Mumbai) Region
aws_instance.example: Creation complete after 25s [id=i-017fdd85f66150f1a]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
root@anonymous:~/Downloads/terraform_0.13.1_linux_amd64# ./terraform destroy
aws_instance.example: Refreshing state... [id=i-017fdd85f66150f1a]

An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
- destroy
- launch
- update
Terraform will perform the following actions:
# aws_instance.example will be destroyed
- resource "aws_instance" "example" {
  ami_launch_index = "ami-0ebc1ac48dfd14136" -> null
  arn              = "arn:aws:ec2:ap-south-1:237315870772:instance/i-017fdd85f66150f1a" -> null
  associate_public_ip_address = true -> null
  availability_zone = "ap-south-1a" -> null
  cpu_core_count    = 1 -> null
  cpu_threads_per_core = 1 -> null
  disable_api_termination = false -> null
  ebs_optimized     = false -> null
  get_password_data = false -> null
  hibernation       = false -> null
  id                = "i-017fdd85f66150f1a" -> null
}

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Explore AWS
Save up to 90% on EC2 with Spot Instances

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```

EXPERIMENT-10

AIM: Uploading artifacts on Nexus server using command line

The screenshot shows a Firefox browser window with the address bar set to `localhost:8081/#admin/repository/repositories`. The main content is the Sonatype Nexus Repository Manager interface. On the left, a sidebar titled 'Administration' lists various management options like 'Repository', 'Blob Stores', 'Repositories' (which is selected and highlighted in green), 'Content Selectors', 'Cleanup Policies', 'Routing Rules', 'Security', 'Privileges', 'Roles', 'Users', 'Anonymous', 'LDAP', 'Realms', 'SSL Certificates', and 'IQ Server'. The main panel title is 'Repositories / Select Recipe / Create Repository: maven2 (hosted)'. The configuration form includes fields for 'Name' (set to 'cicd-nexus'), 'Online' (checkbox checked), and sections for 'Maven 2' (with 'Version policy' set to 'Snapshot' and 'Layout policy' set to 'Strict'). The 'Storage' section shows 'Blob store' set to 'default' and 'Strict Content Type Validation' checked. The top status bar indicates it's Saturday, September 26, at 1:20 PM.

Sat Sep 26 1:20 PM

Repositories - Nexus Rep Manager - Mozilla Firefox

localhost:8081/#admin/repository/repositories

Sonatype Nexus Repository Manager OSS 3.18.1-01

Administration

- Repository
- Blob Stores
- Repositories**
- Content Selectors
- Cleanup Policies
- Routing Rules

Storage

Blob store: default

Strict Content Type Validation:

Hosted

Deployment policy: Allow redeploy

Cleanup Policy

Available cleanup policies: None

Create repository Cancel

The screenshot shows the 'Create Repository' dialog for 'maven2 (hosted)'. The 'Storage' section has 'default' selected as the blob store. Under 'Hosted', the 'Deployment policy' is set to 'Allow redeploy'. In the 'Cleanup Policy' section, there is a dropdown menu showing 'None'. At the bottom are 'Create repository' and 'Cancel' buttons.

Sat Sep 26 1:20 PM

Repositories - Nexus Rep Manager - Mozilla Firefox

localhost:8081/#admin/repository/repositories

Sonatype Nexus Repository Manager OSS 3.18.1-01

Administration

- Repository
- Blob Stores
- Repositories**
- Content Selectors
- Cleanup Policies
- Routing Rules

Repositories

Name ↑	Type	Format	Status	URL	Health check	IQ Policy Violat...
cicd-nexus	hosted	maven2	Online			
maven-central	proxy	maven2	Online - Ready to Connect			
maven-public	group	maven2	Online			
maven-releases	hosted	maven2	Online			
maven-snapshots	hosted	maven2	Online			
nuget-group	group	nuget	Online			
nuget-hosted	hosted	nuget	Online			
nuget.org-proxy	proxy	nuget	Online - Ready to Connect			

The screenshot shows a list of repositories in the 'Repositories' section. The table includes columns for Name, Type, Format, Status, URL, Health check, and IQ Policy Violations. The 'Health check' column contains icons: green circles for most entries and a blue 'Analyze' button for the maven-central proxy entry. The 'IQ Policy Violations' column contains icons: green circles for most entries and a blue 'Analyze' button for the nuget.org-proxy proxy entry.

Applications ▾ Places ▾ Text Editor ▾ Sat Sep 26 1:30 PM

*\$ ml
/usr/share/maven/conf

Save

```
| a unique name within the system (referred to by the id attribute below).  
  
| NOTE: You should either specify username/password OR privateKey/passphrase, since these pairings are  
| used together.  
  
<server>  
<id>deploymentRepo</id>  
<username>repouser</username>  
<password>repopwd</password>  
</server>  
-->  
  
<!-- Another sample, using keys to authenticate.  
<server>  
<id>siteServer</id>  
<privateKey>/path/to/private/key</privateKey>  
<passphrase>optional; leave empty if not used.</passphrase>  
</server>  
-->  
  
<server>  
<id>nexus-cicd</id>  
<username>admin</username>  
<password>admin</password>  
</server>  
</servers>  
  
<!-- mirrors  
| This is a list of mirrors to be used in downloading artifacts from remote repositories.  
  
| It works like this: a POM may declare a repository to use in resolving certain artifacts.  
| However, this repository may have problems with heavy traffic at times, so people have mirrored  
| it to several places.  
  
| That repository definition will have a unique id, so we can create a mirror reference for that  
| repository, to be used as an alternate download site. The mirror site will be the preferred  
| server for that repository.  
-->
```

XML ▾ Tab Width: 8 ▾ Ln 137, Col 29 ▾ INS

Applications ▾ Places ▾ Terminal ▾ Sat Sep 26 1:36 PM

root@anonymous:~/eclipse-workspace/lab03# mvn 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: All illegal access operations will be denied in a future release target
[INFO] Scanning for projects...
[INFO] [INFO] -----< Devops:lab03 >-----
[INFO] Building lab03 0.0.1-SNAPSHOT
[INFO] Downloads [jar]-----
[INFO] [INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ lab03 ---
[INFO] Deleting /root/eclipse-workspace/lab03/target
[INFO] [INFO] -----
[INFO] BUILD SUCCESS
[INFO] [INFO] -----
[INFO] Total time: 1.377 s
[INFO] Finished at: 2020-09-26T13:34:57+05:30
[INFO] [INFO] -----
root@anonymous:~/eclipse-workspace/lab03# mvn install

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] -----< Devops:lab03 >-----
[INFO] Building lab03 0.0.1-SNAPSHOT
[INFO] Downloads [jar]-----
[INFO] [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ lab03 ---
[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) @ lab03 ---

Sat Sep 26 1:36 PM

```

root@anonymous: /eclipse-workspace/lab03
[INFO] Installing /root/eclipse-workspace/lab03/pom.xml to /root/.m2/repository/Devops/lab03/0.0.1-SNAPSHOT/lab03-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 6.488 s
[INFO] Finished at: 2020-09-26T13:35:17+05:30
[INFO] -----
[INFO] mvn deploy
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] -----< Devops:lab03 >-----
[INFO] Building lab03 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ lab03 ---
[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) @ lab03 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ lab03 ---
[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) @ lab03 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ lab03 ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ lab03 ---

```

Sat Sep 26 1:39 PM

Browse - Nexus Repos Manager - Mozilla Firefox