NIPUN SINGAL
R171218069
500069052

CICD LAB FILE

EXPERIMENT-11

AIM: Jenkins Integration with Nexus
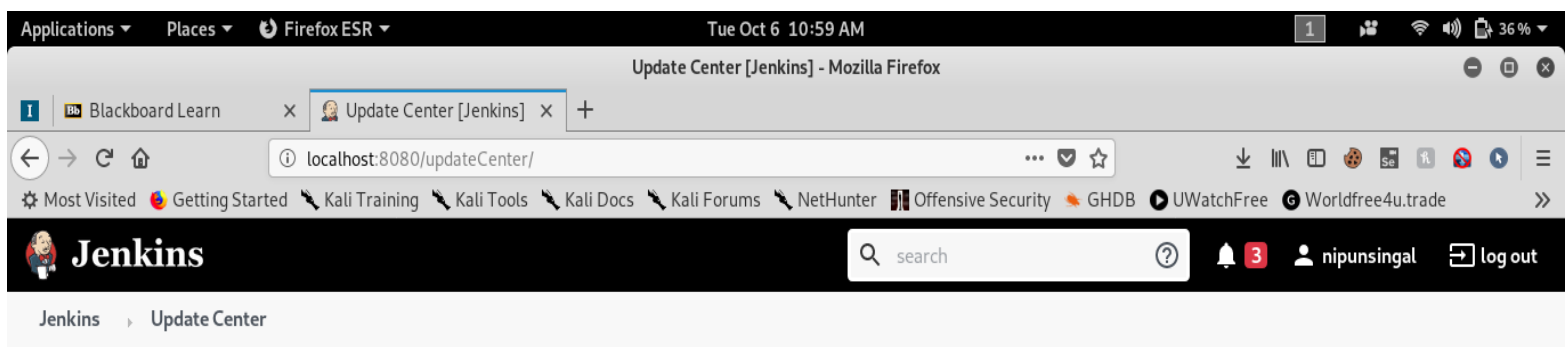
I   📋 Blackboard Learn   ✕ │ ▶ Continuous Integration 🔊 ✕ │ 👤 Global Tool Configuration ✕   +

← → C ⟳ 🏠   ⓘ localhost:8080/configureTools/   ⋯ 🗹 ☆   ↓ �III ▯ 🐞 🖼 ▯ 🔴 ◐ ☰

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Jenkins › Global Tool Configuration

🔧 Manage Jenkins

Maven Configuration

Default settings provider

| Use default maven settings | ▾ |

Default global settings provider

| Use default maven global settings | ▾ |

JDK

JDK installations

[Add JDK]

⦚ JDK

Name

| jdk 1.8 |

JAVA_HOME

| /usr/lib/jvm/java-8-openjdk-amd64 |

☐ Install automatically   ❓

[Delete JDK]

[Add JDK]

List of JDK installations on this system

[Save] [Apply]

🌐 Welcome - Nexus Reposi ✕ │ 👤 Configure System [Jenkin ✕   +

← → C ⟳ 🏠   ⓘ localhost:8080/configure   ⋯ 🗹 ☆   ↓ �III ▯ 🐞 🖼 ▯ 🔴 ◐ ☰

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Jenkins › configuration

Sonatype Nexus

Nexus Repository Manager Servers

Nexus Repository Manager 3.x Server

Display Name

| nexus-cicd |

Server ID

| nexus-cicd | ❓

Server URL

| http://localhost:8081/ |

Credentials

| admin/****** | ▾ | [🔑 Add ▾]

Nexus Repository Manager 3.x connection succeeded   [Test connection]

⚠ NXRM OSS 3.18.1-01 found. Some operations require Nexus Repository Manager Professional server version 3.13.0 or newer; use of an incompatible server could result in failed builds.

[Delete]

[Add Nexus Repository Manager Server ▾]

Nexus IQ Server

[Add Nexus IQ Server ▾]

Build-timeout Plugin > BuildStep Action

[Save] [Apply]

New Item [Jenkins] - Mozilla Firefox   ⊖ ⊡ ⊗

🔵 Welcome - Nexus Repos ✕ │ 🔵 New Item [Jenkins]   ✕ │ ➕

← → C ⌂   ⓘ localhost:8080/view/all/newJob   ⋯ ♥ ☆   ↓ II\ ⊡ 🍪 🔧 🔵 🔴 🔵 ☰

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🤖 **Jenkins**   🔍 search   ❓   🔔 **2**   👤 nipunsingal   ➔ log out

Jenkins › All ›

Enter an item name

CICD_lab10

» *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.

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

---

CICD_lab10 Config [Jenkins] - Mozilla Firefox   ⊖ ⊡ ⊗

🔵 Repositories - Nexus Rep ✕ │ 🔵 CICD_lab10 Config [Jenk ✕ │ 🔵 nipunsingal7/cicd-lab3   ✕ │ ➕

← → C ⌂   ⓘ localhost:8080/job/CICD_lab10/configure   ⋯ ♥ ☆   ↓ II\ ⊡ 🍪 🔧 🔵 🔴 🔵 ☰

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Jenkins › CICD_lab10 ›

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

Post-build Actions

Build

Root POM	pom.xml	❓
Goals and options	deploy	❓

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**

☐ E-mail Notification

Screenshot 1: Jenkins Console Output

CICD_lab10 #1 Console [Jenkins] - Mozilla Firefox

Repositories - Nexus Rep ×   CICD_lab10 #1 Console ×   nipunsingal7/cicd-lab3 ×   +

localhost:8080/job/CICD_lab10/1/console

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Jenkins   →   CICD_lab10   →   #1

```
CD_LAB3-0.0.1-20201006.073319-1.jar (1.9 KB at 167 B/s)
[INFO] Uploading to nexus-cicd: http://localhost:8081/repository/cicd-lab10/CICD_lab/CI-CD_LAB3/0.0.1-SNAPSHOT/CI-
CD_LAB3-0.0.1-20201006.073319-1.pom
[INFO] Uploaded to nexus-cicd: http://localhost:8081/repository/cicd-lab10/CICD_lab/CI-CD_LAB3/0.0.1-SNAPSHOT/CI-
CD_LAB3-0.0.1-20201006.073319-1.pom (696 B at 125 B/s)
[INFO] Downloading from nexus-cicd: http://localhost:8081/repository/cicd-lab10/CICD_lab/CI-CD_LAB3/maven-metadata.xml
[INFO] Uploading to nexus-cicd: http://localhost:8081/repository/cicd-lab10/CICD_lab/CI-CD_LAB3/0.0.1-SNAPSHOT/maven-
metadata.xml
[INFO] Uploaded to nexus-cicd: http://localhost:8081/repository/cicd-lab10/CICD_lab/CI-CD_LAB3/0.0.1-SNAPSHOT/maven-
metadata.xml (768 B at 505 B/s)
[INFO] Uploading to nexus-cicd: http://localhost:8081/repository/cicd-lab10/CICD_lab/CI-CD_LAB3/maven-metadata.xml
[INFO] Uploaded to nexus-cicd: http://localhost:8081/repository/cicd-lab10/CICD_lab/CI-CD_LAB3/maven-metadata.xml (278 B
at 270 B/s)
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  43.798 s
[INFO] Finished at: 2020-10-06T13:03:41+05:30
[INFO] ------------------------------------------------------------------------
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /var/lib/jenkins/workspace/CICD_lab10/pom.xml to CICD_lab/CI-CD_LAB3/0.0.1-SNAPSHOT/CI-
CD_LAB3-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving /var/lib/jenkins/workspace/CICD_lab10/target/CI-CD_LAB3-0.0.1-SNAPSHOT.jar to CICD_lab/CI-CD_LAB3
/0.0.1-20201006.073319-1/CI-CD_LAB3-0.0.1-20201006.073319-1.jar
channel stopped
Finished: SUCCESS
```

Page generated:
Oct 6, 2020 1:02:37 PM IST   REST API   Jenkins 2.235.2

Screenshot 2: Nexus Repository Manager

Repositories - Nexus Repository Manager - Mozilla Firefox

Repositories - Nexus Rep ×   CICD_lab10 #1 Console ×   nipunsingal7/cicd-lab3 ×   +

localhost:8081/#admin/repository/repositories:cicd-lab10

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Sonatype Nexus Repository Manager
OSS 3.18.1-01   Search components   ✓ ⟳ ❓ 👤 admin   Sign out

Administration

▼ 🗄 Repository
    🖥 Blob Stores
    Repositories
    ⊙ Content Selectors
    Cleanup Policies
    Routing Rules

▼ 🛡 Security
    Privileges
    Roles
    Users
    Anonymous
    LDAP
    Realms
    SSL Certificates
    IQ Server

🗄 **Repositories** / 🗄 cicd-lab10

🗑 Delete repository   🔧 Rebuild index

Settings

Name:	cicd-lab10
Format:	maven2
Type:	hosted
URL:	http://localhost:8081/repository/cicd-lab10/
Online:	✓ If checked, the repository accepts incoming requests

Maven 2

Version policy:
  Snapshot

Layout policy:
Validate that all paths are maven artifact or metadata paths
Strict

Storage

Blob store:

Sonatype Nexus Repository Manager
OSS 3.18.1-01

Search components   ✓ ↻ ❓ 👤 admin ⏻ Sign out

Browse

- ◯ Welcome
- ▾ 🔍 Search
  - 🔍 Custom
  - 🔍 Maven
  - 🔍 NuGet
- 🗄 Browse
- ⬆ Upload

Browse / 🗄 cicd-lab10

HTML View   Advanced search...

```
📁 CICD_lab
  📁 CI-CD_LAB3
    📁 0.0.1-SNAPSHOT
      📁 0.0.1-20201006.073319-1
        📄 CI-CD_LAB3-0.0.1-20201006.073319-1.jar
        📄 CI-CD_LAB3-0.0.1-20201006.073319-1.jar.md5
        📄 CI-CD_LAB3-0.0.1-20201006.073319-1.jar.sha1
        📄 CI-CD_LAB3-0.0.1-20201006.073319-1.pom
        📄 CI-CD_LAB3-0.0.1-20201006.073319-1.pom.md5
        📄 CI-CD_LAB3-0.0.1-20201006.073319-1.pom.sha1
      📄 maven-metadata.xml
      📄 maven-metadata.xml.md5
      📄 maven-metadata.xml.sha1
    📄 maven-metadata.xml
    📄 maven-metadata.xml.md5
    📄 maven-metadata.xml.sha1
```

Screenshot 2: Jenkins

Applications ▾   Places ▾   🌀 Firefox ESR ▾   Tue Oct 6 1:05 PM   1   100 %

CICD_lab10 [Jenkins] - Mozilla Firefox

🌐 Browse - Nexus Reposito ✕ | 🔧 CICD_lab10 [Jenkins] ✕ | 🐙 nipunsingal7/cicd-lab3 ✕ | +

localhost:8080/job/CICD_lab10/

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Jenkins › CICD_lab10 ›

Maven project CICD_lab10

📝add description
Disable Project

- 🔼 Back to Dashboard
- 🔍 Status
- 📝 Changes
- 📁 Workspace
- 🔴 Build Now
- 🚫 Delete Maven project
- ⚙ Configure
- 📦 Modules
- ⭐ Favorite
- 🔵 Open Blue Ocean
- 📝 Rename

📁 Workspace

📝 Recent Changes

Permalinks

- Last build (#1), 2 min 45 sec ago
- Last stable build (#1), 2 min 45 sec ago
- Last successful build (#1), 2 min 45 sec ago
- Last completed build (#1), 2 min 45 sec ago

Build History   trend ━

find   ✕

🔵 #1   Oct 6, 2020 1:02 PM

📶 Atom feed for all 📶 Atom feed for failures

🐙 cicd-lab3/pom.xml at ma ×   +

← → C ⌂   ⓘ 🔒 https://github.com/nipunsingal7/cicd-lab3/blob/master/pom.xml   ∨ ··· ☑ ☆

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🟥 **nipunsingal7** update   Latest commit 4f627c9 4 minutes ago   🕘 **History**

👥 **1 contributor**

---

18 lines (17 sloc) | 696 Bytes   Raw | Blame   ✏ 🗑

```
 1  <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https:
 2      <modelVersion>4.0.0</modelVersion>
 3      <groupId>CICD_lab</groupId>
 4      <artifactId>CI-CD_LAB3</artifactId>
 5      <version>0.0.1-SNAPSHOT</version>
 6      <properties>
 7          <maven.compiler.source>1.6</maven.compiler.source>
 8          <maven.compiler.target>1.6</maven.compiler.target>
 9      </properties>
10
11      <distributionManagement>
12      <snapshotRepository>
13      <id>nexus-cicd</id>
14      <name>cicd-lab10</name>
15      <url>http://localhost:8081/repository/cicd-lab10/</url>
16      </snapshotRepository>
17      </distributionManagement>
18      </project>
```