

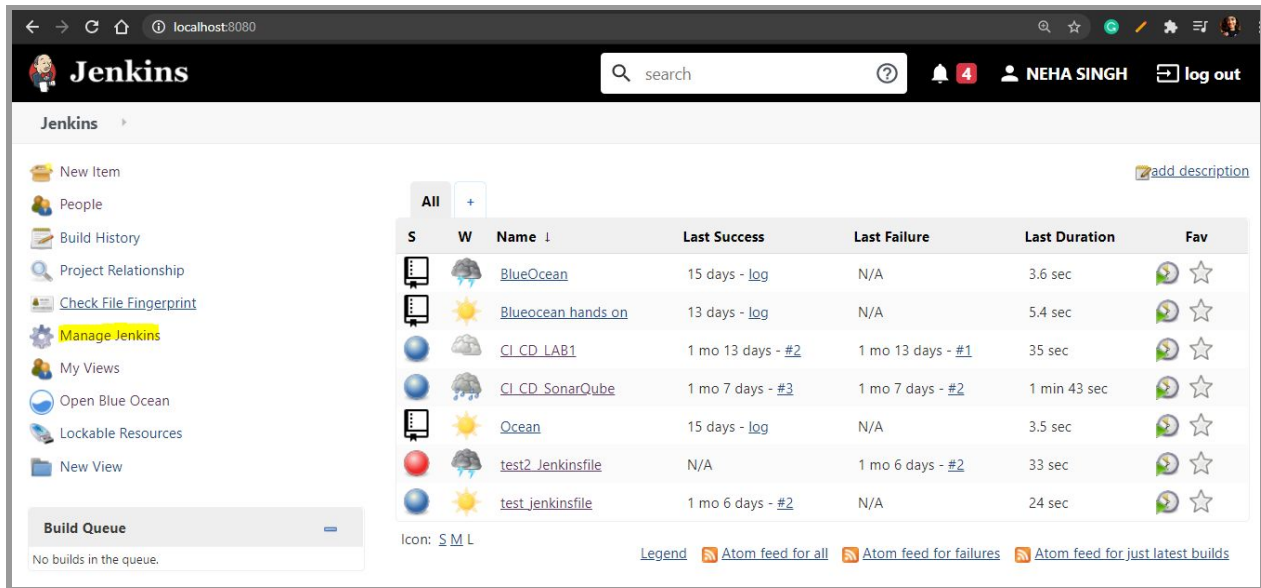
Nexus Integration with Jenkins

~Neha Singh

Prerequisites:

- **Running Nexus**
- **Running Jenkins**
- **GitHub Account**
- **Nexus Account**

Run Jenkins

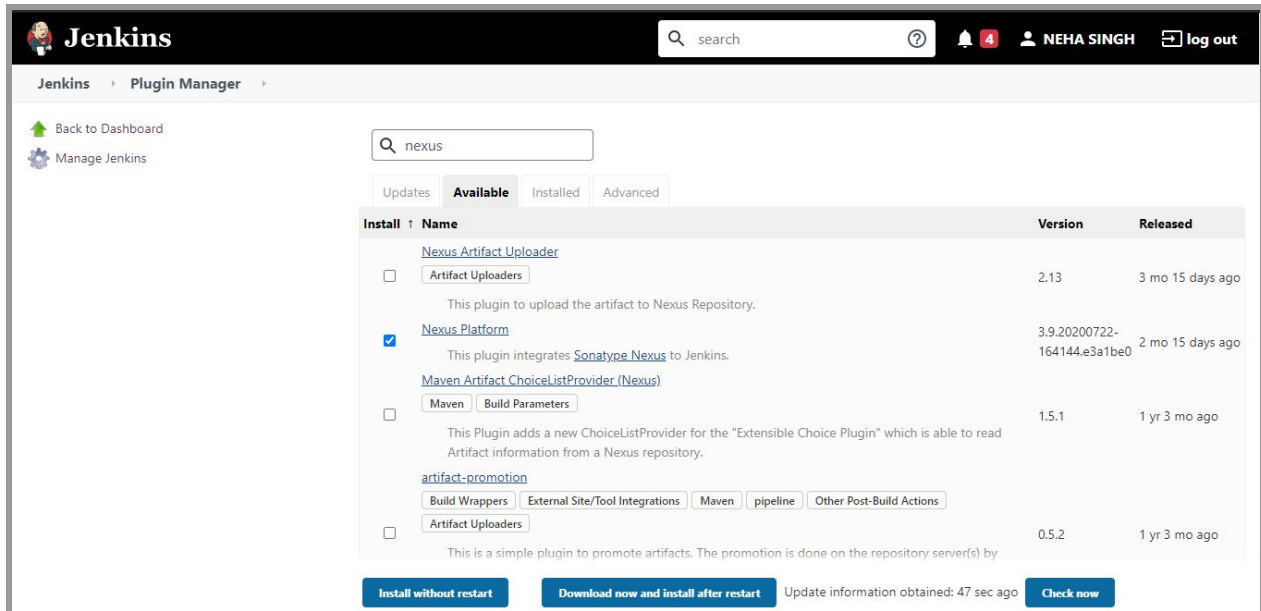


The screenshot shows the Jenkins dashboard at localhost:8080. The top navigation bar includes the Jenkins logo, a search bar, and user information for NEHA SINGH. The left sidebar contains links to various features like New Item, People, Build History, and Manage Jenkins. The main content area displays a table of recent builds.

S	W	Name ↓	Last Success	Last Failure	Last Duration	Fav
		BlueOcean	15 days - log	N/A	3.6 sec	
		Blueocean hands on	13 days - log	N/A	5.4 sec	
		CI CD LAB1	1 mo 13 days - #2	1 mo 13 days - #1	35 sec	
		CI CD SonarQube	1 mo 7 days - #3	1 mo 7 days - #2	1 min 43 sec	
		Ocean	15 days - log	N/A	3.5 sec	
		test2_Jenkinsfile	N/A	1 mo 6 days - #2	33 sec	
		test_jenkinsfile	1 mo 6 days - #2	N/A	24 sec	

Below the table, there are links for 'Icon: S M L', a 'Legend', and 'Atom feed' links for all builds, failures, and latest builds. A 'Build Queue' section at the bottom left shows 'No builds in the queue.'

Install Nexus plugin



The screenshot shows the Jenkins Plugin Manager interface. The search bar contains 'nexus'. The 'Available' tab is selected, showing a list of plugins. The 'Nexus Platform' plugin is checked for installation.

Install	Name	Version	Released
<input type="checkbox"/>	Nexus Artifact Uploader Artifact Uploaders This plugin to upload the artifact to Nexus Repository.	2.13	3 mo 15 days ago
<input checked="" type="checkbox"/>	Nexus Platform This plugin integrates Sonatype Nexus to Jenkins.	3.9.20200722-164144.e3a1be0	2 mo 15 days ago
<input type="checkbox"/>	Maven Artifact ChoiceListProvider (Nexus) Maven Build Parameters This Plugin adds a new ChoiceListProvider for the "Extensible Choice Plugin" which is able to read Artifact information from a Nexus repository.	1.5.1	1 yr 3 mo ago
<input type="checkbox"/>	artifact-promotion Build Wrappers External Site/Tool Integrations Maven pipeline Other Post-Build Actions Artifact Uploaders This is a simple plugin to promote artifacts. The promotion is done on the repository server(s) by	0.5.2	1 yr 3 mo ago

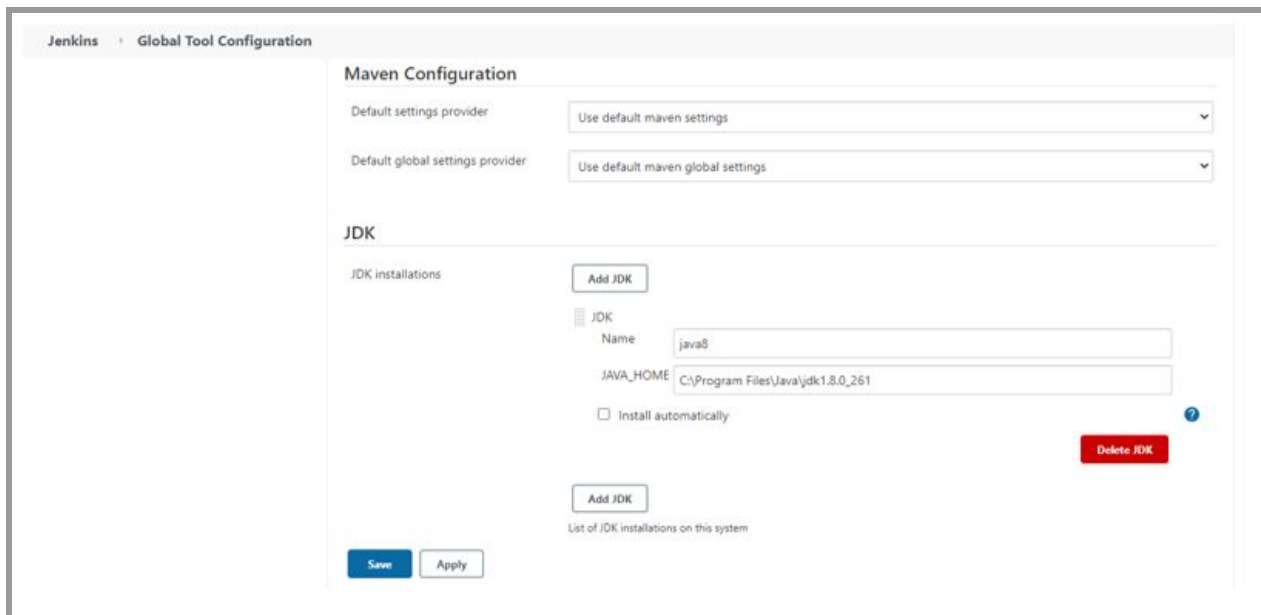
At the bottom, there are buttons for 'Install without restart', 'Download now and install after restart', and 'Check now'. The update information states 'Update information obtained: 47 sec ago'.



The screenshot shows the Jenkins Plugin Manager interface with the 'Installed' tab selected. It displays the installed 'Nexus Artifact Uploader' and 'Nexus Platform Plugin'.

<input checked="" type="checkbox"/>	Nexus Artifact Uploader This plugin to upload the artifact to Nexus Repository.	2.13	Uninstall
<input checked="" type="checkbox"/>	Nexus Platform Plugin This plugin integrates Sonatype Nexus to Jenkins.	3.9.20200722-164144.e3a1be0	Uninstall

Add JDK 1.8 in Global Config



The screenshot shows the Jenkins 'Global Tool Configuration' page. Under the 'Maven Configuration' section, the 'Default settings provider' and 'Default global settings provider' are both set to 'Use default maven settings' and 'Use default maven global settings' respectively. The 'JDK' section is expanded, showing a table with one entry named 'java8' with the 'JAVA_HOME' set to 'C:\Program Files\Java\jdk1.8.0_261'. There are 'Add JDK' and 'Delete JDK' buttons. At the bottom, there are 'Save' and 'Apply' buttons.

Add Nexus Credentials in Manage Jenkins >> Config System >> SonarType Server pom.xml

```
<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 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>Maven_Nexus</groupId>
  <artifactId>Maven_Nexus</artifactId>
  <version>0.1.1-SNAPSHOT</version>

  <properties>
    <maven.compiler.source>1.6</maven.compiler.source>
    <maven.compiler.target>1.6</maven.compiler.target>
  </properties>

  <distributionManagement>
    <snapshotRepository>
      <id>repo1</id>
      <name>repo1</name>
      <url>http://localhost:8081/repository/repo1</url>
    </snapshotRepository>
  </distributionManagement>
</project>
```

Executing nexus.exe

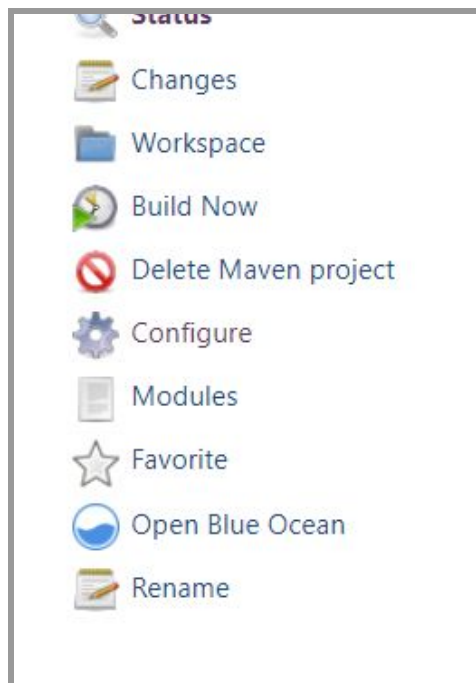
```
C:\Users\Neha>cd C:\Users\Neha\Documents\nexus-3.18.1-01-win64\nexus-3.18.1-01\bin
C:\Users\Neha\Documents\nexus-3.18.1-01-win64\nexus-3.18.1-01\bin>nexus.exe
```

SonarType Execution

The screenshot shows the Jenkins configuration page for Sonatype Nexus. The breadcrumb navigation at the top reads "Jenkins > configuration". The main heading is "Sonatype Nexus". Below it, the section "Nexus Repository Manager Servers" is active. Under this section, there is a sub-section "Nexus Repository Manager 3.x Server" with the following fields: "Display Name" (empty), "Server ID" (set to "Nexus"), "Server URL" (set to "http://localhost:8081/"), and "Credentials" (set to "admin/*****" with an "Add" button). To the right of these fields are "Test connection" and "Delete" buttons. Below the 3.x server section, there are buttons for "Add Nexus Repository Manager Server" and "Add Nexus IQ Server". The "Nexus IQ Server" section is currently empty. At the bottom, the "Build-timeout Plugin > BuildStep Action" section has a checkbox for "Enable BuildStep Action" which is unchecked, and "Save" and "Apply" buttons.

Configure new items accordingly with GitHub account and pom.xml.

Now run your build



Build Success

Jenkins > CI_CD_LAB1 > #2

```
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ ccdLab1.1 ---
[INFO] No tests to run.
[JENKINS] Recording test results
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ ccdLab1.1 ---
[INFO] Building jar: C:\Users\Neha\.jenkins\workspace\CI_CD_LAB1\ccdLab1.1\target\ccdLab1.1-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ ccdLab1.1 ---
[INFO] Installing C:\Users\Neha\.jenkins\workspace\CI_CD_LAB1\ccdLab1.1\target\ccdLab1.1-0.0.1-SNAPSHOT.jar to
C:\Users\Neha\.m2\repository\DEVOPS\ccdLab1.1\0.0.1-SNAPSHOT\ccdLab1.1-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\Neha\.jenkins\workspace\CI_CD_LAB1\ccdLab1.1\pom.xml to
C:\Users\Neha\.m2\repository\DEVOPS\ccdLab1.1\0.0.1-SNAPSHOT\ccdLab1.1-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 8.520 s
[INFO] Finished at: 2020-08-18T14:49:55+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\Neha\.jenkins\workspace\CI_CD_LAB1\ccdLab1.1\pom.xml to DEVOPS\ccdLab1.1\0.0.1-
SNAPSHOT\ccdLab1.1-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving C:\Users\Neha\.jenkins\workspace\CI_CD_LAB1\ccdLab1.1\target\ccdLab1.1-0.0.1-SNAPSHOT.jar to
DEVOPS\ccdLab1.1\0.0.1-SNAPSHOT\ccdLab1.1-0.0.1-SNAPSHOT.jar
channel stopped
Finished: SUCCESS
```

Page generated: Oct 1, 2020 1:32:01 PM IST REST API Jenkins 2.235.5

You can see all the related files.

Sonatype Nexus Repository Manager OSS 3.18.1-01

Browse

HTML View

CICD_LAB7

Advanced search...

0.0.1-SNAPSHOT

0.0.1-20200927140102-1

ccd_lab7-0.0.1-20200927140102-1.jar

ccd_lab7-0.0.1-20200927140102-1.jar.md5

ccd_lab7-0.0.1-20200927140102-1.jar.sha1

ccd_lab7-0.0.1-20200927140102-1.pom

ccd_lab7-0.0.1-20200927140102-1.pom.md5

ccd_lab7-0.0.1-20200927140102-1.pom.sha1

0.0.1-20201006.060647-2

ccd_lab7-0.0.1-20201006.060647-2.jar

ccd_lab7-0.0.1-20201006.060647-2.jar.md5

ccd_lab7-0.0.1-20201006.060647-2.jar.sha1

ccd_lab7-0.0.1-20201006.060647-2.pom

ccd_lab7-0.0.1-20201006.060647-2.pom.md5

ccd_lab7-0.0.1-20201006.060647-2.pom.sha1

maven-metadata.xml

maven-metadata.xml.md5

maven-metadata.xml.sha1

maven-metadata.xml

maven-metadata.xml.md5

maven-metadata.xml.sha1

Implementation of all experiments.
Jenkins(Basics)