

Experiment No. 10

Nexus Integration with Jenkins

Install plugins:

Installing Plugins/Upgrades


Preparation


- Checking internet connectivity
- Checking update center connectivity
- Success


Nexus Platform  Failure - [Details](#)

Loading plugin extensions  Success


Nexus Platform  Success

Nexus Artifact Uploader  Success

Loading plugin extensions  Success

 [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

Configure jdk path:



Global Tool Configuration

Maven Configuration

Default settings provider

Default global settings provider

JDK

JDK installations

 JDK

Name

JAVA_HOME

☐ Install automatically

List of JDK installations on this system

Git

Git installations

 Git

Name

Configure nexus repository manager server:

Sonatype Nexus

Nexus Repository Manager Servers

Nexus Repository Manager 3.x Server

Display Name nexus1

Server ID nexus1

Server URL http://localhost:8083

Credentials admin/*****

Add

Add Nexus Repository Manager Server

Nexus IQ Server

Add Nexus IQ Server

Build-timeout Plugin > BuildStep Action

☐ Enable BuildStep Action

Git plugin

Global Config user name Value

Save

Apply

Upload maven project on github:

master

1 branch

0 tags

Go to file

Add file

Code



AkanshA0 commit 1

ad4a6fe 24 seconds ago 1 commits



src

commit 1

24 seconds ago



pom.xml

commit 1

24 seconds ago

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

Add a README

In pom.xml

```
<distributionManagement>
<snapshotRepository>
<id>lab9</id>
<name>repo1_cicd_lab</name>
<url>http://localhost:8083/repository/jenkins_nexus_cicd_lab/</url>
</snapshotRepository>
</distributionManagement>
```

Create and configure maven project on Jenkins:

Source Code Management

☐ None
☒ Git

Repositories

Repository URL

Credentials

Branches to build

Branch Specifier (blank for 'any')

Repository browser

Pre Steps

Build

Root POM

Goals and options

onsole output:

```
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\akkan\.jenkins\workspace\nexus-jenkins\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ app-on-nexus ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to C:\Users\akkan\.jenkins\workspace\nexus-jenkins\target\classes
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ app-on-nexus ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\akkan\.jenkins\workspace\nexus-jenkins\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ app-on-nexus ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to C:\Users\akkan\.jenkins\workspace\nexus-jenkins\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ app-on-nexus ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.036 s - in com.mycompany.app.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[JENKINS] Recording test results
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ app-on-nexus ---
[INFO] Building jar: C:\Users\akkan\.jenkins\workspace\nexus-jenkins\target\app-on-nexus-1.0-SNAPSHOT.jar
```

On nexus server:

The screenshot shows the Sonatype Nexus Repository Manager interface. The top bar includes the Sonatype logo, version 3.18.1-01, a search bar, and user information for 'admin'. The left sidebar has a 'Browse' section with options like 'Welcome', 'Search', 'Custom', 'Maven', 'NuGet', 'Browse' (selected), and 'Upload'. The main content area shows the 'jenkins_nexus_cicd_lab' repository. Under the 'com' package, there is a 'mycompany' package, then an 'app' package, and finally an 'app-on-nexus' package. Under 'app-on-nexus', there is a '1.0-SNAPSHOT' version. This version contains several Maven metadata files: 'maven-metadata.xml', 'maven-metadata.xml.md5', 'maven-metadata.xml.sha1', and 'maven-metadata.xml'. The 'HTML View' tab is selected, showing a tree structure of these files.