

Demo 1: Install Jfrog Artifactory in Lab

Use the SL lab machine to install and set up Jfrog Artifactory

Connect to the lab -> go to the terminal

Execute below commands:

=====

```
# sudo su -
```

```
# mkdir myartifactory
```

```
# cd myartifactory
```

```
# wget https://jfrog.bintray.com/artifactory/jfrog-artifactory-oss-6.9.6.zip
```

```
# unzip jfrog-artifactory-oss-6.9.6.zip
```

```
# cd jfrog-artifactory-oss-6.9.6
```

```
# cd bin
```

```
# ./artifactory.sh start
```

Go to your lab browser and give the URL

localhost:8081

You will be on the Jfrog Artifactory page

Login with below credentials:

Username: admin

Password: password

Create a local repository on Jfrog

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Click on Admin → Click on local repo

Select maven and give

Repository Key : libs-release-local → click on save

Create a remote repository on Jfrog

=====

Click on Admin → Click on remote repo

Select maven and give

Repository Key : libs-release-remote → save it

=====

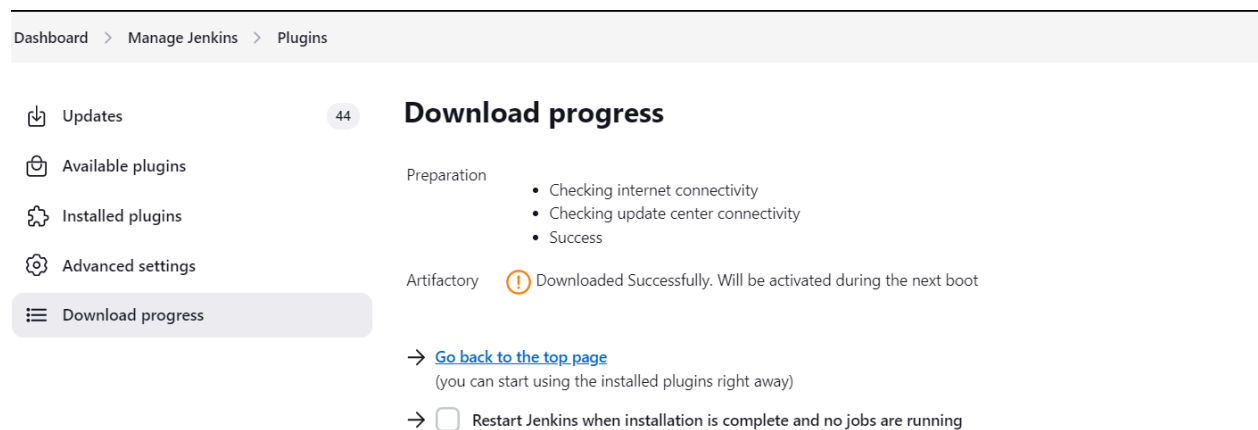
Demo 2: Integrating JFROG with Jenkins using artifactory jenkins plugin

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Go to the laptop browser and access jenkins on : <http://localhost:8080/>

GO to Jenkins → Manage Jenkins → Manage Plugins

Click on Available plugins → search for artifactory → select the checkbox → click on Install



The screenshot shows the Jenkins 'Manage Plugins' interface. The breadcrumb trail at the top reads 'Dashboard > Manage Jenkins > Plugins'. On the left sidebar, the 'Download progress' option is selected. The main content area is titled 'Download progress' and shows the status of the 'Artifactory' plugin. Under the 'Preparation' section, a list of steps is shown: 'Checking internet connectivity', 'Checking update center connectivity', and 'Success'. Below this, a message states 'Artifactory' is 'Downloaded Successfully. Will be activated during the next boot'. At the bottom, there is a link to 'Go back to the top page' and a checkbox labeled 'Restart Jenkins when installation is complete and no jobs are running'.

Dashboard > Manage Jenkins > Plugins

Updates 44

Available plugins

Installed plugins


Advanced settings

Download progress

Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Artifactory  Downloaded Successfully. Will be activated during the next boot

→ [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

If the plugin is sactivated, click on the check box to restart jenkins

Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Artifactory

⚠ Downloaded Successfully. Will be activated during the next boot

Restarting Jenkins

⋮ Running

→ [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

System Configuration:

=====

Use this screenshot to submit the configuration step:

List of JFrog platform instances that projects will want to deploy artifacts and build into

JFrog instance details

Instance ID ?

JFrog Platform URL ?

Advanced Configuration ▾

Default Deployer Credentials

Username ?

Password ?

Found JFrog Artifactory 6.9.6 at http://35.184.106.46:8081/artifactory

Test Connection

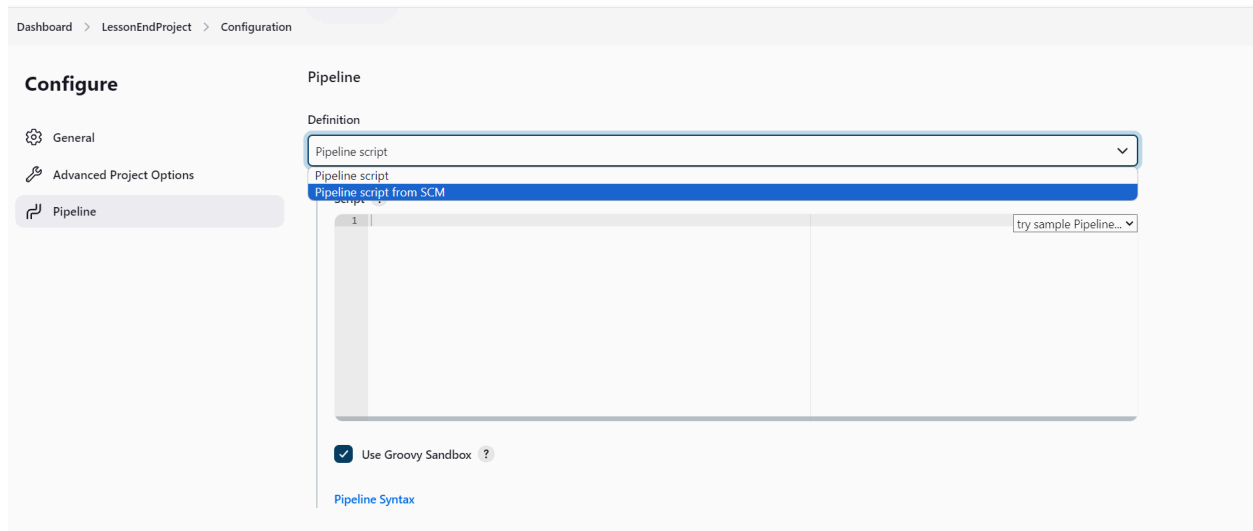
Lesson End project:

=====

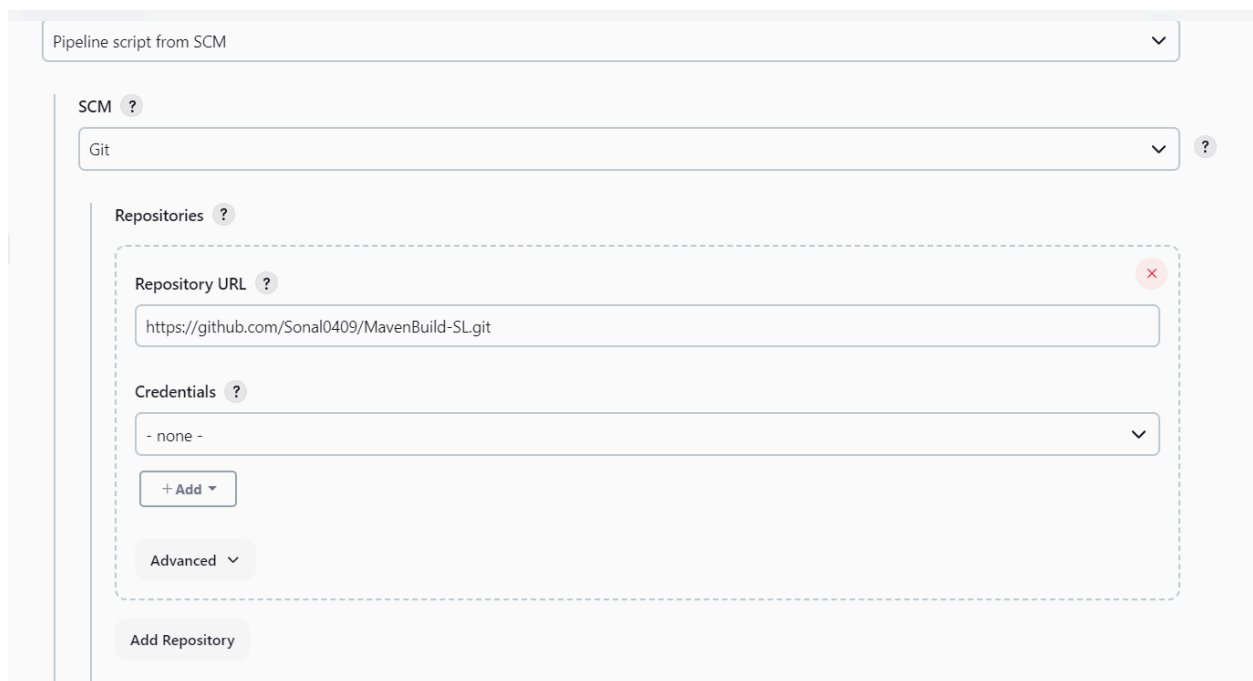
We will create 2 jobs for this scenario:

Job 1: to build the java code using maven and jenkins

We will use jenkins file to run the pipeline

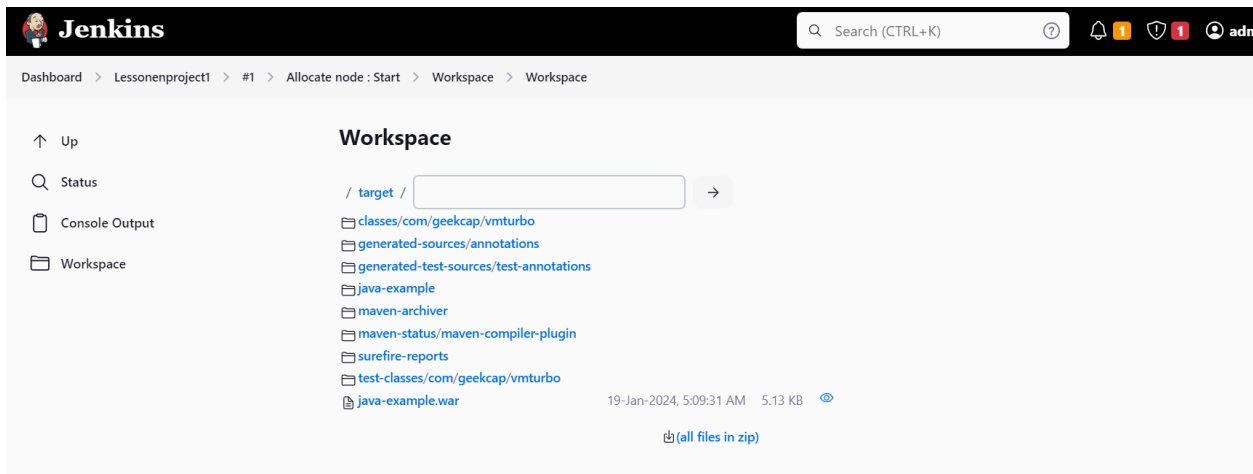


The screenshot shows the Jenkins 'Configure' page for a job named 'LessonEndProject'. The 'Pipeline' tab is selected in the left sidebar. The 'Definition' section has a dropdown menu open, showing three options: 'Pipeline script', 'Pipeline script', and 'Pipeline script from SCM'. The 'Pipeline script from SCM' option is highlighted. Below the dropdown, there is a text area for the pipeline script, a 'try sample Pipeline...' button, and a checkbox labeled 'Use Groovy Sandbox' which is checked. A 'Pipeline Syntax' link is also visible.



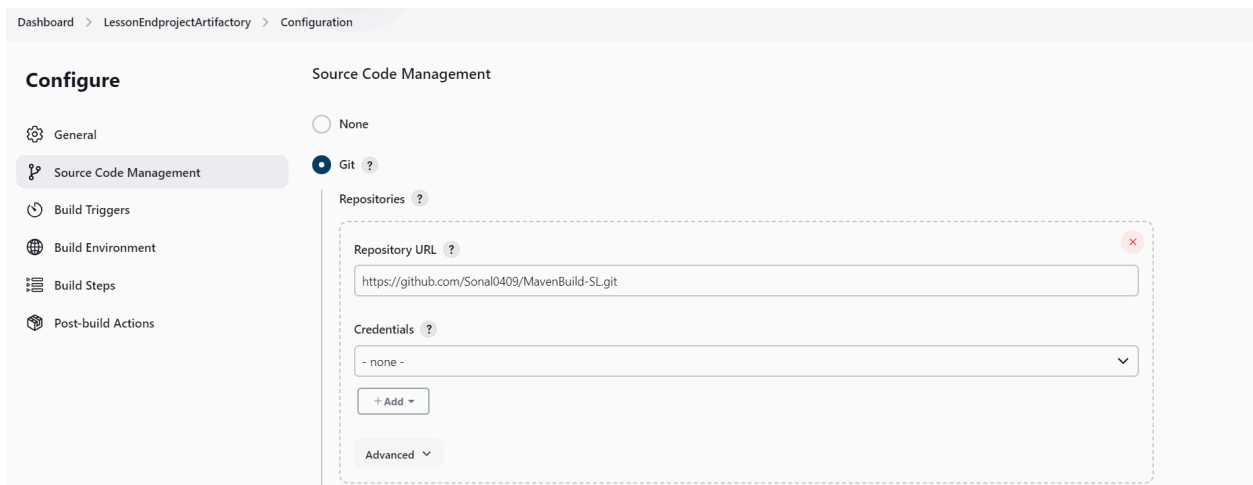
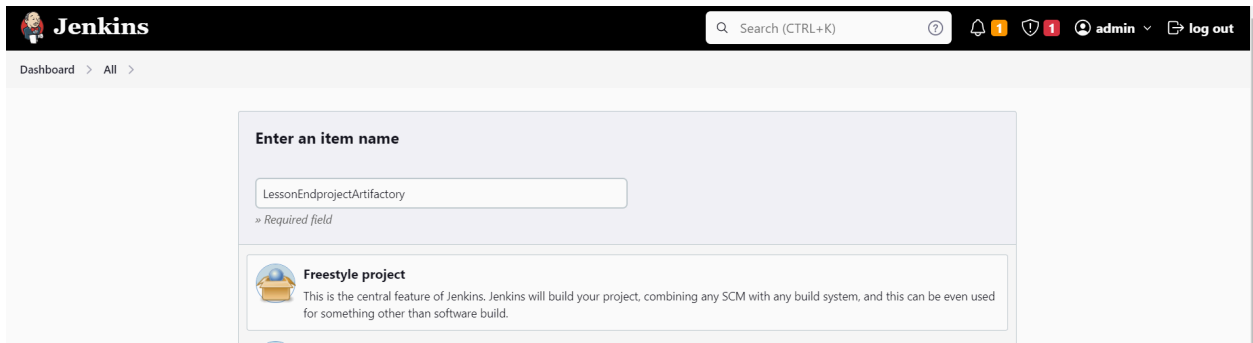
This screenshot shows the 'Pipeline script from SCM' configuration section. The 'SCM' dropdown is set to 'Git'. Under the 'Repositories' section, the 'Repository URL' is set to 'https://github.com/Sonal0409/MavenBuild-SL.git'. The 'Credentials' dropdown is set to '- none -'. There is a '+ Add' button and an 'Advanced' dropdown menu. At the bottom, there is an 'Add Repository' button.

Save and build the job



Create a new job to build and push the artifact on the Artifactory:

=====



Dashboard > LessonEndprojectArtifactory > Configuration

Configure

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

☐ Inspect build log for published build scans

☒ Maven3-Artifactory Integration

Artifactory Configuration

Artifactory server

artinstance1 http://35.184.106.46:8081/artifactory

Target releases repository ?

lib-release-local

Select from List

Target snapshots repository ?

Different Value

Refresh Repositories

☐ Override default credentials

Dashboard > LessonEndprojectArtifactory > Configuration

Configure

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

Build Steps

≡

Invoke Artifactory Maven 3 ?

×

Maven Version

mymaven

Root POM ?

Goals and options ?

clean install

Advanced ▾

Add build step ▾

Save the job and build it



Status



LessonEndprojectArtifactory



Changes



Workspace



Build Now



Configure



Delete Project



Artifactory Build Info



Rename



Artifactory Build Info

Permalinks

- [Last build \(#3\), 3 min 27 sec ago](#)
- [Last stable build \(#3\), 3 min 27 sec ago](#)
- [Last successful build \(#3\), 3 min 27 sec ago](#)
- [Last failed build \(#2\), 5 min 0 sec ago](#)
- [Last unsuccessful build \(#2\), 5 min 0 sec ago](#)
- [Last completed build \(#3\), 3 min 27 sec ago](#)



Build History

trend ▾



Filter builds...



#3

19-Jan-2024, 5:23 AM



```
[/var/lib/jenkins/workspace/LessonEndprojectArtifactory/target/java-example]
[main] INFO org.apache.maven.plugins.war.WarMojo - Processing war project
[main] INFO org.apache.maven.plugins.war.WarMojo - Copying webapp resources [/var/lib/jenkins/workspace/LessonEndprojectArtifactory/src/main/webapp]
[main] INFO org.codehaus.plexus.archiver.war.WarArchiver - Building war: /var/lib/jenkins/workspace/LessonEndprojectArtifactory/target/java-example.war
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger -
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger - --- install:3.1.1:install (default-install) @ java-example ---
[main] INFO org.codehaus.plexus.PlexusContainer - Installing /var/lib/jenkins/workspace/LessonEndprojectArtifactory/pom.xml to
/var/lib/jenkins/.m2/repository/com/java/example/java-example/1.0-SNAPSHOT/java-example-1.0-SNAPSHOT.pom
[main] INFO org.codehaus.plexus.PlexusContainer - Installing /var/lib/jenkins/workspace/LessonEndprojectArtifactory/target/java-example.war to
/var/lib/jenkins/.m2/repository/com/java/example/java-example/1.0-SNAPSHOT/java-example-1.0-SNAPSHOT.war
[main] INFO org.jfrog.build.extractor.maven.BuildDeploymentHelper - Artifactory Build Info Recorder: Saving Build Info to
'/var/lib/jenkins/workspace/LessonEndprojectArtifactory/target/build-info.json'
[main] INFO org.jfrog.build.extractor.maven.ArtifactoryManagerBuilder - Deploying artifact: http://35.184.106.46:8081/artifactory/lib-release-local/com/java/example/java-example/1.0-SNAPSHOT/java-example-1.0-SNAPSHOT.war
[main] INFO org.jfrog.build.extractor.maven.ArtifactoryManagerBuilder - Deploying artifact: http://35.184.106.46:8081/artifactory/lib-release-local/com/java/example/java-example/1.0-SNAPSHOT/java-example-1.0-SNAPSHOT.pom
[main] INFO org.jfrog.build.extractor.maven.BuildDeploymentHelper - Artifactory Build Info Recorder: Deploying build info ...
[main] INFO org.jfrog.build.extractor.maven.ArtifactoryManagerBuilder - Deploying build info...
[main] INFO org.jfrog.build.extractor.maven.ArtifactoryManagerBuilder - Build-info successfully deployed. Browse it in Artifactory under
http://35.184.106.46:8081/artifactory/webapp/builds/LessonEndprojectArtifactory/3
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger - -----
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger - BUILD SUCCESS
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger - -----
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger - Total time: 10.168 s
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger - Finished at: 2024-01-19T05:23:20Z
[main] INFO org.apache.maven.cli.event.ExecutionEventLogger - -----
Finished: SUCCESS
```

JFrog Artifactory

HelpWelcome, admin

Builds - LessonEndprojectArtifactory

< Back to all builds

Build ID

3

Agent

Jenkins/2.426.2

Build Agent

Maven/3.9.6

Started

19 January, 2024 10:53:06

Duration

7.8 seconds

Principal

admin

Artifactory Principal

admin

Published Modules

Environment

Issues

Licenses

Diff

Release History

1 Module

Filter by Module ID

1 out of 1

Module ID

Number Of Artifacts

Number Of Dependencie...

com.java.example:java-example:1.0-SNAPSHOT

2

3

