



Nexus Repository Manager

PSV

Nexus

Repository Manager:

Repository manager allows stores and retrieves the build artifact (Packages and Libraries).

Ex: Sonatype Nexus
Jfrog Artifactory

Nexus:

Nexus is a repository/Artifactory manager, it allows stores and retrieves the build artifacts. A Nexus installation brings you a repository for your company. So we can host own repositories and also use Nexus as a proxy for public repositories. It's allows to host private build artifacts.

Nexus is available as commercial and open source distribution.

Advantages:

- Ability to Deploy 3rd-party Artifacts
- Ability to Host Internal Repositories
- Ability to Host Public Repositories
- Speedier Builds
- Control and Auditing
- Dead simple install (and since 1.2, dead simple upgrade, too)
- Very good web UI
- Faster and more reliable builds
- Improved collaboration
- Component usage visibility
- Enforce components standards
- Controlled sharing with partners
- Ideal repository for robust governance
- Easy to maintain, almost no administrative overhead
- Provides you with RSS feeds of recently installed, broken artifacts and errors
- It can group several repositories so you can mirror several sources but need only one or two entries in your settings.xml
- Deploying from Maven works out of the box (no need for WebDAV hacks, etc).
- You can redirect access paths (i.e. some broken pom.xml requires "a.b.c" from "xxx"). Instead of patching the POM, you can fix the bug in Nexus and redirect the request to the place where the artifact really is.

Disadvantages

- The dependency is lost in case the link changes (if no version is specified within the POM). You are forced to adapt to all changes that are made to the dependency.
- We are not using the latest version of dependencies. You have to manually update dependencies.
- You have to implement the automated update of the repositories.

Types Repositories

1. Proxy Repository
2. Hosted Repository
3. Group Repository

Proxy Repository

- Proxy Repository is a repository that is linked to a remote repository.
- A proxy repository refers to a remote repository. The initial request for a component is forwarded to the remote repository. The component is then retrieved and stored locally in the repository manager, which acts as a cache. Further requests for the same component are fulfilled from the local storage.
- Any request for a component is verified against the local content of the proxy repository. **If no local component is found, the request is forwarded to the remote repository.** The component is then retrieved and stored locally in the repository manager, which acts as a cache.
- Subsequent requests for the same component are then fulfilled from the local storage, therefore eliminating the network bandwidth and time overhead of retrieving the component from the remote repository again.
- By default, the repository manager ships with the following configured proxy repositories:
 - a). maven-central** - Proxy repository accesses the Central Repository, formerly known as Maven Central.
 - b). nuget.org-proxy** - This proxy repository accesses the NuGet Gallery. It is the default component repository used by the nuget package management tool used for .Net development.

Storage

Blob store:

Blob store used to store asset contents

maven-central

Strict Content Type Validation:

☒ Validate that all content uploaded to this repository is of a MIME type appropriate for the repository format

Negative Cache

Not found cache enabled:

☒ Cache responses for content not present in the proxied repository

Not found cache TTL:

How long to cache the fact that a file was not found in the repository (in minutes)

1440

HTTP

☐ Authentication

☐ HTTP request settings

Hosted Repository

- Hosted Repository is a repository that stores components in the repository manager as the authoritative location for those components.
- A repository with the type hosted, also known as a hosted repository, is a repository that **stores components in the repository manager as the authoritative location for these components.**
- By default, the repository manager ships with the following configured hosted repositories:
 - a). **maven-releases** - This hosted repository uses the maven2 repository format with a release version policy. It is **intended to be the repository where your organization publishes internal releases.** You can also use this repository for third-party components that are not available in external repositories and can therefore not be retrieved via a configured proxy repository.
 - b). **maven-snapshots** - Uses the maven2 repository format with a snapshot version policy. It is intended to be the repository where your organization publishes internal development versions, also known as snapshots.
 - c). **nuget-hosted** - It is intended to be the repository where your organization can publish internal releases in repository using the NuGet repository format.

3rd Party

This hosted repository should be used for third-party dependencies not available in the public Maven repositories. Examples of these dependencies could be commercial,




proprietary libraries such as an Oracle JDBC driver that may be referenced by your organization.

Releases

This hosted repository is where your organization will publish internal releases.

Snapshots

This hosted repository is where your organization will publish internal snapshots

 **Repositories** /  **Select Recipe** /  **Create Repository: maven2 (hosted)**

Name: A unique identifier for this repository

Online: ☒ If checked, the repository accepts incoming requests

Maven 2

Version policy:
What type of artifacts does this repository store?

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

Storage

Blob store:
Blob store used to store asset contents

Strict Content Type Validation:
☒ Validate that all content uploaded to this repository is of a MIME type appropriate for the repository format

For release, follow the same configuration done for snapshots except Name, Version policy and Deployment policy.

Name: A unique identifier for this repository

Maven 2

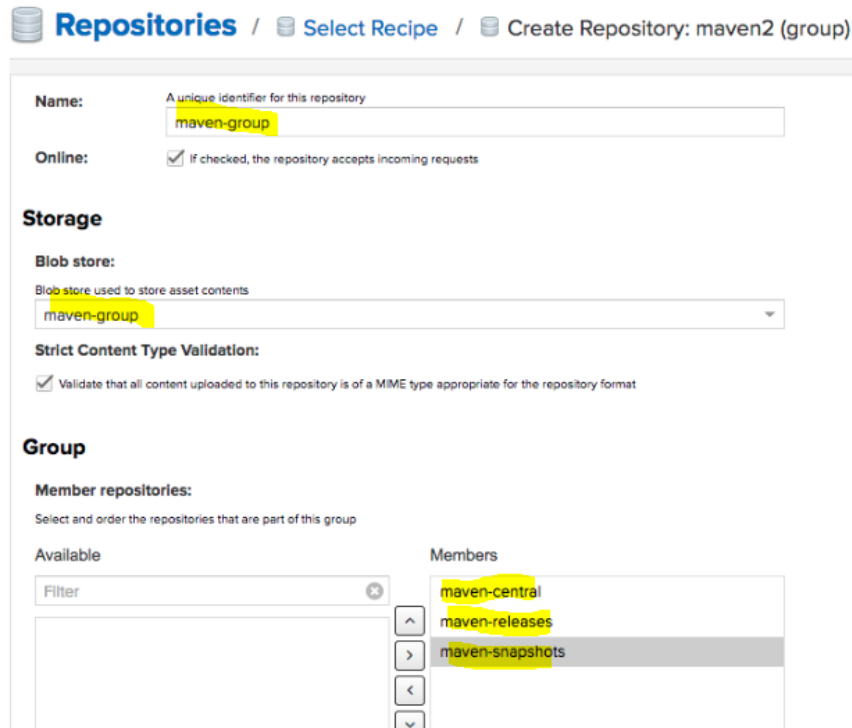
Version policy:
What type of artifacts does this repository store?

Hosted

Deployment policy:
Controls if deployments of and updates to artifacts are allowed

Group Repository

- Group Repository is a collection of other repositories, Where we can combine multiple repositories of the same format into a single item.



The screenshot shows the 'Create Repository' page for a group repository named 'maven-group'. The page has a breadcrumb trail: 'Repositories / Select Recipe / Create Repository: maven2 (group)'. The 'Name' field is 'maven-group'. The 'Online' checkbox is checked. Under 'Storage', the 'Blob store' is 'maven-group' and 'Strict Content Type Validation' is checked. Under 'Group', 'Member repositories' are listed: 'maven-central', 'maven-releases', and 'maven-snapshots'.

Repositories / **Select Recipe** / **Create Repository: maven2 (group)**

Name: A unique identifier for this repository
maven-group

Online: ☒ If checked, the repository accepts incoming requests

Storage

Blob store:
Blob store used to store asset contents
maven-group

Strict Content Type Validation:
☒ Validate that all content uploaded to this repository is of a MIME type appropriate for the repository format

Group

Member repositories:
Select and order the repositories that are part of this group

Available
Filter

Members
maven-central
maven-releases
maven-snapshots

Installation

Ubuntu

1. Install the java 1.8+ version

```
sudo apt-get update
```

```
sudo add-apt-repository ppa:openjdk-r/ppa
```

```
sudo apt-get install openjdk-8-jdk
```

```
/usr/lib/jvm/java-8-openjdk-amd64/bin
```

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

2. Download the maven 3.6+ version

```
cd /opt
```

```
sudo wget https://www-eu.apache.org/dist/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.tar.gz
```

```
sudo tar -xvf apache-maven-3.6.3-bin.tar.gz
```

```
sudo mv apache-maven-3.6.3 maven
sudo chmod 777 -R maven
3. Set the path in root level
cd /etc/profile.d
vi paths.sh
JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export JAVA_HOME
MAVEN_HOME=/opt/maven
export MAVEN_HOME
PATH=$PATH:$JAVA_HOME/bin:$MAVEN_HOME/bin
export PATH
```

4. Download the sonatype binaries in below url.

```
cd /opt
sudo wget https://download.sonatype.com/nexus/3/latest-unix.tar.gz
sudo tar -xvf latest-unix.tar.gz
sudo chmod 777 -R nexus-3.20.1-01/
sudo chmod 777 -R sonatype-work/
```

```
drwxrwxrwx  9 root root    4096 Feb  9 06:28 nexus-3.20.1-01/
drwxrwxrwx  3 root root    4096 Feb  9 06:28 sonatype-work/
```

5. Start the sonar server

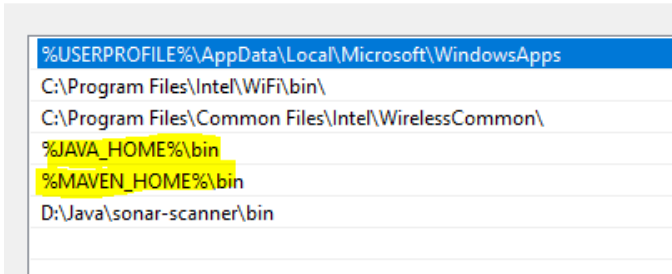
```
cd /opt/nexus-3.20.1-01/bin
./nexus start (OR) ./nexus run (OR) ./nexus \run
```

6. Test the server

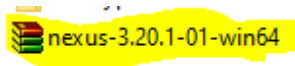
<http://<IP-Address>:8081/>

Windows

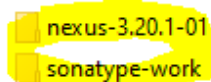
1. Install java and maven set to the path.



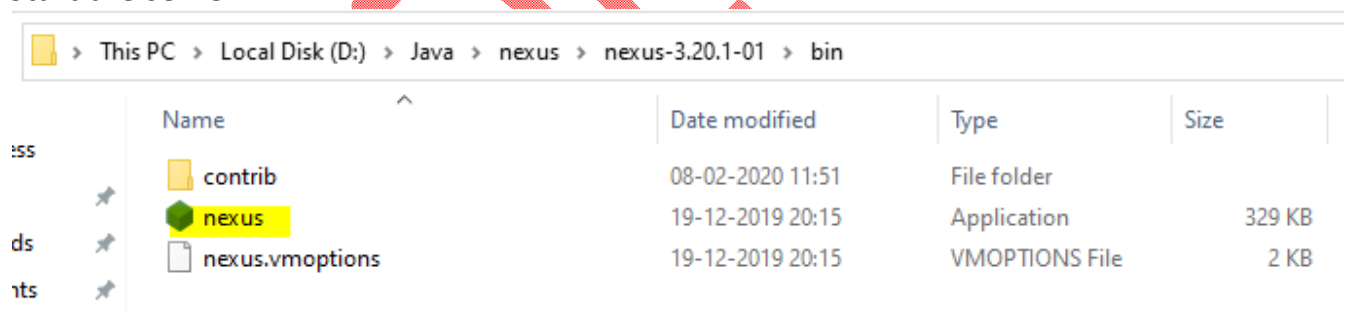
2. Download and extract the sonatype binaries in below url.
<https://download.sonatype.com/nexus/3/latest-win64.zip>



Extract:

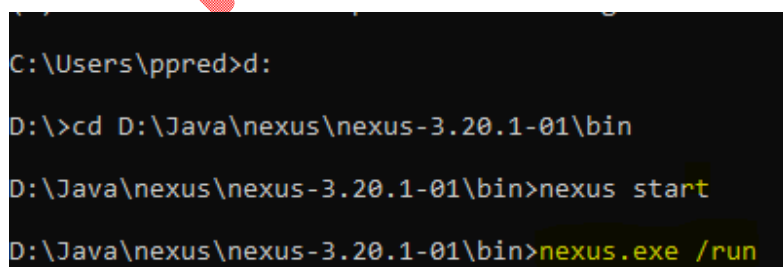


3. Start the server



Open the command prompt run the below command.

➤ `nexus.exe /run`



4. Test the server

<http://localhost:8081/>

Nexus Directory Structure

The installation directory having below directories:

bin
deploy
etc
lib
public
system

bin: Contains the nexus startup script itself as well as startup-related configuration files.

etc: Contains configuration files.
















lib: Contains binary libraries related to Apache Karaf.

public: Contains public resources of the application.

system: Contains all components and plugins that constitute the application.

Data Directory

The data directory, found by default at ../sonatype-work/nexus3, includes subdirectories that contain all the components, repositories, configurations and other data presented by the repository manager. The subdirectories are listed as:

	blobs	08-02-2020 11:56	File folder	
	cache	09-02-2020 08:13	File folder	
	db	08-02-2020 11:55	File folder	
	elasticsearch	08-02-2020 12:53	File folder	
	etc	08-02-2020 11:54	File folder	
	generated-bundles	08-02-2020 11:54	File folder	
	instances	08-02-2020 11:54	File folder	
	keystores	08-02-2020 11:55	File folder	
	log	09-02-2020 00:00	File folder	
	orient	08-02-2020 11:51	File folder	
	restore-from-backup	08-02-2020 11:55	File folder	
	tmp	09-02-2020 00:02	File folder	
	karaf.pid	09-02-2020 08:10	PID File	1 KB
	lock	09-02-2020 08:10	File	0 KB
	port	09-02-2020 08:10	File	1 KB

blobs/

This is the default location of the blob store. If you provided a fully qualified path when creating a new blob store, it may not end up in this directory.

cache/

This directory contains information on currently cached Karaf bundles

db/

This directory contains the OrientDB databases which are the primary storage for your repository manager's metadata

elasticsearch/

This directory contains the currently configured state of Elasticsearch

etc/

This directory contains the main runtime configuration and customization of the repository manager.

health-check/

This directory contains cached reports from the Repository Health Check feature

keystores/

This contains the automatically generated key used to identify your repository manager

log/

This directory contains several log files that capture information about various aspects of the running repository manager. The nexus.log and request.log files are rotated every day so this directory also contains archived copies of these files. To reclaim disk space, you can delete old log files from the logs directory. Log files found in this directory include:

nexus.log - The main repository manager application log. Log messages contain standard log output fields including date/time, log level, the associated thread, class and message.

request.log - Used to log http access requests to a running repository manager. Log messages contain information such as client host, user and HTTP request attributes including status code, bytes, and user-agent header.

jvm.log - Contains JVM stdout, stderr and thread dump messages

karaf.log - This is the Apache Karaf container log file which contains messages specific to the repository manager startup

The **log** directory also contains tasks subdirectory which contains separate, uniquely named (by date, time and task name) log output files for each task that is run. See Task Logging for more details concerning naming strategy and content of these files.

tmp/

This directory is used for temporary storage

Port number changing:

PC > Local Disk (D:) > Java > nexus > nexus-3.20.1-01 > etc				
Name	Date modified	Type	Size	
fabric	08-02-2020 11:51	File folder		
jetty	08-02-2020 11:51	File folder		
karaf	08-02-2020 11:51	File folder		
logback	08-02-2020 11:51	File folder		
ssl	08-02-2020 11:51	File folder		
nexus-default.properties	19-12-2019 20:15	PROPERTIES File	1 KB	

To change the default HTTP port from 8081 to custom port, follow the below steps.
Go to the etc directory and open the **nexus-default.properties** file and update the port number from 8081 to your custom port.

application-port=8081 ---> **By default port number.**

application-port=2020 ---> **Customised port number.**

```
application-port=8081
```

Context root changing:

Go to the etc directory and open the **nexus-default.properties** file and update the context root as follows.

PC > Local Disk (D:) > Java > nexus > nexus-3.20.1-01 > etc				
Name	Date modified	Type	Size	
fabric	08-02-2020 11:51	File folder		
jetty	08-02-2020 11:51	File folder		
karaf	08-02-2020 11:51	File folder		
logback	08-02-2020 11:51	File folder		
ssl	08-02-2020 11:51	File folder		
nexus-default.properties	19-12-2019 20:15	PROPERTIES File	1 KB	

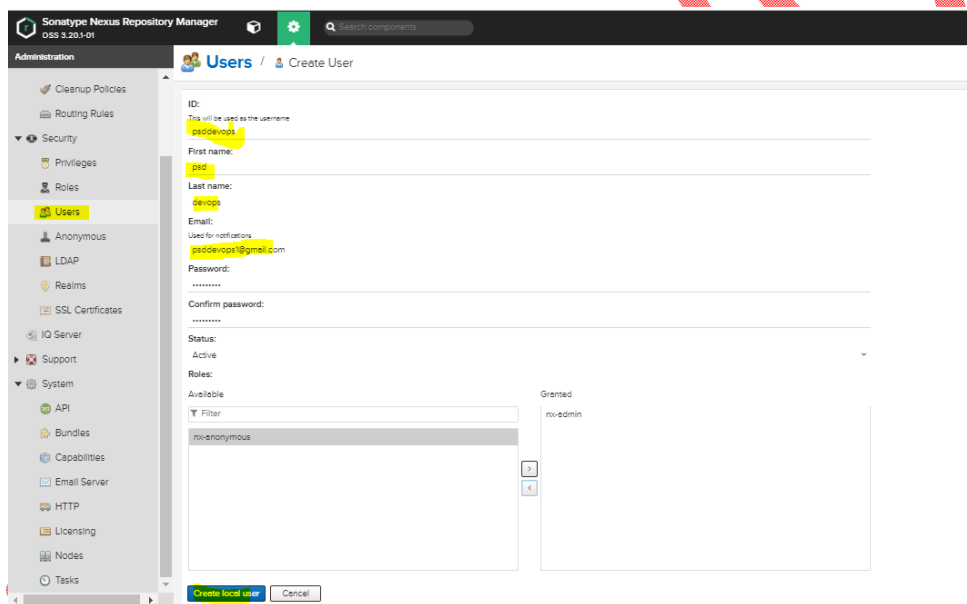
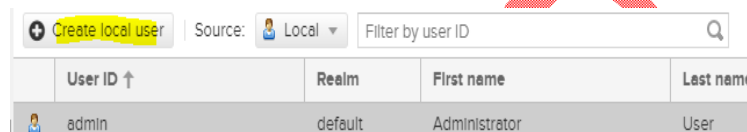
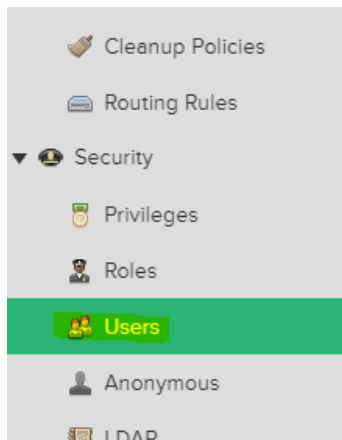
nexus-context-path=/ ---> **By default context root**

nexus-context-path=/psddevops ---> **Customised context root**

```
nexus-context-path=
```

Creating new user

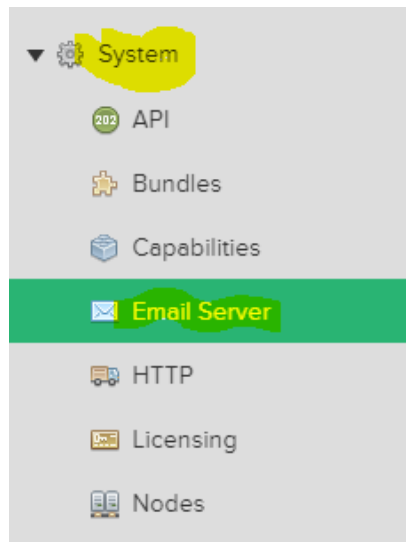
Go to Security → Users → Create local user



Then click on **Save** button.

Configure the SMTP Settings

Go to System → Email Server

A screenshot of the 'Email Server' configuration page in a web application. The page title is 'Email Server' with the subtitle 'Manage email server configuration'. The left sidebar shows the 'System' menu expanded, with 'Email Server' selected. The main content area contains the following fields and options:

- Enabled:** A checked checkbox.
- Host:** A text field containing 'smtp.gmail.com'.
- Port:** A text field containing '465'.
- Use the Nexus truststore:** A section with a checkbox 'Use certificates stored in the Nexus truststore to connect to external systems' (unchecked) and a 'View certificate' button.
- Username:** A text field containing 'psddevops1@gmail.com'.
- Password:** A text field with masked characters (dots).
- From address:** A text field containing 'psddevops1@gmail.com'.
- Subject prefix:** A text field containing 'Nexus Repository'.
- SSL/TLS options:** A section with four checkboxes:
 - ☐ Enable STARTTLS support for insecure connections
 - ☐ Require STARTTLS support
 - ☒ Enable SSL/TLS encryption upon connection
 - ☐ Enable server identity check

At the bottom of the form are three buttons: 'Save', 'Discard', and 'Verify email server'.

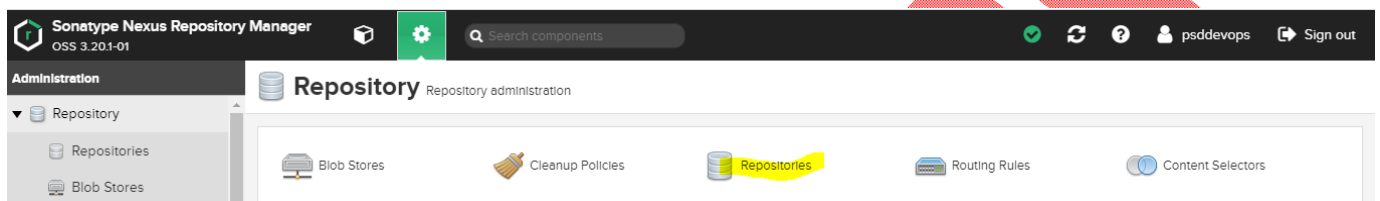
Check Verify email server and save.

Creating the Repos in Nexus

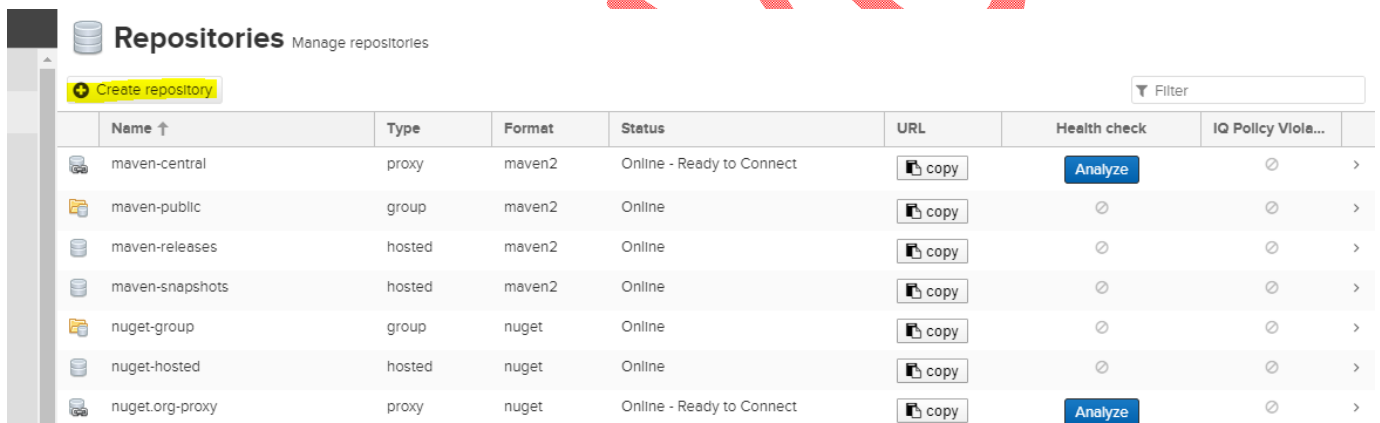
Go to Server **Administration and Configuration**



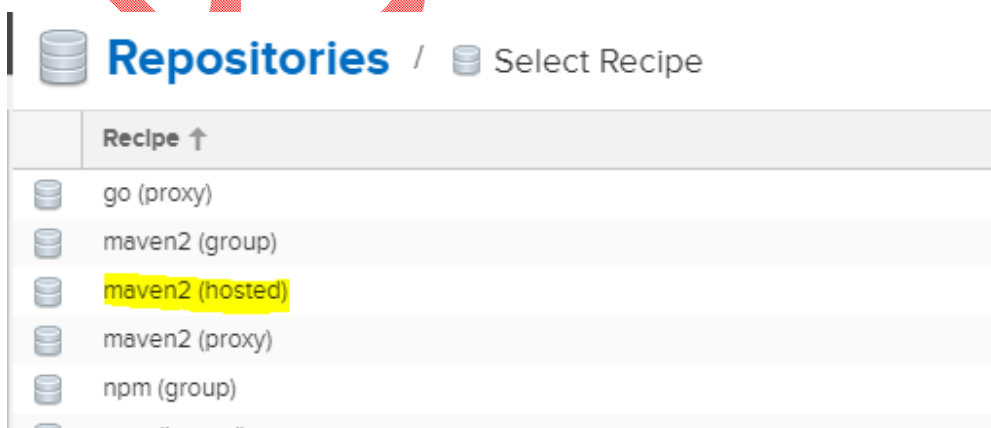
Click on Repositories




Click on create repository





Select maven2(hosted)



Enter the below details for snapshot repository creation.

 **Repositories**

 Select Recipe

 Create Repository: maven2 (hosted)

Name:
A unique identifier for this repository

Online:
☒ If checked, the repository accepts incoming requests

Maven 2

Version policy:
What type of artifacts does this repository store?

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

Storage

Blob store:
Blob store used to store repository contents

Strict Content Type Validation:
☒ Validate that all content uploaded to this repository is of a MIME type appropriate for the repository format

Hosted

Deployment policy:
Controls if deployments of and updates to artifacts are allowed

Cleanup

Cleanup Policies:
Components that match any of the Applied policies will be deleted

Available

Applied

>

<

Create repository

Cancel

Create repository

Enter the below details for release repository creation

Create repository Cancel

Create repository

Creating group repositories

Select maven2 (group)

The screenshot shows the Sonatype Nexus Repository Manager interface. The top navigation bar includes the Sonatype logo, the text "Sonatype Nexus Repository Manager OSS 3.20.1-01", a search bar, and a "Search components" button. The left sidebar is titled "Administration" and contains a tree view with "Repository" expanded, showing "Repositories" (selected), "Blob Stores", "Content Selectors", "Cleanup Policies", "Routing Rules", "Security", and "Privileges". The main content area is titled "Repositories / Select Recipe" and displays a list of recipes. The "Recipe" column is sorted ascending. The list includes: go (proxy), maven2 (group) (highlighted), maven2 (hosted), maven2 (proxy), npm (group), npm (hosted), npm (proxy), nuget (group), nuget (hosted), and nuget (proxy).

The screenshot shows the "Create Repository: maven2 (group)" form in the Sonatype Nexus Repository Manager. The form is divided into several sections: "Name" (with a unique identifier "citi-group" highlighted), "Online" (checked), "Storage" (Blob store: default, Strict Content Type Validation: checked), and "Group". The "Group" section includes "Member repositories" and "Available" repositories. The "Available" list contains: maven-snapshots, maven-central, maven-releases, maven-public, psd-releases, and psd-snapshots. The "Members" list contains: citi-releases and citi-snapshots (highlighted). The form has "Create repository" and "Cancel" buttons at the bottom.


 **Repositories** Manage repositories



[+ Create repository](#)

Name ↑	Type	Format	Status	URL
 citi-group	group	maven2	Online	 copy

Browse the repositories


Go to home page click on browse icon

 **Sonatype Nexus Repository Manager**
OSS 3.20.1-01
















 

Browse

- Welcome
- Search
 - Custom
 - Maven
 - NuGet
 - Browse**
 - Upload



 **Welcome** Learn about Sonatype Nexus Repository Manager


Browse Browse assets and components

Name ↑	Type	Format	Status	URL	Health check
 citi-releases	hosted	maven2	Online	 copy	 >
 citi-snapshots	hosted	maven2	Online	 copy	 >
 maven-central	proxy	maven2	Online - Ready to Connect	 copy	 Analyze >
 maven-public	group	maven2	Online	 copy	 >
 maven-releases	hosted	maven2	Online	 copy	 >

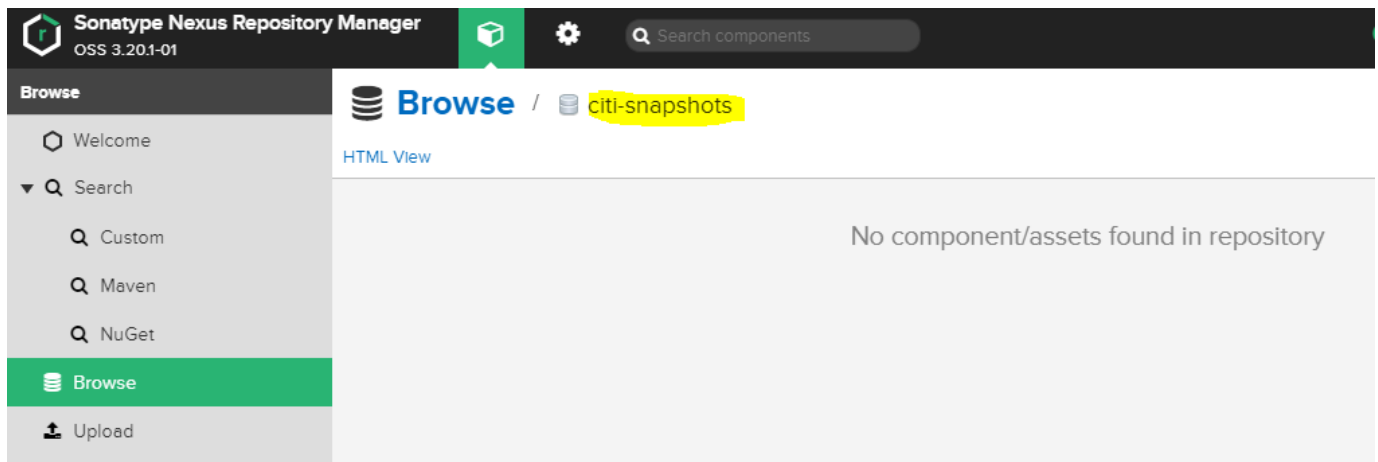
Browse

- Welcome
- Search
 - Custom
 - Maven
 - NuGet
 - Browse**
 - Upload

 **Browse** /  **citi-releases**

 Upload component [HTML View](#)

No component/ass



Nexus integration with maven

1. Create the maven based application

```
mvn archetype:generate -DgroupId=retail -DartifactId=RBS -Dversion=1.0-SNAPSHOT -Dpackaging=jar -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
```

```
D:\January_Batch>mvn archetype:generate -DgroupId=retail -DartifactId=RBS -Dversion=1.0-SNAPSHOT -Dpackaging=jar -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] >>> maven-archetype-plugin:3.1.2:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO] <<< maven-archetype-plugin:3.1.2:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO] --- maven-archetype-plugin:3.1.2:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[INFO] -----
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-quickstart:1.0
[INFO] -----
[INFO] Parameter: basedir, Value: D:\January_Batch
[INFO] Parameter: package, Value: retail
[INFO] Parameter: groupId, Value: retail
[INFO] Parameter: artifactId, Value: RBS
[INFO] Parameter: packageName, Value: retail
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: D:\January_Batch\RBS
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 32.187 s
[INFO] Finished at: 2020-02-09T14:37:45+05:30
[INFO] -----
D:\January_Batch>
```

2. Update the pom.xml and settings.xml below configurations

Pom.xml

Add below lines after </dependency> tag

```
<distributionManagement>
```

```
<repository>
```

```
<id>releases</id>
```

```
<name>releases</name>
<url>http://localhost:8081/repository/citi-releases/</url>
</repository>
<snapshotRepository>
<id>snapshots</id>
<name>snapshots</name>
<url>http://localhost:8081/repository/citi-snapshots/</url>
</snapshotRepository>
</distributionManagement>
```

Settings.xml

Add the below lines inside <servers> tag

```
<server>
  <id>snapshots</id>
  <username>psddevops</username>
  <password>psddevops</password>
</server>
<server>
  <id>releases</id>
  <username>psddevops</username>
  <password>psddevops</password>
</server>
```

Run the application **mvn clean deploy**

```

D:\January_Batch\RBS>mvn clean deploy
[INFO] Scanning for projects...
[INFO]
[INFO] -----< retail:RBS >-----
[INFO] Building RBS 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ RBS ---
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ RBS ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\January_Batch\RBS\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ RBS ---
[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 D:\January_Batch\RBS\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ RBS ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\January_Batch\RBS\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ RBS ---
[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 D:\January_Batch\RBS\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ RBS ---
[INFO] Surefire report directory: D:\January_Batch\RBS\target\surefire-reports

-----
T E S T S
-----
Running retail.AppTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.007 sec

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

```

```

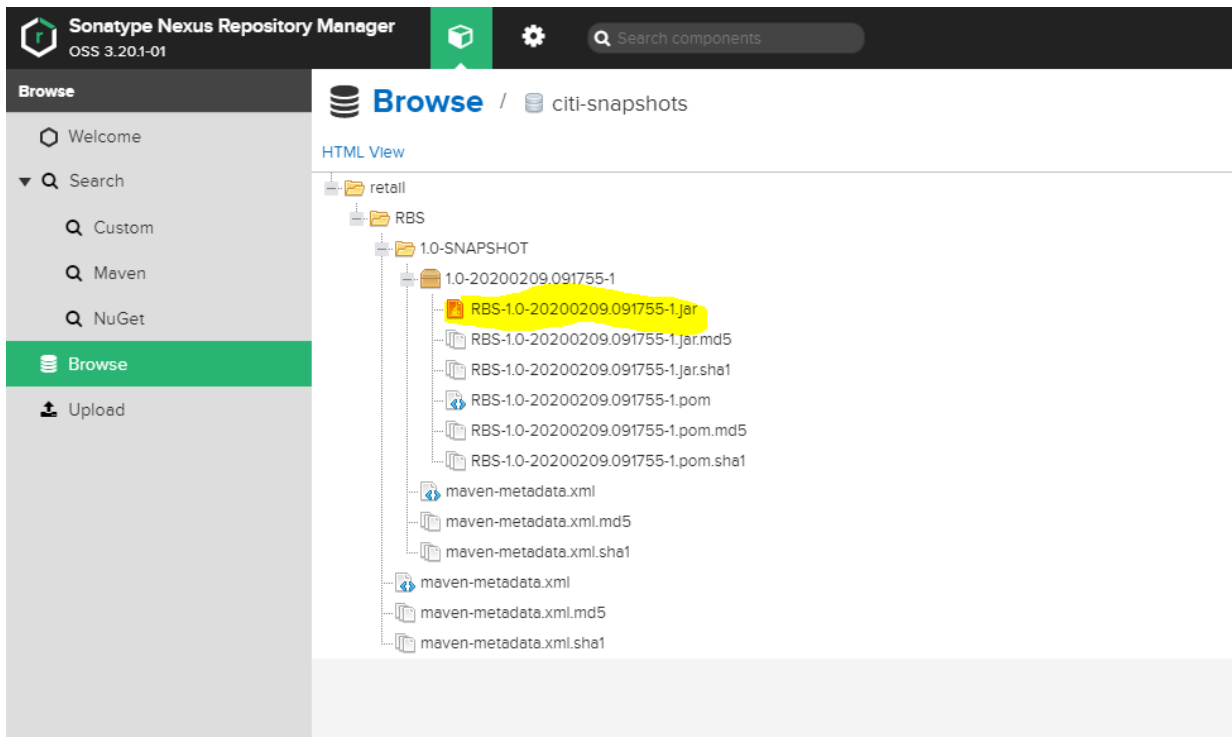
Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ RBS ---
[INFO] Building jar: D:\January_Batch\RBS\target\RBS-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ RBS ---
[INFO] Installing D:\January_Batch\RBS\target\RBS-1.0-SNAPSHOT.jar to D:\localrepo\retail\RBS\1.0-SNAPSHOT\RBS-1.0-SNAPSHOT.jar
[INFO] Installing D:\January_Batch\RBS\pom.xml to D:\localrepo\retail\RBS\1.0-SNAPSHOT\RBS-1.0-SNAPSHOT.pom
[INFO]
[INFO] --- maven-deploy-plugin:2.7:deploy (default-deploy) @ RBS ---
Downloading from snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/1.0-SNAPSHOT/maven-metadata.xml
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/1.0-SNAPSHOT/RBS-1.0-20200209.091755-1.jar
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/1.0-SNAPSHOT/RBS-1.0-20200209.091755-1.jar (2.0 kB at 3.1 kB/s)
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/1.0-SNAPSHOT/RBS-1.0-20200209.091755-1.pom
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/1.0-SNAPSHOT/RBS-1.0-20200209.091755-1.pom (1.0 kB at 5.5 kB/s)
Downloading from snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/maven-metadata.xml
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/1.0-SNAPSHOT/maven-metadata.xml
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/1.0-SNAPSHOT/maven-metadata.xml (753 B at 1.8 kB/s)
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/maven-metadata.xml
Uploading to snapshots: http://localhost:8081/repository/citi-snapshots/retail/RBS/maven-metadata.xml (267 B at 898 B/s)
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 6.301 s
[INFO] Finished at: 2020-02-09T14:47:56+05:30
[INFO]
D:\January_Batch\RBS>

```

Verify the nexus repository



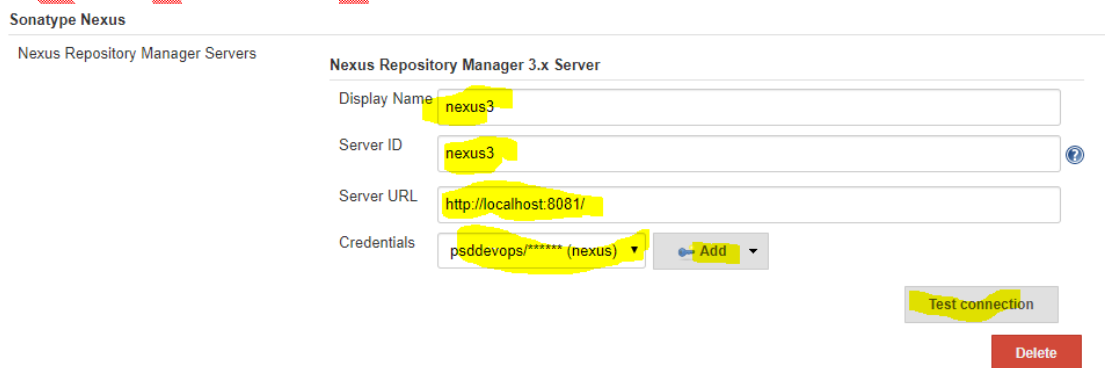
Nexus Integration with Jenkins

Install the Nexus Platform Plugin



Configure and test the nexus server in Jenkins .

Manage Jenkins → Configure System



Go to our job and configure

Open the job → configure → Build → Add Build step → **Nexus Repository Manager Publisher**

The screenshot shows the 'Nexus Repository Manager Publisher' configuration page in Jenkins. The 'Build' tab is selected. The configuration includes:

- Nexus Instance:** nexus3
- Nexus Repository:** citi-releases
- Tag:** (empty)
- Packages:**
 - Group:** com.pp
 - Artifact:** psdapp
 - Version:** 1.0
 - Packaging:** war
- Artifacts:**
 - Maven Artifact:**
 - File Path:** C:\Program Files (x86)\Jenkins\workspace\nexus_test\target\psdapp.war
 - Classifier:** (empty)
 - Extension:** (empty)
 - Add Artifact Path:** (button)

At the bottom, there are buttons for 'Save', 'Apply', and 'Add Package'.

Build the job

Job-Log

```
Running com.pp.test.MyTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.006 sec
Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO]
[INFO] --- maven-war-plugin:2.2:war (default-war) @ psdapp ---
[INFO] Packaging webapp
[INFO] Assembling webapp [psdapp] in [C:\Program Files (x86)\Jenkins\workspace\nexus_test\target\psdapp]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Program Files (x86)\Jenkins\workspace\nexus_test\src\main\webapp]
[INFO] Webapp assembled in [47 msecs]
[INFO] Building war: C:\Program Files (x86)\Jenkins\workspace\nexus_test\target\psdapp.war
[INFO] WEB-INF\web.xml already added, skipping
[INFO]
[INFO] --- jacoco-maven-plugin:0.7.5.201505241946:report (jacoco-site) @ psdapp ---
[INFO] Analyzed bundle 'psdapp Maven Webapp' with 1 classes
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.194 s
[INFO] Finished at: 2020-02-09T15:15:29+05:30
[INFO]
[INFO] Uploading Maven asset with groupId: com.pp artifactId: psdapp version: 1.0 packaging: war To repository: citi-releases
Successfully Uploaded Maven Assets
Finished: SUCCESS
```

Verify the nexus citi-releases repo

