



# Library Management - Nexus

DevOps Training

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# ARTIFACT REPOSITORY MANAGER

- Nexus
- Artifactory
- NPM / NodeJS

# KEY FEATURES

## **Key component of software supply chain automation**

Artifact store

Support development – artifacts sharing

Deployments to containers such as tomcat, jetty, JBOSS

## **Features**

Repositories types - hosted and proxy repositories

Repositories formats – maven, ANT, NPM, RubyGems, Nuget and more

Scheduled Task – indexing, repo cleanup and more

REST services

Security - local accounts, LDAP integration

Search components

## **Integrations**

package managers like npm, nuget or gem,

build tools such as Maven, Ant, Gradle, rake, grunt

IDE's such as Eclipse, IntelliJ

# INSTALLATION

**Install** – detailed steps in PDF

Follow the installation info from `installs/DevopsRequiredSoftware.pdf`

# SET UP

## Create Repositories

Proxy repositories – open source repositories, internal repositories

Hosted repository – internal artifact management

## Client-side setup for Maven artifact deployment

Install Maven

Configure repos access – settings.xml

Add distribution management – pom.xml

Different deployment methods

Mvn deploy

Mvn install

Locate artifact in nexus –

`<repoURL><groupid><artifactid><version><artifactid>.<version>.<packagingtype>`

Example - `<repoURL>< /org/apache/commons/commons-lang/1.2.0/commons-lang-1.2.0.jar`

# SETTING.XML

```
<settings xmlns="http://maven.apache.org/SETTINGS/1.0.0" .....>
  <mirrors>
    <mirror>
      <!--This sends everything else to /public -->
      <id>nexus</id>
      <mirrorOf>*,!nexus_snapshot</mirrorOf>
      <url>http://nexus_host_Name_or_ip.myorg.com/nexus/content/groups/public</url>
    </mirror>
  </mirrors>
  <profiles>
    .....
  </profiles>
  <servers>
    .....
  </servers>
</settings>
```

# Configure profiles

```
<profiles>
  <profile>
    <id>nexus</id>
    <repositories>
      <repository>
        <id>nexus_release</id>
        <url>http://nexus_host_Name_or_ip.myorg.com/nexus/content/groups/public/</url>
        <releases><enabled>true</enabled></releases>
        <snapshots><enabled>false</enabled></snapshots>
      </repository>
      <repository>
        <id>nexus_snapshot</id>
        <url>http://nexus_host_Name_or_ip.myorg.com/nexus/content/groups/public_snapshot/</url>
        <releases><enabled>false</enabled></releases>
        <snapshots><enabled>true</enabled></snapshots>
      </repository>
    </repositories>
    <pluginRepositories>
      <pluginRepository>
        <id>nexus_snapshot</id>
        <url>http://nexus_host_Name_or_ip.myorg.com/nexus/content/groups/public_snapshot/</url>
        <releases><enabled>false</enabled></releases>
        <snapshots><enabled>true</enabled></snapshots>
      </pluginRepository>
    </pluginRepositories>
  </profile>
</profiles>
```

## Configure active profile

```
<activeProfiles>
  <!--make the profile active all the time -->
  <activeProfile>nexus</activeProfile>
</activeProfiles>
```

## Add repositories and credentials

```
<servers>
  <server>
    <id>myorg_snapshots</id>
    <username></username>
    <password></password>
  </server>
  <server>
    <id>myorg_releases</id>
    <username>nexus_deploy</username>
    <password></password>
  </server>
  <server>
    <id>mvn-site</id>
    <username>nexus_deploy</username>
    <password></password>
  </server>
</servers>
```



# POM.XML

## Distribution management

```
<distributionManagement>
  <repository>
    <id>myorg_releases</id>
    <url>http://nexus_host_name:port/nexus/content/repositories/myorg_releases</url>
    <uniqueVersion>true</uniqueVersion>
  </repository>
  <snapshotRepository>
    <id>myorg_snapshots</id>
    <url>http://nexus_host_name:port/nexus/content/repositories/myorg_snapshots</url>
    <uniqueVersion>false</uniqueVersion>
  </snapshotRepository>
</distributionManagement>
```

it's  
Q & A  
TIME!



THANK YOU!

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