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DZone (/) > Java Zone (/java-jdk-development-tutorials-tools-news) > Getting started with Nexus Maven Repo Manager

## Getting started with Nexus Maven Repo Manager



 (/users/400305/vineetmanohar.html) by [Vineet Manohar \(/users/400305/vineetmanohar.html\)](/users/400305/vineetmanohar.html) 🐉 MVB · Jun. 07, 10 · [Java Zone \(/java-jdk-development-tutorials-tools-news/\)](/java-jdk-development-tutorials-tools-news/) · [Interview](#)

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This tutorial outlines steps required to install Nexus (<http://nexus.sonatype.org/>) (Maven Repository Manager) under Tomcat, or another webapp container. It shows you practical configuration and includes code snippets that go in your pom.xml and settings.xml in order to read and publish artifacts to your Nexus server.

## Step 1: Download

Download Nexus from here (<http://nexus.sonatype.org/downloads>) (at the time of writing, latest is 1.6.0 (<http://nexus.sonatype.org/downloads/nexus-webapp-1.6.0.war>))

## Step 2: Install

Copy the war to TOMCAT\_HOME/webapps/nexus.war

Though not required, it is a generally good idea to restart tomcat after installing a new war

```
/etc/init.d/tomcat restart
```

### Step 3: Configure security

**a) Change default admin password:** The default admin username/password is admin/admin123. Login as admin and change the password to a secure password.

Login -> [admin, admin123] -> Left Menu -> Security -> Change Password -> click "Change Password"

**b) Anonymous Access:** By default Nexus is open to the public. If you want to secure access to nexus, disable 'Nexus anonymous user'

Admin -> Left Menu -> Users -> 'Nexus anonymous user' -> Status=Disabled

**c) Deployment user:** Change password for deployment user

Admin -> Left menu -> Users -> Deployment user -> Change email address

Admin -> Left menu -> Users -> Right click on 'Deployment user' in the user list -> Set Password -> click 'Set password' to finish

### Step 4: Set SMTP server

It is a good idea to configure SMTP server, so that you can receive emails from Nexus.

Admin login -> Left menu -> Administration -> Server ->SMTP Settings -> (host localhost, port 25, no login, no password mostly)

## Step 5: Change Base Url

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If you are running Nexus behind Apache using mod\_jk or mod\_proxy, change your base url here.

Admin login -> Left menu -> Administration -> Server -> Application Server Settings -> Base url

## Step 6: Add a task to periodically remove old snapshots

If you or your CI server publishes snapshots to Nexus several times a day, then you should consider adding a task to delete duplicate/old snapshots for the same GAV (group, artifact, version). If you don't do this, you will notice that the Nexus disk usage will increase with time.

Admin login -> Left menu -> Administration -> Scheduled tasks -> Add... -> name="Remove old snapshots", Repository/Group=Snapshots (Repo), Minimum Snapshot Count=1, Snapshot Retention(days)=3, Recurrence=Daily, Recurring time=2:00 -> click 'Save'

## Step 7: Using Nexus: reading and publishing artifacts

If you want to deploy your artifacts to your Nexus, you need to configure 2 files: pom.xml and settings.xml

**a) pom.xml** – for each project which wishes to publish to Nexus, add your repo to the pom.xml

```
<distributionManagement>
  <!-- Publish the versioned releases here -->
  <repository>
    <id>vineetmanohar-nexus</id>
    <name>vineetmanohar nexus</name>
    <url>dav:http://nexus.vineetmanohar.com/nexus/content/repositories/releases</url>
  </repository>

  <!-- Publish the versioned releases here -->
  <snapshotRepository>
    <id>vineetmanohar-nexus</id>
    <name>vineetmanohar nexus</name>
    <url>dav:http://nexus.vineetmanohar.com/nexus/content/repositories/snapshots</url>
  </snapshotRepository>
</distributionManagement>

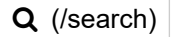
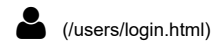
<!-- download artifacts from this repo -->
<repositories>
  <repository>
    <id>vineetmanohar-nexus</id>
    <name>vineetmanohar</name>
    <url>http://nexus.vineetmanohar.com/nexus/content/groups/public</url>
    <releases>
      <enabled>true</enabled>
    </releases>

    <snapshots>
      <enabled>true</enabled>
    </snapshots>
  </repository>
</repositories>

<!-- download plugins from this repo -->
<pluginRepositories>
  <pluginRepository>
    <id>vineetmanohar-nexus</id>
    <name>vineetmanohar</name>
    <url>http://nexus.vineetmanohar.com/nexus/content/groups/public</url>
    <releases>
      <enabled>true</enabled>
    </releases>
    <snapshots>
      <enabled>true</enabled>
    </snapshots>
  </pluginRepository>
</pluginRepositories>
```

**b) settings.xml** – If you have disabled anonymous access to Nexus, add the deployment password to your ~/.m2/repository/settings.xml file

```
<settings>
  <servers>
    <server>
      <!-- this id should match the id of the repo server in pom.xml -->
      <id>vineetmanohar-nexus</id>
      <username>deployment</username>
```



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From <http://www.vineetmanohar.com/2010/06/getting-started-with-nexus-maven-repo-manager>  
(<http://www.vineetmanohar.com/2010/06/getting-started-with-nexus-maven-repo-manager>)

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