**Sonatype Nexus 3 Installation on Linux**

Sonatype Nexus is one of the best repository managers out there. It is some tool that you cannot avoid in your CI/CD pipeline. It effectively manages deployable artefacts.

This article guides you to install and configure Sonatype Nexus 3 in a secure way on an ec2 Linux System.

**Step 1: Login to your Linux server and update it.**

*sudo yum update -y*

**Step 2: Install OpenJDK 1.8**

Note: *Nexus recommends oracle JDK to be installed. For demo purposes we use OpenJDK*

*sudo yum install java-1.8.0-openjdk.x86\_64*

**Step 3: Create a directory named app and cd into the directory.**

*sudo mkdir /app && cd /app*

**Step 4: Download the latest nexus. You can get the latest download links fo for nexus from here. Here I am downloading nexus 3.**

*sudo wget* <https://sonatype-download.global.ssl.fastly.net/nexus/3/nexus-3.0.2-02-unix.tar.gz>

*Untar the downloaded file.*

*sudo tar -xvf nexus-3.0.2-02-unix.tar.gz*

*Rename the untared file to nexus.*

*sudo mv nexus-3.0.2-02 nexus*

**Step 5: As a good security practice, it is not advised to run nexus service with any sudo user. So create a new user named nexus.**

*sudo adduser nexus*

*Change the ownership of nexus file to nexus user.*

*sudo chown -R nexus:nexus /app/nexus*

*Open /app/nexus/bin/nexus.rc file, uncomment run\_as\_user parameter and set it as following.*

*run\_as\_user="nexus"*

**Step 6: If you want to change the default nexus data directory, open nexus properties file and change the data directory “-Dkaraf.data” parameter to a preferred location as shown below.**

*sudo vi /app/nexus/bin/nexus.vmoptions*

*-Xms1200M*

*-Xmx1200M*

*-XX:+UnlockDiagnosticVMOptions*

*-XX:+UnsyncloadClass*

*-Djava.net.preferIPv4Stack=truer*

*-Dkaraf.home=.*

*-Dkaraf.base=.*

*-Dkaraf.etc=etc*

*-Djava.util.logging.config.file=etc/java.util.logging.properties*

*-Dkaraf.data=/nexus/nexus-data*

*-Djava.io.tmpdir=data/tmp*

*-Dkaraf.startLocalConsole=false*

### Running Nexus as a Service

### It is better to have a init.d entry to manage nexus service using the Linux service command. Follow the steps given below for the setup.

**Step 1: Create a symbolic link for nexus service script to /etc/init.d folder.**

*sudo ln -s /app/nexus/bin/nexus /etc/init.d/nexus*

**Step 2: Execute the following commands to add nexus service to boot.**

*sudo chkconfig --add nexus*

*sudo chkconfig --levels 345 nexus on*

*for Ubuntu:*

*$ cd /etc/init.d*

*$ update-rc.d nexus defaults*

*$ service nexus start*

### Now we have all the configurations in place. To start the Nexus service, use the following command.

*sudo service nexus start*

*The above command will start the nexus service on port 8081. To access the nexus dashboard, visit http://:8081. You will be able to see the nexus homepage as shown below.*