**How to setup SonaType Nexus 3 on Linux in EC2? Nexus installation on RedHat Linux | Install Nexus on RedHat Linux**

Nexus is an open source, Java based binary repository manager, used for storing build artifacts. We will eventually integrate Nexus with Jenkins for uploading WAR/EAR/JAR files.  
  
Here are the steps for installing Sonatype Nexus 3 in RHEL in EC2 on AWS. **Please create a new Redhat EC2 instance with small type. Choose Redhat Enterprise 8.**

[](https://1.bp.blogspot.com/-I_QlDuoT2Ao/XVc8wCtlQrI/AAAAAAAABKk/DQ-Zp8ZgCm0ojZpq3-6udaZfq-Ngu6qywCLcBGAs/s1600/Screen%2BShot%2B2019-08-16%2Bat%2B6.30.03%2BPM.png)

**Pre-requisites:**  
Make sure you open port 8081 in AWS security group  
  
**Installation Steps:**

sudo yum install wget -y

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**Download Java 8**

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

you can confirm java is installed by typing the below command:  
java -version  
  
Execute the below command to navigate to /opt directory by changing directory:  
  
cd /opt  
  
**Download Nexus Latest version**

sudo wget -O nexus3.tar.gz https://download.sonatype.com/nexus/3/latest-unix.tar.gz

**Extract Nexus**  
sudo tar -xvf nexus3.tar.gz  
sudo mv nexus-3\* nexus  
  
**Create a user called Nexus**  
sudo adduser nexus  
  
**Change the ownership of nexus files and nexus data directory to nexus user.**  
sudo chown -R nexus:nexus /opt/nexus  
sudo chown -R nexus:nexus /opt/sonatype-work

**Add Nexus as a user**

sudo vi /opt/nexus/bin/nexus.rc

change as per above screenshot by removing # and adding nexus

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**Modify memory settings in Nexus configuration file**  
  
sudo vi /opt/nexus/bin/nexus.vmoptions

Modify the above file as shown in below:

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-Xms512m  
-Xmx512m  
-XX:MaxDirectMemorySize=512m

after making changes, press wq! to come out of the file.  
  
**Configure Nexus to run as a service**  
  
sudo vi /etc/systemd/system/nexus.service  
Copy the below content highlighted in green color.

[Unit]  
Description=nexus service  
After=network.target  
[Service]  
Type=forking  
LimitNOFILE=65536  
User=nexus  
Group=nexus  
ExecStart=/opt/nexus/bin/nexus start  
ExecStop=/opt/nexus/bin/nexus stop  
User=nexus  
Restart=on-abort  
[Install]  
WantedBy=multi-user.target

**Create a link to Nexus**  
sudo ln -s /opt/nexus/bin/nexus /etc/init.d/nexus  
  
**Execute the following command to add nexus service to boot.**  
  
sudo chkconfig --add nexus  
sudo chkconfig --levels 345 nexus on  
  
**Start Nexus**  
sudo service nexus start

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**Check whether Nexus service is running**  
sudo service nexus status

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**Check the logs to see if Nexus is running**  
tail -f /opt/sonatype-work/nexus3/log/nexus.log

You will see Nexus started..If you Nexus stopped, review the steps above.

Now press Ctrl C to come out of this windows.

Once Nexus is successfully installed, you can access it in the browser by URL - [http://public\_dns\_name:8081](http://public_dns_name:8081/)

Click on Sign in link

user name is admin and password can be found by executing below command:  
  
sudo cat /opt/sonatype-work/nexus3/admin.password

[](https://1.bp.blogspot.com/-6MgdjjugZV0/XZQCmCQsIjI/AAAAAAAABQw/NWUQAEgcAkM7T_fcC2tlasiQauuShLiwgCLcBGAsYHQ/s1600/Screen%2BShot%2B2019-10-01%2Bat%2B8.50.21%2BPM.png)

Copy the password and click sign in.  
Now setup admin password as admin123

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You should see the home page of Nexus:

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**Jenkins Nexus Integration - How to integrate Sonatype Nexus with Jenkins - Upload artifacts from Jenkins to Nexus repository**

You need to install Nexus Artifact Uploader plug-in to integrate Nexus with Jenkins. Let us see how to integrate Jenkins with Nexus and able to upload War/Ear/Jar/Exe/DLLs.  
  
[Diagram

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**Pre-requistes:**  
  
Install Nexus Artifact Uploader plugin in Jenkins.

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**Steps:**  
  
1. Once you installed the above plug-ins, click existing FreeStyle job configuration or create a new job.  
  
2. Under source code management. enter bitbucket repo url and git credentials.  
  
3. Go to build section, add Maven targets. with goals clean install. Also click advance, give path of POM.xml

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4. click on Add build step, choose Nexus artifact uploader.

[Application

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5. Enter information per below screen shot.  
Make sure you enter version as 1.0-SNAPSHOT and repository as maven-snapshots. You can take the information from your WebApp/pom.xml from Github Repo

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6. Click on Apply, Save.

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7. Now login to Nexus repo, Click on Components, Click on maven-snapshots

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8. you shall see the WAR being uploaded here.

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