NEXUS INSTALLATION t3. Xlarge

**Prerequisites**

* Open JDK 8
* Minimum CPU’s: 4
* Ubuntu Server with User sudo privileges. t3. Xlarge
* Set User limits
* Web Browser
* Firewall/Inbound port: 22, 8081

you can go through [Nexus artifactory official page](_blank) to know more about system requirement for Nexus.

**#update the system packages**

sudo apt-get update

sudo apt install openjdk-8-jre-headless **#1: Install OpenJDK 1.8 on Ubuntu 20.04 LTS**

cd /opt

**Download the SonaType Nexus on Ubuntu using wget**

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

**Extract the Nexus repository setup in /opt directory**

sudo tar -zxvf latest-unix.tar.gz

sudo mv /opt/nexus-3.52.0-01 /opt/nexus (use the version extracted if different)

**As security practice, not to run nexus service using root user, so lets create new user named nexus to run nexus service**

sudo adduser nexus

**To set no password for nexus user open the visudo file in ubuntu**

sudo visudo **#this command will open nano editor**

**add this below and save it**

nexus ALL=(ALL) NOPASSWD: ALL #**(SAVE WITH CTRL X, its will prompt for yes/no, type y and press enter)**

**Give permission to nexus files and nexus directory to nexus user**

sudo chown -R nexus:nexus /opt/nexus

sudo chown -R nexus:nexus /opt/sonatype-work

**To run nexus as service at boot time, open /opt/nexus/bin/nexus.rc file, uncomment it and add nexus user as shown below**

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

run\_as\_user="nexus" #add to the nexus.rc file and save

**To Increase the nexus JVM heap size, open the /opt/nexus/bin/nexus.vmoptions file, you can modify the size as shown below**

**In the below settings, the directory is changed from ../sonatype-work to ./sonatype-work**

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

-Xms1024m

-Xmx1024m

-XX:MaxDirectMemorySize=1024m

-XX:LogFile=./sonatype-work/nexus3/log/jvm.log #remove the intial double period and leave only one

-XX:-OmitStackTraceInFastThrow

-Djava.net.preferIPv4Stack=true

-Dkaraf.home=.

-Dkaraf.base=.

-Dkaraf.etc=etc/karaf

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

-Dkaraf.data=./sonatype-work/nexus3 #remove the intial double period and leave only one

-Dkaraf.log=./sonatype-work/nexus3/log #remove the intial double period and leave only one

-Djava.io.tmpdir=./sonatype-work/nexus3/tmp #remove the intial double period and leave only one

#save

**To run nexus as service using Systemd**

sudo vi /etc/systemd/system/nexus.service

#copy below and paste

[Unit]

Description=nexus service

After=network.target

[Service]

Type=forking

LimitNOFILE=65536

ExecStart=/opt/nexus/bin/nexus start

ExecStop=/opt/nexus/bin/nexus stop

User=nexus

Restart=on-abort

[Install]

WantedBy=multi-user.target

**#Save it**

**To start nexus service using systemctl**

sudo systemctl start nexus

sudo systemctl enable nexus

sudo systemctl status nexus #check status

**if the nexus service is not started, you can the nexus logs using below command**

sudo tail -f /opt/sonatype-work/nexus3/log/nexus.log