daily we builds many things where these builds are stored the main purpose of artifactory is to store the builds in an organized manner.If small project its ok to take previous build and run,if it is big project which was run10 years, think how many builds are created and it is difficult to take previous builds.To avoid this confusion ,repositories comes into the picture.

artifactory free version is jfrog

step-1:- "jfrog installation" in google

<https://www.jfrog.com/confluence/display/RTF/Installing+Artifactory>

download jfrog:-

<https://jfrog.com/open-source/>

branching-strategy follows every company, but artifacts is not follow in every company,they might follow s3 bucket or SAN drivers

[**Nexus Server Installation in Linux -**](http://mithuntechnologies-devops.blogspot.com/2019/10/nexus-server-installation-in-linux.html)  
**Login as a root user**  
sudo su -  
cd /opt  
yum install tar wget -y  
wget http://download.sonatype.com/nexus/3/nexus-3.15.2-01-unix.tar.gz  
tar -zxvf nexus-3.15.2-01-unix.tar.gz  
mv /opt/nexus-3.15.2-01 /opt/nexus  
  
**#As a good security practice, Nexus is not advised to run nexus service as a root user, so create a new user called nexus and grant sudo access to manage nexus services as follows.**  
useradd nexus  
  
**#Give the sudo access to nexus user**  
  
visudo  
nexus ALL=(ALL) NOPASSWD: ALL  
  
**#Change the owner and group permissions to /opt/nexus and /opt/sonatype-work directories.**  
  
chown -R nexus:nexus /opt/nexus  
chown -R nexus:nexus /opt/sonatype-work  
chmod -R 775 /opt/nexus  
chmod -R 775 /opt/sonatype-work  
  
**#Open /opt/nexus/bin/nexus.rc file and  uncomment run\_as\_user parameter and set as nexus user.**  
  
vi /opt/nexus/bin/nexus.rc  
run\_as\_user="nexus"  
  
**#Create nexus as a service**  
  
ln -s /opt/nexus/bin/nexus /etc/init.d/nexus  
  
**#Switch as a nexus user and start the nexus service as follows.**  
  
su - nexus  
  
**#Enable the nexus services**  
sudo systemctl enable nexus  
  
**#Start the nexus service**  
sudo systemctl start nexus

**#Start the nexus service on browser**

http:// 172.31.37.129:8081 (nexus default port)

**Troubleshooting  
---------------------**  
**nexus service is not starting?**

nexus must be space available 2GB, otherwise it wont run in browser, even if we start the service up and running.

free -h /free -m  
  
a)make sure need to change the ownership and group to /opt/nexus and /opt/sonatype-work directories and permissions (775) for nexus user.  
b)make sure you are trying to start nexus service with nexus user.  
c)check java is installed or not using java -version command.  
  
**Unable to access nexus URL?  
-------------------------------------**  
a)make sure port 8081 is opened in security groups in AWS ec2 instance.

#######################################################################

**Install-Nexus-on-EC2-Instance**

https://www.youtube.com/watch?v=7oYDqtuRVho

**There are two ways to upload artifacts in Nexus server,once install nexus on EC2-instance**

A) update POM.XML to integrate Nexus to Upload-Artifacts

https://www.youtube.com/watch?v=qbO4MTESiJQ

B)Install Nexus-Plugin-to-Jenkins-Dashboard

https://www.youtube.com/watch?v=Mde05zXu0O4