

Take two servers, server A and server B

in server A: (development server)

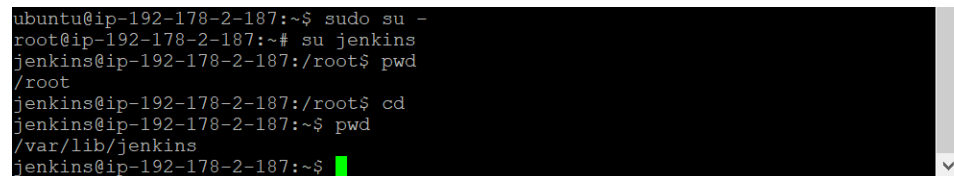
[] install jenkins (we face one issues in install suggested plugins in server right click on top where ip address click reset terminal)



[] su jenkins --> **switch root to jenkins**

[] pwd we need to get /var/lib/jenkins

[] cd then give pwd



```
ubuntu@ip-192-178-2-187:~$ sudo su -
root@ip-192-178-2-187:~# su jenkins
jenkins@ip-192-178-2-187:/root$ pwd
/root
jenkins@ip-192-178-2-187:/root$ cd
jenkins@ip-192-178-2-187:~$ pwd
/var/lib/jenkins
jenkins@ip-192-178-2-187:~$
```

[] ssh-keygen -t rsa

[]enter

[] enter

[] ls ---> **check .ssh file**

[] cd .ssh

[] ls ----> **we get two file id_rsa.pub(public key) and id_rsa (privet key)**

[] cat id_rsa.pub ---> **copy the public key**

```
jenkins@ip-192-178-2-217: ~  
plugins  
queue.xml  
secret.key  
secret.key.not-so-secret  
secrets  
updates  
userContent  
users  
workflow-libs  
workspace  
jenkins@ip-192-178-2-187:~$ ssh-keygen -t rsa  
Generating public/private rsa key pair.  
Enter file in which to save the key (/var/lib/jenkins/.ssh/id_rsa):  
Created directory '/var/lib/jenkins/.ssh'.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /var/lib/jenkins/.ssh/id_rsa  
Your public key has been saved in /var/lib/jenkins/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:mCd2Eg1XMSGDIR/0GPZ/d/apMglK4uSFUOr1KYTXow jenkins@ip-192-178-2-187  
The key's randomart image is:  
+---[RSA 3072]-----+  
| ..O=o.o |  
| =OB.o . |  
+-----+  
queue.xml  
secret.key  
secret.key.not-so-secret  
secrets  
updates  
userContent  
users  
workflow-libs  
workspace  
jenkins@ip-192-178-2-187:~$ cd .ssh  
jenkins@ip-192-178-2-187:~/ssh$ ls  
id_rsa id_rsa.pub  
jenkins@ip-192-178-2-187:~/ssh$ cat id_rsa.pub  
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDDS5QLffe459GzDz4wnx7z3MHQ4i6aNbTQpoRiEypZ  
'5iB60r6XJidyNQKma+SUXyexB+c5+I+qJtbDbzQJlOW8yG5RhIKT0/ZI5+D1s3ZQ8yk+1B+vd47eydX  
v/QOoLvElwxcOGEcYtmqX4fKGcl5jaSTZYm9h4hcnqgAvWbo/p34CN3kwM0GmIIJSNeayzTWt9vDi1/  
2k4kH1KnUU9Ig4fRO+W9K/UDIsWVdtTMHRa/N440Hphn6EG6N4G/+aHA418izl0P8KNYsZdGLn/RiaY  
lZ7yoA2qDlwd27RQ71RS8MNUFCRugdg2KvXxaiLLQybe8wf7cX9NSuljkS861xbBcZX0ZNL8JThlXqKF  
:DEz024wxR9o4KJjYmBvwpyc/a7qwZenVMzWuuVwldu9tDJgMlUywkqwkEg5YS4YWSMGNGK4rvnsTpXk  
lj0CLmFLhmIRkK761WxCqKMCAIFIBaUk/Z96NAdh5SZEekK40lH8QiWMU6poiugqrf5kvTM= jenkins  
ip-192-178-2-187
```

In Server B:(production server)

[] install java

[] useradd -m jenkins ----> **create user**

root@ip-192-178-2-187:~# su jenkins

If in case we get [] \$ if we get \$ symbol give [] bash

jenkins@ip-192-178-2-187:/root\$ pwd

/root

jenkins@ip-192-178-2-187:/root\$ cd --> come out file root

jenkins@ip-192-178-2-187:~\$ pwd

/home/jenkins --->we need to get like

[] ssh-keygen -t rsa

[] enter

[] enter

[] ls -a ----> check .ssh folder

[] cd .ssh

[] ls ----> we get two file id_rsa.pub(public key) and id_rsa (privet key)

[] rm id_rsa.pub id_rsa

[] vi authorized_keys -----> past server A content of cat id_rsa.pub

```
jenkins@ip-192-178-2-217: ~/workspace
|      . . oo+*|
|      ...=+|
+-----[SHA256]-----+
jenkins@ip-192-178-2-217:~$ ls
jenkins@ip-192-178-2-217:~$ ls -a
. . .bash_history .bash_logout .bashrc .profile .ssh
jenkins@ip-192-178-2-217:~$ cd .ssh
jenkins@ip-192-178-2-217:~/.ssh$ ls
id_rsa id_rsa.pub
jenkins@ip-192-178-2-217:~/.ssh$ rm id_rsa id_rsa.pub
jenkins@ip-192-178-2-217:~/.ssh$ ls
jenkins@ip-192-178-2-217:~/.ssh$ vi authorized_keys
jenkins@ip-192-178-2-217:~/.ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaClyc2EAAAADAQABAAQgQDD5QLffe459GzDz4wnx7z3MHQ4i6aNbTQpoRiEypZ
P5iB60r6XJidyNQkma+SUXyexB+c5+I+qJtbDbzQJlOW8yG5RhIKT0/ZI5+Dls3ZQ8yk+lB+vd47eydX
Zv/QOoLvElwxcOGEcYtmgX4fKGc15jASTZym9h4hcnqgAvWbo/p34CN3kwM0GmIIJSNeayzTWt9vDi1/
12k4kH1KnUU9Ig4fRO+W9K/UDIsWVdtTMHra/N440Hphn6EG6N4G/+aHA418izl0P8KNYsZdGLn/RiaY
dZ7yoA2qDlwD27RQ71RS8MNUFCRuqdg2KvXxaiLLQybe8wf7cX9NSuljkS861xbBcZX0ZNL8JThlXqKF
xDEz024wxR9o4KJjYmBvwpypc/a7qwZenVMzWuuVwldu9tDJgM1UywkqwkEg5YS4YWSMGNGK4rvnsTpXk
Mj0CLmFLhmIRkK761WxCqKMCaIFIBaUk/Z96NAdh5SZEekK4O1H8QiWMU6poiuggrf5kvTM= jenkins
@ip-192-178-2-187
jenkins@ip-192-178-2-217:~/.ssh$ pwd
```

in server A: (development server)

[] ssh jenkins@serverB ip

[] give YES

[] now it connect to server B

```
jenkins@ip-192-178-2-187:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaClyc2EAAAADAQABAAQgQDDSS5QLffE459GzDz4wnx7z3MHQ4i6aNbTQpoRiEypZ
P5iB60r6XJidyNQKma+SUXyexB+c5+I+qJtbDbzQJlOW8yG5RhIKT0/ZI5+Dls3ZQ8yk+lB+vd47eydX
Zv/QOoLvElwxcOGEcYtmqX4fKGcl5jaSTZYm9h4hcnqgAvWbo/p34CN3kwM0GmIIJSNeayzTWt9vDil/
l2k4kH1KnUU9Ig4fRO+W9K/UDIsWVdtTMHRA/N440Hphn6EG6N4G/+aHA418izl0P8KNYsZdGLn/RiaY
dZ7yoA2qDlwd27RQ7lRS8MNuFCRuqdg2KvXxailLQybe8wf7cX9NSuljkS861xbBcZX0ZNL8JThlXgKF
xDEz024wxR9o4KJjYmBvwpyc/a7qwZenVMzWuuVwldu9tDJgMlUywkqwkEg5YS4YWSMGNGK4rvnsTpXk
Mj0CLmFLhmIRkK76lWxCqKMCAIFIBaUk/Z96NAdh5S2EekK40lH8QiWMU6poiugqrf5kvTM= jenkins
@ip-192-178-2-187
jenkins@ip-192-178-2-187:~/.ssh$ ssh jenkins@192.178.2.217
The authenticity of host '192.178.2.217 (192.178.2.217)' can't be established.
ED25519 key fingerprint is SHA256:JeRJsP7mLBsB6aSkzeyxQnNFi8fzXaPwCNFBm8tVTgA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Host key verification failed.
jenkins@ip-192-178-2-187:~/.ssh$ ssh jenkins@192.178.2.217
The authenticity of host '192.178.2.217 (192.178.2.217)' can't be established.
ED25519 key fingerprint is SHA256:JeRJsP7mLBsB6aSkzeyxQnNFi8fzXaPwCNFBm8tVTgA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.178.2.217' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)

* Documentation:  https://help.ubuntu.com
```

[] exit

[] exit ----> again switch to server A

[] ls ---> know_host and know_host.old are created

In jenkins

[] manage jenkins

[] nodes and clouds

[] new node

[]name --->whatever it displays as server name

[] remote root directory

/home/jenkins/ -----> **what we created in server B like useradd**
jenkins

[] label ---->**whatever we mention this label name in pipeline**

[] usage

Select [] only build jobs with label expressions matching this node

[] launch method

Select [] launch agent via SSH

[] host

[] ip adders of production/server B

[] credentials

[] kind

Select [] SSH username with private key

[] ID

[] description

[] username

[] jenkins ----> **we created in server B**

[] private key

Select [] enter directly

[] Add

[] Past content of [] cat id_rsa

[] save

[] check in log it shows successfully connected

Dashboard > Manage Jenkins > Nodes > prodserver > Configure

- Status
- Delete Agent
- Configure**
- Build History
- Load Statistics
- Script Console
- Log
- System Information
- Disconnect
- Open Blue Ocean

Name ?
prodserver

Description ?
[Plain text] [Preview](#)

Number of executors ?
1

[Save](#)

Build Executor Status ▾

Dashboard > Manage Jenkins > Nodes > prodserver > Configure

[Open blue Ocean](#)

Build Executor Status ▾

1 Idle

Remote root directory ?
/home/jenkins

Labels ?
prod122

Usage ?
Only build jobs with label expressions matching this node ▾

Launch method ?
Launch agents via SSH ▾

Host ?
192.178.2.217

[Save](#)

Dashboard > Manage Jenkins > Nodes > prodserver > Configure

Credentials ?

jenkins (prod server 122) ▼

Add ▼

Host Key Verification Strategy ?

Known hosts file Verification Strategy ▼ ?

Advanced ▼ Edited

Availability ?

Keep this agent online as much as possible ▼ ?

Node Properties

Save

In credential:

Jenkins Credentials Provider: Jenkins

Add Credentials

Domain

Global credentials (unrestricted) ▼

Kind

SSH Username with private key ▼

Scope ?

Global (Jenkins, nodes, items, all child items, etc) ▼

ID ?

Advanced ▼ Edited

ID ?

Description ?

Username

☐ Treat username as secret ?

Private Key

☒ Enter directly

Key

☐ Treat username as secret ?

Private Key

☒ Enter directly

Key

Enter New Secret Below

Passphrase

Add Cancel

Ex pipeline code:

```

pipeline{
  agent {label 'dev123'} -----> what we give in node setting
  stages{
    stage('gitcheckout'){
      steps{

```



```
    git credentialsId: 'path', url:  
'https://github.com/kanchana08/Dockerfile_python.git'  
  }  
}  
}  
}
```