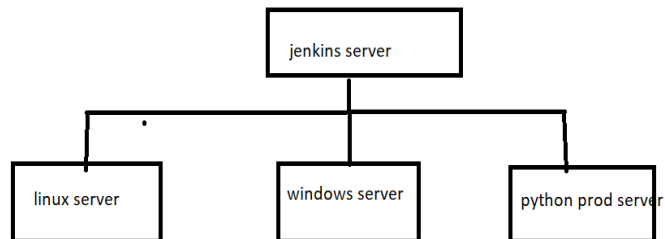**Linux Slave Server adding to jenkins nodes:**

STEP1: Open the jenkins server and switch to the Jenkins user in jenkins server

[root] su – jenkins

[jenkins]

Generate private and public keys here by using ssh-keygen

[jenkins]ssh-keygen –t rsa

Type enter, enter , enter

[]ls –a

[]cd .ssh

[jenkins .ssh] ls

Id_rsa   Ida_rsa.pub

Copy the public_key and open the slave server (prod server)

[prod srvr] apt update

[prod srvr] sudo apt-get install fontconfig openjdk-11-jre

[prod_server] useradd –m jenkins

[]passwd jenkins

[]su – jenkins

$ bash

[jenkins]ssh-keygen –t rsa

Enter enter enter

[jenk]cd .ssh

[jenkins] id_rsa id_rsa.pub

[jenkins] rm id_rsa id_rsa.pub

Remove this two keys because we don't require

Create file named authorized_keys in this .ssh folder and paste public key code of jenkins server (.ssh folder public key).

[jenkins] vi authorized_keys

113bjb31nbn3b1nb3kjnb1jb1nk133jkjnb3kjb1

:wq!

Now go to jenkins server to check connection of prod server.

[jenkins server] ssh jenkins@1.2.3.4   ->prod server private I/p

 Type yes ...

[jenkins prod]   ---> sucessfully accessed prod server from jenkins server to prod svrv

$

Exit

Now open Jenkins dashboard:

Go to manage jenkins

Select manage nodes

Give name to node: Screenate prod node

Description : prod server joining

No.of exec 1

Remoteroot: /home/jenkins

Labels : Screenateprod

Usage : only build with label expression matching this node.

Launch mode : Launch via SSH

HOST: 1.2.3.4   -> slave private I/p

ADD Credentails:-

Sel SSH and private key

Uname : jenkins

Privatekey:

Paste private key of the jenkins server .ssh id_rsa

Save

Select jenkins credentials : jenkins   (which we gave now)

Save

Or else don't do ssh jenk@pvtip go with process one upto pub shhkey pasting to slave auth_keys and in jenk slaves go with manually trust keys instead of going with knows hosts.

Slave added successfully.

Now build the using pipeline code and mention slave label name in pipeline

It will get sucessful..

Delete Agent

Configure

Build History

Load Statistics

Script Console

Log

System Information

Disconnect

Build Executor Status   ⌄

1 Idle

Linux-126Server

Description ?

Linux 126 server where fastTclose is running.

[Plain text] Preview

Number of executors ?

1

Remote root directory ?

/home/jenkins

Save

Labels ?

FastTclose

Usage ?

Only build jobs with label expressions matching this node   ⌄

Launch method ?

Launch agents via SSH   ⌄

Host ?

192.168.10.126

Credentials ?

jenkins (jenkins server private key .ssh id_rsa)   ⌄

Save

Dashboard > Manage Jenkins > Nodes > Linux-126Server > Configure

Credentials ?

jenkins (jenkins server private key .ssh id_rsa)   ▼

[Add ▼]

Host Key Verification Strategy ?

Known hosts file Verification Strategy   ▼   ?

[Advanced ▼]   ✎ Edited

Availability ?

Keep this agent online as much as possible   ▼   ?

[Save]
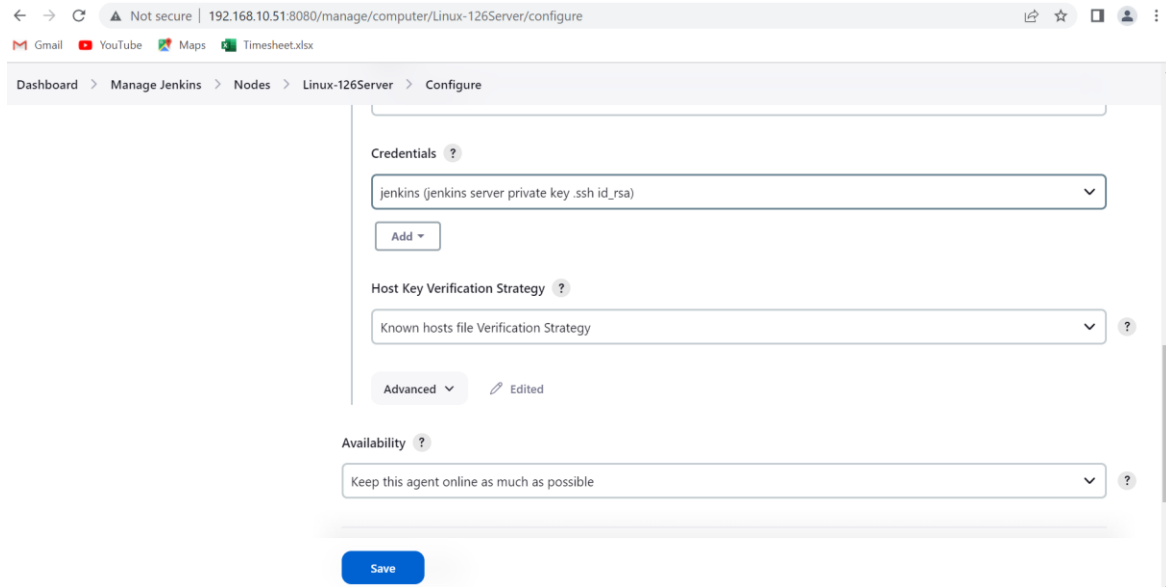
pipeline {

   agent {label 'FastTclose'}

 stages {

  stage('Git checkout') {

   steps {

   git branch: 'master', credentialsId: 'PAT', url: 'https://proj.git'

   }

  }

```
    }
  post{
     failure{

        mail to: "nadimpali.pradeepk@.com",

        subject: "jenkins build:${currentBuild.currentResult}: ${env.JOB_NAME}",

        body: "${currentBuild.currentResult}: Job ${env.JOB_NAME}\nMore Info
can be found here: ${env.BUILD_URL}"


      }
   }
}
```

Process 2:

If SSH port changed to another port and if face host key verification
failed.

Login Linux slave server switch to jenkins user and remove .ssh if there
and generate the SSH keys

[jenkins_slave] ssh-keygen –t rsa

Enter

Enter

Enter

[/.ssh]ls

Id_rsa id_rsa.pub
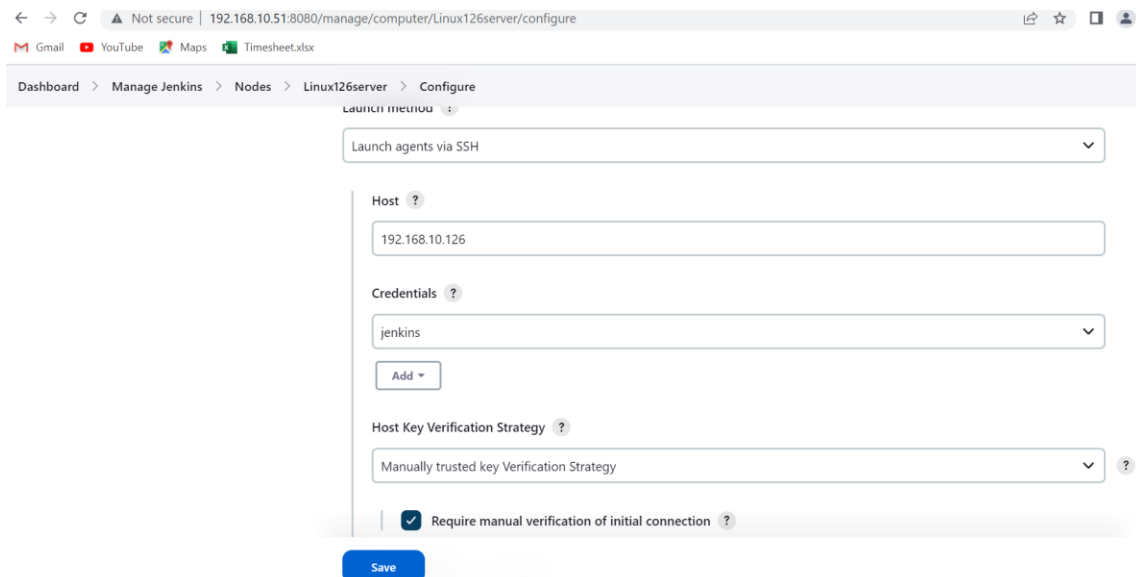
Create the file called authorized_keys

And copy the pubkey of   slave ssh to authorized_keys

Vi authorized_keys

Fdggee21ewfewf ewew ew few f ewf ewgf reg reg reg reg reg re grere
r324 r432 r43 43 32 432 4 32432 43 t45 gtr4 g r4vr4 tr4g rg reg reg eg
eg e gfe gfr gfr gfe g ff df fds fds gfd hre fd ge gfd geg dgdg dsf dsgf s

Come to jenkins manage nodes:

Select add new node and give name to node.

Give name and description and select launch mode via SSH

Host : pvt ip of slave

**Credentials: sel ssh and pvtkey ,create and select uname jenkins and
private key (paste slave ssh private I/p)**

Select: jenkins cred which we provided above and

Select hostkey verification strategy : manually trusted key vrfcn strategy

Selct Check req manual vrfctn cnnctn.

Change port if ssh port is changed remove 22 and give ssh new port.

Save and select right side trust hostkey and slave will automatically connected.

"Host key verification failed" means that the **host** key of the remote host was changed.

SSH stores the host keys of the remote hosts in ~/.ssh/known_hosts. You can either edit that text file manually and remove the old key (you can see the line number in the error message), or use

```
ssh-keygen -R hostname
```

It removes keyhosts file from .ssh folder and we will generate it again with new keys.

Process 3:

Error :

07/15/23 14:05:32] [SSH] SSH host key matches key seen previously for this host. Connection will be allowed. ERROR: Server rejected the 1 private key(s)

```
for jenkins (credentialId:jenkins/method:publickey)
[07/15/23 14:05:32] [SSH] Authentication failed.
Authentication failed.
```

Answer:

Follow first process copy id_rsa pub of master jenk to slave ssh authorized_keys and generate the known hosts in jenkins .ssh

in configure node linux
add name and desc and label and all and Launch method sel ssh

Add credentials as uname jenkins and passwd of jenk user in 126 server.

Sel manually trusted key check mark require manual verification. and Launch the node again.

Process 4 :

[] Create ssh key for both server and copy the public key of jenkins server to slave server

[] in node configure credentials paste privete key of jenkins server by selecting ssh pvtkey.

[] in host key verification strategy select manually trusted key verification and select require manual verification

[] after launching, click launched server select trust manually and select yes