**SETUP MASTER AND SLAVE**

**1. Launch Master and slave machine**

**2. connect to master install java, maven, git, and Jenkins**

**3.connect to slave machine install java**

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**ON Agent Machine**

**step1: modify PasswordAuthentication No to Yes (in /etc/ssh/sshd\_config file)**

**step2: create a Jenkins user with # adduser jenkins (it will automatically take user creation and password )**

**step3: set permission for sudo privileges in slave machine for jenkins user command is # usermod -aG sudo jenkins (Now jenkins user also run root users commands)**

**step4: restart ssh service # service ssh restart**

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**On Master Machine**

**step1: connect to master machine and switch to jenkins user # sudo su - jenkins and generate keys # ssh-keygen (it will generate private key and public key)**

**step2: send public key to jenkins user in slave machine # ssh-copy-id jenkins@slave-private-ip**

**step3: connect to jenkins user in slave machine**

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**Up to here passwordless authentication has been established from master machine jenkins user to slave machine jenkins user**

**Jenkins webpage :**

**step1: Add slave machine in the jenkins webpage (adding node)**

**step2: Goto jenkins manage-->Nodes-->name(slave1)-->select permanent agent-->Number of executors(2)-->RemoterootDirectory(/home/jenkins)-->labels(jenkins-agent01)-->usage(use this node as much as possible)-->Launch method(Launch agent via ssh)-->Host(172.31.27.204(slave-private-ip))-->credentials{select username and password(username[jenkins]password[\*\*\*\*]jenkinsID[jenkins-key]description[jenkins-key])}-->Hostkey verification strategy(known host file verification strategy)-->Availability(keep this agent online as much as possible)-->click on save**

**To Run Builds on slave Machine From Jenkins Master webpage**

**—------------------------------------------------**

**pipeline {**

**agent {**

**label 'jenkins-agent01'**

**}**

**stages {**

**stage('download code') {**

**steps {**

**git 'https://github.com/thej950/maven.git'**

**}**

**}**

**}**

**}**

**—-------------------------------------------------**

**from above labels sections specifying agent01 now that git using workspace will be download on slave machine jenkins workspace will be available**