

MASTER AND SLAVE CONFIGURATION:

- * Create two servers master and slave
- * Install java, Jenkins, git, maven on master
- * Install java, git, maven on slave

Installing java on amazon linux:

- * `sudo amazon-linux-extras install java-openjdk11`
- * `sudo yum install java-1.8.0-openjdk`
- * `Alternatives --config java`
- * `java -version`

Install jenkins on linux:

- * `sudo wget -O /etc/yum.repos.d/jenkins.repo http://pkg.jenkins-ci.org/redhat/jenkins.repo`
- * `rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key`
- * `sudo amazon-linux-extras install epel`
- * `sudo yum install jenkins`
- * `systemctl start jenkins`
- * `systemctl status jenkins`

Install git

- * `yum install git -y`
- * `git --version`

Install maven

- * `yum install maven -y`
- * `mvn -version`

Jenkins dashboard:-

- Download maven plugin
- Global tool configuration: add java, maven paths

Slave node:

*create user: useradd username

*give password: passwd *****

*give root privelages to that user : visudo

*create key: ssh-keygen

*cd .ssh

* cat id_rsa.pub > authorized_keys

* chmod 700 authorized_keys

Master node:

*sudo mkdir -p /var/lib/jenkins/.ssh

*cd /var/lib/jenkins/.ssh

*cd ..

*sudo chmod 777 .ssh

*cd .ssh

*sudo ssh-keyscan -H SLAVE_NODE_PRIVATE_IP >>/var/lib/jenkins/.ssh/known_hosts

*sudo chown jenkins:jenkins known_hosts

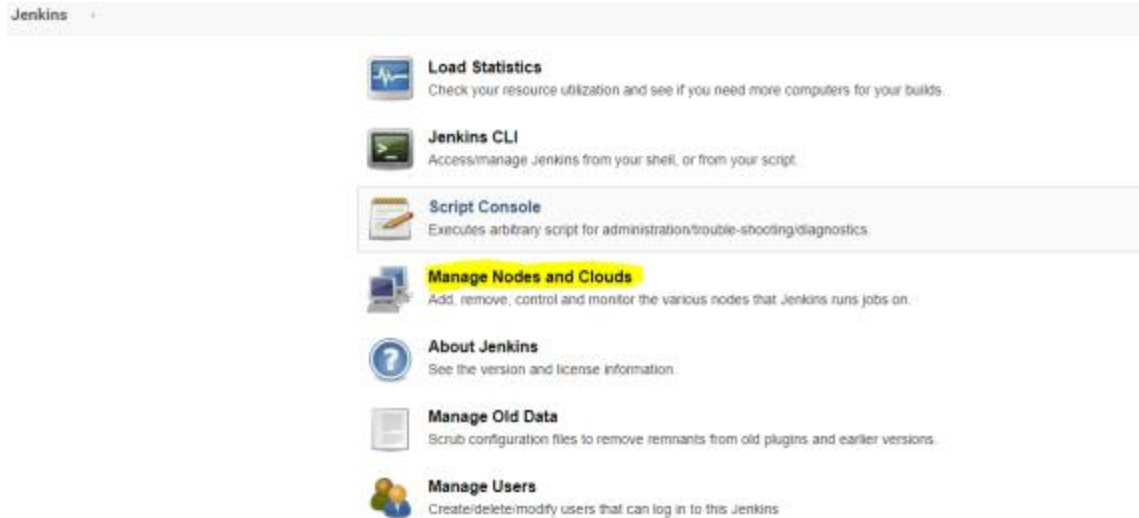
*sudo chmod 700 known_hosts

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java-3.6.0-openjdk

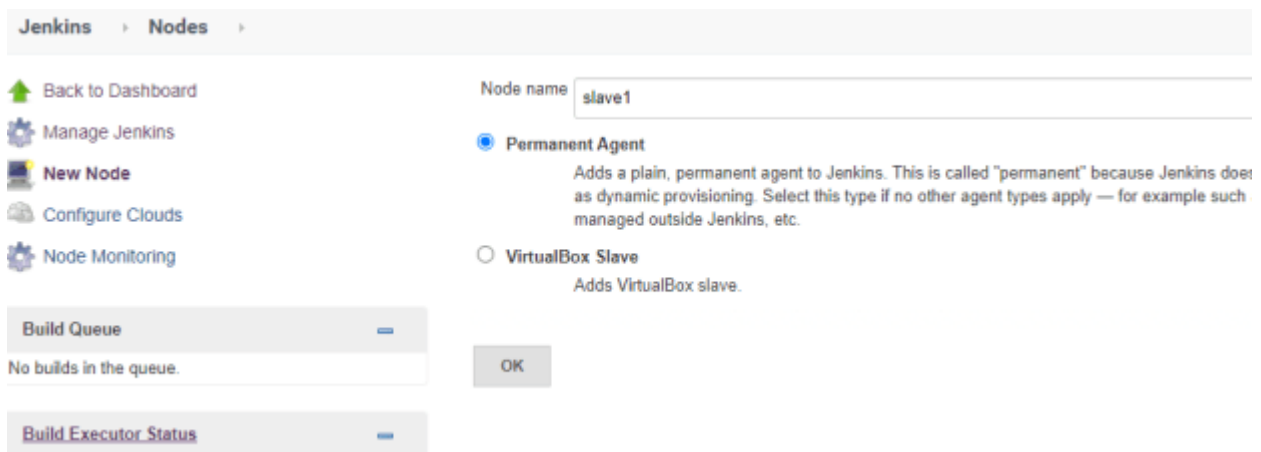
Configure New Node in Jenkins:

1. Click on Manage Jenkins.
2. Click on Manage Nodes and Clouds





3. Click on New Node

4. Enter Node name and select Permanent Agent. Click OK



5. Enter node configuration details as shown below.

Name	slave1		
Description	slave1		
# of executors	10		
Remote root directory	/home/jenkins-slave-1		
Labels	slave		
Usage	Use this node as much as possible ▼		
Launch method	Launch agents via SSH ▼		
Host	172.31.33.69		
Credentials	jenkins-slave-1 ▼	 Add ▼	
Host Key Verification Strategy	Known hosts file Verification Strategy ▼		

 Advanced...

6. In Credentials, Click Add -> Jenkins

7. In Add Credentials, choose kind as "SSH Username with private key"

8. In Username field, enter the same username which we created on Slave Node – jenkins-slave1

9. In Private Key, choose Enter directly

Kind SSH Username with private key

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

ID

Description

Username jenkins-slave1

Private Key ☒ Enter directly

Key Enter New Secret Below

Passphrase

OK

10. Go to Slave EC2 server and copy the private key.

```
sudo su - jenkins-slave1
```

```
cd .ssh
```





```
more id_rsa
```

11. Paste the key in the Private key field in Jenkins.

12. Click on Add.

13. In the Node Configuration page choose the new credential.

14. Click on Save.

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	master	Linux (amd64)	In sync	6.02 GB	 0 B	6.02 GB	0ms
	slave1	Linux (amd64)	In sync	6.35 GB	 0 B	6.35 GB	24ms
Data obtained		7 min 29 sec	7 min 29 sec	7 min 29 sec	7 min 29 sec	7 min 29 sec	7 min 29 sec
							Refresh status

```
1.ajava-openjdk11j1j
```

