

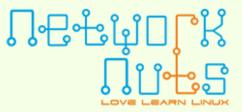
# **JENKINS NODE**

Jenkins master/slave architecture is used for distributed build environments, where the workload of building projects is distributed to multiple agent nodes, and we can use different environments for each build.

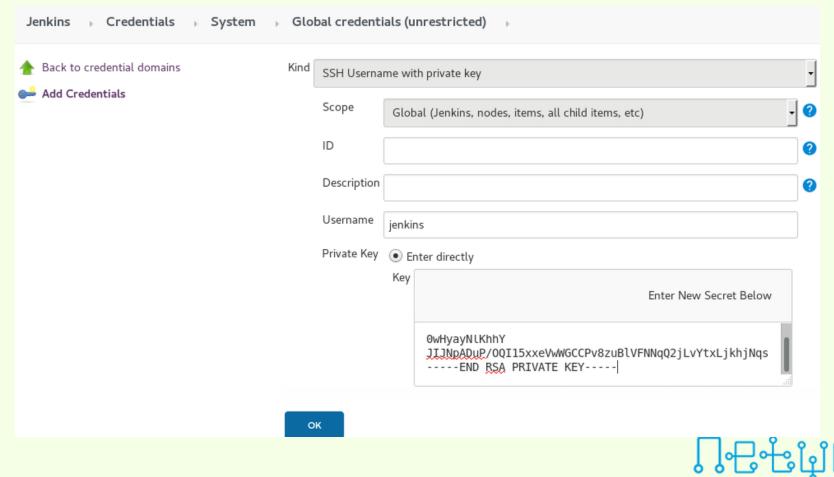


Create ssh keys for "jenkins" user on Jenkins master.

```
root@jenkins:~
                                                                            C ×
File Edit View Search Terminal Help
-bash-4.2$
-bash-4.2$
-bash-4.2$ whoami
jenkins
-bash-4.2$
-bash-4.2$ #ssh-keygen
-bash-4.2$
-bash-4.2$ pwd
/var/lib/jenkins/.ssh
-bash-4.2$
-bash-4.2$ ll
total 12
-rw-----. 1 jenkins jenkins 1675 Jun 30 18:51 id rsa
-rw-r--r-. 1 jenkins jenkins 409 Jun 30 18:51 id rsa.pub
-rw-r--r-. 1 jenkins jenkins 379 Jul 1 15:17 known hosts
-bash-4.2$
-bash-4.2$
```

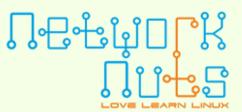


Configure jenkins user credentials to Jenkins dashboard. Select "credentials -> global -> add". Supply the "id\_rsa" for user jenkins.



Confirm that jenkins user credential has been created.



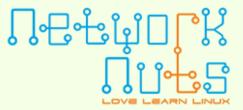


Go to the slave node (10.0.0.101) and install the packages.

# yum -y install java-1.8.0-openjdk git

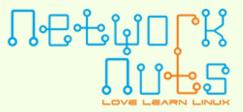
Create a user "jenkins" on the slave node

# useradd -d /var/lib/jenkins jenkins
#passwd jenkins

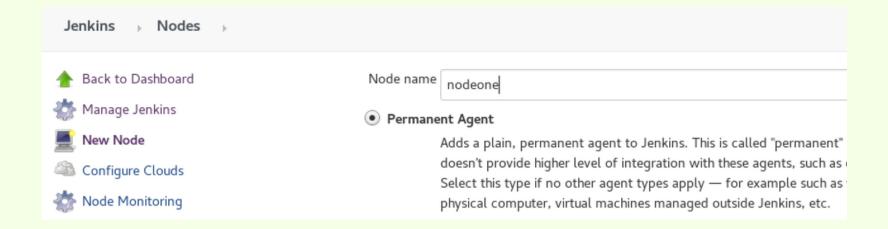


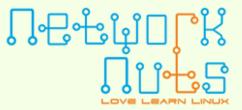
Copy the id\_rsa.pub from jenkins master's "jenkins" user to "jenkins" user on node

```
-bash-4.2$
-bash-4.2$ pwd
/var/lib/jenkins/.ssh
-bash-4.2$
-bash-4.2$ lt
total 12
-rw-----. 1 jenkins jenkins 1675 Jun 30 18:51 id_rsa
-rw-r--r-. 1 jenkins jenkins 409 Jun 30 18:51 id_rsa.pub
-rw-r--r-. 1 jenkins jenkins 379 Jul 1 15:17 known_hosts
-bash-4.2$
-bash-4.2$
-bash-4.2$ ssh-copy-id jenkins@server.example.com
```



Add the slave node on jenkins master dashboard. Go to "manage jenkins -> manage node and cloud". Select "New Node"





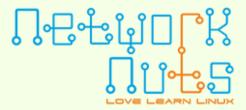
Supply node information details.

Description: anything

Remote root directory: /var/lib/jenkins

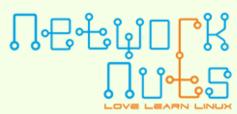
Labels: server

Launch method: Launch slave agent via SSH, type the host ip address '10.0.0.101', choose the authentication using 'Jenkins' credential.



# Select Save.

Jenkins > Nodes >					
<ul> <li>⚠ Back to Dashboard</li> <li>☼ Manage Jenkins</li> <li>☑ New Node</li> <li>☒ Configure Clouds</li> <li>☒ Node Monitoring</li> </ul>		Name	Name nodeone  Description anyting		<b>②</b>
		Description			•
		# of executors	1		<b>②</b>
		Remote root directory	/var/lib/jenkins		•
Build Queue		Labels	server		<b>2</b>
No builds in the queue.		Usage	Use this node as much as possi	ible	• 2
Build Executor Status	-	Launch method	Launch agents via SSH		. 2
master  1 Idle			Host	10.0.0.101	<b>②</b>
2 Idle			Credentials	jenkins ▼	<b>②</b>
server 1 Idle		<b>k</b>	Host Key Verification Strategy	Known hosts file Verification Strategy •	0
				_	•



Within few moment your slave jenkins server will be ready for builds.



