# Jenkins Master-Slave Configuration using SSH

***Pre-requisites:***

1. Ubuntu 16 Server IP with Java and Maven installed in it,should be available to be configured as slave.
2. Security Group Inbound Rules should be opened for the required ports and IPs.

For lab, the required ports are opened for slaves.

***Steps at Jenkins end:***

1. Login to Jenkins;
2. On the Left Navigation panel, Clcik on  **Credentials** link
3. Under **Stores Cpies to Jenkins** section,Click on **Global** link
4. Click **Add Credentials**
5. Keep **Kind** as Username with password
6. Enter **Username**  as devops
7. Enter **Password**  as Dev0p$!!/
8. Enter **ID**  as slavemachine
9. Enter **Description**  as slavemachine
10. Click **OK**
11. Navigate to **Manage Jenkins**
12. Click Manage Nodes
13. Click **New Node**
14. Enter Node Name such as testslave1
15. Select **Permanent Agent** radio button
16. Click  **OK**
17. On Node details page, Enter **Remote root directory** as “/home/devops”
18. Enter **Labels** as <same as Node Name>
19. Select **Launch method** as Launch agent agents via SSH
20. Enter **Host** as <IP of yor slave>
21. Select **Credentials** as slavemachine
22. Select **Host Key Verification Strategy**  as Non Verifying Verification Strategy
23. Click  **Advanced**  button
24. Enter **Remoting Work directory**  as /*home/*devops
25. Click **Save**
26. Agent will be shown as Offline
27. Click on **Relaunch agent**
28. It may get launch instantly OR may take some time or may not launch at all.
29. If agent is still shown as Offline, Keep trying and relaunching the agent.
30. Click on **Back to list**  to see if agent is shown as Online i.e without red cross on computer icon.
31. Navigate back to Jenkins Home page
32. Click on **New item** link
33. Enter **Name**  as testslavejob
34. Select **Free Style Project**
35. Click **OK**
36. On Job Details Edit page appears
37. On **General** Tab, Select checkbox **Restrict where this project should be run**
38. Enter **Label Expression** as testslave1
39. Click **Save**
40. Click on **Build Now**
41. Click on the **Build #**
42. Click on **Console Output**
43. View that the build has run on Slave and not on Master.

**Please note that for future labs , you can select to run your job on Master OR Slave using this setting in General Tab of your Job Details.**