To add a Node/Slave to Jenkins master.

Step 1:

Create an VM with same OS and install Java 1.8 as installed on Jenkins master.

Before you can install Jenkins, you need to setup a Java virtual machine on your system. Here, let's install the latest OpenJDK Runtime Environment 1.8.0 using YUM:

```
sudo yum install java-1.8.0-openjdk.x86_64
```

After the installation, you can confirm it by running the following command:

```
java -version
```

This command will tell you about the Java runtime environment that you have installed:

```
openjdk version "1.8.0_91"

OpenJDK Runtime Environment (build 1.8.0_91-b14)

OpenJDK 64-Bit Server VM (build 25.91-b14, mixed mode)
```

In order to help Java-based applications locate the Java virtual machine properly, you need to set two environment variables: "JAVA_HOME" and "JRE_HOME".

```
sudo cp /etc/profile /etc/profile_backup

echo 'export JAVA_HOME=/usr/lib/jvm/jre-1.8.0-openjdk' | sudo tee -a /etc/profile

echo 'export JRE_HOME=/usr/lib/jvm/jre' | sudo tee -a /etc/profile source /etc/profile
```

Finally, you can print them for review:

```
echo $JAVA_HOME
echo $JRE_HOME
```

Step2:

Create an project folder on the Node/Slave for the workspace area.

```
[root@localhost project]# pwd
/root/project
[root@localhost project]#
```

The folder should have the same user permission that would be used to authenticate Slave from Master.

For example, if you are using centos as the username then the folder "project" should have the same right as below.

```
[centos@localhost root]$ cd ~
[centos@localhost ~]$ ls
[centos@localhost ~]$ pwd
/home/centos
[centos@localhost ~]$ mkdir project
[centos@localhost ~]$ ls -1
total 0
drwnrwyr-x. 2 centos centos 6 May 5 00:26 project
[centos@localhost ~]$ |
```

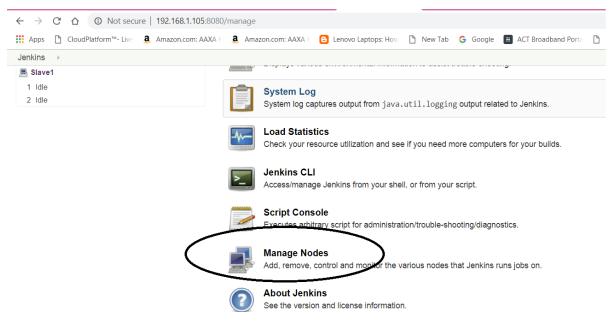
If it does not then,

\$ chown centos:centos project

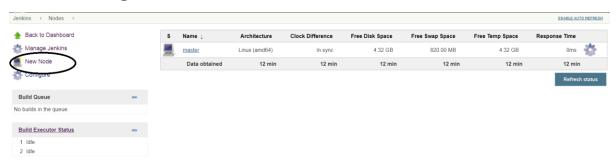
Step3:

On the Jenkins master, under the Manage Jenkins

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Click on "Manage Nodes".



Click on "New Node".



Provide the below

Name: < Any name>

Executors: no of jobs to be run parallelly on the slave.

Remote directory: -- on the slave node, the location where the "workspace" would be used temporarily during the JOB execution.

Label: -- Group of Slave machines, eg: -GR1

Launch Method: -- SSH agent

Host name: -- Ip address of the slave machine, eg:- 192.168.1.106.

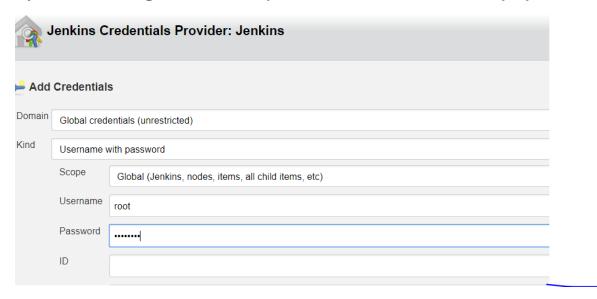
Credentials: -- Username and pwd to login to the Slave machine by the Master.

In case the slave VM is simple usr and pwd. Then below



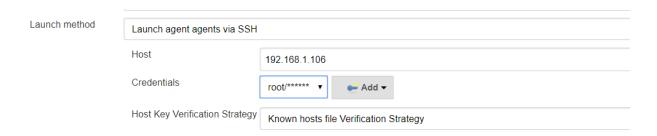
Click on "Jenkins".

Option 1: -- Adding username and password for VM's created on laptop.

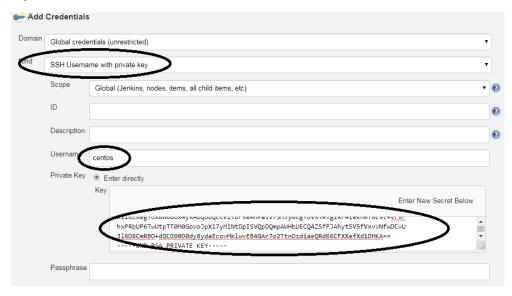


Enter the username and pwd and click on "Save" Then the below screen, to select the credentials that is just configured

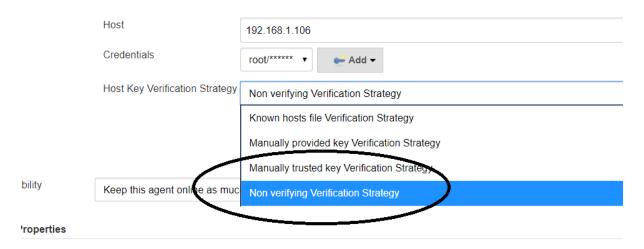
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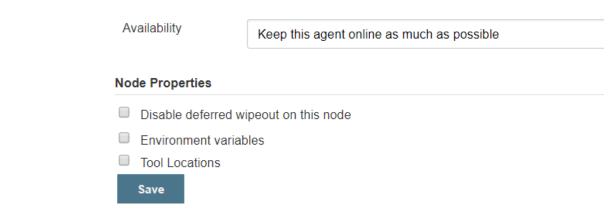
Option 2: - For slave machines created on AWS EC2 instance.



The credentials created should be selected as above screen.



Select "non Verifying" as we don't hve the SSL.



Click on save.

Once the Agent is successfully installed, the below screen would be visible.

