

# JENKINS MASTER SLAVE SETUP IN AWS EC2

## 1) To make password less connection use ssh-keygen

Ssh-keygen is a tool for creating new authentication key pairs for SSH. Such key pairs are used for automating logins, single sign-on, and for authenticating hosts.

Let **server1** - 192.168.0.1 and **server2** - 192.168.0.2

**STEP 1:** Create Authentication SSH-Keygen Keys on 192.168.0.1

**ssh-keygen -t rsa**

It will ask for inputs like pass phrase at that time just press enter

**STEP 2:** Create .ssh Directory on – 192.168.0.2

Do normal ssh to server 2 and create .ssh directory

(or)

Create .ssh directory directly using ssh command from server1

**ssh server1@192.168.0.1 mkdir -p .ssh**

**STEP 3:** Upload Generated Public in server1 to server2 – from 192.168.0.1 to 192.168.0.2

**cat .ssh/key.pub | ssh user@192.168.0.2 'cat >> ~/.ssh/authorized\_keys'**

**STEP 4:** Set Permissions of authorized\_keys on server1 and server2

**ssh user@192.168.0.2 "chmod 700 .ssh; chmod 640 .ssh/authorized\_keys"**

**STEP 5:** Login from 192.168.0.1 to 192.168.0.2 Server without Password

**ssh [username@192.168.0.2](#)**

## 2) Change jenkins default user to root (In AWS free account we can't add new user with root permission so use default root user only)

**STEP 1:** In /etc/sysconfig/jenkins file change JENKINS\_USER="jenkins" to JENKINS\_USER="root"

**STEP 2:** Make root as owner to all jenkins related folder & files (run the bellow commands in master jenkins instance).

**sudo chown -R root:root /var/lib/jenkins**


**sudo chown -R root:root /var/cache/jenkins**


**sudo chown -R root:root /var/log/jenkins**

## 3) Create new slave node

**STEP 1: Manage Jenkins -> Manage Nodes -> New Node**

 [Back to Dashboard](#)

 [Manage Jenkins](#)

 [New Node](#)

 [Configure](#)

## STEP 2: Any Node name and choose as permanent Agent -> ok

Node name

☒ **Permanent Agent**  
Adds a plain, permanent agent to Jenkins. Typical use cases include dynamic provisioning. Select this type for machines managed outside Jenkins, etc.

☐ **Copy Existing Node**  
Copy from

## STEP 3: Do the below settings

### Remote root directory

/opt/jenkins

Create a jenkins root directory in slave instance

Example: Default path should be /opt/jenkins

**sudo mkdir /opt/jenkins**

**sudo chown -R ec2-user:ec2-user /opt/jenkins**

### Launch Method

Launch agent agents via SSH

(If this option not found then install **SSH Slaves plugin**)

### HOST

Public IPv4 of slave instance

### Host Key Verification Strategy

Manually Provided Key Verification Strategy

### Credentials

Add -> Jenkins

Jenkins Credentials Provider: Jenkins

**Kind** -> SSH username with private key

**Username** -> ec2-user (AWS default user)

**Private Key** -> enter manually

Private key of master instance created by ssh-keygen

**cat ~/.ssh/id\_rsa**

**Save / Add**

### SSH Key

Copy the public key of AWS slave instance here.

**cat /etc/ssh/ssh\_host\_rsa\_key.pub**

## Add Node snapshot


Name	slave2		
Description			
# of executors	5		
Remote root directory	/opt/jenkins		
Labels			
Usage	Use this node as much as possible		
Launch method	Launch agent agents via SSH		
Host	18.191.190.216		
Credentials	ec2-user <span>Add</span>		
Host Key Verification Strategy	Manually provided key Verification Strategy		
SSH Key	<pre>ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDAW+JYj9tgayesolosVG5M5PAXdEARYUH9ZyegYopWbQjODnBpC8vnBY4m30TZb+2HOU4giNGu3HFJlvp7Bwoltbzrl2gaayYol QkwZZNRahs/Q7zAi1uhhoSLams6S2NEcQIH2hiESzA8Ho9KoEYBE5L4BBBPk8oB9G0Xkj1LpINmM8EuhGSxtSnmmYxh+YRH3VYYlaBTz78Hym007w3XLmngUEzFg+ 4PoPoeFZTaGC0CwKgOLMy1IOB+BWWYJjcJYNOlpg48rdUc7MtoHBuUjLywGXIndfAG+JYN882n8U9xf2uV5i3wfxLEghYYrfeWMGLouiuSwkgDctU/</pre>		
<span>Advanced...</span>			
Availability	Keep this agent online as much as possible		


**Node Properties**

- ☐ Environment variables
- ☐ Tool Locations

Save

## Credentials snapshot

 **Jenkins Credentials Provider: Jenkins**

 **Add Credentials**

Domain	Global credentials (unrestricted)
Kind	SSH Username with private key
Scope	Global (Jenkins, nodes, items, all child items, etc)
Username	ec2-user
Private Key	<input checked="" type="radio"/> Enter directly
Key	<pre>62HP57PSuxmpQP90mVOfo/QFMAg8CnFHdpZlbf/TJM/UXqDtMnksilzrioZ0c8jk EzwiRbplc91S9koh/p/ojgGS1CQRWCKkRuCMYHtzeTqSCaDbFBf -----END RSA PRIVATE KEY-----</pre>
Passphrase	
ID	
Description	

Add Cancel