

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	<code>/opt/jenkins</code> Create a jenkins root directory in slave instance Example: Default path should be <code>/opt/jenkins</code> <code>sudo mkdir /opt/jenkins</code> <code>sudo chown -R ec2-user:ec2-user /opt/jenkins</code>
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 <code>cat ~/.ssh/id_rsa</code> Save / Add
SSH Key	Copy the public key of AWS slave instance here. <code>cat /etc/ssh/ssh_host_rsa_key.pub</code>

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		Add
Host Key Verification Strategy	Manually provided key Verification Strategy		
SSH Key	<pre>ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDAW+JYj9tgayesolosVG5M5PAXdEARYUH9ZyegYopWbQjODnBpC8vnBY4m30TZb+2HOU4giNGu3HFJlvp7Bwoltbzrl2gaayYol QkwZZNRahs/Q7zAi1uhhoSLams6S2NEcQIH2hiESzA8Ho9KoEYBE5L4BBBPk8oB9G0Xkj1LpINmM8EuhGSxtSnmmYxh+YRH3VYYlaBTz78Hym007w3XLmngUEzFg+ 4PoPoeFZTaGC0CwKgOLMy1IOB+BWWYlJcJYNOlpg48rdUc7MtHBUjLywGXIndfAG+JYN882n8U9xf2uV5i3wfxLEghYYrfeWMGLouiuSwkgDctU/</pre>		
 Advanced...			
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