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 /ect/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 Jenksin -> 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	slave2
Permanent Agent	
	Adds a plain, permanent agent to Jenkins. T such as dynamic provisioning. Select this tyl machines managed outside Jenkins, etc.
O Copy Ex	isting Node
	Copy from
ОК	

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 MethodLaunch 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

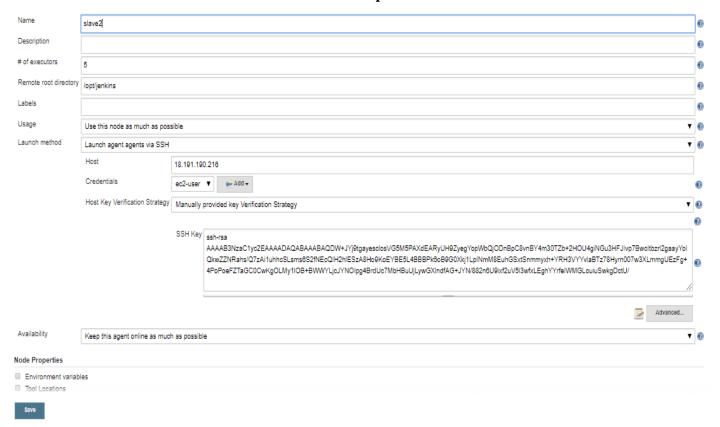
cat ~/.ssh/ id_rsa

Save / Add

SSH Key Copy the public key of AWS slave instance here.

cat /etc/ssh/ssh_host_rsa_key.pub

Add Node snapshot



Credentials snapshot

