**Master Slave Architecture: Jenkins**

1. Created a Virtual Machine using Linux Operating System. (Master)
2. Created another Virtual Machine using Linux Operating System(Slave).
3. Installed Jenkins server on first instance (Master).

Steps:

* Jenkins on aws (on web browser)
* Install and Configure Jenkins
* Downloading and installing Jenkins
* sudo yum update –y
* sudo wget -O /etc/yum.repos.d/jenkins.repo \https://pkg.jenkins.io/redhat-stable/jenkins.repo
* sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
* sudo yum upgrade
* sudo yum install jenkins -y
* sudo systemctl start jenkins
* sudo systemctl status jenkins

1. Installed Java Version 17 on second instance using the command yum install Java-17.
2. Created a directory dir1 in second instance.
3. Connected to Jenkins server using public IP address of 1st instance(Master).
4. In the Jenkins dashboard- Manage Jenkins- Nodes- create a new node -in the remote root directory section copy the directory path from the Slave instance and paste it and in the internal data directory- select (use web socket) and save it.
5. Click on the newly created node and copy the agent command line(Unix) and paste in the instance2 inside the directory ‘dir1’.
6. agent jar should be present.

10.Connect the slave to master-if node is offline.

11.Go to the Jenkins server and create a new freestyle project and specify the git hub repository link (**pre-requisite-**install git-**command**:- yum install git) and in buildsteps -(if .java files present,

javac filename

java filename

If .sh files present chmod +x ./filename.sh

./filename.sh

12.Build now.





