1.
Create 1 master machine and 2 slave machine

Install java in all of them after updating them sudo apt-get install openjdk-11-jdk

Install jenkins only in the master machine . https://www.jenkins.io/doc/book/installing/linux/

use weekly release.

Now copy the machine public ip and check public-ip:8080 jenkins should be running .

now do a cat of /var/lib/jenkins/secrets/initialAdminPassword

install suggested plugins
set up user-name and password

2.Set up the Agent .
Node name - Slave1
Permanent Agent

Remote Root Directory
/home/ubuntu/jenkins
Launch Agent
Launch agent via ssh
host - private ip of the slave
Credential add - give the .pem file of the slave
kind- ssh username with private key
treat username as secret
enter directly - add - .pem
select the credential created.
Host key verification strategy - non verifying verification
strategy

3.Add new node
Type permanent agent
Remote Root Directory
/home/ubuntu/jenkins
Launch method - Launch method connecting to its controller

Click on the slave name
Run the unix command
configure the tcp rule by going down

tcp port for inbound agent - random All nodes in sync 4. Create a github repo and create file . Create new branch develop and put the develop file as well. create job1(item) free-style project Description - Specify where this project should run . Slave1 Source Code: - Management Git Give Repository URL https://github.com/penn-api/master.git Branch to build - branch specifier - develop branch. Build Triggers Github hook triggers GITScm polling Github branch setting \rightarrow webhook \rightarrow add webhook \rightarrow give the payload url or the jenking --> public-ip:8080 Now build the job Now go to your slavel machine check for jenkins folder then workspace then jobs and check the files. 5. Now do the same thing for the Slave2 as well create job2 . 6. Now go to job1 , configure it and in the post build action build other projects give job2 save it 7.Build steps execute shells sudo apt-get install docker.io -y sudo docker build -f doc -t demo . sudo docker run -itd -p 83:80 demo In the meantime go to the Develop branch doc file

FROM ubuntu

RUN apt-get update -y
RUN apt-get install apache2 -y
COPY index.html /var/www/html
ENTRYPOINT apachectl -D FOREGROUND

index.html
what to know anything!!!