3) configure ubuntu slave to use it for the pipeline


```
root@karim-VirtualBox:/home/karim# docker ps
CONTAINER ID    IMAGE              COMMAND              CREATED
    STATUS          PORTS
        NAMES
f1e6048bf62a       jenkins/jenkins:lts    "/sbin/tini -- /usr/…"    16 hours ago
        Up 25 minutes        0.0.0.0:5000->5000/tcp, 0.0.0.0:8080->8080/tcp, 500
00/tcp    mystifying_lalande
root@karim-VirtualBox:/home/karim# docker build -f slave_dockerfile . -t slave1
Sending build context to Docker daemon   117.1MB
Step 1/18 : FROM ubuntu
 ---> 4e2eef94cd6b
Step 2/18 : USER root
 ---> Using cache
 ---> f9364fa6aac8
Step 3/18 : RUN apt-get update -qq
 ---> Using cache
 ---> 9d34ccecd46b
Step 4/18 : RUN mkdir -p jenkins_home
 ---> Using cache
 ---> 7a49392855df
Step 5/18 : RUN chmod 777 jenkins_home
 ---> Using cache
 ---> cb3617601bbb
Step 6/18 : RUN useradd -ms /bin/bash jenkins
 ---> Using cache
 ---> 8837a053f044
Step 7/18 : RUN apt-get install -qqy apt-transport-https ca-certificates curl g
nupg2 software-properties-common
 ---> Using cache
```

```
256 SHA256:gKfsBe1FpjRXtbNCyZTCDvnNN2T3yg/DukowHJO+n80 root@c37bc1aef516 (ED255
19)
Created symlink /etc/systemd/system/sshd.service → /lib/systemd/system/ssh.serv
ice.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/
systemd/system/ssh.service.
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up ssh-import-id (5.10-0ubuntu1) ...
Attempting to convert /etc/ssh/ssh_import_id
Setting up ncurses-term (6.2-0ubuntu2) ...
Processing triggers for systemd (245.4-4ubuntu3.2) ...
Removing intermediate container c37bc1aef516
 ---> 87e6aad2ebe7
Step 16/18 : USER jenkins
 ---> Running in 4f1b54ba1a1b
Removing intermediate container 4f1b54ba1a1b
 ---> 1419b6b54f6f
Step 17/18 : WORKDIR jenkins_home
 ---> Running in 8fb07f019c24
Removing intermediate container 8fb07f019c24
 ---> c06530e6ce71
Step 18/18 : CMD ["/bin/bash"]
 ---> Running in ebd264658de6
Removing intermediate container ebd264658de6
 ---> cc501598155d
Successfully built cc501598155d
Successfully tagged slave1:latest
root@karim-VirtualBox:/home/karim#
```

```
root@karim-VirtualBox:/home/karim# docker run -dit -v /var/run/docker.sock:/var
/run/docker.sock slave1
b29f12e0e90adc363fe498aa6aa21081a9f6e5958e986a6a11afd6ac3df121fc
root@karim-VirtualBox:/home/karim# docker ps
CONTAINER ID      IMAGE            COMMAND             CREATED
      STATUS          PORTS
         NAMES
b29f12e0e90a         slave1                  "/bin/bash"            20 seconds a
go      Up 17 seconds
         peaceful_nightingale
f1e6048bf62a         jenkins/jenkins:lts    "/sbin/tini -- /usr/…"    17 hours ago
      Up 47 minutes        0.0.0.0:5000->5000/tcp, 0.0.0.0:8080->8080/tcp, 500
00/tcp    mystifying_lalande
root@karim-VirtualBox:/home/karim#
```

```
jenkins@b29f12e0e90a: ~/.ssh          karim@karim-VirtualBox: ~/.ssh
b29f12e0e90adc363fe498aa6aa21081a9f6e5958e986a6a11afd6ac3df121fc
root@karim-VirtualBox:/home/karim# docker ps
CONTAINER ID      IMAGE        COMMAND        CREATED
      STATUS         PORTS
      NAMES
b29f12e0e90a      slave1       "/bin/bash"      20 seconds a
go      Up 17 seconds
      peaceful_nightingale
f1e6048bf62a      jenkins/jenkins:lts  "/sbin/tini -- /usr/…"  17 hours ago
      Up 47 minutes      0.0.0.0:5000->5000/tcp, 0.0.0.0:8080->8080/tcp, 500
00/tcp   mystifying_lalande
root@karim-VirtualBox:/home/karim# docker exec -it b29f12e0e90a bash
jenkins@b29f12e0e90a:/jenkins_home$ cd ~
jenkins@b29f12e0e90a:~$ mkdir .ssh
jenkins@b29f12e0e90a:~$ cd .ssh
jenkins@b29f12e0e90a:~/.ssh$ ls
jenkins@b29f12e0e90a:~/.ssh$ echo "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDCQO50
J503NazRjD9llBkC+M2IG9a7iOhnxSz33hCpgNCXPEJkVi6uHoVJBpBYhge+G34RfmjudRPSsqJjENd
3y/biQybscmS6rl1+rqRpbjPAKdwalJAvrUgmfMJS8ZYyHjvNA0PZAqrE1EPaLCkqBaM+g/IRG5UPJ6
UHEAfJ++EbyLMRwRWvNh/bq9EPoMTZIqrwhnAUUxTd2bTvoonPZxx6Sy+ZtiC7WE6fmrlQe9FA2TI1u
w4dxg1OuOgxRuvvAlN+/GK/L9Ix1PBTcW26AOsu/qALO9sgPbn09/WyMuSf62jyZoK6VNH9i1+cWpzT
f5XpZr5zAwj+iClwkWfB6uTSwDSKE0JIjXPeXfB1o1ZuLl0hUn+kSIC4jil8e9MwbUVPaL7FHE6Enp2
ramO+Uycrwj9WUmmnC/SVMLHYusOH299z3+RuhKldDZTLUZLgH/RFQEqgALnNJIlXZ59V49AmUxRetL
8BKvVsiFCbHVDxQNOIs1xqgXJEGnE/kjk= karim@karim-VirtualBox" > authorized_keys
jenkins@b29f12e0e90a:~/.ssh$ ls
authorized_keys
jenkins@b29f12e0e90a:~/.ssh$
```



```
                    karim@karim-VirtualBox: ~/.ssh
      jenkins@b29f12e0e90a: ~/.ssh        karim@karim-VirtualBox: ~/.ssh
karim@karim-VirtualBox:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/karim/.ssh/id_rsa):
/home/karim/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/karim/.ssh/id_rsa
Your public key has been saved in /home/karim/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:bs+P/o9o5YCQMz7ayNdi4PLm/7Bg0yKoTgoMyGvGHm8 karim@karim-VirtualBox
The key's randomart image is:
+---[RSA 3072]----+
|                 |
|        =        |
|     .           |
|o    . +S.       |
|o.   . +.        |
|+.. ..o.. . .    |
|oO.o==ooo  +     |
|O +E*+=+.o.o..   |
|+o.*o+oo.o*o+..  |
+----[SHA256]-----+
karim@karim-VirtualBox:~$ cd ~/.ssh
karim@karim-VirtualBox:~/.ssh$ ls
id_rsa  id_rsa.pub
```



```
      jenkins@b29f12e0e90a: /jenkins_home     root@karim-VirtualBox: /home/karim
            peaceful_nightingale
f1e6048bf62a      jenkins/jenkins:lts  "/sbin/tini -- /usr/…"  17 hours ago
      Up 47 minutes      0.0.0.0:5000->5000/tcp, 0.0.0.0:8080->8080/tcp, 500
00/tcp   mystifying_lalande
root@karim-VirtualBox:/home/karim# docker exec -it b29f12e0e90a bash
jenkins@b29f12e0e90a:/jenkins_home$ cd ~
jenkins@b29f12e0e90a:~$ mkdir .ssh
jenkins@b29f12e0e90a:~$ cd .ssh
jenkins@b29f12e0e90a:~/.ssh$ ls
jenkins@b29f12e0e90a:~/.ssh$ echo "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDCQO50
J503NazRjD9llBkC+M2IG9a7iOhnxSz33hCpgNCXPEJkVi6uHoVJBpBYhge+G34RfmjudRPSsqJjENd
3y/biQybscmS6rl1+rqRpbjPAKdwalJAvrUgmfMJS8ZYyHjvNA0PZAqrE1EPaLCkqBaM+g/IRG5UPJ6
UHEAfJ++EbyLMRwRWvNh/bq9EPoMTZIqrwhnAUUxTd2bTvoonPZxx6Sy+ZtiC7WE6fmrlQe9FA2TI1u
w4dxg1OuOgxRuvvAlN+/GK/L9Ix1PBTcW26AOsu/qALO9sgPbn09/WyMuSf62jyZoK6VNH9i1+cWpzT
f5XpZr5zAwj+iClwkWfB6uTSwDSKE0JIjXPeXfB1o1ZuLl0hUn+kSIC4jil8e9MwbUVPaL7FHE6Enp2
ramO+Uycrwj9WUmmnC/SVMLHYusOH299z3+RuhKldDZTLUZLgH/RFQEqgALnNJIlXZ59V49AmUxRetL
8BKvVsiFCbHVDxQNOIs1xqgXJEGnE/kjk= karim@karim-VirtualBox" > authorized_keys
jenkins@b29f12e0e90a:~/.ssh$ ls
authorized_keys
jenkins@b29f12e0e90a:~/.ssh$ exit
exit
read escape sequence
root@karim-VirtualBox:/home/karim# docker exec -t b29f12e0e90a bash
jenkins@b29f12e0e90a:/jenkins_home$ exit
exit
exit
```


Jenkins › Nodes ›

Name	slave1
Description	
# of executors	1
Remote root directory	/jenkins_home
Labels	slave1
Usage	Only build jobs with label expressions matching this node
Launch method	Launch agents via SSH
Host	172.17.0.3
Credentials	slave1 Add

Jenkins › Nodes ›

Credentials	slave1 Add
Host Key Verification Strategy	Non verifying Verification Strategy

Advanced...

Availability	Keep this agent online as much as possible

Node Properties

☐ Disable deferred wipeout on this node
☑ Environment variables

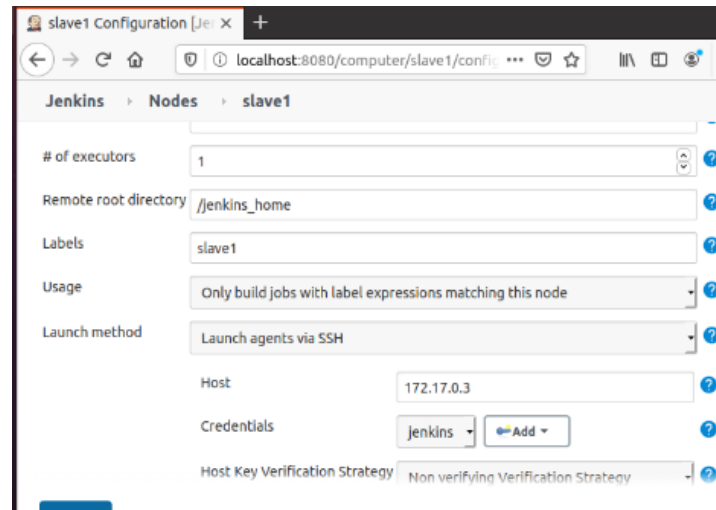| List of variables		
	Name	JAVA_HOME
	Value	/usr/lib/jvm/java-8-openjdk-amd64

The Slave success