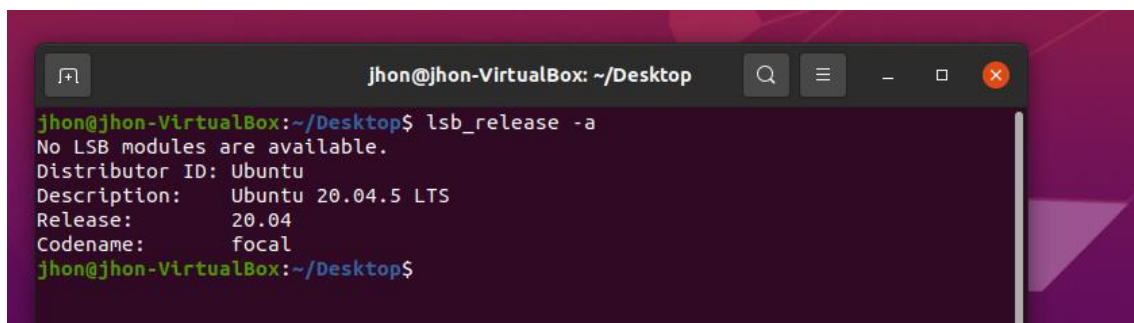


Tarea

# Homework

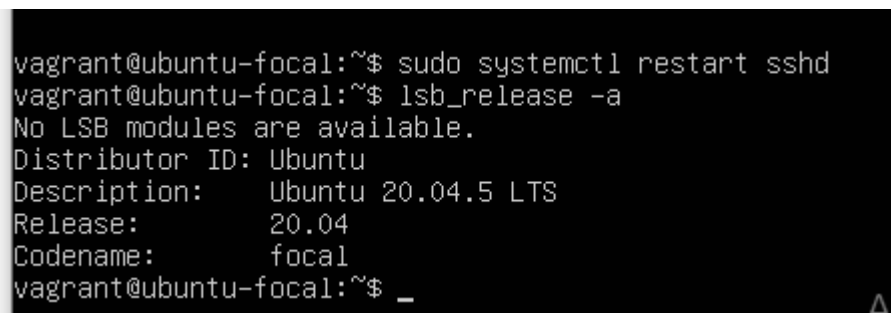
- Create an Ansible playbook
- 1) Create a VM using virtualbox
  - 2) Install ansible on your local machine and control the VM (perform installations of tools / libraries)
  - 3) Create ansible inventory file
  - 4) Create ansible playbook
  - 5) Create public /private key pair and setup SSH authentication

## Vm ansible



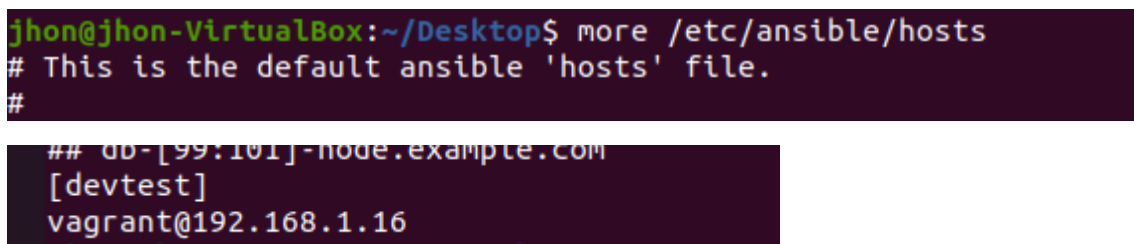
```
jhon@jhon-VirtualBox: ~/Desktop
jhon@jhon-VirtualBox:~/Desktop$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 20.04.5 LTS
Release:        20.04
Codename:       focal
jhon@jhon-VirtualBox:~/Desktop$
```

## Vm host vagrant



```
vagrant@ubuntu-focal:~$ sudo systemctl restart sshd
vagrant@ubuntu-focal:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 20.04.5 LTS
Release:        20.04
Codename:       focal
vagrant@ubuntu-focal:~$ _
```

## Host ip setup inventory file



```
jhon@jhon-VirtualBox:~/Desktop$ more /etc/ansible/hosts
# This is the default ansible 'hosts' file.
#
## db-[99:101]-node.example.com
[devtest]
vagrant@192.168.1.16
```

## Vm guest config

```
vagrant@ubuntu-focal:~$ sudo nano /etc/ssh/sshd_config
```

```
#IgnoreRhosts yes
# To disable tunneled clear text passwords, change to no here!
PasswordAuthentication yes
#PermitEmptyPasswords no
# Change to yes to enable challenge-response passwords (beware issues with
```

## Used Instalationn command

```
sudo add-apt-repository --yes --update ppa:ansible/ansible
sudo apt install ansible -y
```

## Ssh gen

```
jhon@jhon-VirtualBox:~/Desktop$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/jhon/.ssh/id_rsa):
```

## Copy ssh

```
jhon@jhon-VirtualBox:~/Desktop$ ssh-copy-id -i ~/.ssh/id_rsa.pub vagrant@192.168.1.16
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/jhon/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: WARNING: All keys were skipped because they already exist on the remote system.
(if you think this is a mistake, you may want to use -f option)
jhon@jhon-VirtualBox:~/Desktop$
```

## Create playbook

```

jhon@jhon-VirtualBox:~$ more anisble-workspace/test.yaml
---
- hosts: all
  become: true
  become_method: sudo
  tasks:
    - name: "Show Network Interfaces"
      command: ifconfig
      register: details
    - name: 'Get Interfaces details'
      debug:
        msg: "{{ details.stdout }}"
jhon@jhon-VirtualBox:~$

```

```

jhon@jhon-VirtualBox:~/ansible-workspace$ sudo nano /etc/ansible/hosts
jhon@jhon-VirtualBox:~/ansible-workspace$ ansible-playbook test.yaml
PLAY [all] *****
TASK [Gathering Facts] *****
ok: [vagrant@192.168.1.16]
TASK [Show Network Interfaces] *****
changed: [vagrant@192.168.1.16]
TASK [Get Interfaces details] *****
ok: [vagrant@192.168.1.16] => {
  "msg": "enp0s1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500\n          inet 192.168.1.16  netmask 255.255.255.0  broadcast 192.168.1.255\n          inet6 fe80::9a:94ff:fec9:30e2  prefixlen 64  scopeid 0x20<link>\n          ether 02:9a:94:c9:30:e2  txqueuelen 1000  (Ethernet)\n          RX packets 32772  bytes 46748389 (46.7 MB)\n          RX errors 0  dropped 1  overruns 0  frame 0\n          TX packets 0  bytes 0  carrier 0  collisions 0\n          flags=73<UP,LOOPBACK,RUNNING>  mtu 65536\n          inet 127.0.0.1  netmask 255.0.0.0\n          inet6 ::1  prefixlen 128  scopeid 0x10<host>\n          loop txqueuelen 1000  (Local Loopback)\n          RX packets 24  bytes 2368 (2.3 KB)\n          RX errors 0  dropped 0  overruns 0  frame 0\n          TX packets 24  bytes 2368 (2.3 KB)\n          TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0"
}
PLAY RECAP *****
vagrant@192.168.1.16 : ok=3  changed=1  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

```

```

PLAY RECAP *****
vagrant@192.168.1.16 : ok=3  changed=1  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

```