




MI PRIMERA VM CON VAGRANT – ACTIVIDAD 1



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OPTATIVA - 2º ASIR

Contenido

1) Instalación de Vagrant en Windows:	2
2) Instalación de una VM de Ubuntu 14.04.....	4
Nos descargamos el BOX de Ubuntu 14.04.....	4
Creamos una carpeta donde se colocará el “vagrantfile”.....	4
Nos descargamos el “vagrantfile”.	4
Modificamos el Vagrantfile.	5
- Arrancamos la máquina:	5
- Conexión con SSH:	6
- Salir de la VM usamos:	7
- Apagar la VM:	7
- Eliminar la VM:	7

1) Instalación de Vagrant en Windows:

Nos descargamos el ejecutable. En nuestro caso, el de Windows.

<https://developer.hashicorp.com/vagrant/install>

Windows

Binary download

AMD64

Version: 2.4.9

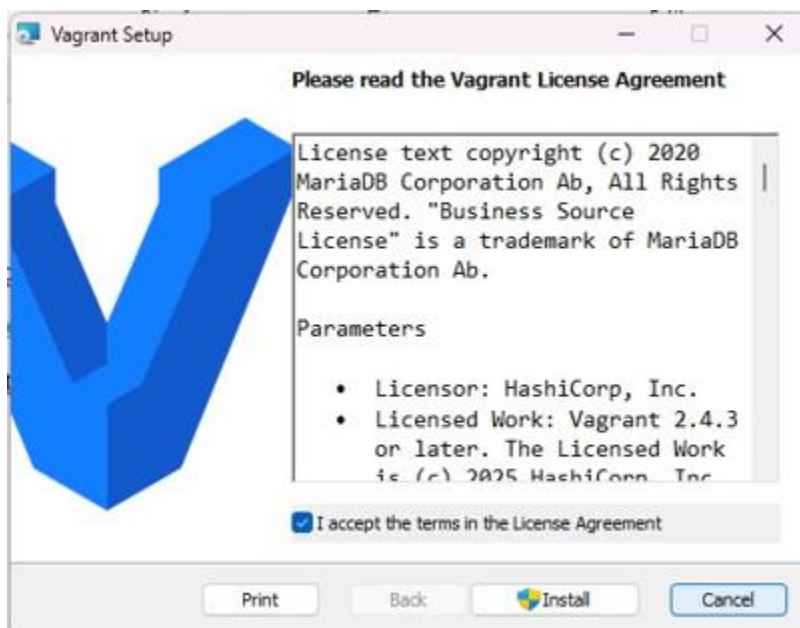
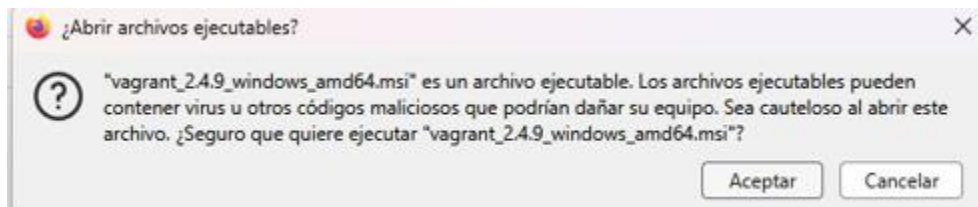
Download 

i686

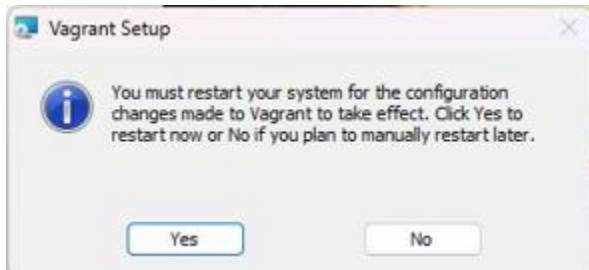
Version: 2.4.9

Download 

Lo ejecutamos:



Una vez instalado, nos pedirá reiniciar la máquina.



Comprobamos que está instalado desde el CMD:

vagrant --version

```
C:\Users\Cristobal>vagrant --version
Vagrant 2.4.9
```

2) Instalación de una VM de Ubuntu 14.04.

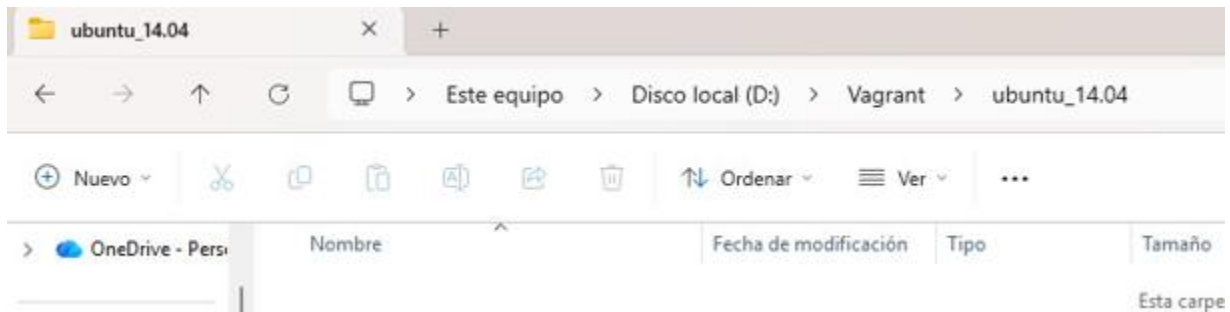
Nos descargamos el BOX de Ubuntu 14.04.

<https://portal.cloud.hashicorp.com/vagrant/discover/ubuntu/trusty64>

vagrant box add ubuntu/trusty64

```
D:\Vagrant\ubuntu_14.04>vagrant box add ubuntu/trusty64
==> box: Loading metadata for box 'ubuntu/trusty64'
box: URL: https://vagrantcloud.com/api/v2/vagrant/ubuntu/trusty64
==> box: Adding box 'ubuntu/trusty64' (v20191107.0.0) for provider: virtualbox
box: Downloading: https://vagrantcloud.com/ubuntu/boxes/trusty64/versions/20191107.0.0/providers/virtualbox/unknown/
vagrant.box
box:
==> box: Successfully added box 'ubuntu/trusty64' (v20191107.0.0) for 'virtualbox'!
D:\Vagrant\ubuntu_14.04>
```

Creamos una carpeta donde se colocará el “vagrantfile”.

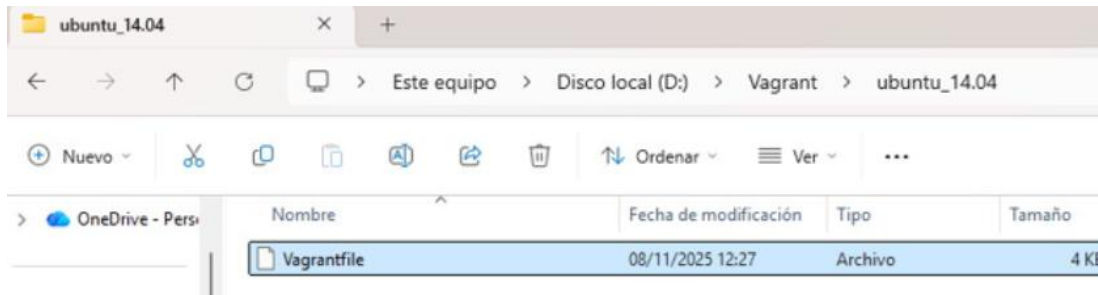


Nos descargamos el “vagrantfile”.

vagrant init

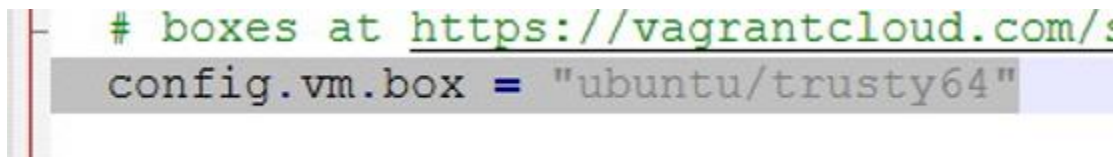
```
D:\Vagrant\ubuntu_14.04>vagrant init
A `Vagrantfile` has been placed in this directory. You are now
ready to `vagrant up` your first virtual environment! Please read
the comments in the Vagrantfile as well as documentation on
`vagrantup.com` for more information on using Vagrant.
```

Vemos como el “**vagrantfile**” se ha descargado en la carpeta. Recuerda, con el CMD debes posicionarte en la carpeta.



Modificamos el Vagrantfile.

Abrimos el “**vagrantfile**” con un editor de texto y donde pone “**config.vm.box**” debemos poner el nombre del BOX que hemos descargado antes. En nuestro caso “**ubuntu/trusty64**”.



- Arrancamos la máquina:

vagrant up

```
D:\Vagrant\ubuntu_14.04>vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'ubuntu/trusty64'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'ubuntu/trusty64' version '20191107.0.0' is up to date...
==> default: Setting the name of the VM: ubuntu_1404_default_1762601388673_42317
==> default: Clearing any previously set forwarded ports...
Vagrant is currently configured to create VirtualBox synced folders with
the `SharedFoldersEnableSymlinksCreate` option enabled. If the Vagrant
guest is not trusted, you may want to disable this option. For more
information on this option, please refer to the VirtualBox manual:

https://www.virtualbox.org/manual/ch04.html#sharedfolders

This option can be disabled globally with an environment variable:

VAGRANT_DISABLE_VBOXSYMLINKCREATE=1
```

```
default:
default: Guest Additions Version: 4.3.40
default: VirtualBox Version: 7.1
==> default: Mounting shared folders...
default: D:/Vagrant/ubuntu_14.04 => /vagrant
```

- Conexión con SSH:

vagrant ssh

```
D:\Vagrant\ubuntu 14.04>vagrant ssh
Welcome to Ubuntu 14.04.6 LTS (GNU/Linux 3.13.0-170-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

System information as of Sat Nov  8 11:30:40 UTC 2025

System load:  0.93               Processes:            84
Usage of /:   3.6% of 39.34GB    Users logged in:     0
Memory usage: 28%               IP address for eth0: 10.0.2.15
Swap usage:   0%

Graph this data and manage this system at:
https://landscape.canonical.com/

UA Infrastructure Extended Security Maintenance (ESM) is not enabled.
0 updates can be installed immediately.
0 of these updates are security updates.

Enable UA Infrastructure ESM to receive 64 additional security updates.
See https://ubuntu.com/advantage or run: sudo ua status

New release '16.04.7 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

vagrant@vagrant-ubuntu-trusty-64:~$
```

Podemos probar algunos comandos dentro de la VM:

```
vagrant@vagrant-ubuntu-trusty-64:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:5f:bb:e6 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fd00::a00:27ff:fe5f:bbe6/64 scope global dynamic
        valid_lft 86296sec preferred_lft 14296sec
    inet6 fe80::a00:27ff:fe5f:bbe6/64 scope link
        valid_lft forever preferred_lft forever
```



```
vagrant@vagrant-ubuntu-trusty-64:~$ ls -l /
total 76
drwxr-xr-x  2 root    root    4096 Nov  7  2019 bin
drwxr-xr-x  3 root    root    4096 Nov  7  2019 boot
drwxr-xr-x 13 root    root   3880 Nov  8 11:30 dev
drwxr-xr-x 97 root    root    4096 Nov  8 11:30 etc
drwxr-xr-x  4 root    root    4096 Nov  8 11:30 home
lrwxrwxrwx  1 root    root      34 Nov  7  2019 initrd.img -> boot/initrd.img-3.13.0-170-generic
lrwxrwxrwx  1 root    root      34 Nov  7  2019 initrd.img.old -> boot/initrd.img-3.13.0-170-generic
drwxr-xr-x 22 root    root    4096 Nov  7  2019 lib
drwxr-xr-x  2 root    root    4096 Nov  7  2019 lib64
drwx----- 2 root    root   16384 Nov  7  2019 lost+found
drwxr-xr-x  2 root    root    4096 Nov  7  2019 media
drwxr-xr-x  2 root    root    4096 Apr 10  2014 mnt
drwxr-xr-x  2 root    root    4096 Nov  7  2019 opt
dr-xr-xr-x 85 root    root      0 Nov  8 11:30 proc
drwx----- 3 root    root    4096 Nov  8 11:30 root
drwxr-xr-x 22 root    root      0 Nov  8 11:31 run
drwxr-xr-x  2 root    root    4096 Nov  7  2019 sbin
drwxr-xr-x  2 root    root    4096 Nov  7  2019 srv
dr-xr-xr-x 13 root    root      0 Nov  8 11:30 sys
drwxrwxrwt  4 root    root    4096 Nov  8 11:30 tmp
drwxr-xr-x 10 root    root    4096 Nov  7  2019 usr
drwxrwxrwx  1 vagrant vagrant  0 Nov  8 11:29 vagrant
drwxr-xr-x 13 root    root    4096 Nov  8 11:30 var
lrwxrwxrwx  1 root    root      31 Nov  7  2019 vmlinuz -> boot/vmlinuz-3.13.0-170-generic
lrwxrwxrwx  1 root    root      31 Nov  7  2019 vmlinuz.old -> boot/vmlinuz-3.13.0-170-generic
vagrant@vagrant-ubuntu-trusty-64:~$
```

- Salir de la VM usamos:

exit

```
vagrant@vagrant-ubuntu-trusty-64:~$ exit
logout
D:\Vagrant\ubuntu_14.04>
```

- Apagar la VM:

vagrant halt

```
D:\Vagrant\ubuntu_14.04>vagrant halt
==> default: Attempting graceful shutdown of VM...
```

- Eliminar la VM:

vagrant destroy

```
D:\Vagrant\ubuntu_14.04>vagrant destroy
default: Are you sure you want to destroy the 'default' VM? [y/N] y
==> default: Destroying VM and associated drives...
```