Práctica 10.Almacenamiento (III).

Nombre: Luis Miguel Aguilar González

Vagrantfile

```
Vagrant.configure(2) do |config|
        config.vm.box = "ubuntu/focal64"
        config.vm.provision "shell", inline: <<-SHELL
                sed -i 's/PasswordAuthentication no/PasswordAuthentication yes/' /etc/ssh/sshd_config
                systemctl restart sshd.service
                echo "192.168.12.11 nodo91" >> /etc/hosts
                echo "192.168.12.12 nodo92" >> /etc/hosts
        SHELL

        config.vm.define :nodo91 do |ub_config|
                ub_config.vm.hostname = "nodo91.vm"
                ub_config.vm.network "private_network" , ip:"192.168.12.11"
                ub_config.vm.provider :virtualbox do |vb|
                        vb.name = "nodo91"
                        vb.customize ["modifyvm", :id, "--memory", "768"]
                        vb.customize ["modifyvm", :id, "--cpus", "1"]
                end
        end

        config.vm.define :nodo92 do |ub_config|
                ub_config.vm.hostname = "nodo92.vm"
                ub_config.vm.network "private_network" , ip:"192.168.12.12"
                ub_config.vm.provider :virtualbox do |vb|
                        vb.name = "nodo92"
                        vb.customize ["modifyvm", :id, "--memory", "768"]
                        vb.customize ["modifyvm", :id, "--cpus", "1"]
                end
        end
end
```

Usaré el nodo91 de la práctica anterior para no crear más máquinas virtuales.

1.- Configuración del Servidor Samba

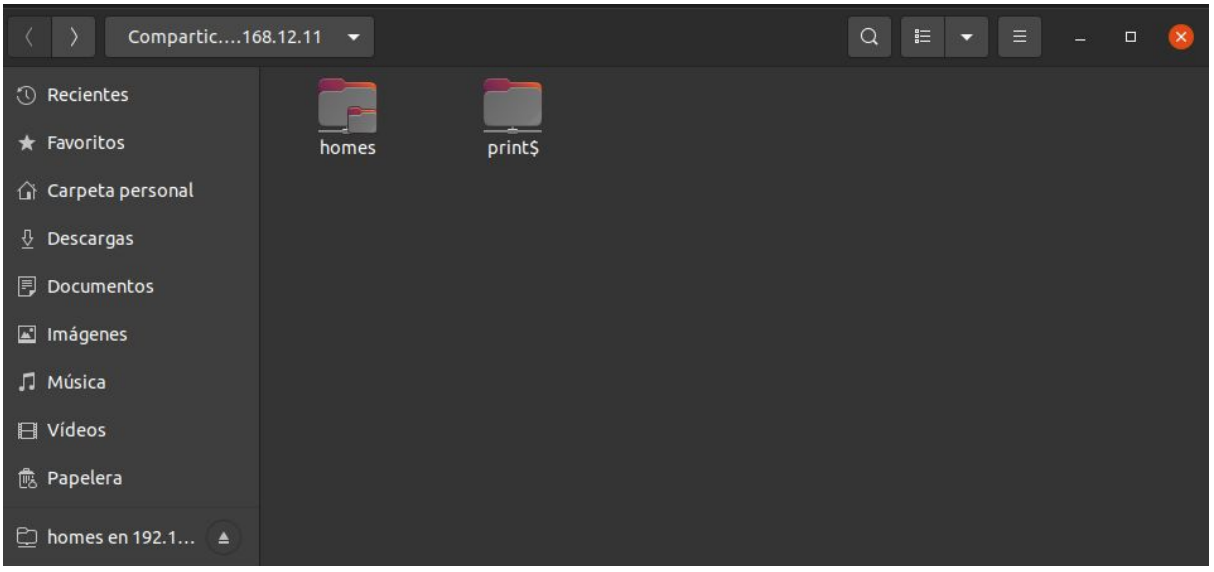
```
vagrant@nodo91:~$ sudo apt-get -y install samba samba-common-bin
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  attr ibverbs-providers libavahi-client3 libavahi-common-data
  libavahi-common3 libboost-iostreams1.71.0 libboost-thread1.71.0 libcephfs2
  libcups2 libibverbs1 libjansson4 libldb2 libnl-3-200 libnl-route-3-200
  librados2 librdmacm1 libtalloc2 libtevent0 libwbclient0 python3-crypto
  python3-dnspython python3-gpg python3-ldb python3-markdown python3-packaging
  python3-pygments python3-pyparsing python3-samba python3-talloc python3-tdb
  samba-common samba-dsdb-modules samba-libs samba-vfs-modules tdb-tools
```

```
[homes]
   comment=Home Directories
   browseable=yes
   path=/home/vagrant/cpd
   writeable=yes
   only guest=no
# By default, the home directories are exported read-only. Change the
# next parameter to 'no' if you want to be able to write to them.
;    read only = yes

# File creation mask is set to 0700 for security reasons. If you want to
# create files with group=rw permissions, set next parameter to 0775.
   create mask = 0700

# Directory creation mask is set to 0700 for security reasons. If you want to
# create dirs. with group=rw permissions, set next parameter to 0775.
   directory mask = 0700
   public=no
```

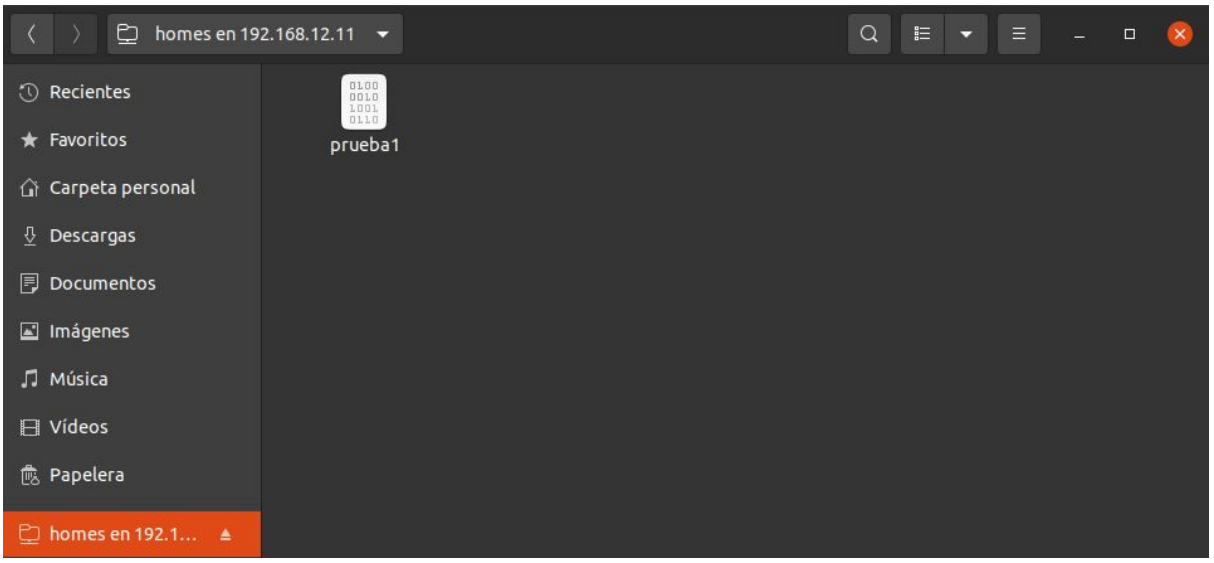
```
vagrant@nodo91:~$ sudo nano /etc/samba/smb.conf
vagrant@nodo91:~$ sudo smbpasswd -a vagrant
New SMB password:
Retype new SMB password:
Added user vagrant.
vagrant@nodo91:~$ sudo systemctl restart smbd
```



Como se puede ver he conectado a la ubicación de red usando:

smb://vagrant@192.168.12.11

Creo un fichero de prueba:

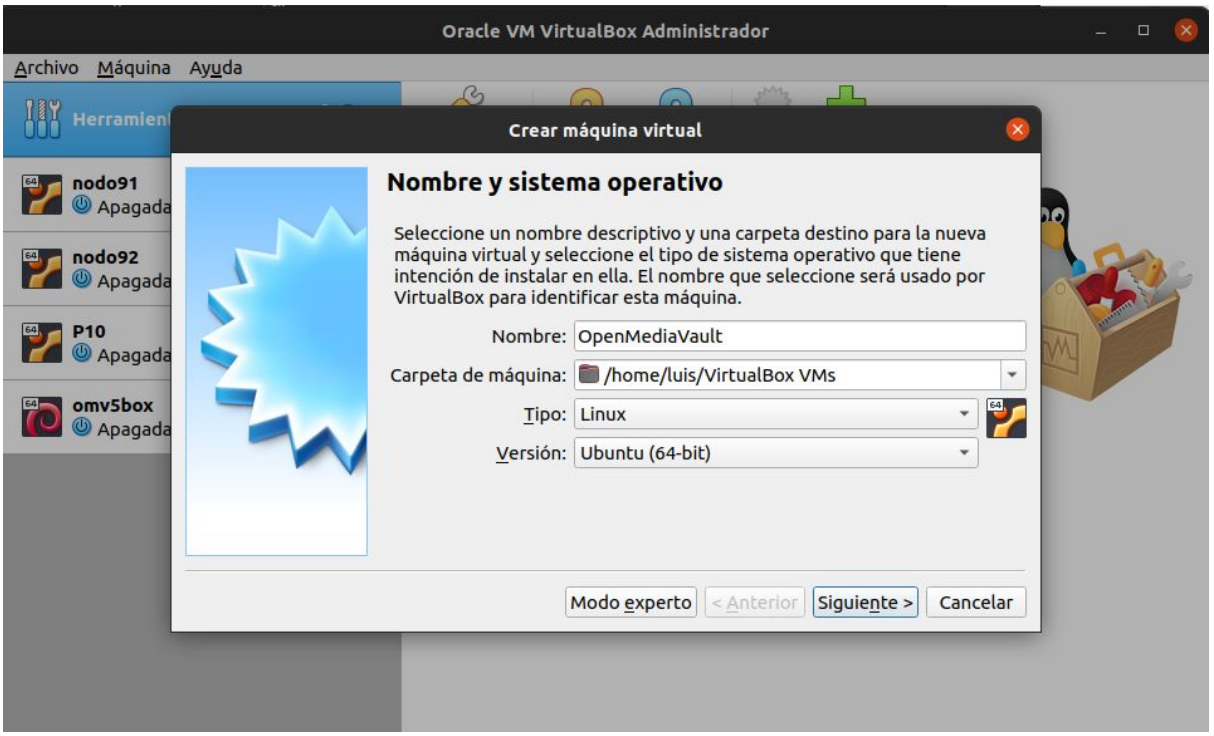


Como se puede ver el fichero ha sido correctamente creado:

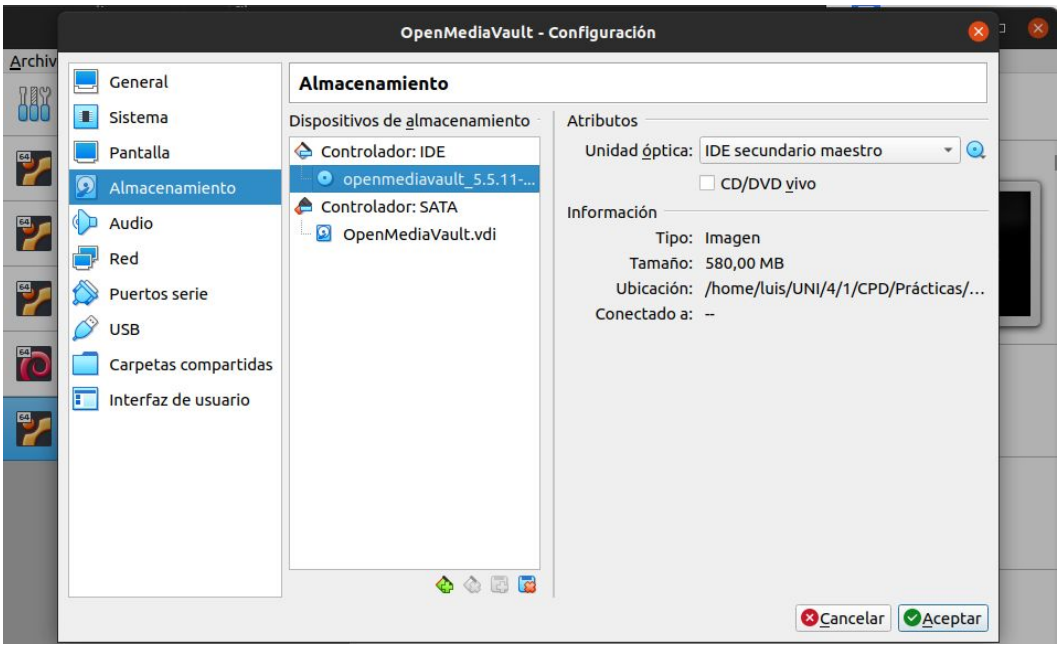
```
vagrant@nodo91:~$ ls cpd
prueba1
```

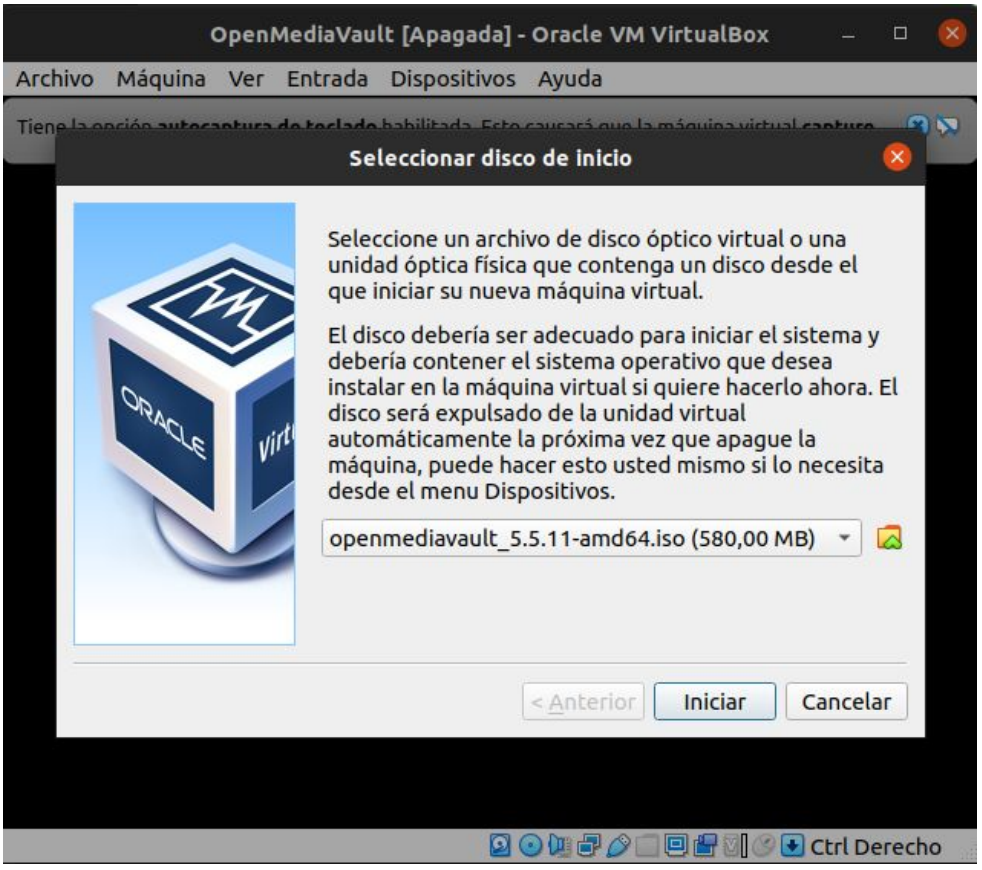
1.- Configuración del Servidor OpenMediaVault

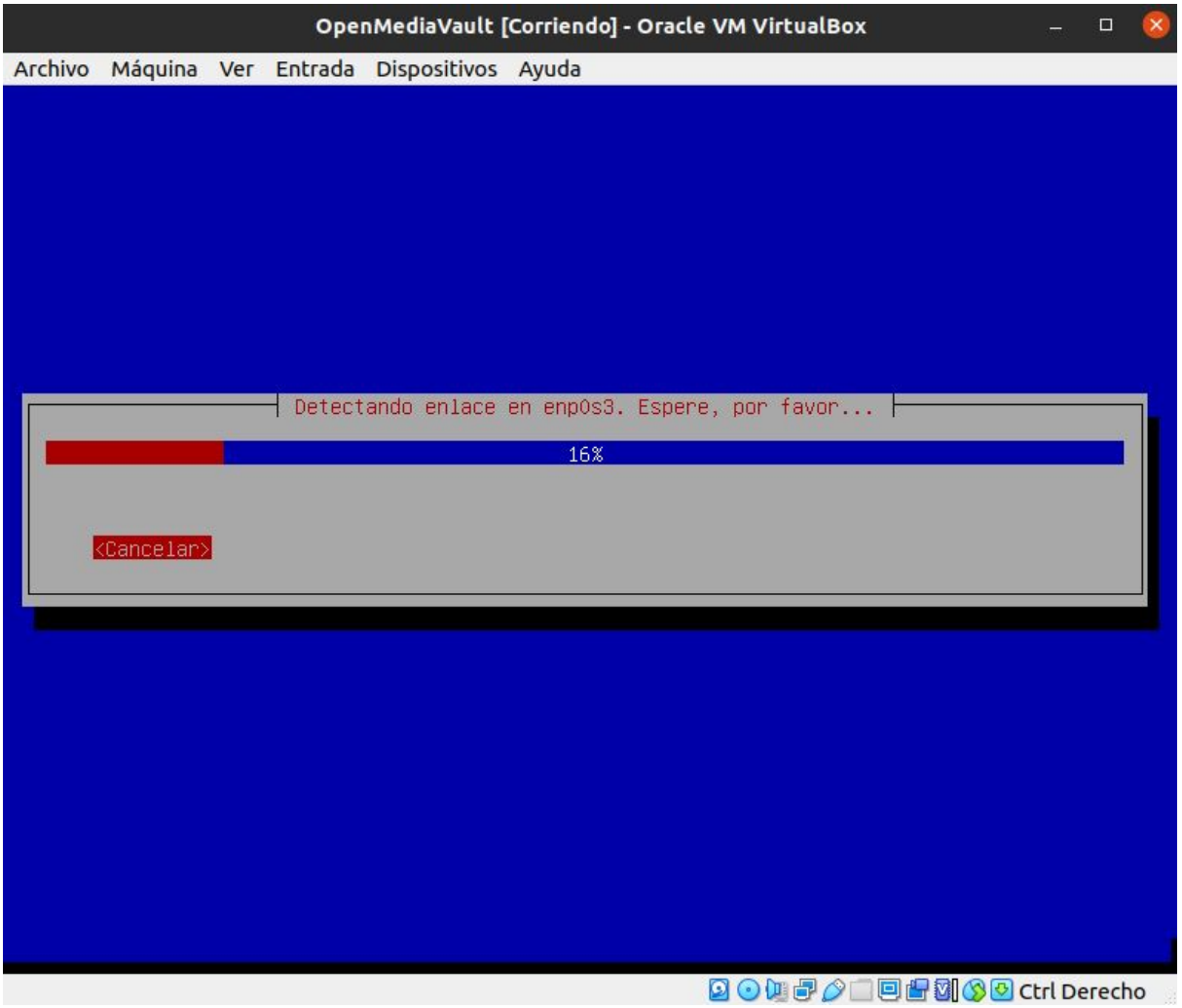
Descargamos la imagen ISO y creamos una máquina virtual:



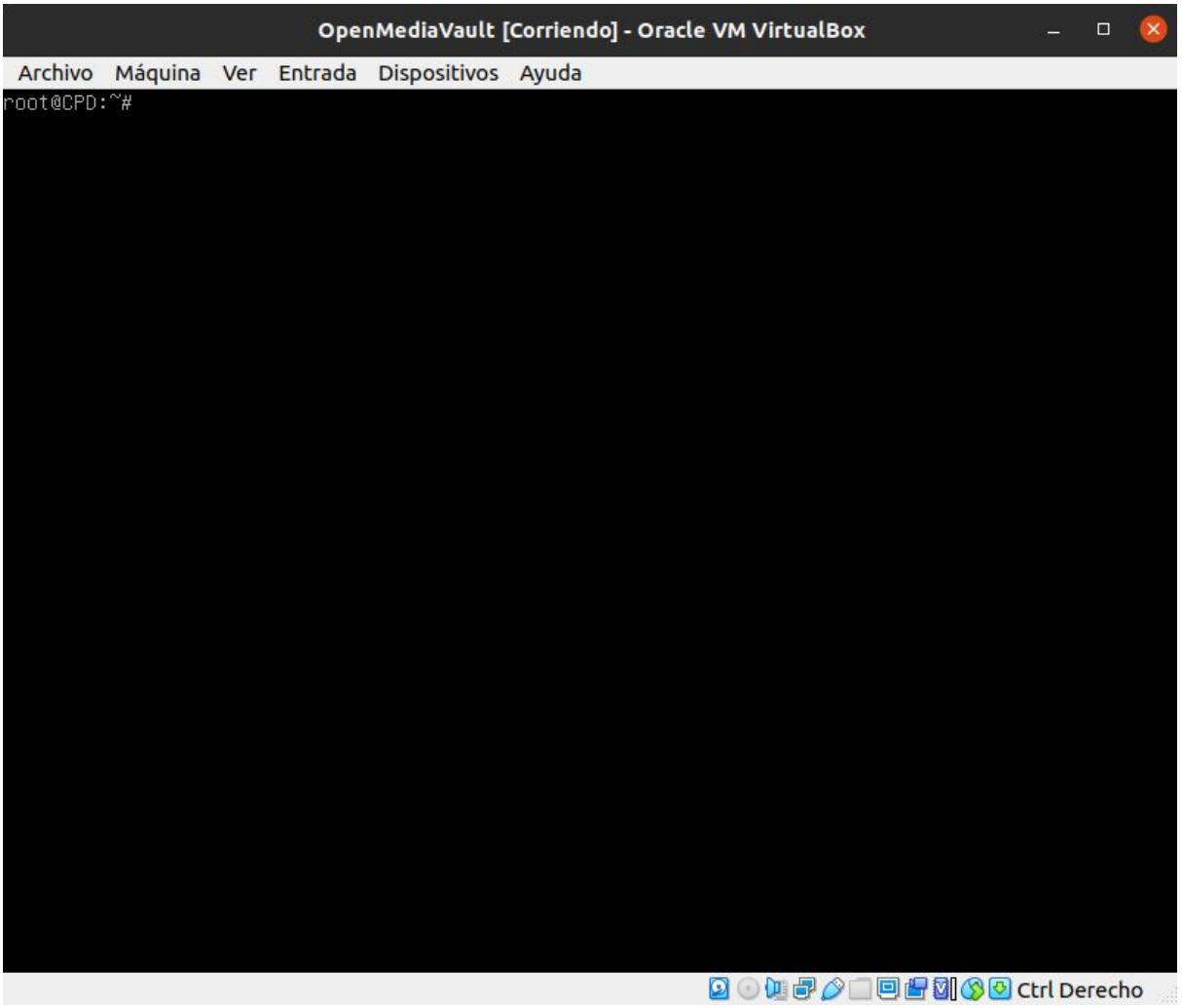
Una vez creada la máquina virtual adecuadamente, cargamos la imagen ISO que hemos descargado previamente con la última versión de OpenMediaVault:







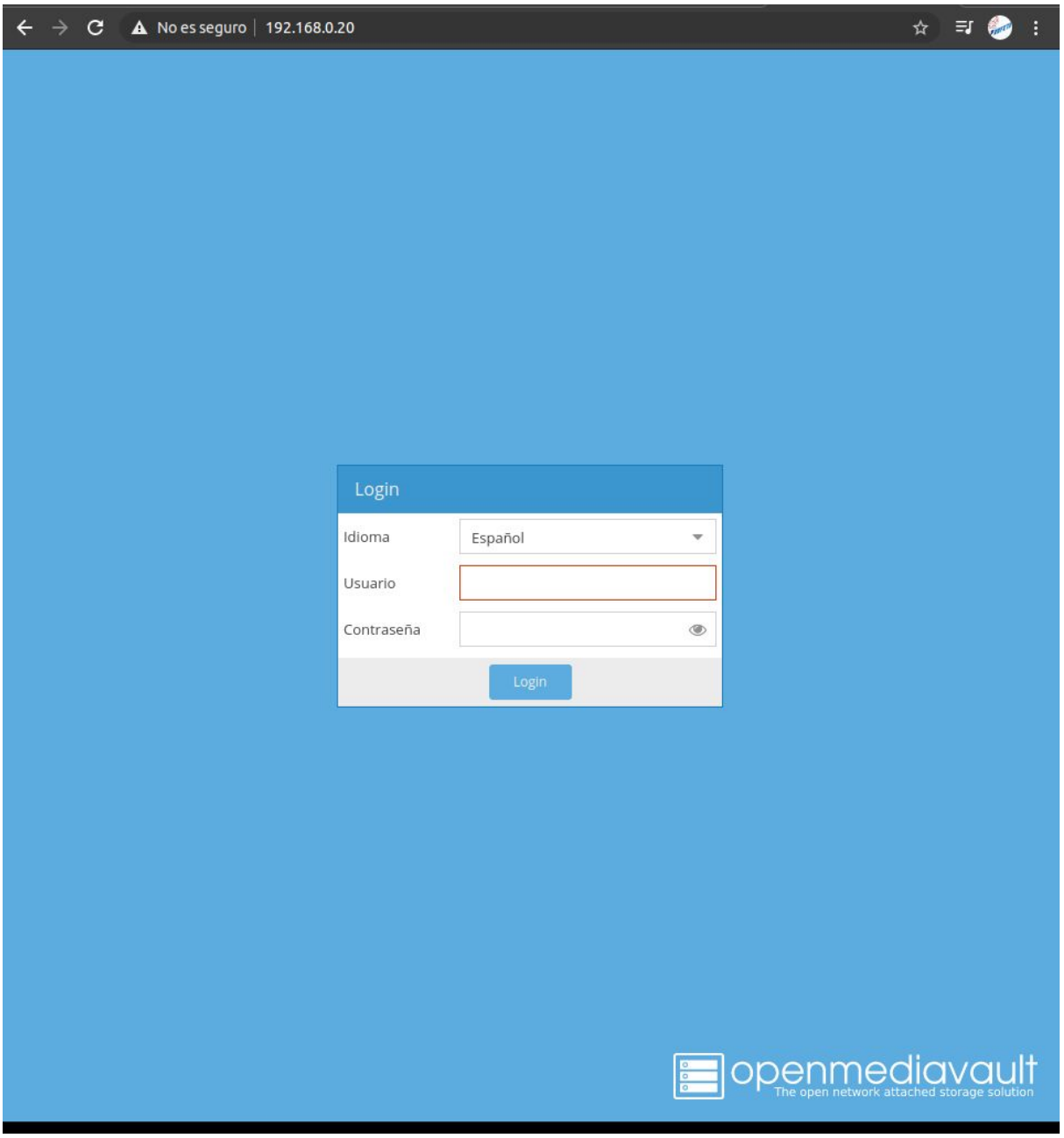
Instalamos la imagen ISO como ocurre en con otros SO, indicando el nombre de la máquina y clave de superusuario entre otros.



Tras hacer apt-get update y apt-get upgrade, ejecuto el comando **omv-confdbadm populate** y al hacer ip addr:

```
root@openmediavault:~# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    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: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
000
    link/ether 08:00:27:55:59:11 brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.20/24 brd 192.168.0.255 scope global dynamic enp0s3
       valid_lft 86250sec preferred_lft 86250sec
    inet6 fe80::a00:27ff:fe55:5911/64 scope link
       valid_lft forever preferred_lft forever
```

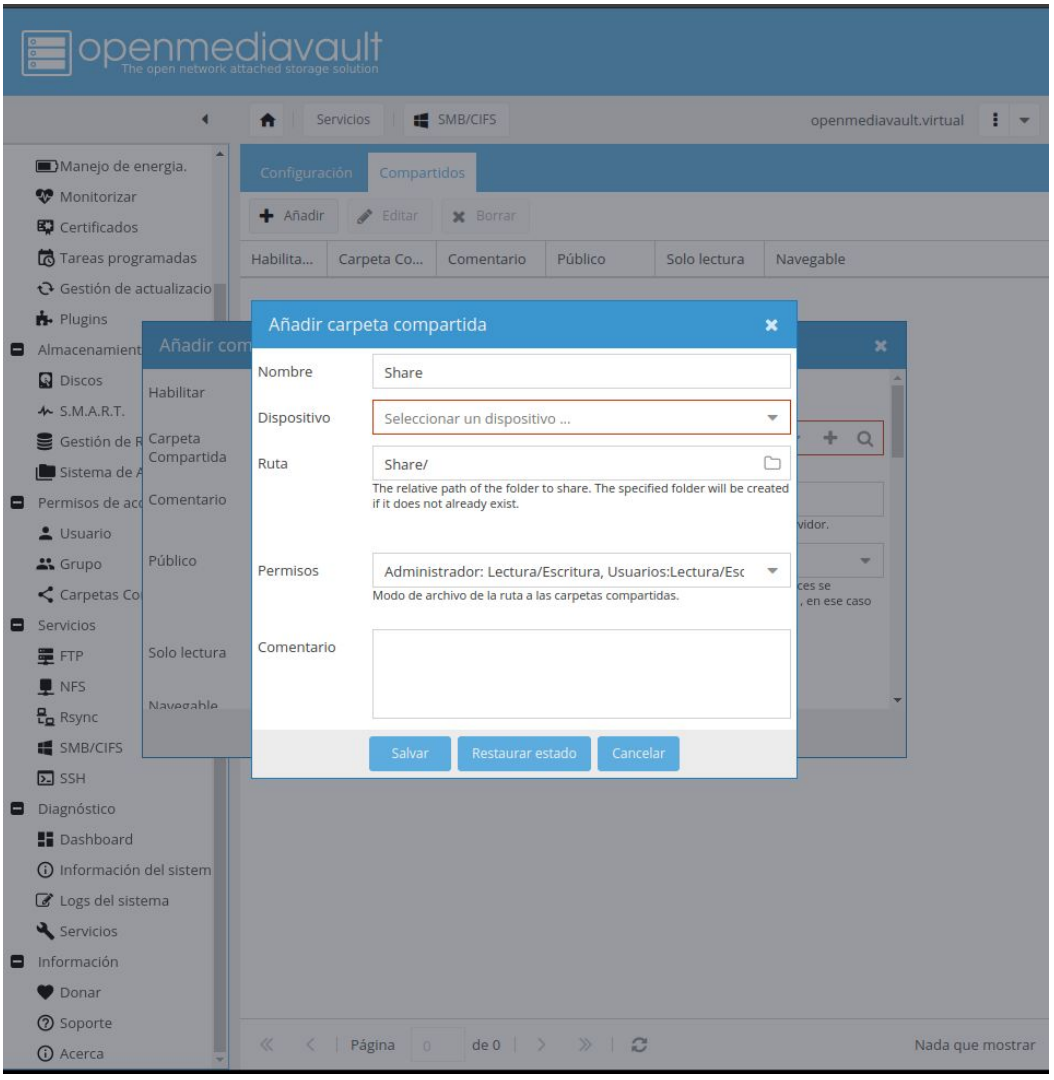
Introducimos la ip 192.168.0.20 en el navegador:



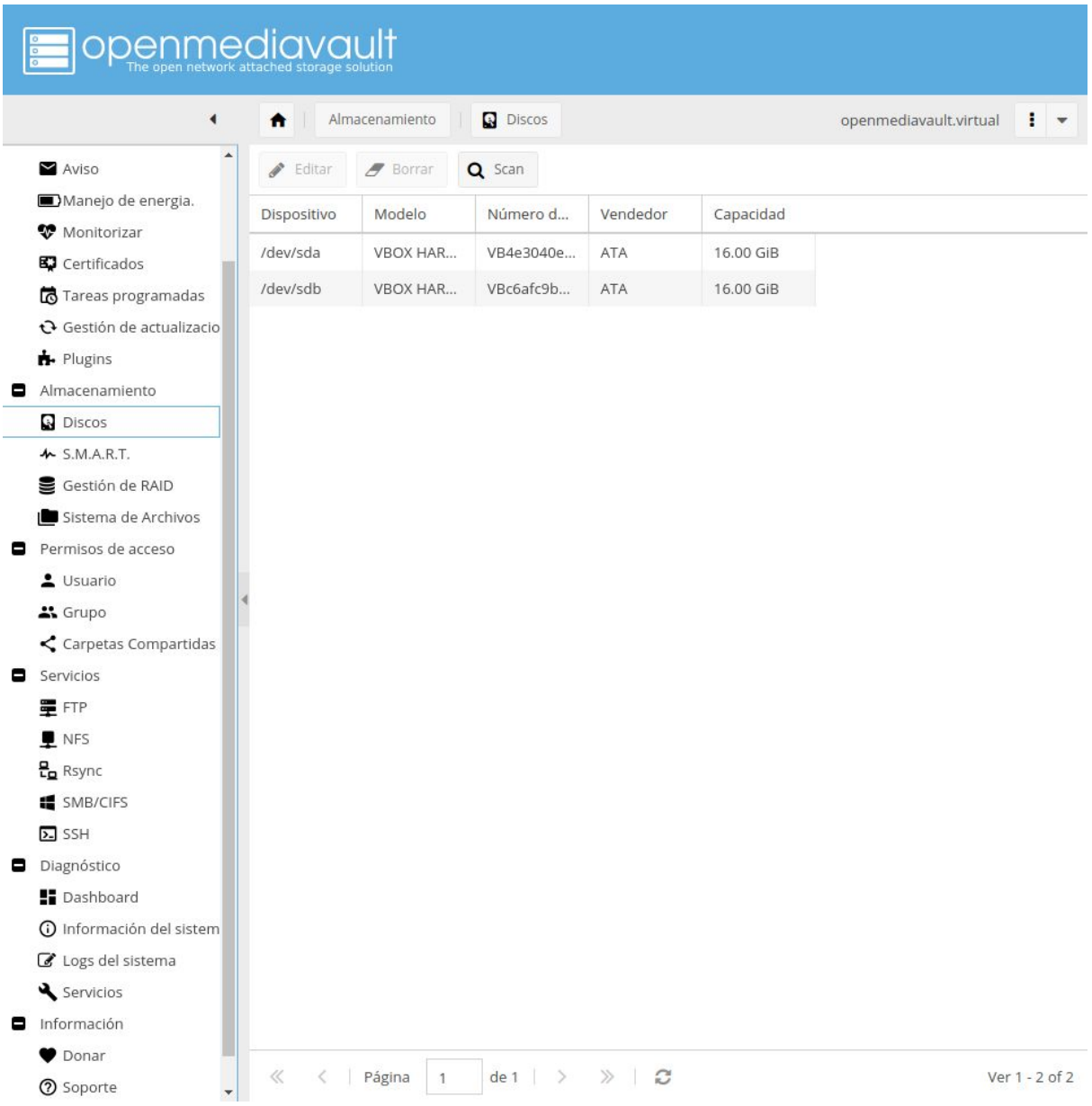
User: admin
Contraseña: openmediavault

Habilitamos el servidor samba:

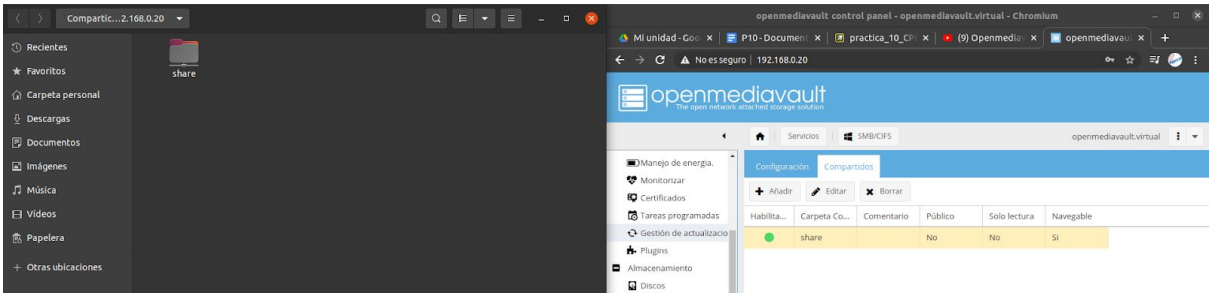
creamos una carpeta compartida:

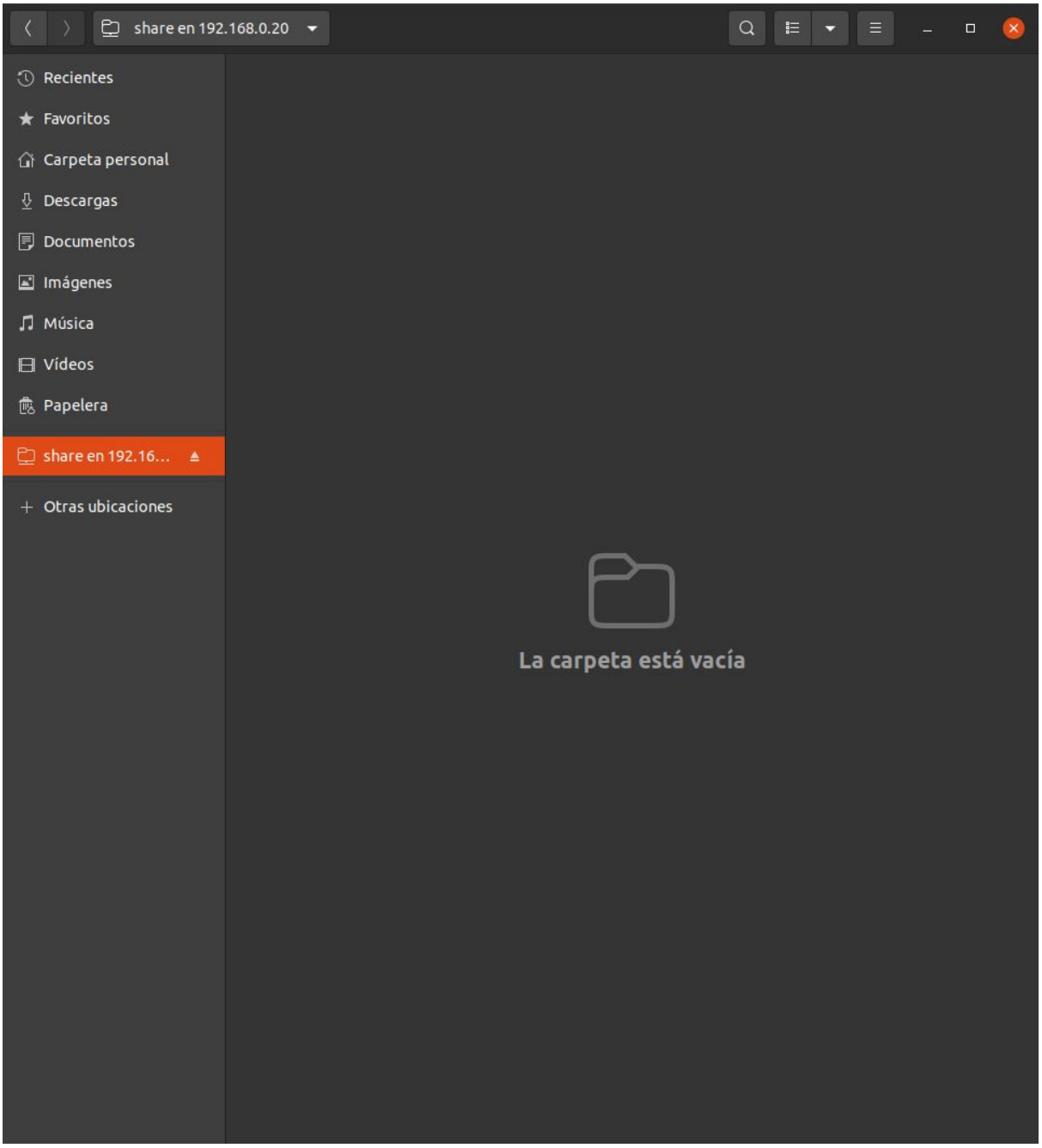


Para poder usar el sistema debemos de tener dos discos creados para la máquina virtual:

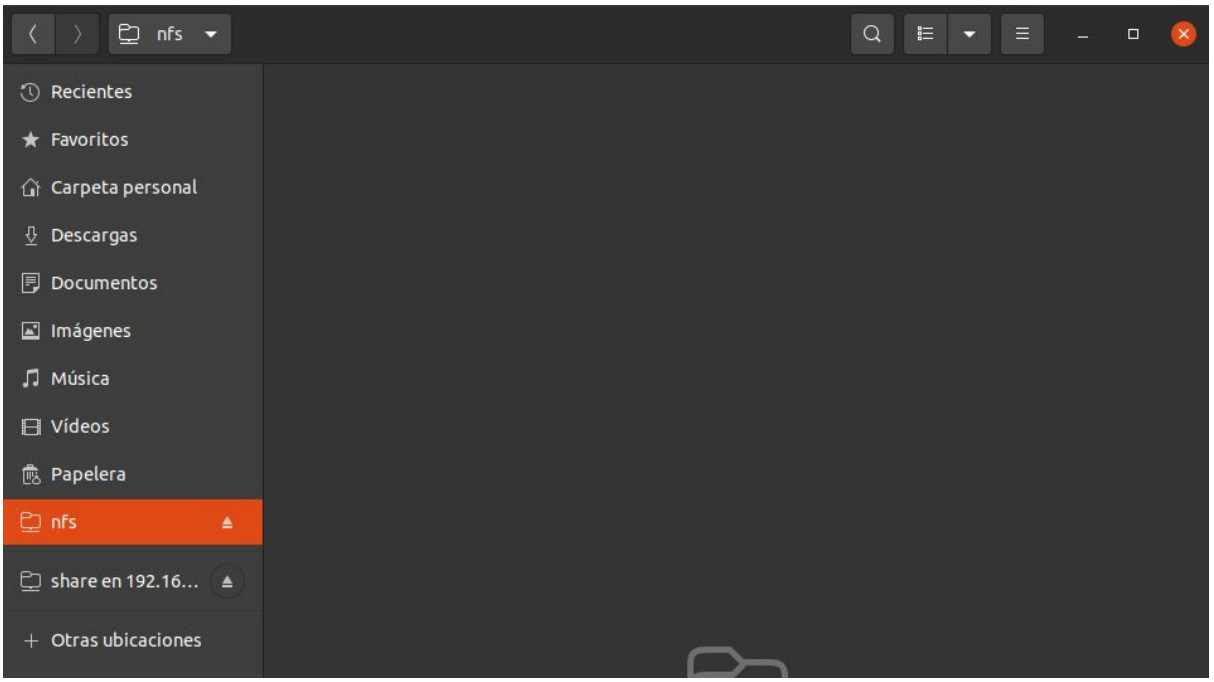


Como se puede ver la carpeta está debidamente compartida:




share en 192.168.0.20
Recientes
Favoritos
Carpeta personal
Descargas
Documentos
Imágenes
Música
Vídeos
Papelera
share en 192.16…
Otras ubicaciones
La carpeta está vacía

Para establecer un servidor NFS solo tenemos que habilitarlo en OpenMediaVault, añadir la carpeta compartida y montar dicha carpeta en un directorio local:



en mi caso he ejecutado el comando:

- sudo mount 192.168.0.20:share nfs