

1. Ponemos las IP en cada máquina.

En el ejemplo UBUNTU-SSH ( Servidor) → 192.168.2.2

UBUNTU-SSH-CLIENTE → 192.168.2.3

Puerta de enlace → 192.168.2.1

Se configuran en el fichero netplan.

The screenshot shows a terminal window titled "UBUNTU-SSH-CLIENTE [Corriendo] - Oracle VM VirtualBox". The window title bar includes the machine name, status "Corriendo", and the host "graciassh@graciassh-VirtualBox". The terminal menu bar has options: Archivo, Máquina, Ver, Entrada, Dispositivos, Ayuda. The current tab is "Actividades" and the sub-tab is "Terminal". The date and time "3 de feb 18:14" are displayed. The terminal window contains the following content:

```
GNU nano 4.8          01-network-manager-all.yaml
# Let NetworkManager manage all devices on this system
network:
  version: 2
  renderer: networkd
  ethernets:
    enp0s3:
      addresses: [192.168.2.2/24]
      gateway4: 192.168.2.1
```

The terminal window has a dark background with light-colored text. A vertical dock on the left side contains icons for various applications like a browser, file manager, terminal, and help. The bottom of the terminal window has a toolbar with icons for help, exit, save, search, cut, copy, paste, find, replace, and other text processing functions. A status bar at the bottom shows "9 líneas leidas" (9 lines read).

Comprobamos que los ficheros son correctos: `netplan try`

Aplicamos cambios: `netplan apply`

Reiniciamos el servicio de red: `systemctl restart systemd-networkd`

Comprobamos que tienen la dirección ip correcta: `ip a`

## Instalación de un servicio ssh

**apt install ssh**

Y una vez lo hayamos instalado reiniciamos el servicio con systemctl.

**systemctl restart ssh**

Si no se producen errores, verificamos que los servicios están activos.

**status**

The image shows two terminal windows from Oracle VM VirtualBox. Both windows have a title bar with the name of the session and the status 'Corriendo' (Running). The left window is titled 'UBUNTU-SSH [Corriendo] - Oracle VM VirtualBox' and shows the command 'root@graciash-VirtualBox:/etc/ssh# systemctl status ssh.service'. The output indicates that the ssh service is active (running) since the previous day at 17:49:34 CET. The right window is titled 'UBUNTU-SSH-CLIENTE [Corriendo] - Oracle VM VirtualBox' and shows the command 'graciash@graciash-VirtualBox:~\$ systemctl status ssh.service'. The output indicates that the ssh service is active (running) since the previous day at 17:51:00 CET. Both terminals show a list of open applications at the top, including a browser and a file manager.

```
root@graciash-VirtualBox:/etc/ssh# systemctl status ssh.service
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2022-02-03 17:49:34 CET; 9s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
     Process: 1486 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
    Main PID: 1487 (sshd)
      Tasks: 1 (limit: 1087)
     Memory: 1.1M
        CPU: 0.000 CPU(s) (idle)
       CGroup: /system.slice/ssh.service
               └─1487 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

feb 03 17:49:34 graciash-VirtualBox systemd[1]: Starting OpenBSD Secure Shell...
feb 03 17:49:34 graciash-VirtualBox sshd[1487]: Server listening on 0.0.0.0 port 22
feb 03 17:49:34 graciash-VirtualBox sshd[1487]: Server listening on :: port 22
feb 03 17:49:34 graciash-VirtualBox systemd[1]: Started OpenBSD Secure Shell...
[lines 1-16/16 (END)]
[2]+  Detenido                  systemctl status ssh.service

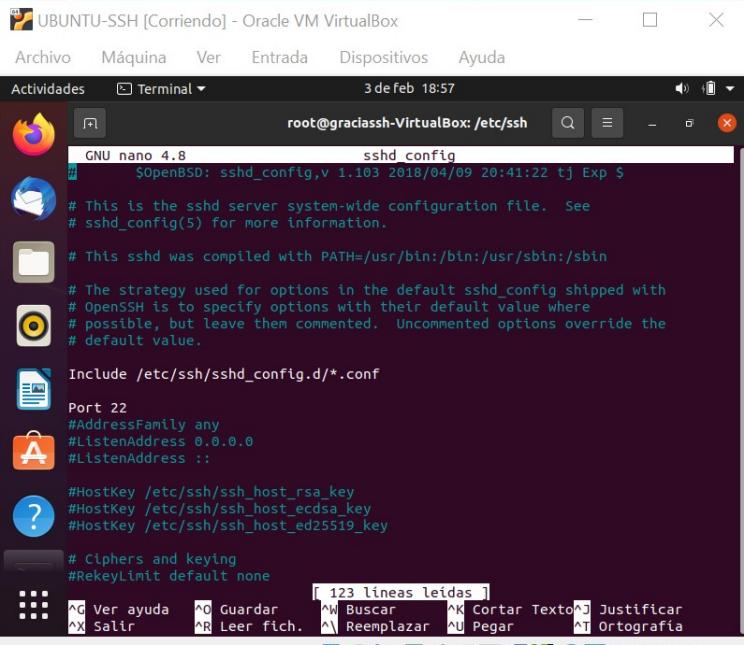
graciash@graciash-VirtualBox:~$ systemctl status ssh.service
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2022-02-03 17:51:00 CET; 19s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
     Process: 1531 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
    Main PID: 1532 (sshd)
      Tasks: 1 (limit: 2295)
     Memory: 1.0M
        CPU: 0.000 CPU(s) (idle)
       CGroup: /system.slice/ssh.service
               └─1532 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

feb 03 17:51:00 graciashcliente-VirtualBox systemd[1]: Starting OpenBSD Secure Shell...
feb 03 17:51:00 graciashcliente-VirtualBox sshd[1532]: Server listening on 0.0.0.0 port 22
feb 03 17:51:00 graciashcliente-VirtualBox sshd[1532]: Server listening on :: port 22
feb 03 17:51:00 graciashcliente-VirtualBox systemd[1]: Started OpenBSD Secure Shell...
[lines 1-16/16 (END)]
[1]+  Detenido                  systemctl status ssh.service
```

## Configuración del puerto del servidor ssh

Por defecto el servicio ssh corre en el puerto 22 del servidor.

Hay que buscarlo en el fichero **etc/ssh/sshd\_config**, y quitar la # para activarlo



```
GNU nano 4.8      sshd config
$OpenBSD: sshd_config,v 1.103 2018/04/09 20:41:22 tj Exp $

# This is the sshd server system-wide configuration file. See
# sshd_config(5) for more information.

# This sshd was compiled with PATH=/usr/bin:/bin:/usr/sbin:/sbin

# The strategy used for options in the default sshd_config shipped with
# OpenSSH is to specify options with their default value where
# possible, but leave them commented. Uncommented options override the
# default value.

Include /etc/ssh/sshd_config.d/*.conf

Port 22
#AddressFamily any
#ListenAddress 0.0.0.0
#ListenAddress ::

#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key

# Ciphers and keying
#RekeyLimit default none
```

Guardamos los cambios y reiniciamos el servicio con **systemctl restart ssh**

Iniciamos la conexión de 192.168.2.3 a 192.168.2.2

### Máquina cliente

```
root@graciasshcliente-VirtualBox:~# ssh -p 22 graciassh@192.168.2.2
graciassh@192.168.2.2's password:
Permission denied, please try again.
graciassh@192.168.2.2's password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.13.0-28-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

Se pueden aplicar 191 actualizaciones de forma inmediata.
117 de estas son actualizaciones de seguridad estándares.
Para ver estas actualizaciones adicionales ejecute: apt list --upgradable

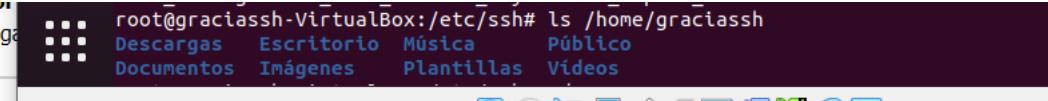
Your Hardware Enablement Stack (HWE) is supported until April 2025.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

graciassh@graciassh-VirtualBox:~$ ls /home/graciassh
Descargas  Escritorio  Música    Público
Documentos  Imágenes   Plantillas  Videos
```

### Máquina servidor



```
root@graciassh-VirtualBox:/etc/ssh# ls /home/graciassh
Descargas  Escritorio  Música    Público
Documentos  Imágenes   Plantillas  Videos
```