

DESAFIO 1

```
maria.hormaza@UbuntuServer:~$ sudo apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  openssh-client openssh-sftp-server
Suggested packages:
  keychain libpam-ssh monkeysphere ssh-askpass molly-guard
The following packages will be upgraded:
  openssh-client openssh-server openssh-sftp-server
3 upgraded, 0 newly installed, 0 to remove and 76 not upgraded.
Need to get 1,452 kB of archives.
After this operation, 7,168 B disk space will be freed.
Do you want to continue? [Y/n] Y
Get:1 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-sftp-server amd64 1:9.6p1-3ubuntu13.9 [37.3 kB]
Get:2 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server amd64 1:9.6p1-3ubuntu13.9 [509 kB]
Get:3 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-client amd64 1:9.6p1-3ubuntu13.9 [905 kB]
Fetched 1,452 kB in 0s (5,721 kB/s)
Preconfiguring packages ...
(Reading database ... 124665 files and directories currently installed.)
Preparing to unpack .../openssh-sftp-server_1%3a9.6p1-3ubuntu13.9_amd64.deb ...
Unpacking openssh-sftp-server (1:9.6p1-3ubuntu13.9) over (1:9.6p1-3ubuntu13.8) ...
Preparing to unpack .../openssh-server_1%3a9.6p1-3ubuntu13.9_amd64.deb ...
Unpacking openssh-server (1:9.6p1-3ubuntu13.9) over (1:9.6p1-3ubuntu13.8) ...
Preparing to unpack .../openssh-client_1%3a9.6p1-3ubuntu13.9_amd64.deb ...
Unpacking openssh-client (1:9.6p1-3ubuntu13.9) over (1:9.6p1-3ubuntu13.8) ...
Setting up openssh-client (1:9.6p1-3ubuntu13.9) ...
Setting up openssh-sftp-server (1:9.6p1-3ubuntu13.9) ...
Setting up openssh-server (1:9.6p1-3ubuntu13.9) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for ufw (0.36.2-6) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
maria.hormaza@UbuntuServer:~$
```

```
maria.hormaza@UbuntuServer:~$ journalctl -u sshd
-- No entries --
maria.hormaza@UbuntuServer:~$ sudo systemctl status ssh
[sudo] password for maria.hormaza:
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
   Active: inactive (dead)
TriggeredBy: ● ssh.socket
   Docs: man:sshd(8)
        man:sshd_config(5)
maria.hormaza@UbuntuServer:~$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable ssh
Created symlink /etc/systemd/system/sshd.service → /usr/lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /usr/lib/systemd/system/ssh.service.
maria.hormaza@UbuntuServer:~$ sudo systemctl start ssh
maria.hormaza@UbuntuServer:~$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enabled)
   Active: active (running) since Tue 2025-04-08 03:09:31 UTC; 15s ago
TriggeredBy: ● ssh.socket
   Docs: man:sshd(8)
        man:sshd_config(5)
   Process: 2057 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 2058 (sshd)
     Tasks: 1 (limit: 4609)
    Memory: 1.2M (peak: 1.3M)
       CPU: 27ms
   CGroup: /system.slice/ssh.service
           └─2058 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Apr 08 03:09:31 UbuntuServer systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
Apr 08 03:09:31 UbuntuServer sshd[2058]: Server listening on :: port 22.
Apr 08 03:09:31 UbuntuServer systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
maria.hormaza@UbuntuServer:~$
```

```
GNU nano 7.2 /etc/ssh/sshd_config *
# This is the sshd server system-wide configuration file. See
# sshd_config(5) for more information.

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

# 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 2222
#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

# Logging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

LoginGraceTime 30
PermitRootLogin no
#StrictModes yes
MaxAuthTries 3
MaxSessions 2

PubkeyAuthentication yes

# Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile .ssh/authorized_keys .ssh/authorized_keys2

#AuthorizedPrincipalsFile none

#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody

Help Write Out Where Is Cut Execute Location M-U Undo M-A Set Mark M-1 To Bracket M-O Previous
Exit Read File Replace Paste Justify Go To Line M-E Redo M-G Copy M-2 Where Was M-X Next
```

```
GNU nano 7.2 /etc/ssh/sshd_config *
# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#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
# some PAM modules and threads)
KbdInteractiveAuthentication no

# Kerberos options
#KerberosAuthentication no
#KerberosOrLocalPasswd yes
#KerberosTicketCleanup yes
#KerberosGetAFSToken no

# GSSAPI options
#GSSAPIAuthentication no
#GSSAPICleanupCredentials yes
#GSSAPIStrictAcceptorCheck yes
#GSSAPIKeyExchange no

# Set this to 'yes' to enable PAM authentication, account processing,
# and session processing. If this is enabled, PAM authentication will
# be allowed through the KbdInteractiveAuthentication and
# PasswordAuthentication no
# PAM authentication via KbdInteractiveAuthentication may bypass
# the setting of "PermitRootLogin prohibit-password".
# If you just want the PAM account and session checks to run without
# PAM authentication, then enable this but set PasswordAuthentication
# and KbdInteractiveAuthentication to 'no'.
UsePAM yes

#AllowAgentForwarding yes
#AllowTcpForwarding yes
#GatewayPorts no
X11Forwarding yes
#X11DisplayOffset 10
#X11UseLocalhost yes
#PermitTTY yes

Help Write Out Where Is Cut Execute Location M-U Undo M-A Set Mark M-1 To Bracket M-O Previous
Exit Read File Replace Paste Justify Go To Line M-E Redo M-G Copy M-2 Where Was M-X Next
```

```
GNU nano 7.2 /etc/ssh/sshd_config *
# be allowed through the KbdInteractiveAuthentication and
PasswordAuthentication no
# PAM authentication via KbdInteractiveAuthentication may bypass
# the setting of "PermitRootLogin prohibit-password".
# If you just want the PAM account and session checks to run without
# PAM authentication, then enable this but set PasswordAuthentication
# and KbdInteractiveAuthentication to 'no'.
UsePAM yes

#AllowAgentForwarding yes
#AllowTcpForwarding yes
#GatewayPorts no
X11Forwarding yes
#X11DisplayOffset 10
#X11UseLocalhost yes
#PermitTTY yes
PrintMotd no
#PrintLastLog yes
#TCPKeepAlive yes
#PermitUserEnvironment no
#Compression delayed
#ClientAliveInterval 0
#ClientAliveCountMax 3
#UseDNS no
#PidFile /run/sshd.pid
#MaxStartups 10:30:100
#PermitTunnel no
#ChrootDirectory none
#VersionAddendum none

# no default banner path
#Banner none

# Allow client to pass locale environment variables
AcceptEnv LANG LC_*

# override default of no subsystems
Subsystem sftp /usr/lib/openssh/sftp-server

# Example of overriding settings on a per-user basis
#Match User anoncvs
#    X11Forwarding no
#    AllowTcpForwarding no
#    PermitTTY no
#    ForceCommand cvs server
-
G Help      C Write Out  W Where Is   X Cut        J Execute    L Location   M-U Undo     M-A Set Mark  M-I To Bracket M-O Previous
X Exit      R Read File  N Replace    U Paste      K Justify    / Go To Line M-E Redo     M-C Copy     Q Where Was  M-N Next
```

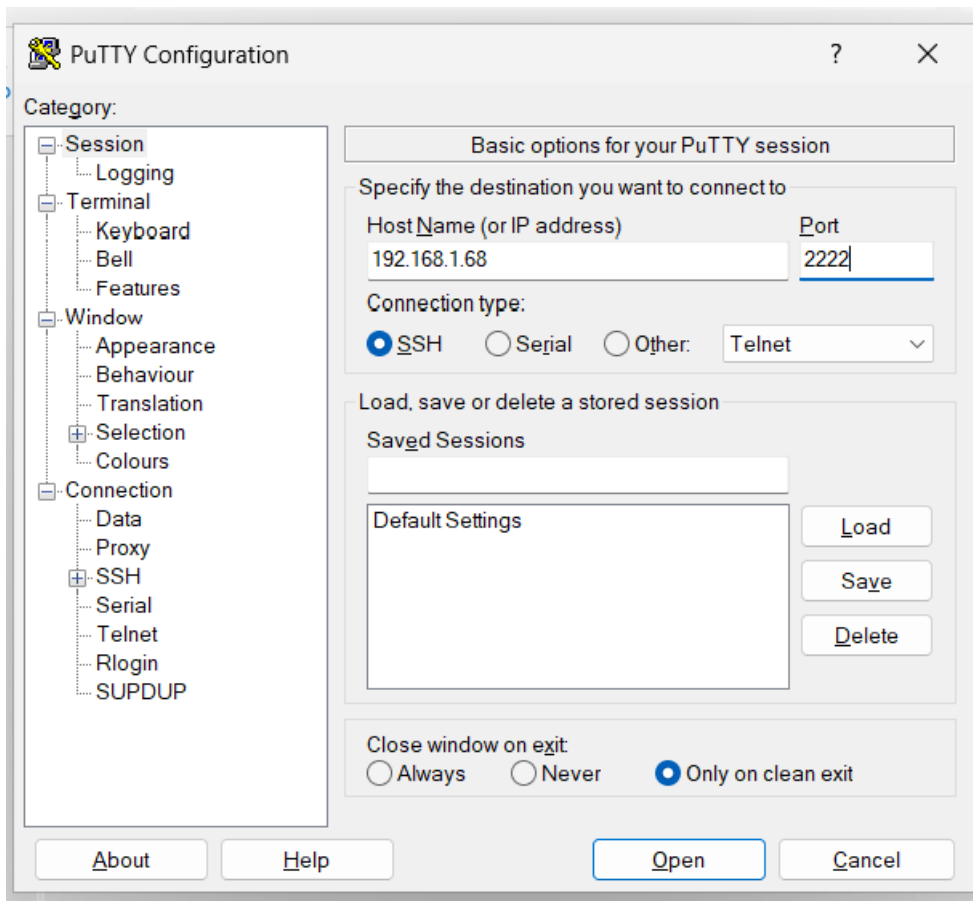
```
maria.hornaza@UbuntuServer:~$ sudo ss -tulpn | grep sshd
[sudo] password for maria.hornaza:
Sorry, try again.
[sudo] password for maria.hornaza:
tcp LISTEN 0      4096             *:2222         *:~ users:(("sshd",pid=789,fd=3),("systemd",pid=1,fd=90))
maria.hornaza@UbuntuServer:~$ _
```

DESAFIO 2

VER MI IP EN UBUNTU SERVER

```
maria.hornaza@UbuntuServer:~$ hostname -I
192.168.1.68
```

Putty configuré IP.



```

maria.hormaza@UbuntuServer:~$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enabled)
   Active: active (running) since Wed 2025-04-09 02:57:27 UTC; 20min ago
     TriggeredBy: ● ssh.socket
                Docs: man:sshd(8)
                   man:sshd_config(5)
   Process: 822 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
    Main PID: 833 (sshd)
       Tasks: 1 (limit: 4609)
      Memory: 2.3M (peak: 3.8M)
         CPU: 146ms
    CGroup: /system.slice/ssh.service
            └─833 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Apr 09 02:57:27 UbuntuServer systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
Apr 09 02:57:27 UbuntuServer sshd[833]: Server listening on :: port 2222.
Apr 09 02:57:27 UbuntuServer systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
Apr 09 03:04:03 UbuntuServer sshd[1044]: Invalid user mchormaza from 192.168.1.63 port 60775
Apr 09 03:07:29 UbuntuServer sshd[1049]: error: Received disconnect from 192.168.1.63 port 60016:14: No supported authentication methods available (preauth)
Apr 09 03:07:29 UbuntuServer sshd[1049]: Disconnected from authenticating user maria.hormaza 192.168.1.63 port 60016 [preauth]
maria.hormaza@UbuntuServer:~$ ssh-keygen
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/maria.hormaza/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/maria.hormaza/.ssh/id_ed25519
Your public key has been saved in /home/maria.hormaza/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:hEhcr10G1S15w1e0lInPnUUmF10R2T9k5N+Jser//4 maria.hormaza@UbuntuServer
The key's randomart image is:
+--[Ed25519 256]--+
|.B=00=80
|..+00=+.0.
|.0000.=+ .0
|=....= *
|+..0$ .+
|0 . 0 =
|. . =
|. .00E
+-----[SHA256]-----+
maria.hormaza@UbuntuServer:~$

```

```

(continued)
maria.hormaza@UbuntuServer:~$ ssh-copy-id -p 2222 maria.hormaza@192.168.1.68
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/maria.hormaza/.ssh/id_ed25519.pub"
The authenticity of host '[192.168.1.68]:2222 ([192.168.1.68]:2222)' can't be established.
ED25519 key fingerprint is SHA256:rMnq+yxRzbv49h4f31010E3NvDkCbW+ptHKAZ8j0SsU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/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: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
maria.hormaza@192.168.1.68: Permission denied (publickey).
maria.hormaza@UbuntuServer:~$ chmod 700 ~/.ssh
maria.hormaza@UbuntuServer:~$ chmod 600 ~/.ssh/authorized_keys
maria.hormaza@UbuntuServer:~$ sudo systemctl restart ssh
maria.hormaza@UbuntuServer:~$

```

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

```

mchormaza@mchormaza-VirtualBox:~$ sudo nano /etc/ssh/sshd_config
[sudo] contraseña para mchormaza:
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl restart sshd~
Invalid unit name "sshd~" escaped as "sshd\x7e" (maybe you should use systemd-escape?).
Failed to restart sshd\x7e.service: Unit sshd\x7e.service not found.
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl restart sshd
Failed to restart sshd.service: Unit sshd.service not found.
mchormaza@mchormaza-VirtualBox:~$ ^[[200~systemctl list-units --type=service | grep ssh
systemctl: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ systemctl list-units --type=service | grep ssh
mchormaza@mchormaza-VirtualBox:~$ systemctl list-units --type=service | grep sshmchormaza@mchormaza
-VirtualBox:~$ sudo systemctl restart ssh
Failed to restart ssh.service: Unit ssh.service not found.
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl restart sshd.service
Failed to restart sshd.service: Unit sshd.service not found.
mchormaza@mchormaza-VirtualBox:~$ sudo sshd -t
sudo: sshd: orden no encontrada
mchormaza@mchormaza-VirtualBox:~$ sudo apt install openssh-server
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes adicionales:
ncurses-term openssh-client openssh-sftp-server ssh-import-id

```

```

necesita con openssh-client openssh-server ssh-import-id
Paquetes sugeridos:
  keychain libpam-ssh monkeysphere ssh-askpass molly-guard
Se instalarán los siguientes paquetes NUEVOS:
  ncurses-term openssh-server openssh-sftp-server ssh-import-id
Se actualizarán los siguientes paquetes:
  openssh-client
1 actualizados, 4 nuevos se instalarán, 0 para eliminar y 75 no actualizados.
Se necesita descargar 1.737 kB de archivos.
Se utilizarán 6.744 kB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n] S
Des:1 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-client amd64 1:9.6p1-3ubuntu13.9 [905 kB]
Des:2 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-sftp-server amd64 1:9.6p1-3ubuntu13.9 [37,3 kB]
Des:3 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server amd64 1:9.6p1-3ubuntu13.9 [509 kB]
Des:4 http://co.archive.ubuntu.com/ubuntu noble/main amd64 ncurses-term all 6.4+20240113-1ubuntu2 [275 kB]
Des:5 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 ssh-import-id all 5.11-0ubuntu2.24.04.1 [10,1 kB]
Descargados 1.737 kB en 1s (3.190 kB/s)
Preconfigurando paquetes ...
(Leyendo la base de datos ... 150345 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../openssh-client_1%3a9.6p1-3ubuntu13.9_amd64.deb
...

```

```

...
Preparando para desempaquetar .../openssh-client_1%3a9.6p1-3ubuntu13.9_amd64.deb
...
Desempaquetando openssh-client (1:9.6p1-3ubuntu13.9) sobre (1:9.6p1-3ubuntu13.8)
...
Seleccionando el paquete openssh-sftp-server previamente no seleccionado.
Preparando para desempaquetar .../openssh-sftp-server_1%3a9.6p1-3ubuntu13.9_amd64.deb ...
Desempaquetando openssh-sftp-server (1:9.6p1-3ubuntu13.9) ...
Seleccionando el paquete openssh-server previamente no seleccionado.
Preparando para desempaquetar .../openssh-server_1%3a9.6p1-3ubuntu13.9_amd64.deb
...
Desempaquetando openssh-server (1:9.6p1-3ubuntu13.9) ...
Seleccionando el paquete ncurses-term previamente no seleccionado.
Preparando para desempaquetar .../ncurses-term_6.4+20240113-1ubuntu2_all.deb ...
Desempaquetando ncurses-term (6.4+20240113-1ubuntu2) ...
Seleccionando el paquete ssh-import-id previamente no seleccionado.
Preparando para desempaquetar .../ssh-import-id_5.11-0ubuntu2.24.04.1_all.deb ..
.
Desempaquetando ssh-import-id (5.11-0ubuntu2.24.04.1) ...
Configurando openssh-client (1:9.6p1-3ubuntu13.9) ...
Configurando ssh-import-id (5.11-0ubuntu2.24.04.1) ...
Configurando ncurses-term (6.4+20240113-1ubuntu2) ...
Configurando openssh-sftp-server (1:9.6p1-3ubuntu13.9) ...
mchormaza@mchormaza-VirtualBox:~$ sudo nano /etc/ssh/sshd_config
mchormaza@mchormaza-VirtualBox:~$ ssh-keygen
Generating public/private ed25519 key pair.

```



```

mchormaza@mchormaza-VirtualBox:~$ sudo nano /etc/ssh/sshd_config
mchormaza@mchormaza-VirtualBox:~$ ssh-keygen
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/mchormaza/.ssh/id_ed25519): 1230
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in 1230
Your public key has been saved in 1230.pub
The key fingerprint is:
SHA256:WzEaUwIx+RWhG4tnaQPKkXU3pBOuhQtMbo9k9tT0sW8 mchormaza@mchormaza-VirtualBox
The key's randomart image is:
+--[ED25519 256]--+
|      . =++.Bo      |
|    + o.* B..       |
|      @ +.%.o        |
|    * 0 0.% o        |
|    + * S .          |
|      + =           |
|      . E           |
|      .             |
+-----[SHA256]-----+

```

```

mchormaza@mchormaza-VirtualBox:~$ hostname -I
192.168.1.69
mchormaza@mchormaza-VirtualBox:~$ ^[[200~chmod 700 ~/.ssh
chmod: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ chmod 600 ~/.ssh/authorized_keys~
chmod: no se puede acceder a '/home/mchormaza/.ssh/authorized_keys~': No existe
el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~$ chmod 700 ~/.ssh
mchormaza@mchormaza-VirtualBox:~$ chmod 600 ~/.ssh/authorized_keys
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl restart sshd
[sudo] contraseña para mchormaza:
Failed to restart sshd.service: Unit sshd.service not found.
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl restart ssh
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl restart ssh
mchormaza@mchormaza-VirtualBox:~$ systemctl list-units --type=service | grep ssh

ssh.service                                loaded active running OpenBSD Secure
Shell server
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl restart ssh

```

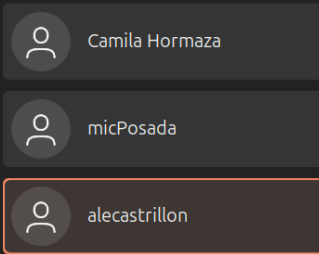
```
mchormaza@mchormaza-VirtualBox: ~  
login as: mchormaza  
mchormaza@192.168.1.69's password:  
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.11.0-21-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/pro  
  
El mantenimiento de seguridad expandido para Applications está desactivado  
  
Se pueden aplicar 74 actualizaciones de forma inmediata.  
Para ver estas actualizaciones adicionales, ejecute: apt list --upgradable  
  
Active ESM Apps para recibir futuras actualizaciones de seguridad adicionales.  
Vea https://ubuntu.com/esm o ejecute «sudo pro status»  
  
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.  
  
mchormaza@mchormaza-VirtualBox:~$
```

```
mchormaza@mchormaza-VirtualBox: ~  
Active ESM Apps para recibir futuras actualizaciones de seguridad adicionales.  
Vea https://ubuntu.com/esm o ejecute «sudo pro status»  
  
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.  
  
mchormaza@mchormaza-VirtualBox:~$ ipconfig  
Orden «ipconfig» no encontrada. Quizá quiso decir:  
  la orden «iwconfig» del paquete deb «wireless-tools (30~pre9-13.1ubuntu4)»  
  la orden «hipconfig» del paquete deb «hipcc (5.2.3-12)»  
  la orden «iconfig» del paquete deb «ipmiutil (3.1.9-3)»  
  la orden «ifconfig» del paquete deb «net-tools (2.10-0.1ubuntu3)»  
Pruebe con: sudo apt install <nombre del paquete deb>  
mchormaza@mchormaza-VirtualBox:~$ sudo mkdir -p practica3ssh/mchormaza  
[sudo] contraseña para mchormaza:  
Lo siento, pruebe otra vez.  
[sudo] contraseña para mchormaza:  
mchormaza@mchormaza-VirtualBox:~$ sudo mkdir -p practica3ssh/mchormaza cd practica3ssh  
mchormaza@mchormaza-VirtualBox:~$ nano funciones_ssh.txt  
mchormaza@mchormaza-VirtualBox:~$ practica3ssh$ cd mchormaza  
nano sshwindows.txt
```


DESAFIO 3

```
mchormaza@mchormaza-VirtualBox:~$ chmod
chmod: falta un operando
Pruebe 'chmod --help' para más información.
mchormaza@mchormaza-VirtualBox:~$ s_operativos
s_operativos: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ sudo chmod
[sudo] contraseña para mchormaza:
chmod: falta un operando
Pruebe 'chmod --help' para más información.
mchormaza@mchormaza-VirtualBox:~$ cd s_operativos
-bash: cd: s_operativos: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~$ ls
1230      Descargas  funciones_ssh.txt  Plantillas  snap
1230.pub  Documentos  Imágenes          practica3ssh sshwindows.txt
cd        Escritorio  Música            Público     Vídeos
mchormaza@mchormaza-VirtualBox:~$ bash
mchormaza@mchormaza-VirtualBox:~$ ^[[200~mkdir -p s_operativos/Tu_Nombre
mkdir: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ cd s_operativos/Tu_Nombre
bash: cd: s_operativos/Tu_Nombre: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~$ nano sshlinux.txt
mchormaza@mchormaza-VirtualBox:~$ cd practica3ssh
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ mkdir -p s_operativos/mchormaza
cd s_operativos/mchormaza
nano sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ ls -l
total 4
-rw-rw-r-- 1 mchormaza mchormaza 135 abr  9 21:35 sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd practic
a3ssh
bash: cd: practica3ssh: No existe el archivo o el directorio
```

10 de abr 22:24



¿No está en la lista?



```
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd ..
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ cd ..
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ cd ..
mchormaza@mchormaza-VirtualBox:~$ cd practica3ssh
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ ls
funciones_ssh.txt  mchormaza  s_operativos
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ cd mchormaza
mchormaza@mchormaza-VirtualBox:~/practica3ssh/mchormaza$ cd --
mchormaza@mchormaza-VirtualBox:~$ cd ..
mchormaza@mchormaza-VirtualBox:/home$ cd ..
mchormaza@mchormaza-VirtualBox:/$ cd s_operativos
bash: cd: s_operativos: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:/$ cd practica3ssh
bash: cd: practica3ssh: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:/$ cd practica3ssh
bash: cd: practica3ssh: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:/$ ls
bin          home          mnt          sbin.usr-is-merged  usr
bin.usr-is-merged  lib          opt          snap                var
boot         lib64         proc         srv
cdrom        lib.usr-is-merged  root        swap.img
dev          lost+found   run         sys
etc          media        sbin        tmp
mchormaza@mchormaza-VirtualBox:/$ bash
mchormaza@mchormaza-VirtualBox:/$ ls
bin          home          mnt          sbin.usr-is-merged  usr
bin.usr-is-merged  lib          opt          snap                var
boot         lib64         proc         srv
cdrom        lib.usr-is-merged  root        swap.img
dev          lost+found   run         sys
etc          media        sbin        tmp
mchormaza@mchormaza-VirtualBox:/$ cd home
mchormaza@mchormaza-VirtualBox:/home$ cd ..
```

```

mchormaza@mchormaza-VirtualBox:/$ cd ..
mchormaza@mchormaza-VirtualBox:/$ ls
bin             home             mnt             sbin.usr-is-merged  usr
bin.usr-is-merged lib             opt             snap              var
boot            lib64           proc            srv
cdrom           lib.usr-is-merged root            swap.img
dev             lost+found      run             sys
etc             media           sbin           tmp
mchormaza@mchormaza-VirtualBox:/$ cd home
mchormaza@mchormaza-VirtualBox:/home$ ls
mchormaza
mchormaza@mchormaza-VirtualBox:/home$ cd mchormaza
mchormaza@mchormaza-VirtualBox:~$ ls
1230      Descargas      funciones_ssh.txt  Plantillas      snap
1230.pub  Documentos    Imágenes          practica3ssh    sshwindows.txt
cd        Escritorio    Música            Público         Vídeos
mchormaza@mchormaza-VirtualBox:~$ cd practica3ssh
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ ls
funciones_ssh.txt  mchormaza  s_operativos
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ cd s_operativos
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ ls
mchormaza
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ cd mchormaza
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ ls
sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd carpeta
1
bash: cd: carpeta1: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ ls
sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd sshlinu
x.txt
bash: cd: sshlinux.txt: No es un directorio

```

```
bash: cd: sshlinux.txt: No es un directorio
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd sshlinu
x.txt
bash: cd: sshlinux.txt: No es un directorio
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cat sshlin
ux.txt
chmod 750 carpeta1
chmod 644 archivo1
chmod 600 archivo2
chmod 777 carpeta2
chmod 700 archivo3
chmod 1777 carpeta3
chmod 2750 carpeta4
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd ..
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ cd ..
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ cd ..
mchormaza@mchormaza-VirtualBox:~$ chmod ug+x sshlinux.txt
chmod: no se puede acceder a 'sshlinux.txt': No existe el archivo o el directori
o
mchormaza@mchormaza-VirtualBox:~$ cd ^C
mchormaza@mchormaza-VirtualBox:~$ cd practica3ssh/s_operativos
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ chmod 750 carpeta1
chmod: no se puede acceder a 'carpeta1': No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ chmod ug+x sshlinux.
txt
chmod: no se puede acceder a 'sshlinux.txt': No existe el archivo o el directori
o
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ ls
mchormaza
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ cd mchormaza
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ chmod ug+x
sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ chmod uo+w
```

```

x sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$
mchormaza@mchormaza-VirtualBox:~$ s_operativos
s_operativos: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ sudo chmod
[sudo] contraseña para mchormaza:
chmod: falta un operando
Pruebe 'chmod --help' para más información.
mchormaza@mchormaza-VirtualBox:~$ cd s_operativos
-bash: cd: s_operativos: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~$ ls
1230      Descargas  funciones_ssh.txt  Plantillas  snap
1230.pub  Documentos  Imágenes          practica3ssh  sshwindows.txt
cd        Escritorio  Música            Público      Vídeos
mchormaza@mchormaza-VirtualBox:~$ bash
mchormaza@mchormaza-VirtualBox:~$ ^[[200~mkdir -p s_operativos/Tu_Nombre
mkdir: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ cd s_operativos/Tu_Nombre
bash: cd: s_operativos/Tu_Nombre: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~$ nano sshlinux.txt
mchormaza@mchormaza-VirtualBox:~$ cd practica3ssh
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ mkdir -p s_operativos/mchormaza
cd s_operativos/mchormaza
nano sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ ls -l
^Cmchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ chmod uo+w
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ ^C
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ ls -l
total 4
-rwxrwxrwx 1 mchormaza mchormaza 135 abr  9 21:35 sshlinux.txt
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd ....
bash: cd: ..../: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd ..

```

```

mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd ....
bash: cd: ..../: No existe el archivo o el directorio
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos/mchormaza$ cd ..
mchormaza@mchormaza-VirtualBox:~/practica3ssh/s_operativos$ cd ..
mchormaza@mchormaza-VirtualBox:~/practica3ssh$ cd ..
mchormaza@mchormaza-VirtualBox:~$ sudo groupadd gruposisistemas
sudo groupadd gruppoperativos
[sudo] contraseña para mchormaza:
mchormaza@mchormaza-VirtualBox:~$ ls -l
total 60
-rw----- 1 mchormaza mchormaza 484 abr 8 23:06 1230
-rw-r--r-- 1 mchormaza mchormaza 112 abr 8 23:06 1230.pub
drwxr-xr-x 2 root root 4096 abr 8 23:47 cd
drwxr-xr-x 2 mchormaza mchormaza 4096 abr 8 23:32 Descargas
drwxr-xr-x 2 mchormaza mchormaza 4096 mar 30 20:40 Documentos
drwxr-xr-x 2 mchormaza mchormaza 4096 mar 30 20:40 Escritorio
-rw-rw-r-- 1 mchormaza mchormaza 115 abr 8 23:56 funciones_ssh.txt
drwxr-xr-x 3 mchormaza mchormaza 4096 abr 8 22:53 Imágenes
drwxr-xr-x 2 mchormaza mchormaza 4096 mar 30 20:40 Música
drwxr-xr-x 2 mchormaza mchormaza 4096 mar 30 20:40 Plantillas
drwxrwxr-x 4 mchormaza mchormaza 4096 abr 9 21:34 practica3ssh
drwxr-xr-x 2 mchormaza mchormaza 4096 mar 30 20:40 Público
drwx----- 5 mchormaza mchormaza 4096 abr 8 22:38 snap
-rw-rw-r-- 1 mchormaza mchormaza 10 abr 8 23:59 sshwindows.txt
drwxr-xr-x 2 mchormaza mchormaza 4096 mar 30 20:40 Vídeos
mchormaza@mchormaza-VirtualBox:~$ getent group | grep grupo
gruposisistemas:x:1001:
mchormaza@mchormaza-VirtualBox:~$ ^[[200~sudo groupadd gruppoperativos
sudo: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ sudo groupadd gruppoperativos
groupadd: el grupo «gruppoperativos» ya existe
mchormaza@mchormaza-VirtualBox:~$ sudo useradd -m -G gruposisistemas mchormaza
sudo useradd -m -G gruppoperativos alecastrillon

```



```
sudo useradd -m -G gruppoperativos alecastrillon
sudo useradd -m -G gruposistemas,gruppoperativos micPosada
sudo useradd -m -G gruppoperativos nruales
useradd: el usuario «mchormaza» ya existe
mchormaza@mchormaza-VirtualBox:~$ sudo passwd nruales
sudo passwd alecastrillon
sudo passwd micPosada
Nueva contraseña:
Vuelva a escribir la nueva contraseña:
passwd: contraseña actualizada correctamente
Nueva contraseña:
Vuelva a escribir la nueva contraseña:
passwd: contraseña actualizada correctamente
Nueva contraseña:
Vuelva a escribir la nueva contraseña:
Las contraseñas no coinciden.
Nueva contraseña:
Vuelva a escribir la nueva contraseña:
passwd: contraseña actualizada correctamente
mchormaza@mchormaza-VirtualBox:~$ cat /etc/passwd | grep usuario
cat /etc/group | grep grupo
cat /etc/shadow | grep usuario
gruposistemas:x:1001:micPosada
cat: /etc/shadow: Permiso denegado
mchormaza@mchormaza-VirtualBox:~$ ^[[200~cat /etc/passwd | grep usuario
cat: no se encontró la orden
mchormaza@mchormaza-VirtualBox:~$ cat /etc/group | grep grupo
gruposistemas:x:1001:micPosada
mchormaza@mchormaza-VirtualBox:~$ cat /etc/shadow | grep usuario
cat: /etc/shadow: Permiso denegado
mchormaza@mchormaza-VirtualBox:~$ ~sudo gpasswd -d nruales gruppoperativos
Orden «~sudo» no encontrada. Quizá quiso decir:
    la orden «sudo» del paquete deb «sudo (1.9.14p2-1ubuntu1)»
```

```
la orden «sudo» del paquete deb «sudo-ldap (1.9.14p2-1ubuntu1)»
Pruebe con: sudo apt install <nombre del paquete deb>
mchormaza@mchormaza-VirtualBox:~$ sudo gpasswd -d nruales gruppoperativos
Eliminando al usuario nruales del grupo gruppoperativos
mchormaza@mchormaza-VirtualBox:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:996:996:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:101::/nonexistent:/usr/sbin/nologin
syslog:x:102:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:991:991:systemd Resolver:/:/usr/sbin/nologin
uidd:x:103:103::/run/uidd:/usr/sbin/nologin
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
tss:x:105:105:TPM software stack,,,:/var/lib/tpm:/bin/false
systemd-oom:x:990:990:systemd Userspace OOM Killer:/:/usr/sbin/nologin
```

```

kernoops:x:106:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
whoopsie:x:107:109:/:nonexistent:/bin/false
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
avahi:x:108:111:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
tcpdump:x:109:112:/:nonexistent:/usr/sbin/nologin
sssd:x:110:113:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:111:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
cups-pk-helper:x:112:114:user for cups-pk-helper service,,,:/nonexistent:/usr/sbin/nologin
fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/nologin
saned:x:113:116:/:var/lib/saned:/usr/sbin/nologin
geoclue:x:114:117:/:var/lib/geoclue:/usr/sbin/nologin
cups-browsed:x:115:114:/:nonexistent:/usr/sbin/nologin
hplip:x:116:7:HPLIP system user,,,:/run/hplip:/bin/false
gnome-remote-desktop:x:988:988:GNOME Remote Desktop:/var/lib/gnome-remote-desktop:/usr/sbin/nologin
polkitd:x:987:987:User for polkitd:/usr/sbin/nologin
rtkit:x:117:119:RealtimeKit,,,:/proc:/usr/sbin/nologin
colord:x:118:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
gnome-initial-setup:x:119:65534:/:run/gnome-initial-setup:/bin/false
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
mchormaza:x:1000:1000:Camila Hormaza:/home/mchormaza:/bin/bash
sshd:x:122:65534:/:run/sshd:/usr/sbin/nologin
alecastrillon:x:1001:1003:/:home/alecastrillon:/bin/sh
micPosada:x:1002:1004:/:home/micPosada:/bin/sh
nruales:x:1003:1005:/:home/nruales:/bin/sh
mchormaza@mchormaza-VirtualBox:~$ cat /etc/passwd | grep alecastrillon
alecastrillon:x:1001:1003:/:home/alecastrillon:/bin/sh
mchormaza@mchormaza-VirtualBox:~$ groups alecastrillon

```

```

alecastrillon : alecastrillon gruppooperativos
mchormaza@mchormaza-VirtualBox:~$ grep '/bin/bash' /etc/passwd
root:x:0:0:root:/root:/bin/bash
mchormaza:x:1000:1000:Camila Hormaza:/home/mchormaza:/bin/bash
mchormaza@mchormaza-VirtualBox:~$ grep gruposistemas /etc/group
grep gruppooperativos /etc/group
gruposistemas:x:1001:micPosada
gruppooperativos:x:1002:alecastrillon,micPosada
mchormaza@mchormaza-VirtualBox:~$ sudo usermod -s /usr/sbin/nologin nruales
mchormaza@mchormaza-VirtualBox:~$ sudo usermod -L nruales
mchormaza@mchormaza-VirtualBox:~$ grep nruales /etc/passwd
grep nruales /etc/shadow
grep gruppooperativos /etc/group
nruales:x:1003:1005:/:home/nruales:/usr/sbin/nologin
grep: /etc/shadow: Permiso denegado
gruppooperativos:x:1002:alecastrillon,micPosada

```

DESAFIO 5

Iniciar en putty

```
mchormaza@mchormaza-VirtualBox: ~  
login as: mchormaza  
mchormaza@192.168.1.69's password:  
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.11.0-21-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/pro  
  
El mantenimiento de seguridad expandido para Applications está desactivado  
Se pueden aplicar 74 actualizaciones de forma inmediata.  
Para ver estas actualizaciones adicionales, ejecute: apt list --upgradable  
  
Active ESM Apps para recibir futuras actualizaciones de seguridad adicionales.  
Vea https://ubuntu.com/esm o ejecute «sudo pro status»  
  
Last login: Wed Apr  9 21:17:26 2025 from 192.168.1.63  
mchormaza@mchormaza-VirtualBox:~$
```

WIRESHARK

SSH

Capturando desde Ethernet

Archivo Edición Visualización Ir Captura Analizar Estadísticas Telefonía Wireless Herramientas Ayuda

tcp.port == 2222

Time	Source	Destination	Protocol	Length	Info
557 48.561763	192.168.1.69	10.0.2.15	TCP	60	2222 → 50130 [ACK] Seq=2907 Ack=3477 W
558 48.813060	192.168.1.69	10.0.2.15	TCP	710	2222 → 50130 [PSH, ACK] Seq=2907 Ack=3
560 48.854711	192.168.1.69	10.0.2.15	TCP	118	2222 → 50130 [PSH, ACK] Seq=3563 Ack=3
561 48.854938	10.0.2.15	192.168.1.69	TCP	54	50130 → 2222 [ACK] Seq=3477 Ack=3627 W
562 48.860146	10.0.2.15	192.168.1.69	TCP	230	50130 → 2222 [PSH, ACK] Seq=3477 Ack=3
563 48.862273	192.168.1.69	10.0.2.15	TCP	60	2222 → 50130 [ACK] Seq=3627 Ack=3653 W
564 48.867398	192.168.1.69	10.0.2.15	TCP	214	2222 → 50130 [PSH, ACK] Seq=3627 Ack=3
565 48.867398	192.168.1.69	10.0.2.15	TCP	742	2222 → 50130 [PSH, ACK] Seq=3787 Ack=3
566 48.867560	10.0.2.15	192.168.1.69	TCP	54	50130 → 2222 [ACK] Seq=3653 Ack=4475 W
567 48.912147	192.168.1.69	10.0.2.15	TCP	198	2222 → 50130 [PSH, ACK] Seq=4475 Ack=3
568 48.958603	10.0.2.15	192.168.1.69	TCP	54	50130 → 2222 [ACK] Seq=3653 Ack=4619 W

> Frame 566: 54 bytes on wire (432 bits), 54 bytes captured on interface eth0
> Ethernet II, Src: PCSSystemtec_f2:01:2b (08:00:27:f2:6d:00), Dst: 10.0.2.15
> Internet Protocol Version 4, Src: 10.0.2.15, Dst: 192.168.1.69
> Transmission Control Protocol, Src Port: 50130, Dst Port: 2222

0000 52 55 0a 00 02 02 08 00 27 f2 01 2b 08 00 45 00
0010 00 28 be 5e 40 00 80 06 00 00 0a 00 02 0f c0 a8
0020 01 45 c3 d2 08 ae 82 17 ad 56 12 dd 2b 7c 50 10
0030 ff ff ce 16 00 00

Capturando desde Ethernet

Archivo Edición Visualización Ir Captura Analizar Estadísticas Telefonía Wireless Herramientas Ayuda

tcp.port == 2222

Time	Source	Destination	Protocol	Length	Info
557 48.561763	192.168.1.69	10.0.2.15	TCP	60	2222 → 50130 [ACK] Seq=2907 Ack=3477 W.
558 48.813060	192.168.1.69	10.0.2.15	TCP	710	2222 → 50130 [PSH, ACK] Seq=2907 Ack=3477 W.
560 48.854711	192.168.1.69	10.0.2.15	TCP	118	2222 → 50130 [PSH, ACK] Seq=3563 Ack=3477 W.
561 48.854938	10.0.2.15	192.168.1.69	TCP	54	50130 → 2222 [ACK] Seq=3477 Ack=3627 W.
562 48.860146	10.0.2.15	192.168.1.69	TCP	230	50130 → 2222 [PSH, ACK] Seq=3477 Ack=3627 W.
563 48.862273	192.168.1.69	10.0.2.15	TCP	60	2222 → 50130 [ACK] Seq=3627 Ack=3653 W.
564 48.867398	192.168.1.69	10.0.2.15	TCP	214	2222 → 50130 [PSH, ACK] Seq=3627 Ack=3653 W.
565 48.867398	192.168.1.69	10.0.2.15	TCP	742	2222 → 50130 [PSH, ACK] Seq=3787 Ack=3653 W.
566 48.867560	10.0.2.15	192.168.1.69	TCP	54	50130 → 2222 [ACK] Seq=3653 Ack=4475 W.
567 48.912147	192.168.1.69	10.0.2.15	TCP	198	2222 → 50130 [PSH, ACK] Seq=4475 Ack=3653 W.
568 48.958603	10.0.2.15	192.168.1.69	TCP	54	50130 → 2222 [ACK] Seq=3653 Ack=4619 W.

> Frame 566: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface 0
 > Ethernet II, Src: PCSSystemtec_f2:01:2b (08:00:27:f2:01:2b), Dst: 10.0.2.15
 > Internet Protocol Version 4, Src: 10.0.2.15, Dst: 192.168.1.69
 > Transmission Control Protocol, Src Port: 50130, Dst Port: 2222

0000 52 55 0a 00 02 02 08 00 27 f2 01 2b 08 00 45 00
 0010 00 28 be 5e 40 00 80 06 00 00 0a 00 02 0f c0 a8
 0020 01 45 c3 d2 08 ae 82 17 ad 56 12 dd 2b 7c 50 10
 0030 ff ff ce 16 00 00

TFP

Para acceder al TFP se debe instalar en Linux

```
mchormaza@mchormaza-VirtualBox:~$ sudo apt install vsftpd
[sudo] contraseña para mchormaza:
Lo siento, pruebe otra vez.
[sudo] contraseña para mchormaza:
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes NUEVOS:
  vsftpd
0 actualizados, 1 nuevos se instalarán, 0 para eliminar y 75 no actualizados.
Se necesita descargar 120 kB de archivos.
Se utilizarán 312 kB de espacio de disco adicional después de esta operación.
Des:1 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 vsftpd amd64 3.0.5-0ubuntu3.1 [120 kB]
Descargados 120 kB en 0s (780 kB/s)
Preconfigurando paquetes ...
Seleccionando el paquete vsftpd previamente no seleccionado.
(Leyendo la base de datos ... 153249 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../vsftpd_3.0.5-0ubuntu3.1_amd64.deb ...
Desempaquetando vsftpd (3.0.5-0ubuntu3.1) ...
Configurando vsftpd (3.0.5-0ubuntu3.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/vsftpd.service → /usr/lib/systemd/system/vsftpd.service.
Procesando disparadores para man-db (2.12.0-4build2) ...
mchormaza@mchormaza-VirtualBox:~$ sudo apt update
sudo apt install vsftpd
```



```
sudo apt install vsftpd
[sudo] contraseña para mchormaza:
Obj:1 http://co.archive.ubuntu.com/ubuntu noble InRelease
Des:2 http://co.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Des:3 http://co.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Des:4 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [991 kB]
Des:5 http://co.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [219 kB]
Des:6 http://co.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Des:7 http://co.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [892 kB]
Des:8 http://co.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [182 kB]
Des:9 http://co.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Des:10 http://co.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1.052 kB]
Des:11 http://co.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [265 kB]
Des:12 http://co.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [367 kB]
Des:13 http://co.archive.ubuntu.com/ubuntu noble-updates/universe Icons (48x48) [225 kB]
Des:14 http://co.archive.ubuntu.com/ubuntu noble-updates/universe Icons (64x64) [347 kB]
Des:15 http://co.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Des:16 http://co.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7.064 B]
Des:17 http://co.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Des:18 http://co.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [15,8 kB]
Des:19 http://co.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Des:20 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Des:21 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [741 kB]
Des:22 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [142 kB]
Des:23 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8.956 B]
Des:24 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [859 kB]
```

```
Des:28 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [180 kB]
Des:29 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52,2 kB]
Des:30 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Descargados 8.082 kB en 2s (3.270 kB/s)
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se pueden actualizar 130 paquetes. Ejecute «apt list --upgradable» para verlos.
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
vsftpd ya está en su versión más reciente (3.0.5-0ubuntu3.1).
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 130 no actualizados.
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl start vsftpd
sudo systemctl enable vsftpd
Synchronizing state of vsftpd.service with SysV service script with /usr/lib/systemd/systemd-sysv-installer.
Executing: /usr/lib/systemd/systemd-sysv-install enable vsftpd
mchormaza@mchormaza-VirtualBox:~$ sudo systemctl status vsftpd
● vsftpd.service - vsftpd FTP server
   Loaded: loaded (/usr/lib/systemd/system/vsftpd.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-04-10 22:47:25 -05; 30min ago
     Main PID: 6541 (vsftpd)
       Tasks: 1 (limit: 5775)
      Memory: 764.0K (peak: 1.5M)
         CPU: 12ms
```



```
Memory: 764.0K (peak: 1.5M)
CPU: 12ms
CGroup: /system.slice/vsftpd.service
└─6541 /usr/sbin/vsftpd /etc/vsftpd.conf

abr 10 22:47:25 mchormaza-VirtualBox systemd[1]: Starting vsftpd.service - vsftpd
abr 10 22:47:25 mchormaza-VirtualBox systemd[1]: Started vsftpd.service - vsftpd
...skipping...
● vsftpd.service - vsftpd FTP server
   Loaded: loaded (/usr/lib/systemd/system/vsftpd.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-04-10 22:47:25 -05; 30min ago
 Main PID: 6541 (vsftpd)
    Tasks: 1 (limit: 5775)
   Memory: 764.0K (peak: 1.5M)
      CPU: 12ms
   CGroup: /system.slice/vsftpd.service
           └─6541 /usr/sbin/vsftpd /etc/vsftpd.conf
```

Capturando desde...

Wireshark · Seg...

Wireshark · Seg...

Wireshark · Seg...

220 (vsFTPD 3.0.5)

OPTS UTF8 ON

200 Always in UTF8 mode.

USER mchormaza

331 Please specify the password.

PASS Exit025.

230 Login successful.

PORT 10,0,2,15,196,113

500 Illegal PORT command.

NLST

425 Use PORT or PASV first.

421 Timeout.

No.

3439

3440

3441

3442

3443

3444

3445

3458

3459

3460

3461

5 client pkt(s), 7

Conversación