UNIVERSIDAD MARIANO GALVEZ DE GUATEMALA
FACULTAD DE INGENIERIA EN SISTEMAS
SISTEMAS OPERATIVOS II
ING. EDY RAMIREZ

Universidad
Mariano
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Guatemala

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Fase 1 y 2 del proyecto

Guatemala, 12/04/2025

```
* 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 0 actualizaciones de forma inmediata.

Active ESM Apps para recibir futuras actualizaciones de seguridad adicionales.
Vea https://ubuntu.com/esm o ejecute «sudo pro status»


The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Sat Apr 12 11:41:37 2025 from 192.168.171.181
pablo@maquina2:~$ ls
414          Documentos  Imágenes  Plantillas  sent   Vídeos
Descargas  Escritorio  Música     Público     snap
pablo@maquina2:~$ cd Escritorio/
pablo@maquina2:~/Escritorio$ ls
33.txt  414  archivo1049.txt  pablo.txt  prueba2
pablo@maquina2:~/Escritorio$ echo "archivo de prueba" | mutt -s "Silvia y Pablo"
 -a "/home/pablo/Escritorio/archivo1049.txt" -- eramirezc30@miumg.edu.gt
pablo@maquina2:~/Escritorio$
```

pablo@maquina2: ~/Escritorio   — □ ×

```
by others.

** (process:3464): WARNING **: 11:44:26.110: `gateway4` has been deprecated, use
 default routes instead.
See the 'Default routes' section of the documentation for more details.
pablo@maquina2:~$ sudo systemctl restart isc-dhcp-server
pablo@maquina2:~$ ssh pablo^C
pablo@maquina2:~$ ssh pablo@192.168.171.64
The authenticity of host '192.168.171.64 (192.168.171.64)' can't be established.
ED25519 key fingerprint is SHA256:XTjhutBnWLflHascw0xyr7IinpOio2m8CX7qRzGOnHg.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:5: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.171.64' (ED25519) to the list of known hosts
.
pablo@192.168.171.64's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.11.0-21-generic x86_64)

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```
Se pueden aplicar 47 actualizaciones de forma inmediata.
29 de estas son actualizaciones de seguridad estándares.
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: Fri Apr 11 21:49:02 2025 from 192.168.0.105
pablo@maquina2:~$ sudo nano /etc/netplan/00-server-config.yaml
[sudo] contraseña para pablo:
pablo@maquina2:~$ sudo nano /etc/netplan/00-installer-config.yaml
pablo@maquina2:~$ sudo netplan apply

** (generate:3344): WARNING **: 11:47:27.126: Permissions for /etc/netplan/00-in
staller-config.yaml are too open. Netplan configuration should NOT be accessible
 by others.

** (generate:3344): WARNING **: 11:47:27.126: `gateway4` has been deprecated, us
e default routes instead.
See the 'Default routes' section of the documentation for more details.

** (process:3342): WARNING **: 11:47:28.466: Permissions for /etc/netplan/00-ins
taller-config.yaml are too open. Netplan configuration should NOT be accessible
```

```
See the 'Default routes' section of the documentation for more details.

** (process:3342): WARNING **: 11:47:28.798: Permissions for /etc/netplan/00-ins
taller-config.yaml are too open. Netplan configuration should NOT be accessible
by others.

** (process:3342): WARNING **: 11:47:28.798: `gateway4` has been deprecated, use
 default routes instead.
See the 'Default routes' section of the documentation for more details.
pablo@maquina2:~$ sudo systemctl restart isc-dhcp-server
pablo@maquina2:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t 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 noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:04:98:b3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.100/24 brd 192.168.1.255 scope global noprefixroute enp0s3
       valid_lft forever preferred_lft forever
    inet 192.168.1.101/24 brd 192.168.1.255 scope global secondary dynamic nopre
```

```
fixroute enp0s3
       valid_lft 3567sec preferred_lft 3567sec
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:98:2c:4d brd ff:ff:ff:ff:ff:ff
    inet 192.168.171.64/24 brd 192.168.171.255 scope global dynamic noprefixrout
e enp0s8
       valid_lft 3562sec preferred_lft 3562sec
pablo@maquina2:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.1.100  netmask 255.255.255.0  broadcast 192.168.1.255
        ether 08:00:27:04:98:b3  txqueuelen 1000  (Ethernet)
        RX packets 407  bytes 31675 (31.6 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 429  bytes 36709 (36.7 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.171.64  netmask 255.255.255.0  broadcast 192.168.171.255
        ether 08:00:27:98:2c:4d  txqueuelen 1000  (Ethernet)
        RX packets 3892  bytes 724235 (724.2 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 3165  bytes 339560 (339.5 KB)
```

```
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Bucle local)
        RX packets 459  bytes 42333 (42.3 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 459  bytes 42333 (42.3 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

pablo@maquina2:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t 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 noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
```

```
oup default qlen 1000
    link/ether 08:00:27:04:98:b3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.100/24 brd 192.168.1.255 scope global noprefixroute enp0s3
       valid_lft forever preferred_lft forever
    inet 192.168.1.101/24 brd 192.168.1.255 scope global secondary dynamic nopre
fixroute enp0s3
       valid_lft 3524sec preferred_lft 3524sec
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:98:2c:4d brd ff:ff:ff:ff:ff:ff
    inet 192.168.171.64/24 brd 192.168.171.255 scope global dynamic noprefixrout
e enp0s8
       valid_lft 3519sec preferred_lft 3519sec
pablo@maquina2:~$ exit
cerrar sesión
Connection to 192.168.171.64 closed.
pablo@maquina2:~$ sudo nano /etc/dhcp/dhcpd.config
pablo@maquina2:~$ sudo nano /etc/dhcp/dhcpd.conf
pablo@maquina2:~$ sudo netplan apply

** (generate:4409): WARNING **: 11:50:44.899: Permissions for /etc/netplan/00-in
staller-config.yaml are too open. Netplan configuration should NOT be accessible
```

```
** (generate:4409): WARNING **: 11:50:44.901: `gateway4` has been deprecated, us
e default routes instead.
See the 'Default routes' section of the documentation for more details.

** (process:4384): WARNING **: 11:50:47.015: Permissions for /etc/netplan/00-ins
taller-config.yaml are too open. Netplan configuration should NOT be accessible
by others.

** (process:4384): WARNING **: 11:50:47.018: `gateway4` has been deprecated, use
 default routes instead.
See the 'Default routes' section of the documentation for more details.

** (process:4384): WARNING **: 11:50:47.452: Permissions for /etc/netplan/00-ins
taller-config.yaml are too open. Netplan configuration should NOT be accessible
by others.

** (process:4384): WARNING **: 11:50:47.453: `gateway4` has been deprecated, use
 default routes instead.
See the 'Default routes' section of the documentation for more details.
pablo@maquina2:~$ sudo systemctl restart isc-dhcp-server
pablo@maquina2:~$ ssh pablo@192.168.171.64
pablo@192.168.171.64's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.11.0-21-generic x86_64)
```

```
 * Documentation:  https://help.ubuntu.com
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 * Support:         https://ubuntu.com/pro

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Vea https://ubuntu.com/esm o ejecute «sudo pro status»

Last login: Sat Apr 12 11:46:08 2025 from 192.168.171.27
pablo@maquina2:~$ sudo nano /etc/netplan/00-installer-config.yaml
[sudo] contraseña para pablo:
pablo@maquina2:~$ sudo netplan apply

** (generate:3843): WARNING **: 11:53:01.200: Permissions for /etc/netplan/00-in
staller-config.yaml are too open. Netplan configuration should NOT be accessible
 by others.
```

```
** (process:3841): WARNING **: 11:53:03.156: `gateway4` has been deprecated, use
 default routes instead.
See the 'Default routes' section of the documentation for more details.
pablo@maquina2:~$ sudo systemctl restart isc-dhcp-server
pablo@maquina2:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t 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 noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:04:98:b3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.100/24 brd 192.168.1.255 scope global noprefixroute enp0s3
       valid_lft forever preferred_lft forever
    inet 192.168.1.200/24 brd 192.168.1.255 scope global secondary dynamic nopre
```

```
fixroute enp0s3
        valid_lft 3577sec preferred_lft 3577sec
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:98:2c:4d brd ff:ff:ff:ff:ff:ff
    inet 192.168.171.64/24 brd 192.168.171.255 scope global dynamic noprefixrout
e enp0s8
        valid_lft 3574sec preferred_lft 3574sec
pablo@maquina2:~$ ls
33.txt       Documentos  Escritorio  Música      Plantillas  sent  Vídeos
Descargas  ejemplo      Imágenes     pablo.txt  Público     snap
pablo@maquina2:~$ cd Escritorio/
pablo@maquina2:~/Escritorio$ nano archivo1049.txt
pablo@maquina2:~/Escritorio$ nano archivo1049.txt
pablo@maquina2:~/Escritorio$ ftp 192.168.171.24
ftp: Can't connect to `192.168.171.24:21': No existe ninguna ruta hasta el «host
»
ftp: Can't connect to `192.168.171.24:ftp'
ftp>
ftp> bye
pablo@maquina2:~/Escritorio$
```

```
pablo@maquina2:~/Escritorio$ ftp 192.168.171.27
Connected to 192.168.171.27.
220 (vsFTPd 3.0.5)
Name (192.168.171.27:pablo): pablo
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||40085|)
150 Here comes the directory listing.
drwxrwxr-x    2 1000      1000          4096 Mar 29 16:20 414
drwxr-xr-x    2 1000      1000          4096 Feb 06 23:19 Descargas
drwxr-xr-x    2 1000      1000          4096 Feb 06 23:19 Documentos
drwxr-xr-x    4 1000      1000          4096 Mar 29 16:20 Escritorio
drwxr-xr-x    2 1000      1000          4096 Feb 06 23:19 Imágenes
drwxr-xr-x    2 1000      1000          4096 Feb 06 23:19 Música
drwxr-xr-x    2 1000      1000          4096 Feb 06 23:19 Plantillas
drwxr-xr-x    2 1000      1000          4096 Feb 06 23:19 Público
drwxr-xr-x    2 1000      1000          4096 Feb 06 23:19 Vídeos
-rw-------    1 1000      1000          2599 Mar 28 22:27 sent
```

```
drwx------     5 1000     1000          4096 Mar 18 00:00 snap
226 Directory send OK.
ftp> cd Escritorio
250 Directory successfully changed.
ftp> put archivo1049.txt
local: archivo1049.txt remote: archivo1049.txt
229 Entering Extended Passive Mode (||||40096|)
150 Ok to send data.
100% |*********************************|    30         39.69 KiB/s    00:00 ETA
226 Transfer complete.
30 bytes sent in 00:00 (7.86 KiB/s)
ftp> bye
221 Goodbye.
pablo@maquina2:~/Escritorio$ ssh pablo221 Goodbye.
^C
pablo@maquina2:~/Escritorio$ ssh pablo@192.168.171.27
The authenticity of host '192.168.171.27 (192.168.171.27)' can't be established.
ED25519 key fingerprint is SHA256:XTjhutBnWLflHascw0xyr7IinpOio2m8CX7qRzGOnHg.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:5: [hashed name]
    ~/.ssh/known_hosts:8: [hashed name]
```

```
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.171.27' (ED25519) to the list of known hosts
.
pablo@192.168.171.27's password:
Permission denied, please try again.
pablo@192.168.171.27's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.11.0-21-generic x86_64)

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Se pueden aplicar 0 actualizaciones de forma inmediata.

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The list of available updates is more than a week old.
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Last login: Sat Apr 12 11:41:37 2025 from 192.168.171.181
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414         Documentos  Imágenes  Plantillas  sent  Vídeos
Descargas   Escritorio  Música    Público     snap
pablo@maquina2:~$ cd Escritorio/
pablo@maquina2:~/Escritorio$ ls
33.txt  414  archivo1049.txt  pablo.txt  prueba2
pablo@maquina2:~/Escritorio$ echo "archivo de prueba" | mutt -s "Silvia y Pablo"
 -a "/home/pablo/Escritorio/archivo1049.txt" -- eramirezc30@miumg.edu.gt
pablo@maquina2:~/Escritorio$
```