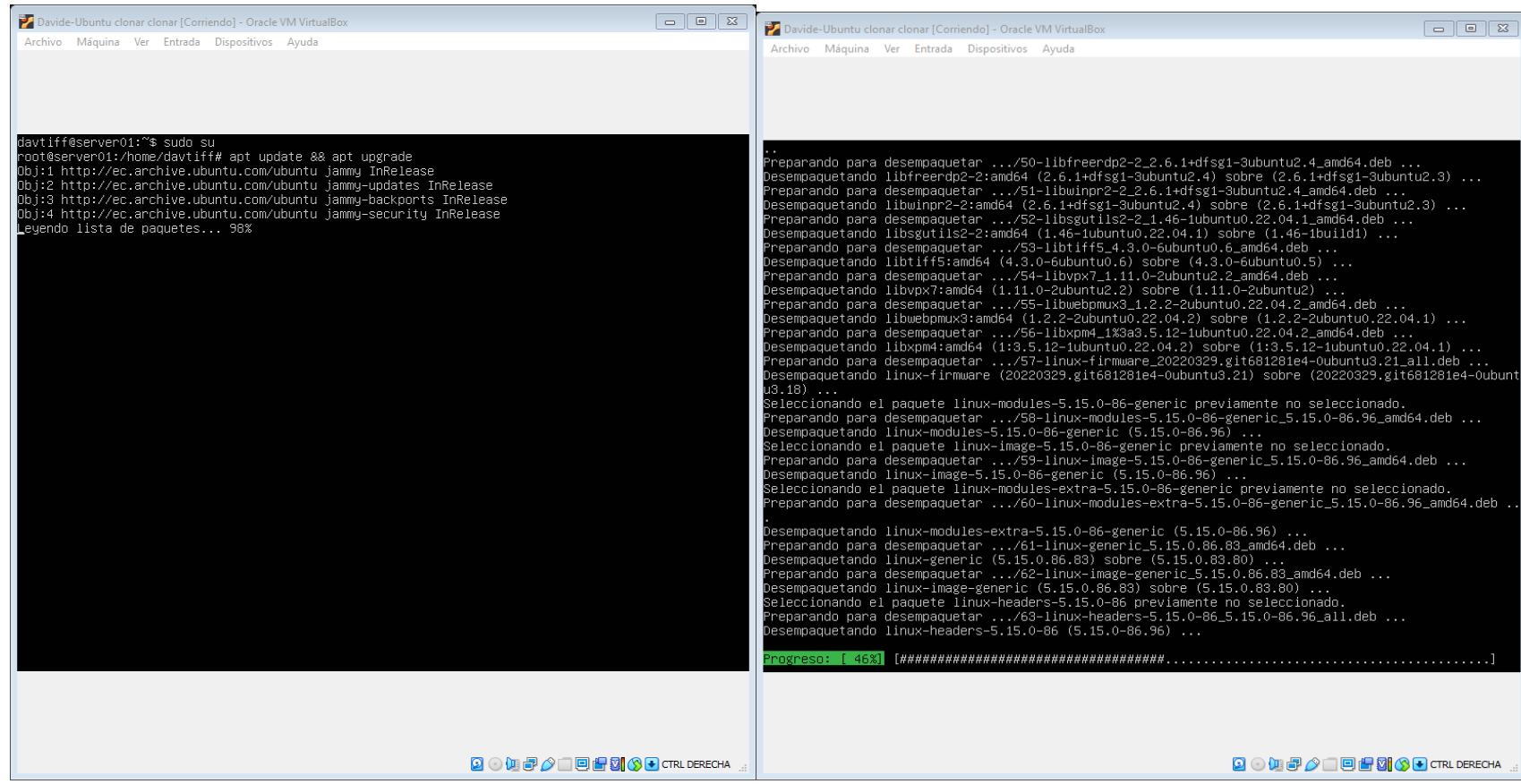


Nombre: Tiffany Jordán Uquillas

## Taller #12: Nginx con PHP y MySQL (LEMP Stack)



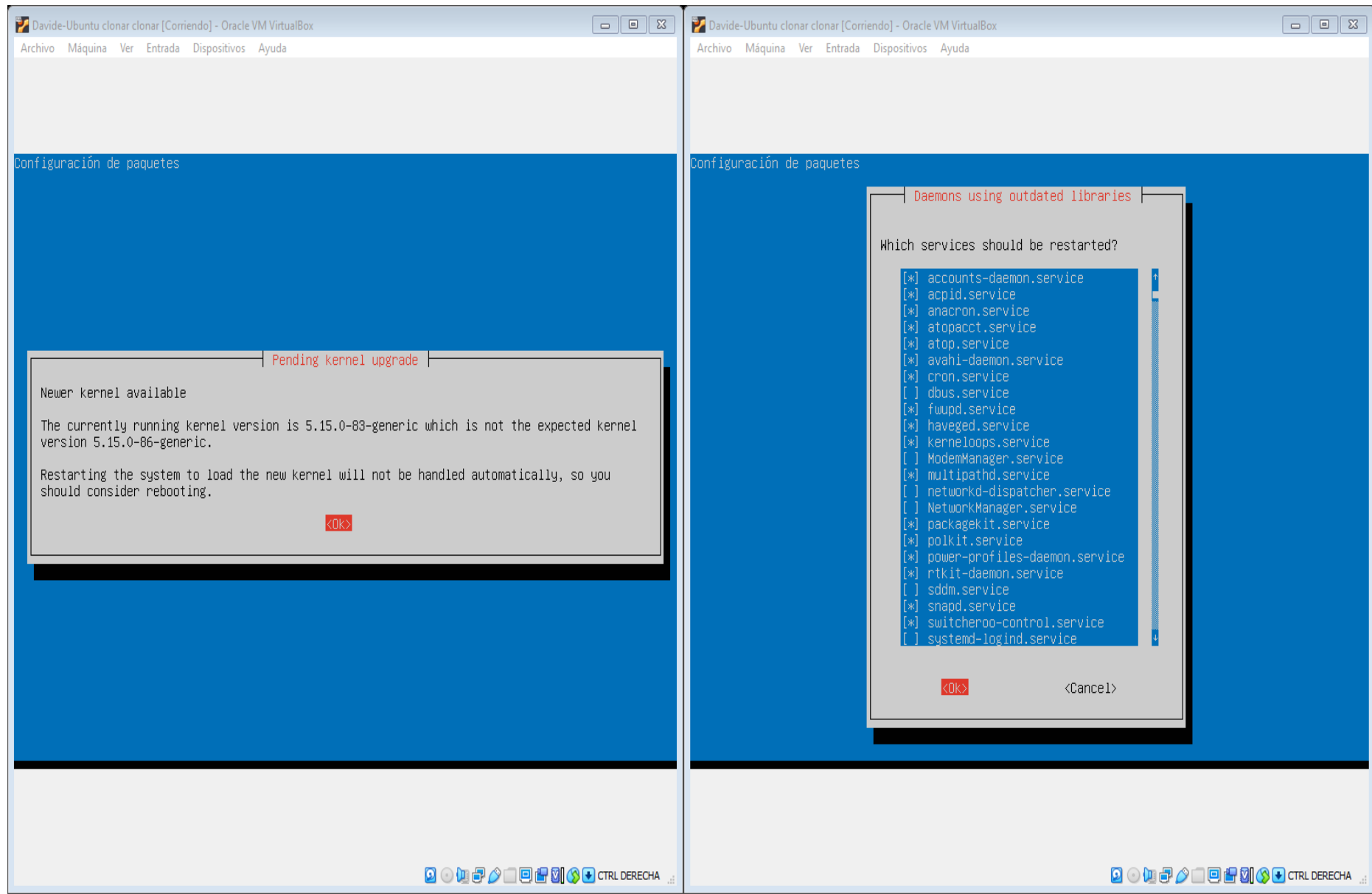
```
Davide-Ubuntu clonar clonar [Corriendo] - Oracle VM VirtualBox
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davtiff@server01:~$ sudo su
root@server01:/home/davtiff# apt update && apt upgrade
Obj:1 http://ec.archive.ubuntu.com/ubuntu jammy InRelease
Obj:2 http://ec.archive.ubuntu.com/ubuntu jammy-updates InRelease
Obj:3 http://ec.archive.ubuntu.com/ubuntu jammy-backports InRelease
Obj:4 http://ec.archive.ubuntu.com/ubuntu jammy-security InRelease
Leyendo lista de paquetes... 98%

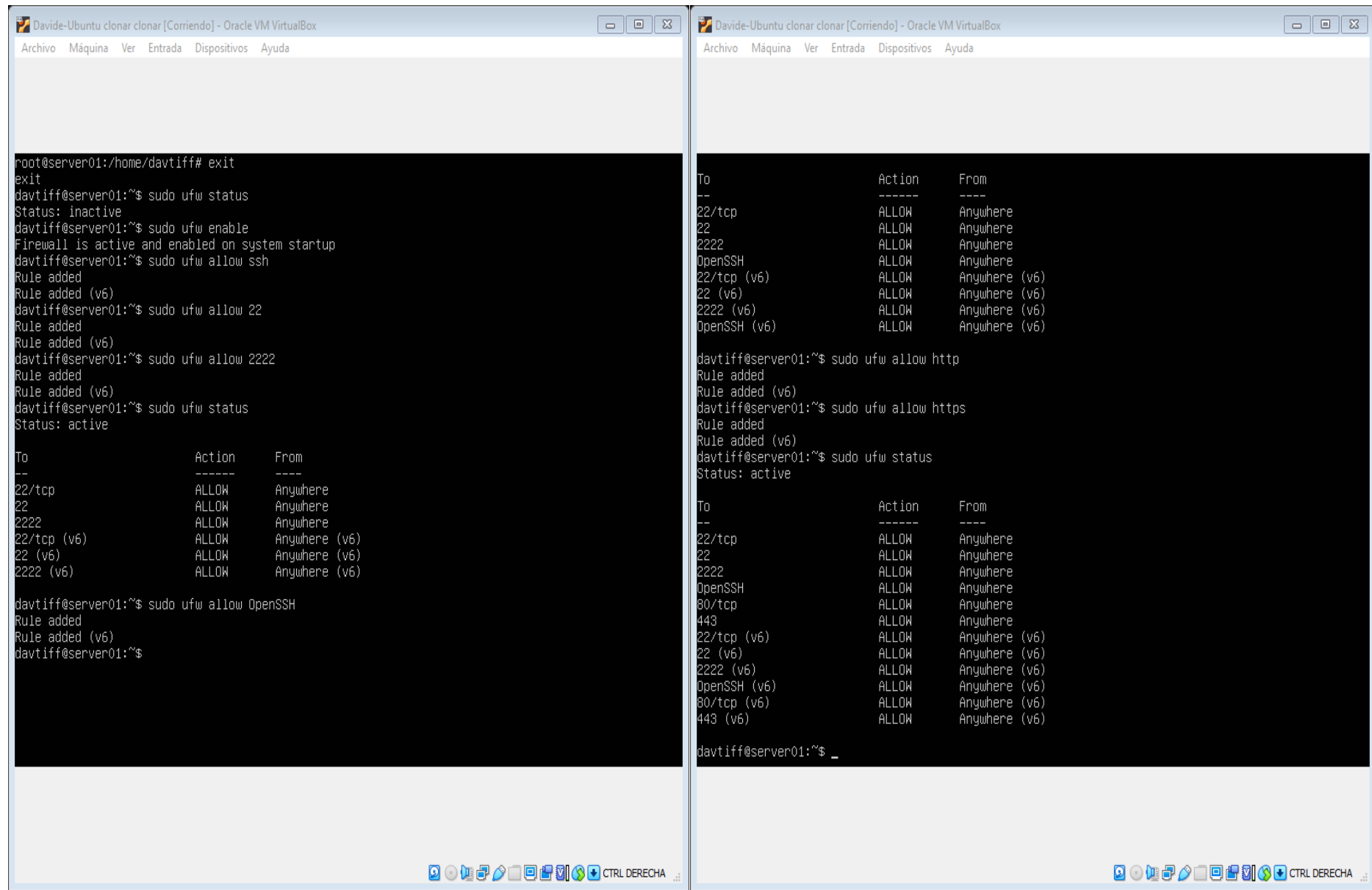
..
Preparando para desempaquetar .../50-l1bfreerdp2-2.2.6.1+dfsg1-3ubuntu2.4_amd64.deb ...
Desempaquetando l1bfreerdp2-2:amd64 (2.6.1+dfsg1-3ubuntu2.4) sobre (2.6.1+dfsg1-3ubuntu2.3) ...
Preparando para desempaquetar .../51-l1bulnpr2-2.2.6.1+dfsg1-3ubuntu2.4_amd64.deb ...
Desempaquetando l1bulnpr2-2:amd64 (2.6.1+dfsg1-3ubuntu2.4) sobre (2.6.1+dfsg1-3ubuntu2.3) ...
Preparando para desempaquetar .../52-l1bsgutil1s2-2.1.46-1ubuntu0.22.04.1_amd64.deb ...
Desempaquetando l1bsgutil1s2-2:amd64 (1.46-1ubuntu0.22.04.1) sobre (1.46-1bulldi) ...
Preparando para desempaquetar .../53-l1btiff5_4.3.0-6ubuntu0.6_amd64.deb ...
Desempaquetando l1btiff5:amd64 (4.3.0-6ubuntu0.6) sobre (4.3.0-6ubuntu0.5) ...
Preparando para desempaquetar .../54-l1bvp7_1.11.0-2ubuntu2.2_amd64.deb ...
Desempaquetando l1bvp7:amd64 (1.11.0-2ubuntu2.2) sobre (1.11.0-2ubuntu2) ...
Preparando para desempaquetar .../55-l1bwebpmux3_1.2.2-2ubuntu0.22.04.2_amd64.deb ...
Desempaquetando l1bwebpmux3:amd64 (1.2.2-2ubuntu0.22.04.2) sobre (1.2.2-2ubuntu0.22.04.1) ...
Preparando para desempaquetar .../56-l1bxpm4_1.3.5.12-1ubuntu0.22.04.2_amd64.deb ...
Desempaquetando l1bxpm4:amd64 (1:3.5.12-1ubuntu0.22.04.2) sobre (1:3.5.12-1ubuntu0.22.04.1) ...
Preparando para desempaquetar .../57-linux-firmware_20220329.git681281e4-0ubuntu3.21_all.deb ...
Desempaquetando linux-firmware (20220329.git681281e4-0ubuntu3.21) sobre (20220329.git681281e4-0ubunt
03.18) ...
Seleccionando el paquete linux-modules-5.15.0-86-generic previamente no seleccionado.
Preparando para desempaquetar .../58-linux-modules-5.15.0-86-generic_5.15.0-86.96_amd64.deb ...
Desempaquetando linux-modules-5.15.0-86-generic (5.15.0-86.96) ...
Seleccionando el paquete linux-image-5.15.0-86-generic previamente no seleccionado.
Preparando para desempaquetar .../59-linux-image-5.15.0-86-generic_5.15.0-86.96_amd64.deb ...
Desempaquetando linux-image-5.15.0-86-generic (5.15.0-86.96) ...
Seleccionando el paquete linux-modules-extra-5.15.0-86-generic previamente no seleccionado.
Preparando para desempaquetar .../60-linux-modules-extra-5.15.0-86-generic_5.15.0-86.96_amd64.deb ..
Desempaquetando linux-modules-extra-5.15.0-86-generic (5.15.0-86.96) ...
Preparando para desempaquetar .../61-linux-generic_5.15.0.86.83_amd64.deb ...
Desempaquetando linux-generic (5.15.0.86.83) sobre (5.15.0.83.80) ...
Preparando para desempaquetar .../62-linux-image-generic_5.15.0.86.83_amd64.deb ...
Desempaquetando linux-image-generic (5.15.0.86.83) sobre (5.15.0.83.80) ...
Seleccionando el paquete linux-headers-5.15.0-86 previamente no seleccionado.
Preparando para desempaquetar .../63-linux-headers-5.15.0-86_5.15.0-86.96_all.deb ...
Desempaquetando linux-headers-5.15.0-86 (5.15.0-86.96) ...

Progreso: [ 46%] [#####.....]
```

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**Nombre:** Tiffany Jordán Uquillas



The image displays two terminal windows from Oracle VM VirtualBox, both titled "Davide-Ubuntu clonar clonar [Corriendo] - Oracle VM VirtualBox". The left window shows the initial setup of the UFW firewall, while the right window shows the final configuration after adding additional rules for HTTP, HTTPS, and OpenSSH.

**Left Terminal Window:**

```
root@server01:/home/davtiff# exit
exit
davtiff@server01:~$ sudo ufw status
Status: inactive
davtiff@server01:~$ sudo ufw enable
Firewall is active and enabled on system startup
davtiff@server01:~$ sudo ufw allow ssh
Rule added
Rule added (v6)
davtiff@server01:~$ sudo ufw allow 22
Rule added
Rule added (v6)
davtiff@server01:~$ sudo ufw allow 2222
Rule added
Rule added (v6)
davtiff@server01:~$ sudo ufw status
Status: active
```

To	Action	From
22/tcp	ALLOW	Anywhere
22	ALLOW	Anywhere
2222	ALLOW	Anywhere
22/tcp (v6)	ALLOW	Anywhere (v6)
22 (v6)	ALLOW	Anywhere (v6)
2222 (v6)	ALLOW	Anywhere (v6)

```
davtiff@server01:~$ sudo ufw allow OpenSSH
Rule added
Rule added (v6)
davtiff@server01:~$
```

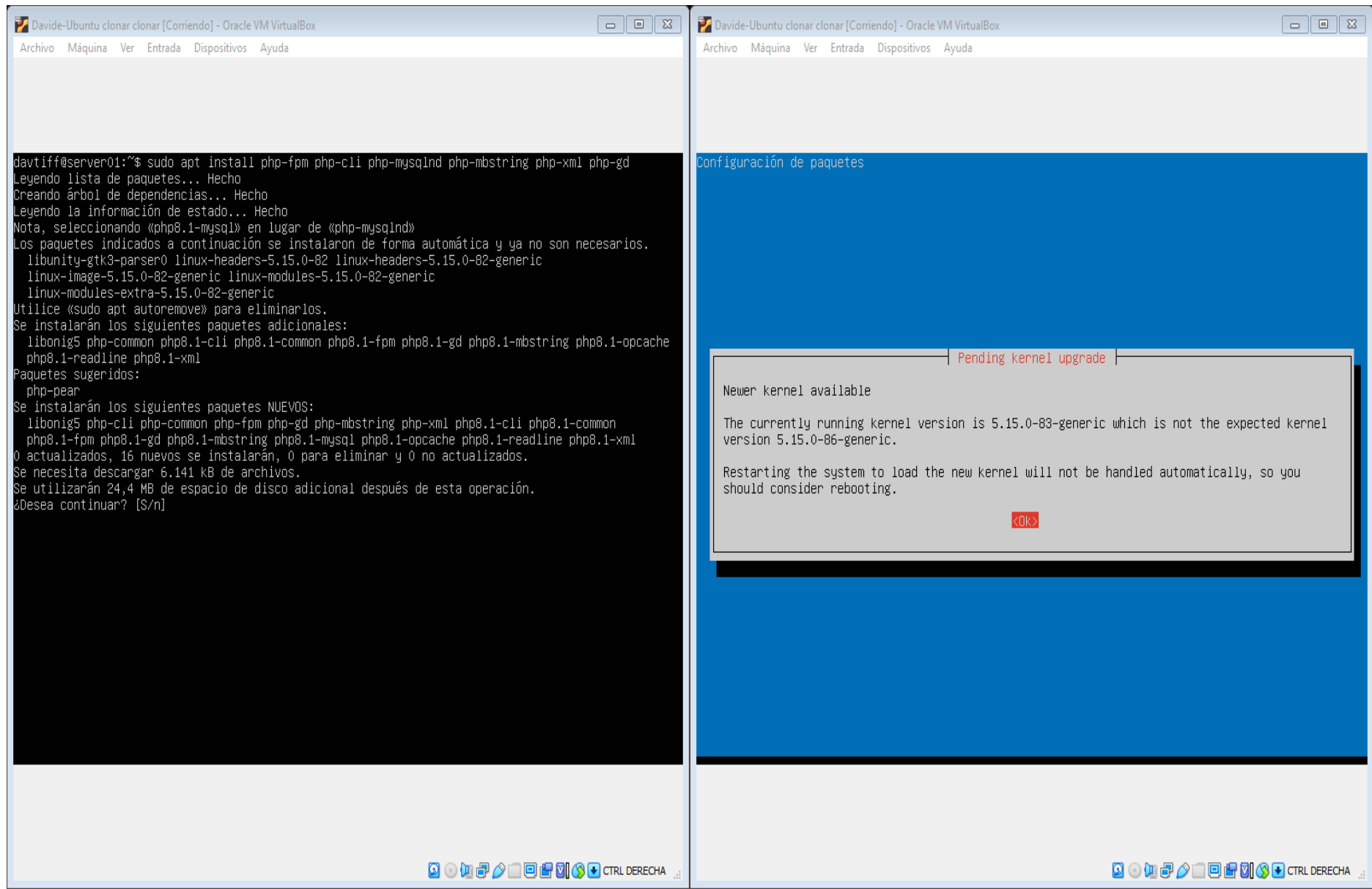
**Right Terminal Window:**

```
davtiff@server01:~$ sudo ufw allow http
Rule added
Rule added (v6)
davtiff@server01:~$ sudo ufw allow https
Rule added
Rule added (v6)
davtiff@server01:~$ sudo ufw status
Status: active
```

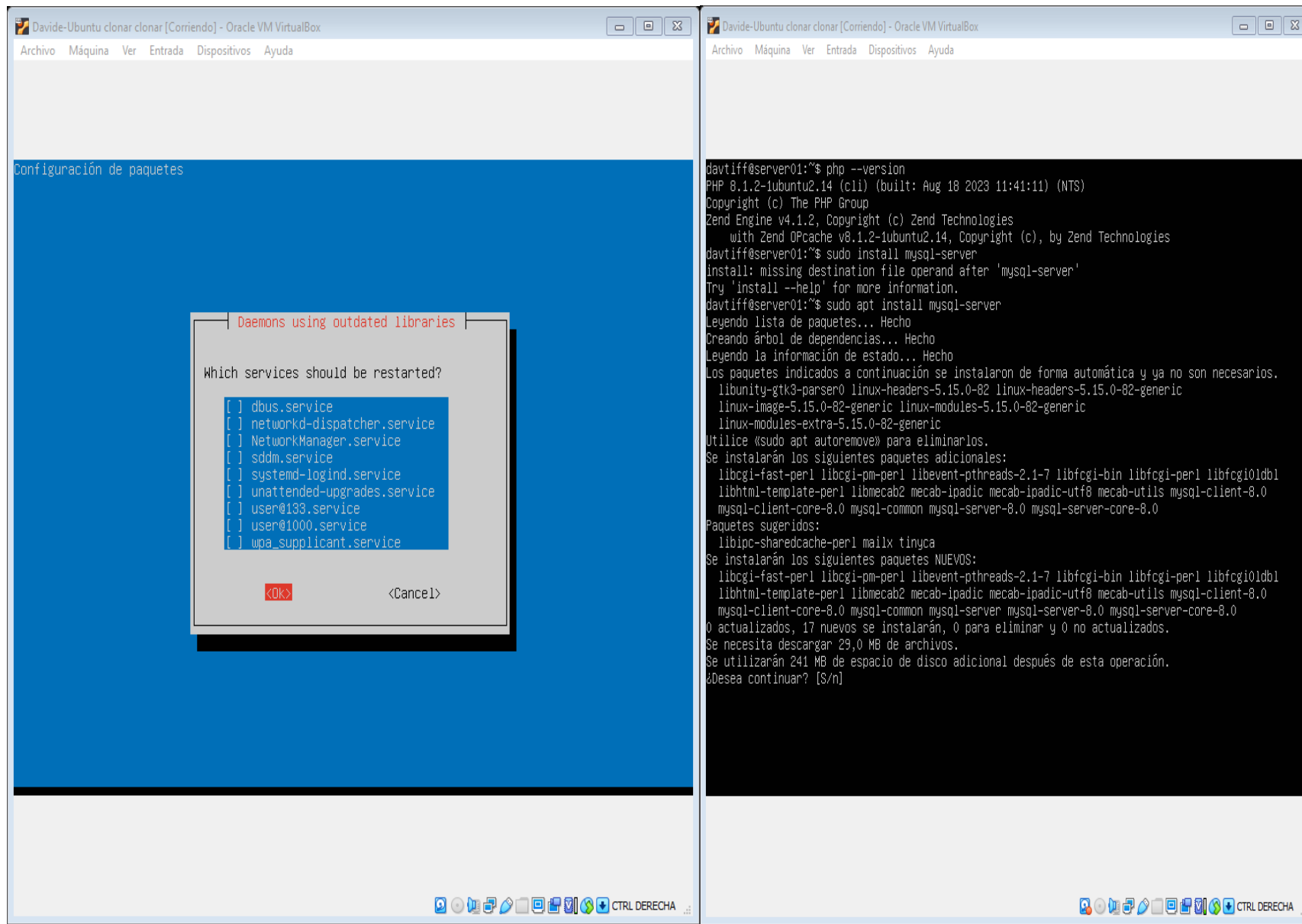
To	Action	From
22/tcp	ALLOW	Anywhere
22	ALLOW	Anywhere
2222	ALLOW	Anywhere
OpenSSH	ALLOW	Anywhere
80/tcp	ALLOW	Anywhere
443	ALLOW	Anywhere
22/tcp (v6)	ALLOW	Anywhere (v6)
22 (v6)	ALLOW	Anywhere (v6)
2222 (v6)	ALLOW	Anywhere (v6)
OpenSSH (v6)	ALLOW	Anywhere (v6)
80/tcp (v6)	ALLOW	Anywhere (v6)
443 (v6)	ALLOW	Anywhere (v6)

```
davtiff@server01:~$ _
```

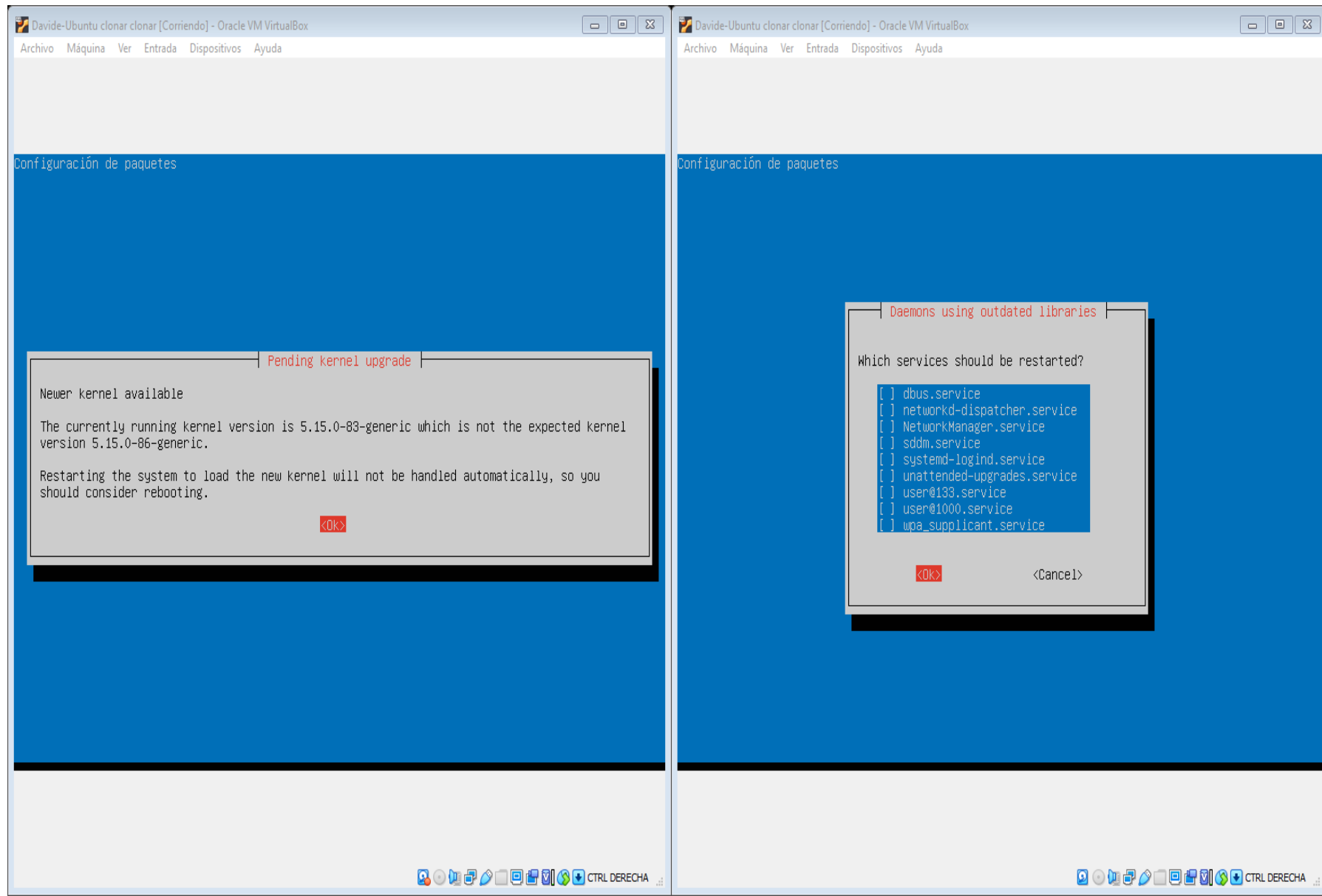
**Nombre:** Tiffany Jordán Uquillas



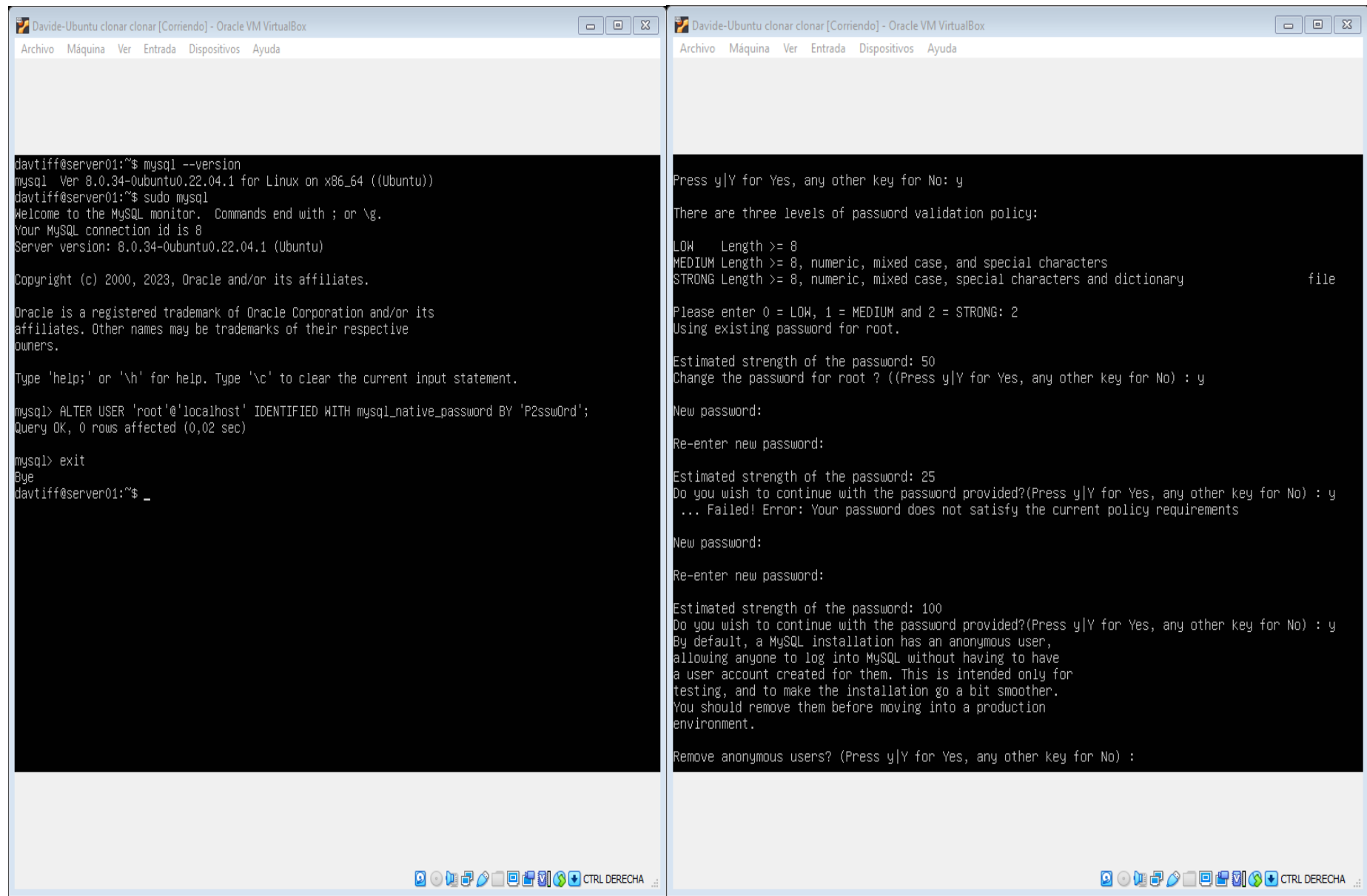
**Nombre:** Tiffany Jordán Uquillas



**Nombre:** Tiffany Jordán Uquillas



**Nombre:** Tiffany Jordán Uquillas



```
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davtiff@server01:~$ mysql --version
mysql Ver 8.0.34-0ubuntu0.22.04.1 for Linux on x86_64 ((Ubuntu))
davtiff@server01:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'P2ssw0rd';
Query OK, 0 rows affected (0,02 sec)

mysql> exit
Bye
davtiff@server01:~$ _
```

```
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Press y|Y for Yes, any other key for No: y

There are three levels of password validation policy:

LOW Length >= 8
MEDIUM Length >= 8, numeric, mixed case, and special characters
STRONG Length >= 8, numeric, mixed case, special characters and dictionary file

Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 2
Using existing password for root.

Estimated strength of the password: 50
Change the password for root ? ((Press y|Y for Yes, any other key for No) : y

New password:

Re-enter new password:

Estimated strength of the password: 25
Do you wish to continue with the password provided?(Press y|Y for Yes, any other key for No) : y
... Failed! Error: Your password does not satisfy the current policy requirements

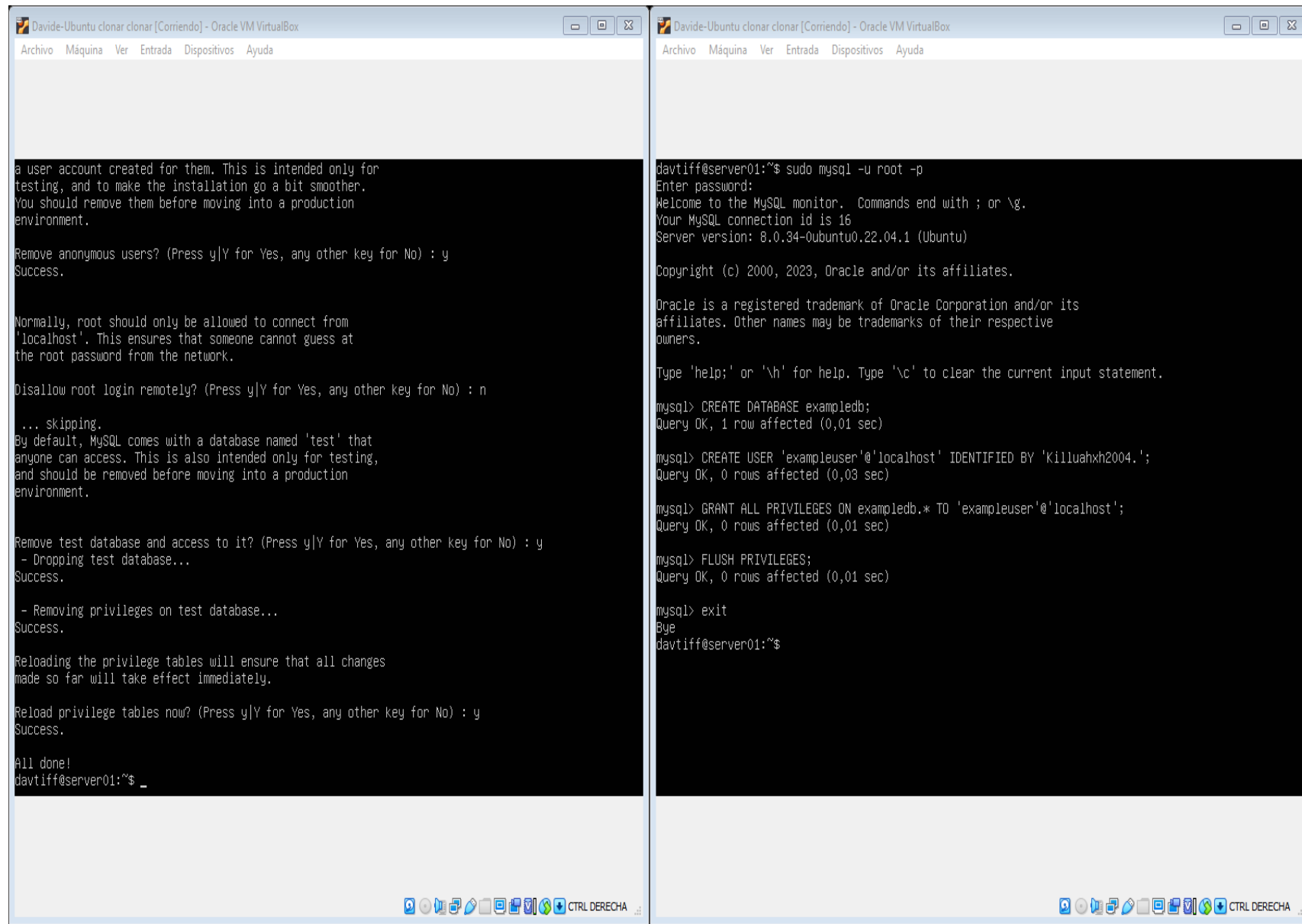
New password:

Re-enter new password:

Estimated strength of the password: 100
Do you wish to continue with the password provided?(Press y|Y for Yes, any other key for No) : y
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) :
```

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```

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a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
... skipping.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y
- Dropping test database...
Success.

- Removing privileges on test database...
Success.

Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!
davtiff@server01:~$ _

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davtiff@server01:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE exampledb;
Query OK, 1 row affected (0,01 sec)

mysql> CREATE USER 'exampleuser'@'localhost' IDENTIFIED BY 'Killuahxh2004.';
Query OK, 0 rows affected (0,03 sec)

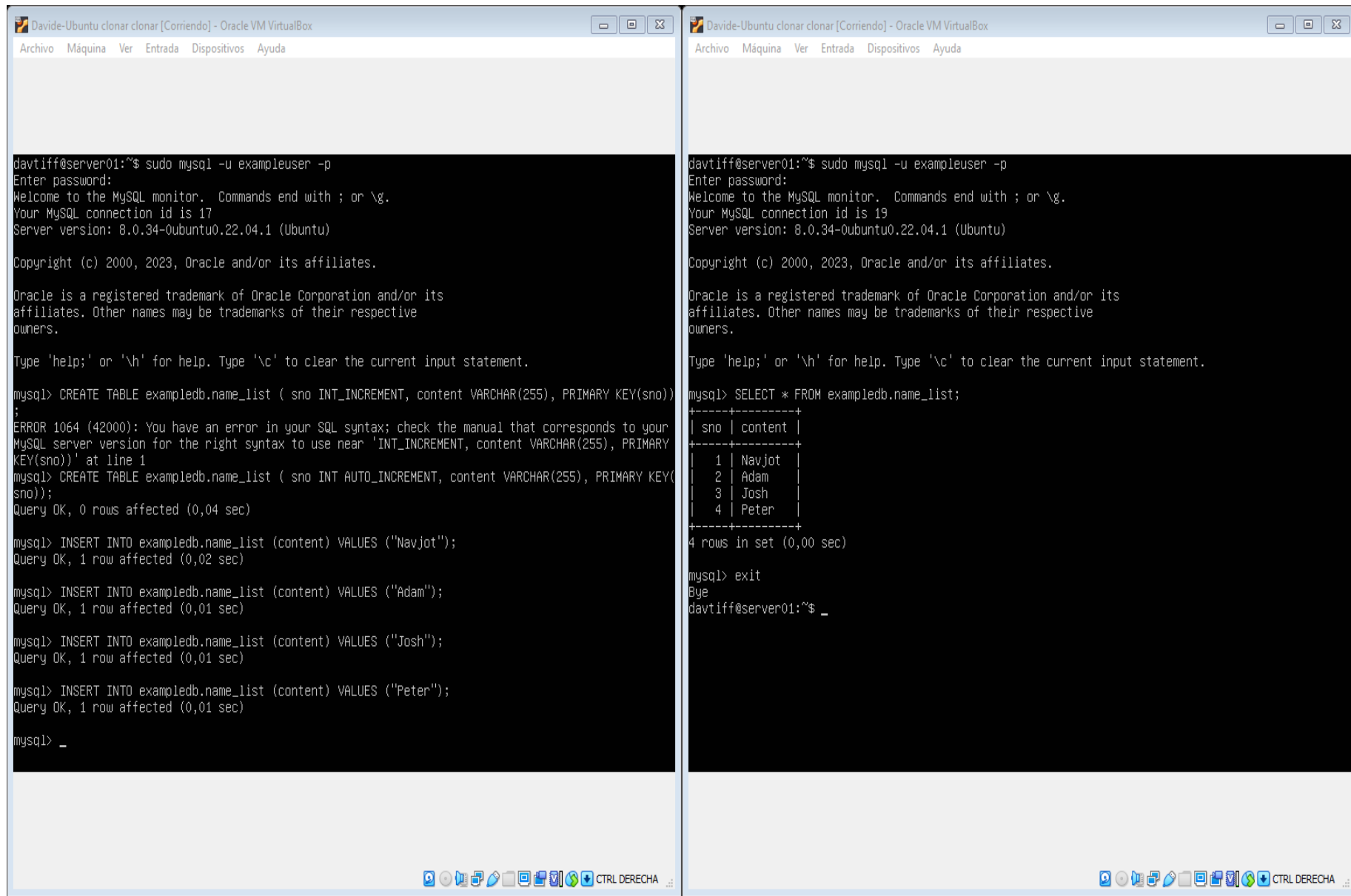
mysql> GRANT ALL PRIVILEGES ON exampledb.* TO 'exampleuser'@'localhost';
Query OK, 0 rows affected (0,01 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,01 sec)

mysql> exit
Bye
davtiff@server01:~$
```



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```
davtiff@server01:~$ sudo mysql -u exampleuser -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE TABLE exampledb.name_list ( sno INT_INCREMENT, content VARCHAR(255), PRIMARY KEY(sno))
;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MySQL server version for the right syntax to use near 'INT_INCREMENT, content VARCHAR(255), PRIMARY
KEY(sno))' at line 1
mysql> CREATE TABLE exampledb.name_list ( sno INT AUTO_INCREMENT, content VARCHAR(255), PRIMARY KEY(
sno));
Query OK, 0 rows affected (0,04 sec)

mysql> INSERT INTO exampledb.name_list (content) VALUES ("Navjot");
Query OK, 1 row affected (0,02 sec)

mysql> INSERT INTO exampledb.name_list (content) VALUES ("Adam");
Query OK, 1 row affected (0,01 sec)

mysql> INSERT INTO exampledb.name_list (content) VALUES ("Josh");
Query OK, 1 row affected (0,01 sec)

mysql> INSERT INTO exampledb.name_list (content) VALUES ("Peter");
Query OK, 1 row affected (0,01 sec)

mysql> _
```

```
davtiff@server01:~$ sudo mysql -u exampleuser -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 19
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

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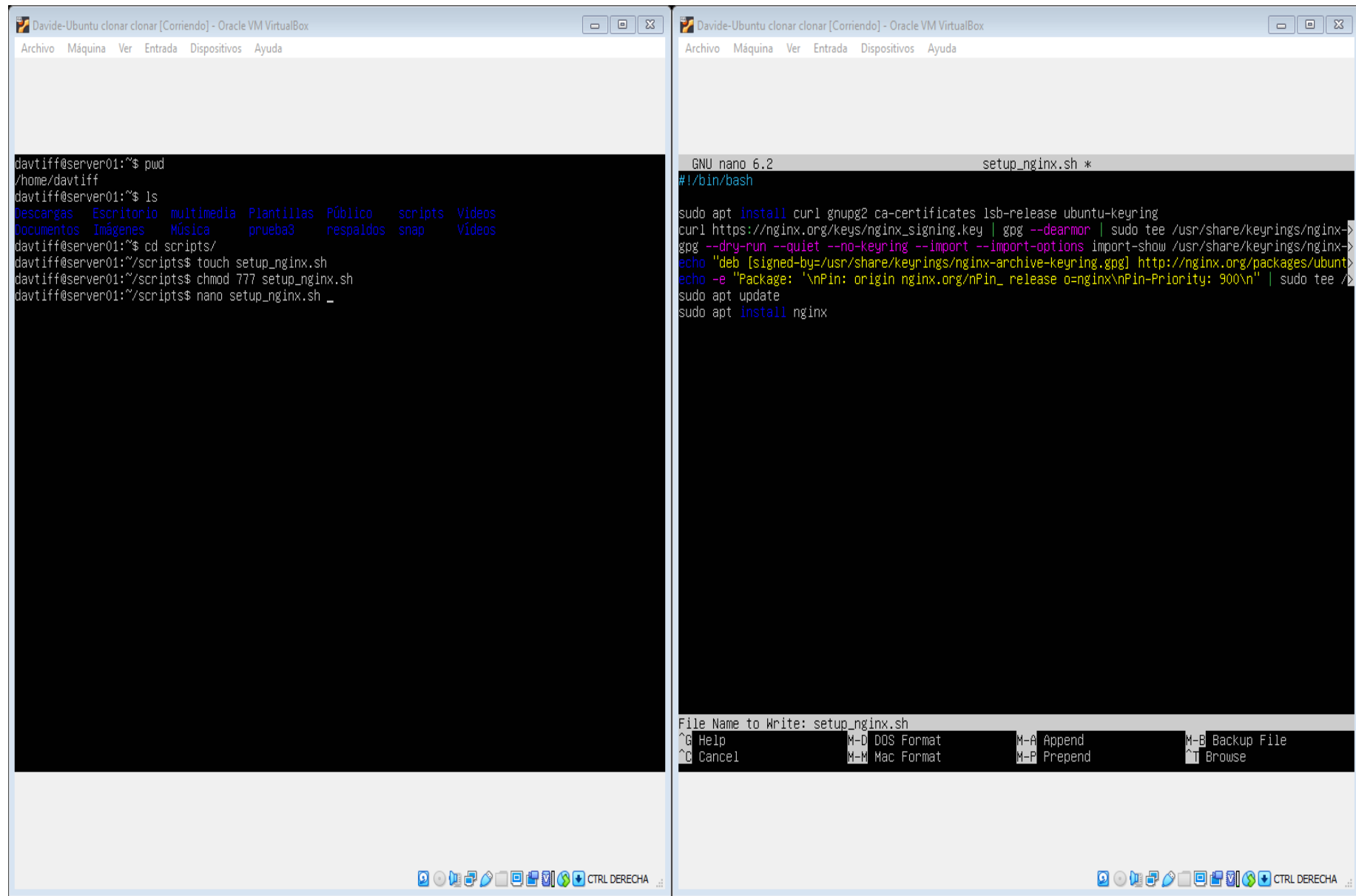
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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SELECT * FROM exampledb.name_list;
+-----+-----+
| sno | content |
+-----+-----+
| 1 | Navjot |
| 2 | Adam |
| 3 | Josh |
| 4 | Peter |
+-----+-----+
4 rows in set (0,00 sec)

mysql> exit
Bye
davtiff@server01:~$ _
```

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```

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davtiff@server01:~$ pwd
/home/davtiff
davtiff@server01:~$ ls
Descargas  Escritorio  multimedia  Plantillas  Público  scripts  Videos
Documentos  Imágenes  Música  prueba3  respaldos  snap  Videos
davtiff@server01:~$ cd scripts/
davtiff@server01:~/scripts$ touch setup_nginx.sh
davtiff@server01:~/scripts$ chmod 777 setup_nginx.sh
davtiff@server01:~/scripts$ nano setup_nginx.sh _

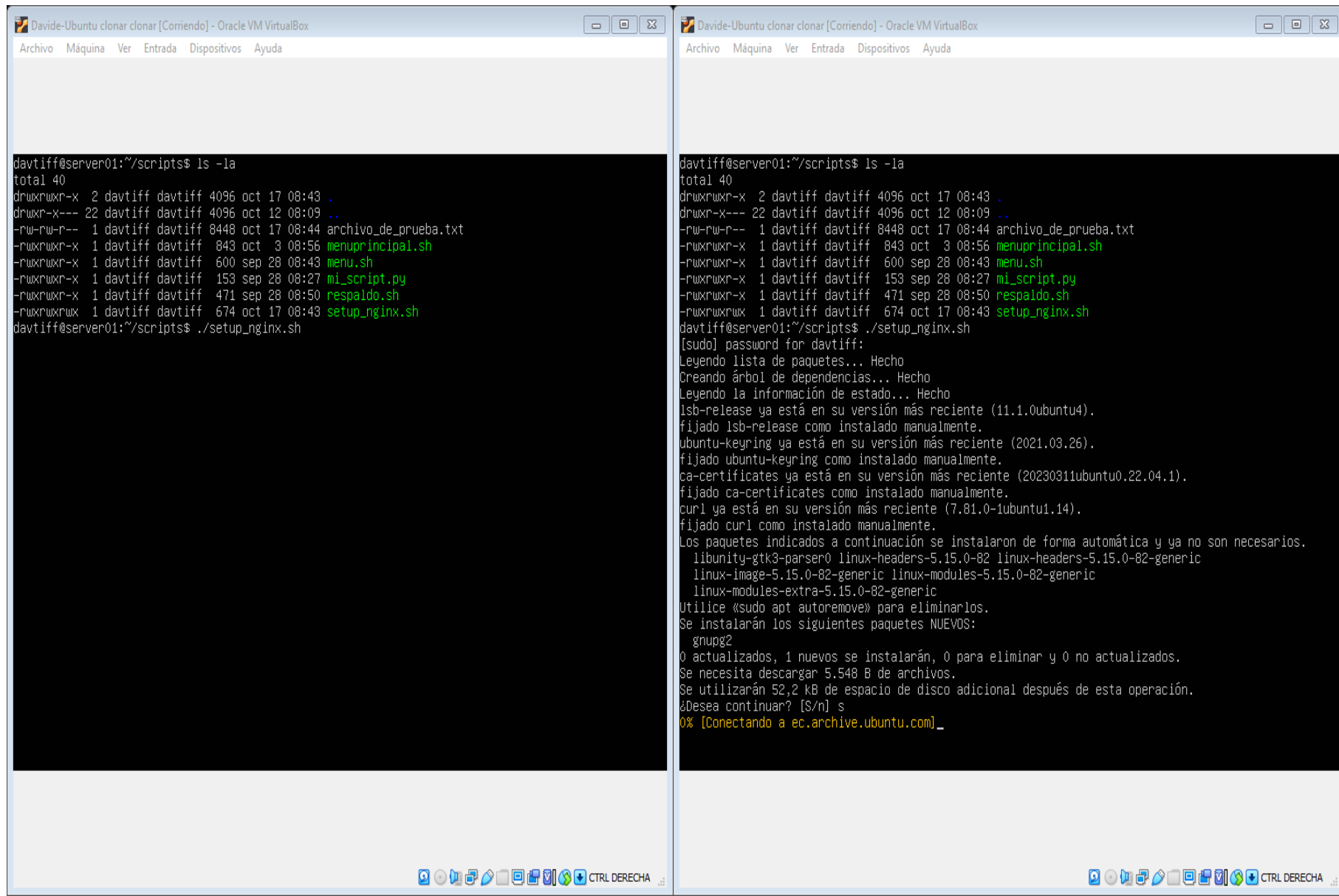
GNU nano 6.2                                setup_nginx.sh *
#!/bin/bash

sudo apt install curl gnupg2 ca-certificates lsb-release ubuntu-keyring
curl https://nginx.org/keys/nginx_signing.key | gpg --dearmor | sudo tee /usr/share/keyrings/nginx->
gpg --dry-run --quiet --no-keyring --import --import-options import-show /usr/share/keyrings/nginx->
echo "deb [signed-by=/usr/share/keyrings/nginx-archive-keyring.gpg] http://nginx.org/packages/ubuntu->
echo -e "Package: '\nPin: origin nginx.org\nPin_release o=nginx\nPin-Priority: 900\n" | sudo tee />
sudo apt update
sudo apt install nginx

File Name to Write: setup_nginx.sh
^G Help          M-D DOS Format   M-A Append      M-B Backup File
^C Cancel        M-W Mac Format   M-P Prepend     ^T Browse

```

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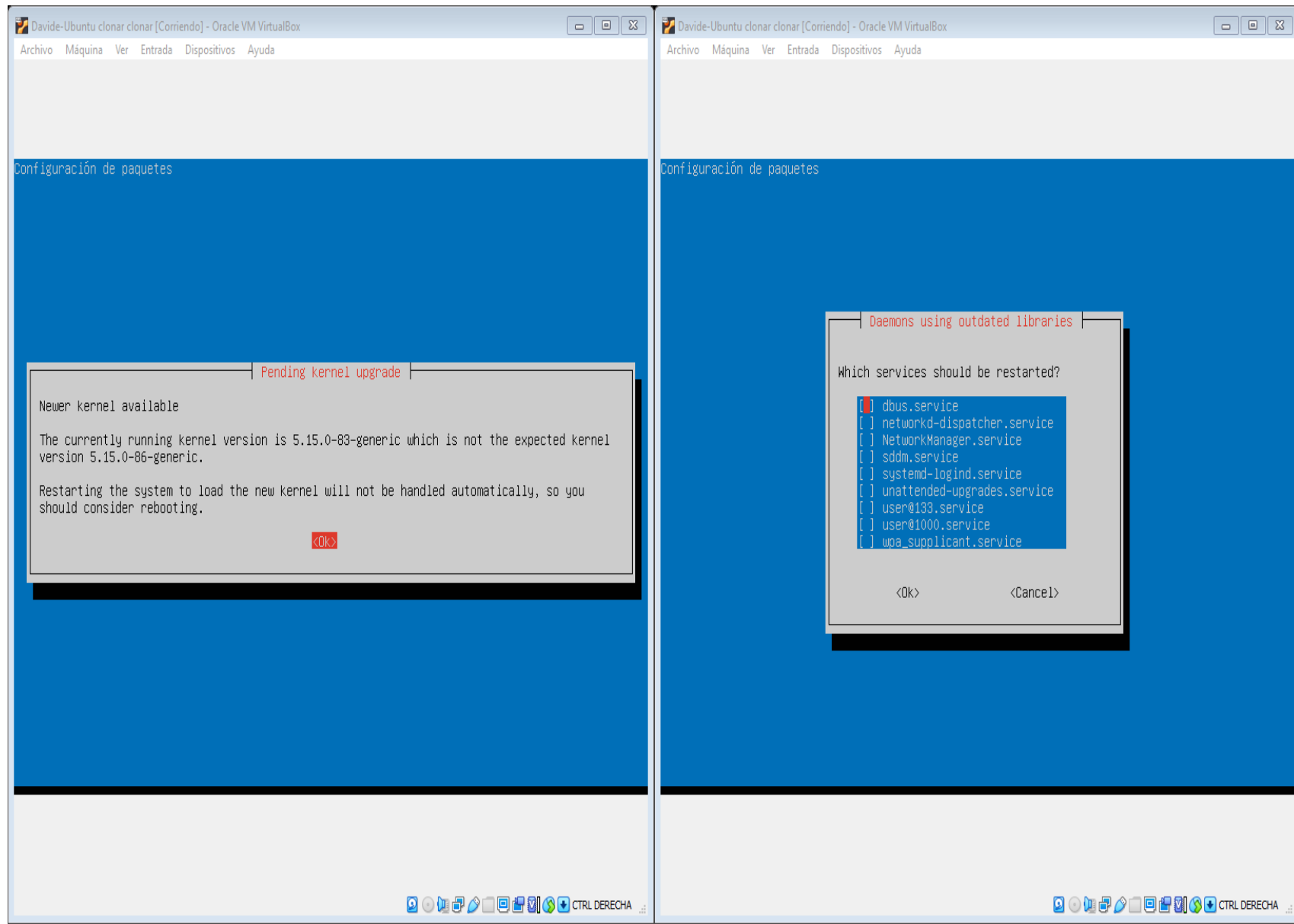


```
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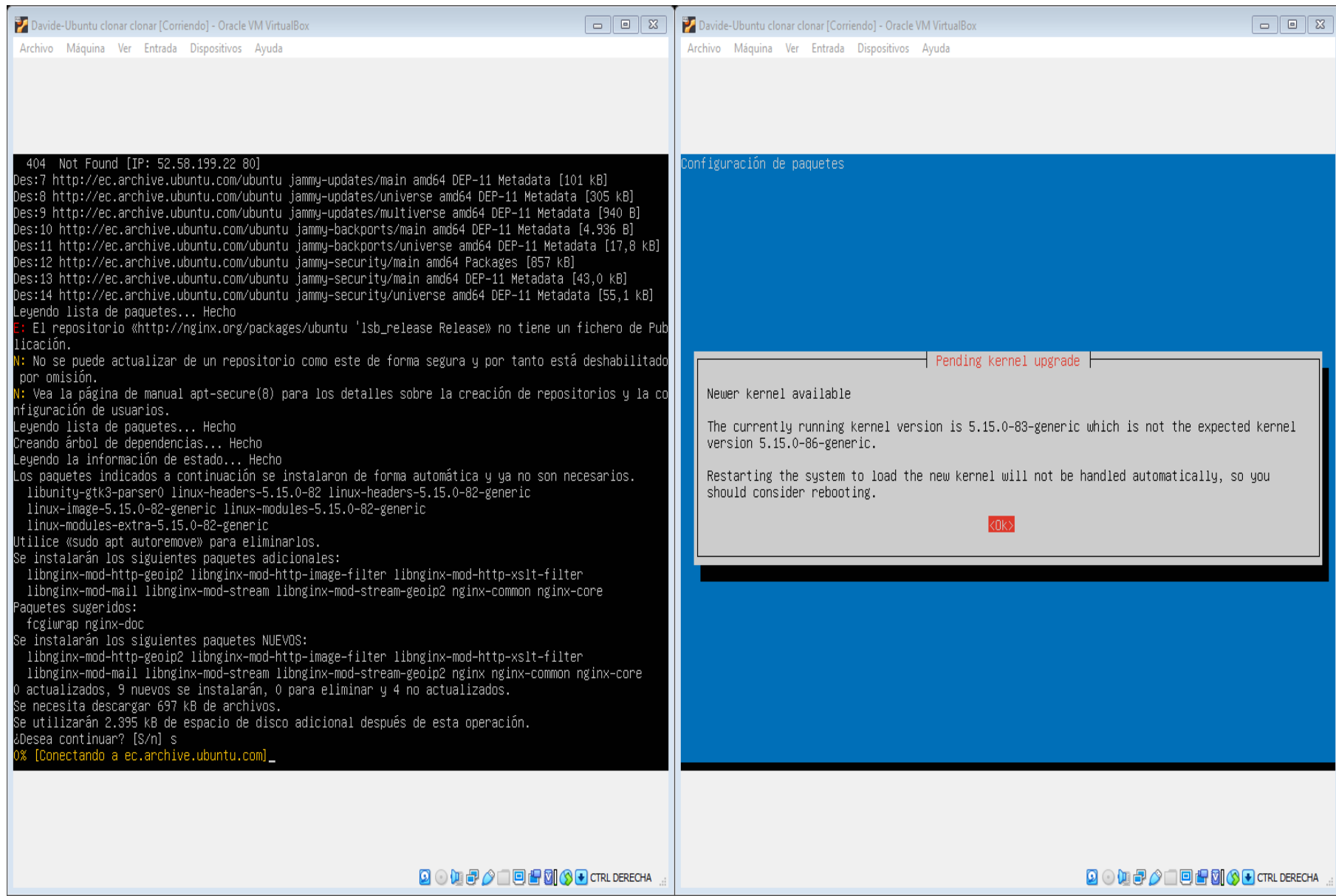
davtiff@server01:~/scripts$ ls -la
total 40
drwxrwxr-x  2 davtiff davtiff 4096 oct 17 08:43 .
drwxr-x--- 22 davtiff davtiff 4096 oct 12 08:09 ..
-rw-rw-r--  1 davtiff davtiff 8448 oct 17 08:44 archivo_de_prueba.txt
-rwxrwxr-x  1 davtiff davtiff  843 oct  3 08:56 menuprincipal.sh
-rwxrwxr-x  1 davtiff davtiff  600 sep 28 08:43 menu.sh
-rwxrwxr-x  1 davtiff davtiff  153 sep 28 08:27 mi_script.py
-rwxrwxr-x  1 davtiff davtiff  471 sep 28 08:50 respaldo.sh
-rwxrwxrwx  1 davtiff davtiff  674 oct 17 08:43 setup_nginx.sh
davtiff@server01:~/scripts$ ./setup_nginx.sh

davtiff@server01:~/scripts$ ls -la
total 40
drwxrwxr-x  2 davtiff davtiff 4096 oct 17 08:43 .
drwxr-x--- 22 davtiff davtiff 4096 oct 12 08:09 ..
-rw-rw-r--  1 davtiff davtiff 8448 oct 17 08:44 archivo_de_prueba.txt
-rwxrwxr-x  1 davtiff davtiff  843 oct  3 08:56 menuprincipal.sh
-rwxrwxr-x  1 davtiff davtiff  600 sep 28 08:43 menu.sh
-rwxrwxr-x  1 davtiff davtiff  153 sep 28 08:27 mi_script.py
-rwxrwxr-x  1 davtiff davtiff  471 sep 28 08:50 respaldo.sh
-rwxrwxrwx  1 davtiff davtiff  674 oct 17 08:43 setup_nginx.sh
davtiff@server01:~/scripts$ ./setup_nginx.sh
[sudo] password for davtiff:
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
lsb-release ya está en su versión más reciente (11.1.0ubuntu4).
fijado lsb-release como instalado manualmente.
ubuntu-keyring ya está en su versión más reciente (2021.03.26).
fijado ubuntu-keyring como instalado manualmente.
ca-certificates ya está en su versión más reciente (20230311ubuntu0.22.04.1).
fijado ca-certificates como instalado manualmente.
curl ya está en su versión más reciente (7.81.0-1ubuntu1.14).
fijado curl como instalado manualmente.
Los paquetes indicados a continuación se instalaron de forma automática y ya no son necesarios.
  libunity-gtk3-parser0 linux-headers-5.15.0-82 linux-headers-5.15.0-82-generic
  linux-image-5.15.0-82-generic linux-modules-5.15.0-82-generic
  linux-modules-extra-5.15.0-82-generic
Utilice «sudo apt autoremove» para eliminarlos.
Se instalarán los siguientes paquetes NUEVOS:
  gnupg2
0 actualizados, 1 nuevos se instalarán, 0 para eliminar y 0 no actualizados.
Se necesita descargar 5.548 B de archivos.
Se utilizarán 52,2 kB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n] s
0% [Conectando a ec.archive.ubuntu.com]_
```

**Nombre:** Tiffany Jordán Uquillas



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**Nombre:** Tiffany Jordán Uquillas

