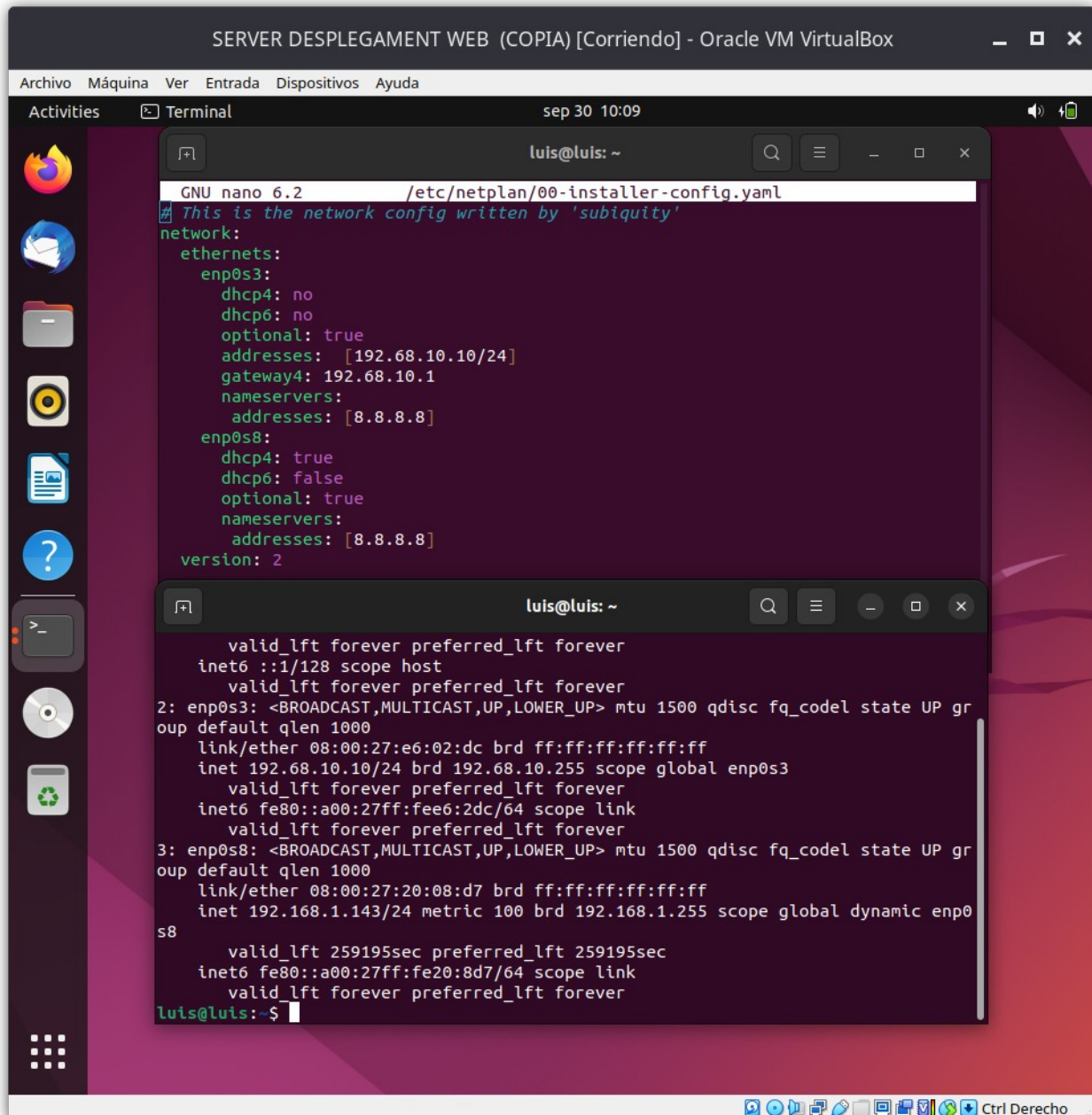


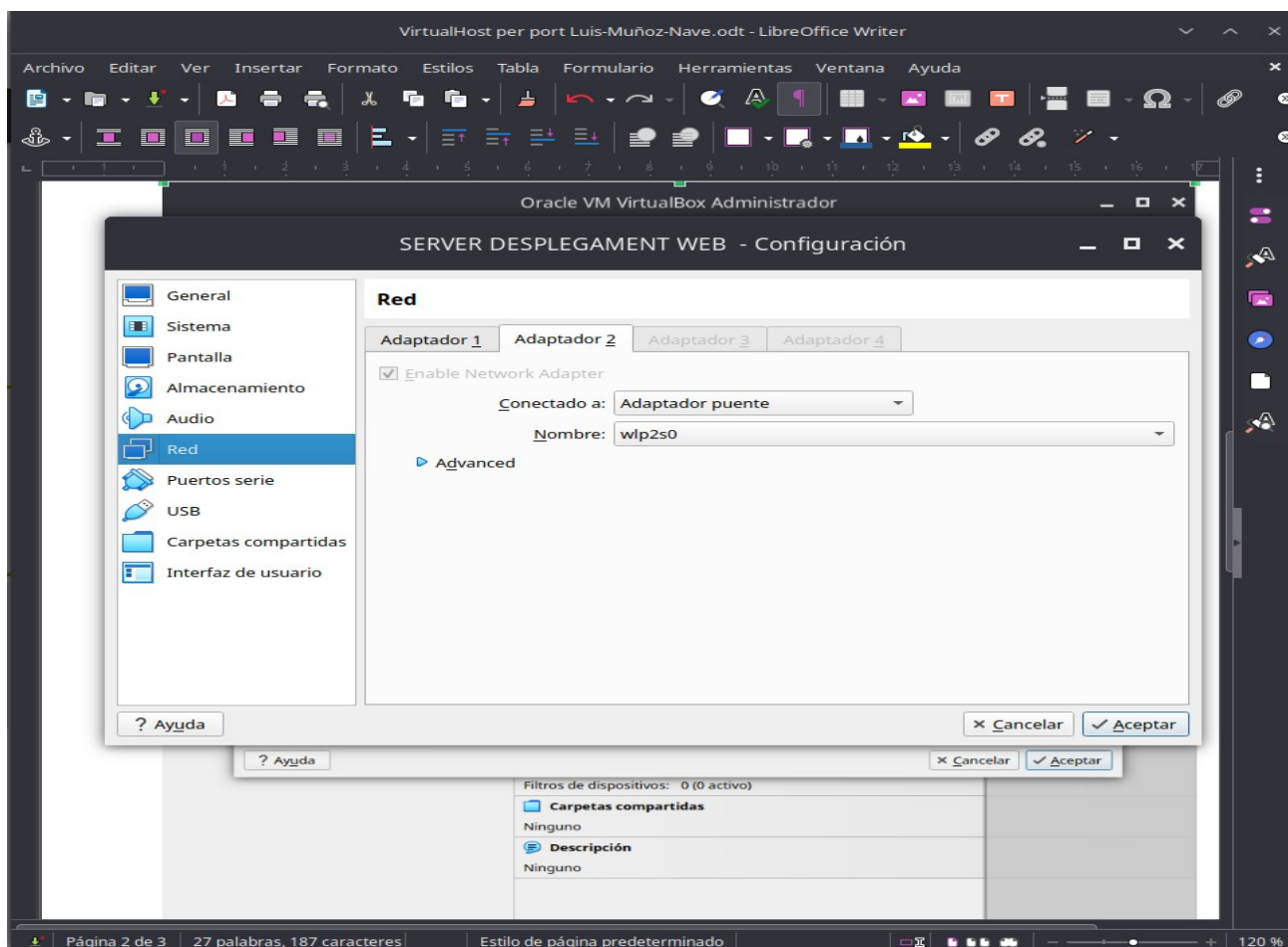
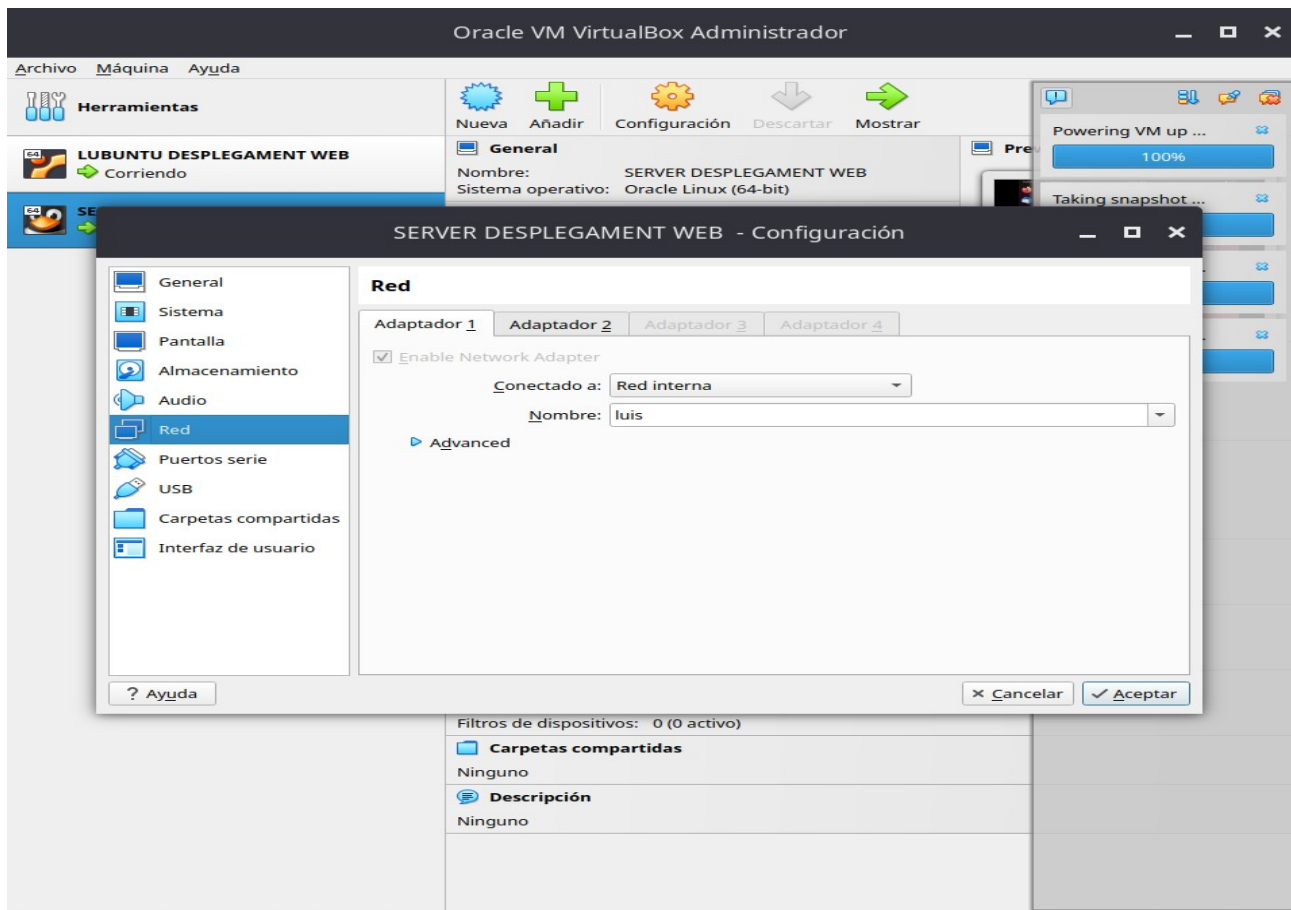
Exercici 2: configurar VirtualHost per port en Apache LUIS MUÑOZ NAVE

- Màquina virtual amb Ubuntu Server. -
- 2 adaptadors de xarxa.
- * Xarxa interna.
- * Adaptador pont.



```
SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
Activities Terminal sep 30 10:09
luis@luis: ~
GNU nano 6.2 /etc/netplan/00-installer-config.yaml
# This is the network config written by 'subiquity'
network:
  ethernets:
    enp0s3:
      dhcp4: no
      dhcp6: no
      optional: true
      addresses: [192.68.10.10/24]
      gateway4: 192.68.10.1
      nameservers:
        addresses: [8.8.8.8]
    enp0s8:
      dhcp4: true
      dhcp6: false
      optional: true
      nameservers:
        addresses: [8.8.8.8]
  version: 2

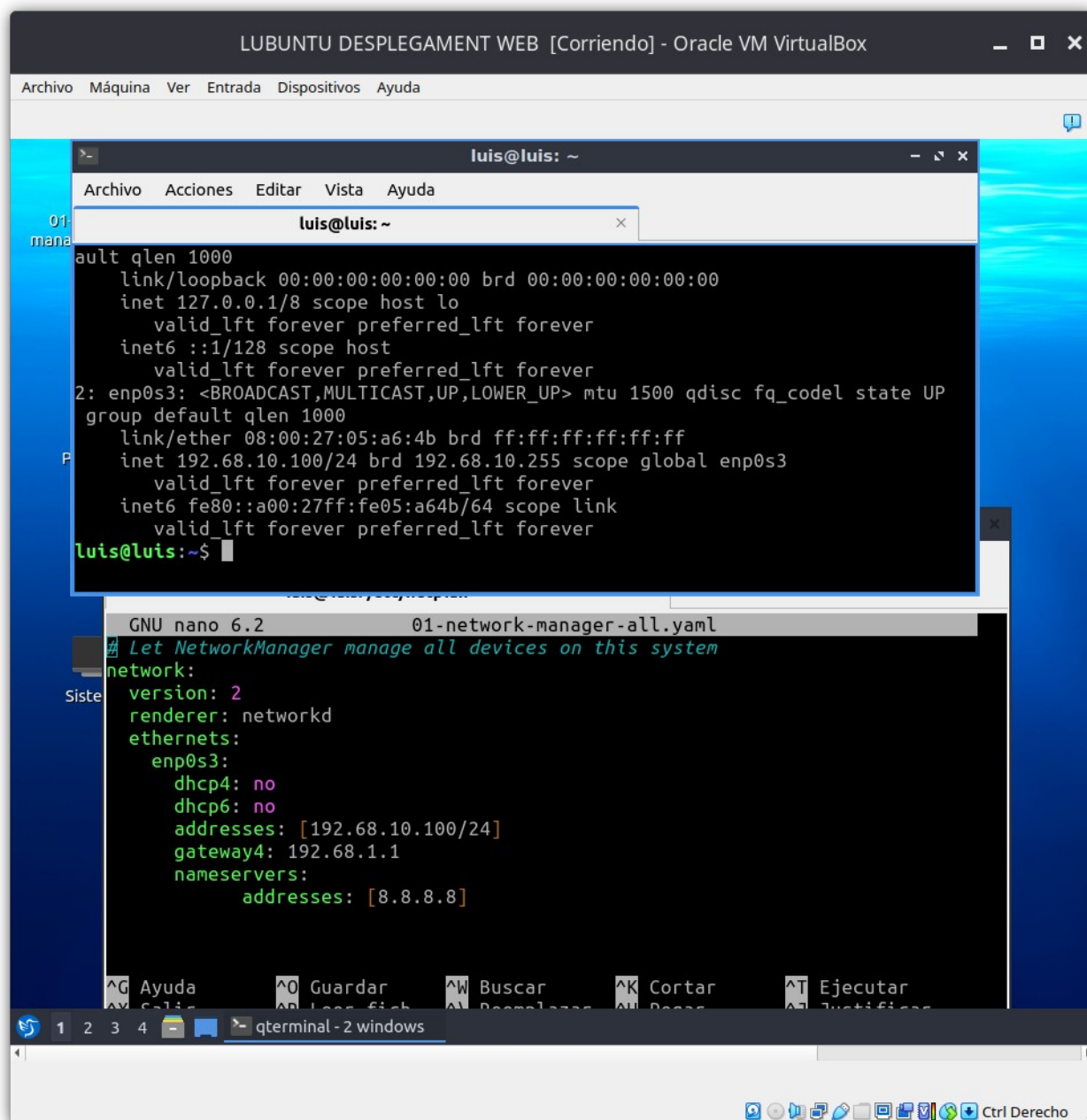
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
link/ether 08:00:27:e6:02:dc brd ff:ff:ff:ff:ff:ff
inet 192.68.10.10/24 brd 192.68.10.255 scope global enp0s3
valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fee6:2dc/64 scope link
valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
link/ether 08:00:27:20:08:d7 brd ff:ff:ff:ff:ff:ff
inet 192.168.1.143/24 metric 100 brd 192.168.1.255 scope global dynamic enp0
s8
valid_lft 259195sec preferred_lft 259195sec
inet6 fe80::a00:27ff:fe20:8d7/64 scope link
valid_lft forever preferred_lft forever
luis@luis:~$
```

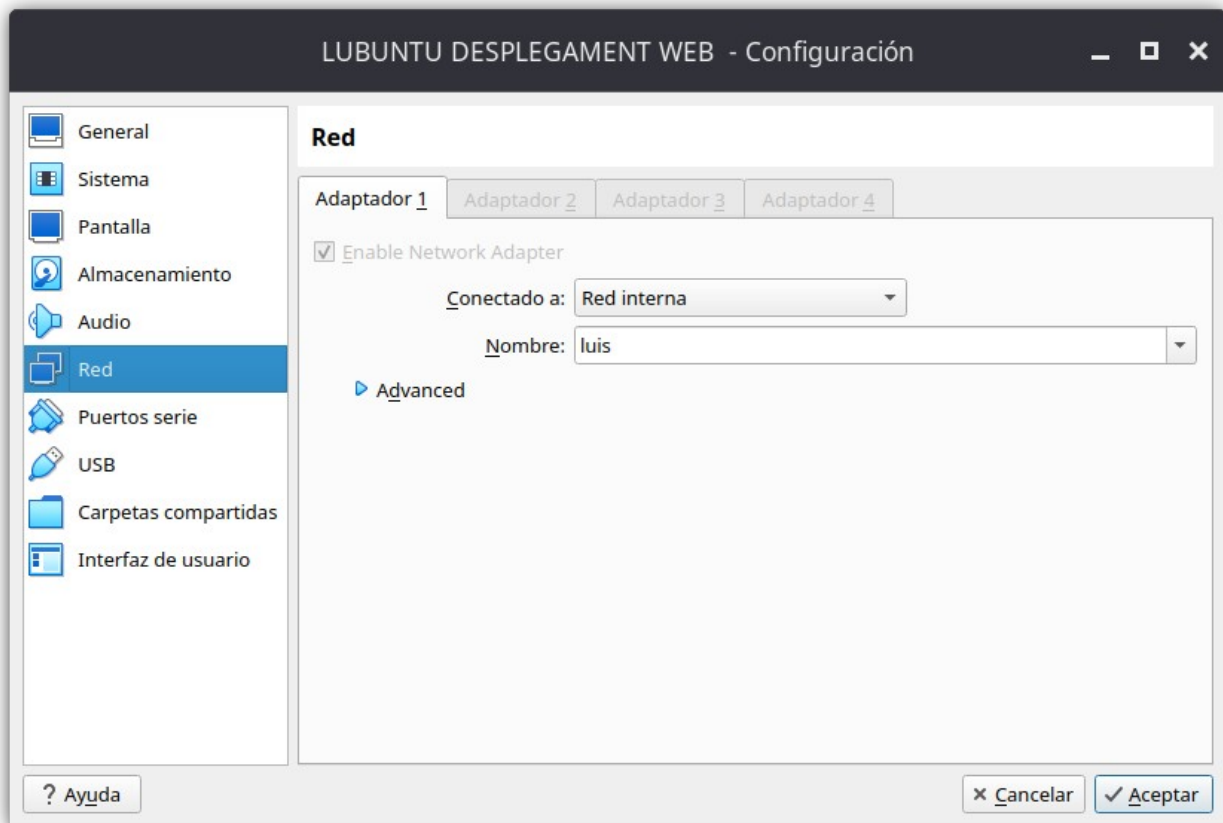


1 adaptador de xarxa.

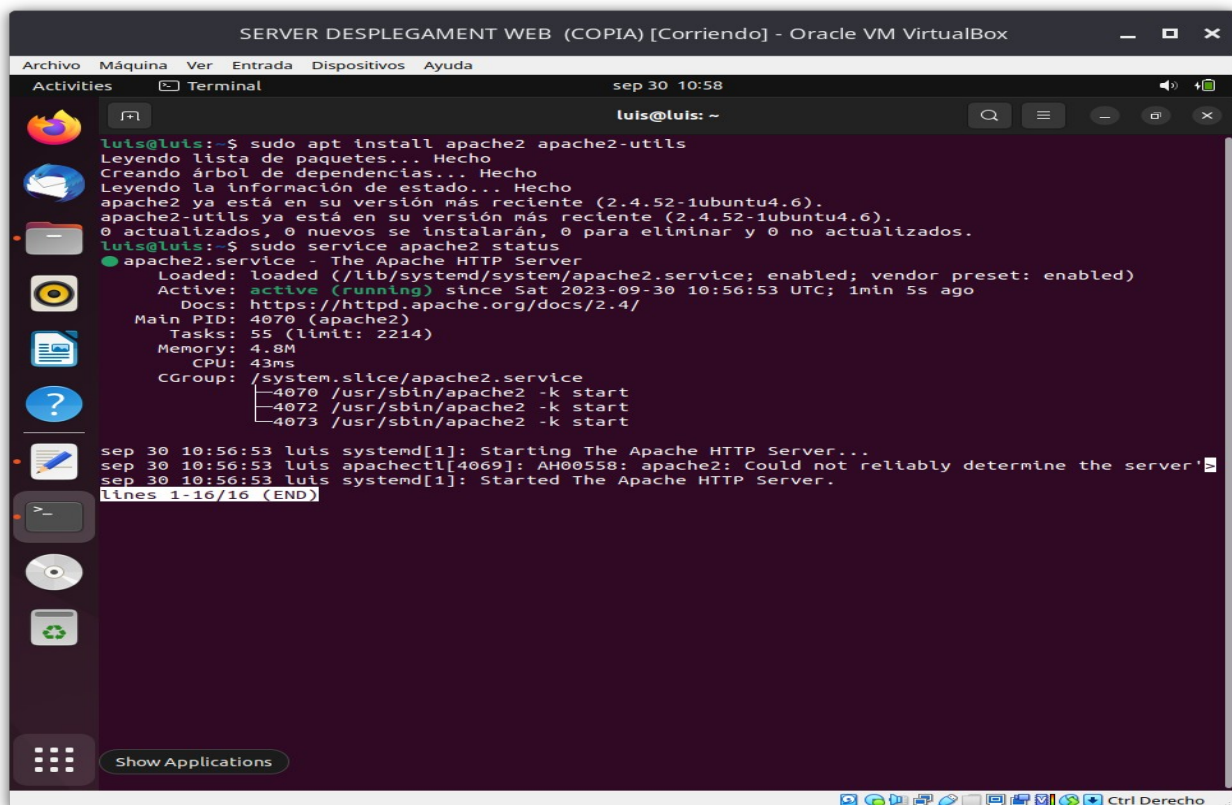
- * Xarxa interna

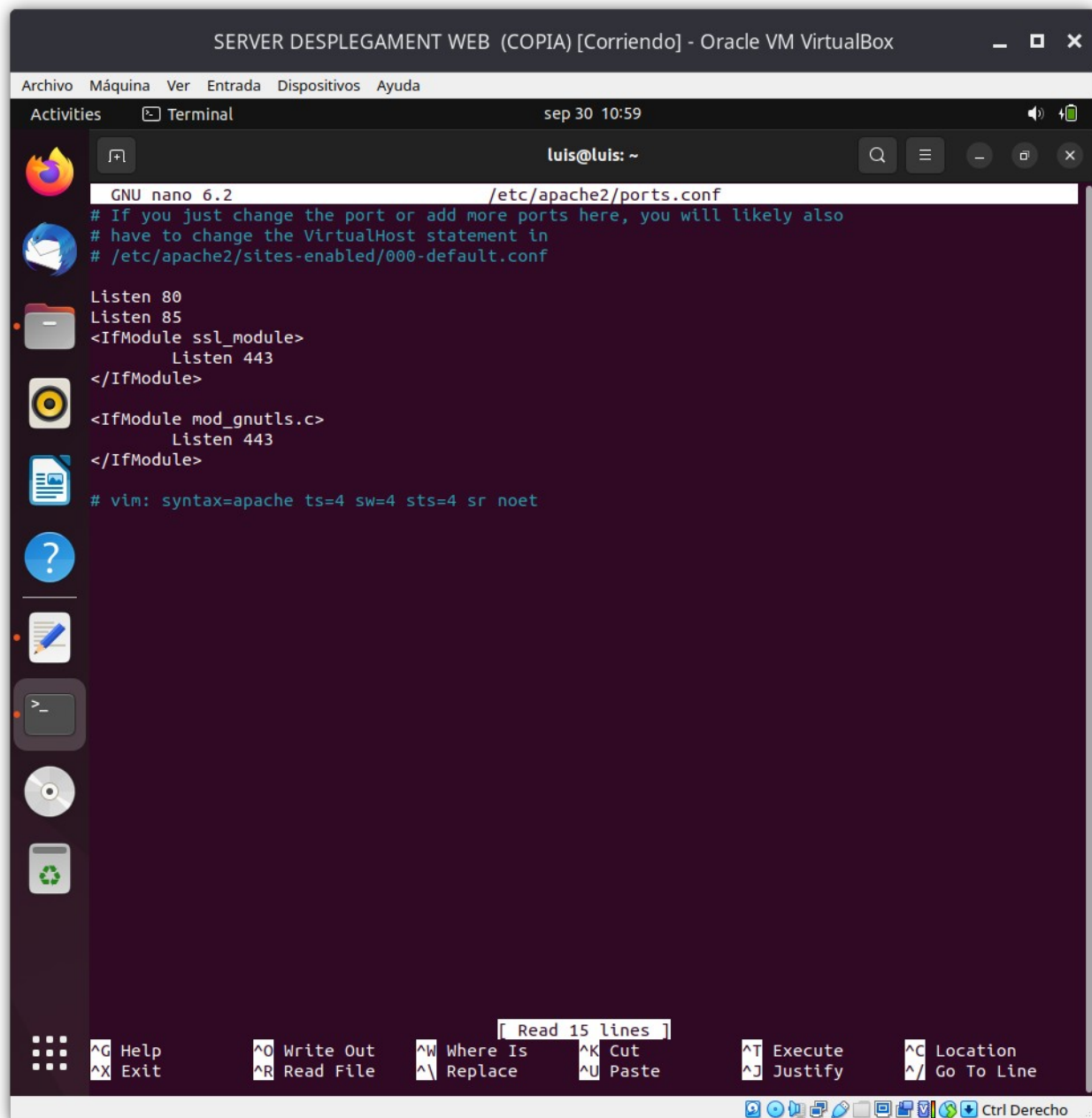
- Màquina real amb accés al servidor.



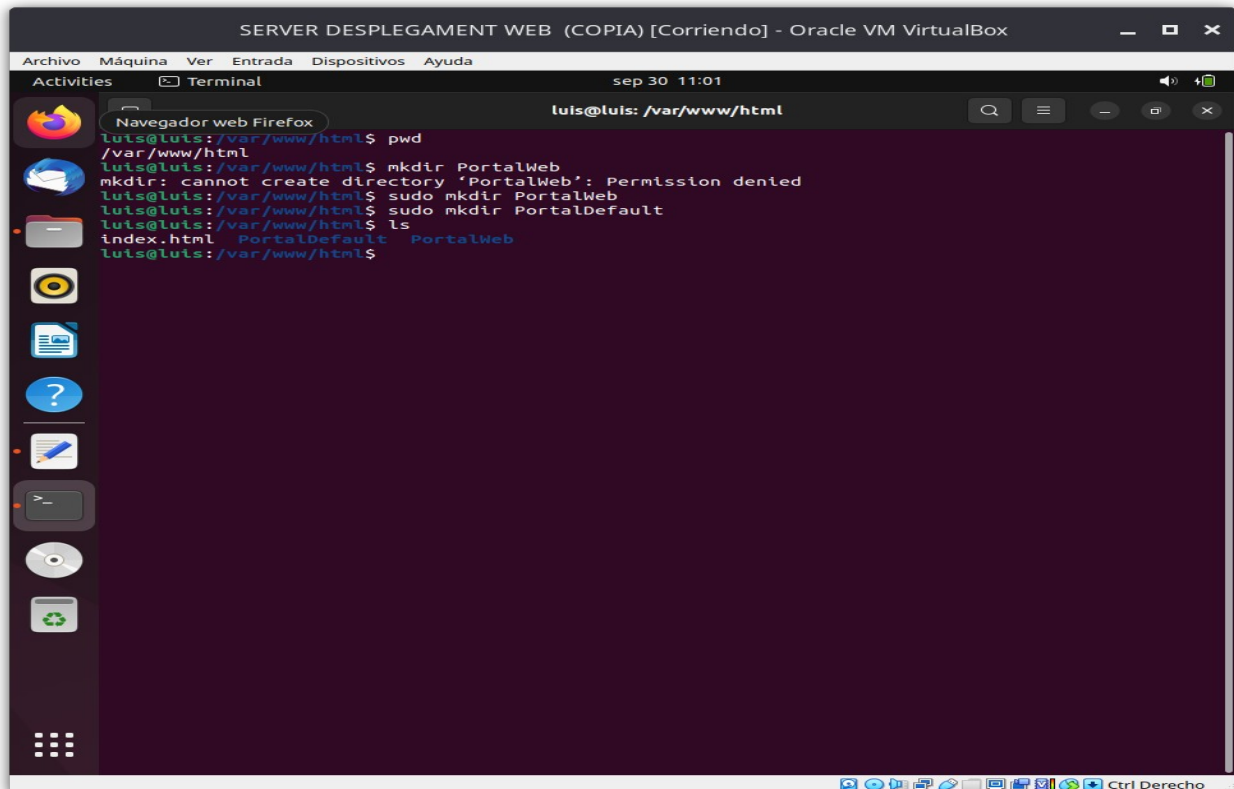


Objectiu Configurar dos hosts virtuals accessibles des de diferents ports (80 i 85).
La web a servir serà diferent depenent del port d'accés.





1. Crear els directoris amb els documents html corresponents a cada port del servidor. •
Port 80: lloc web per defecte. •
Port 85: lloc web portadmin.



SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox

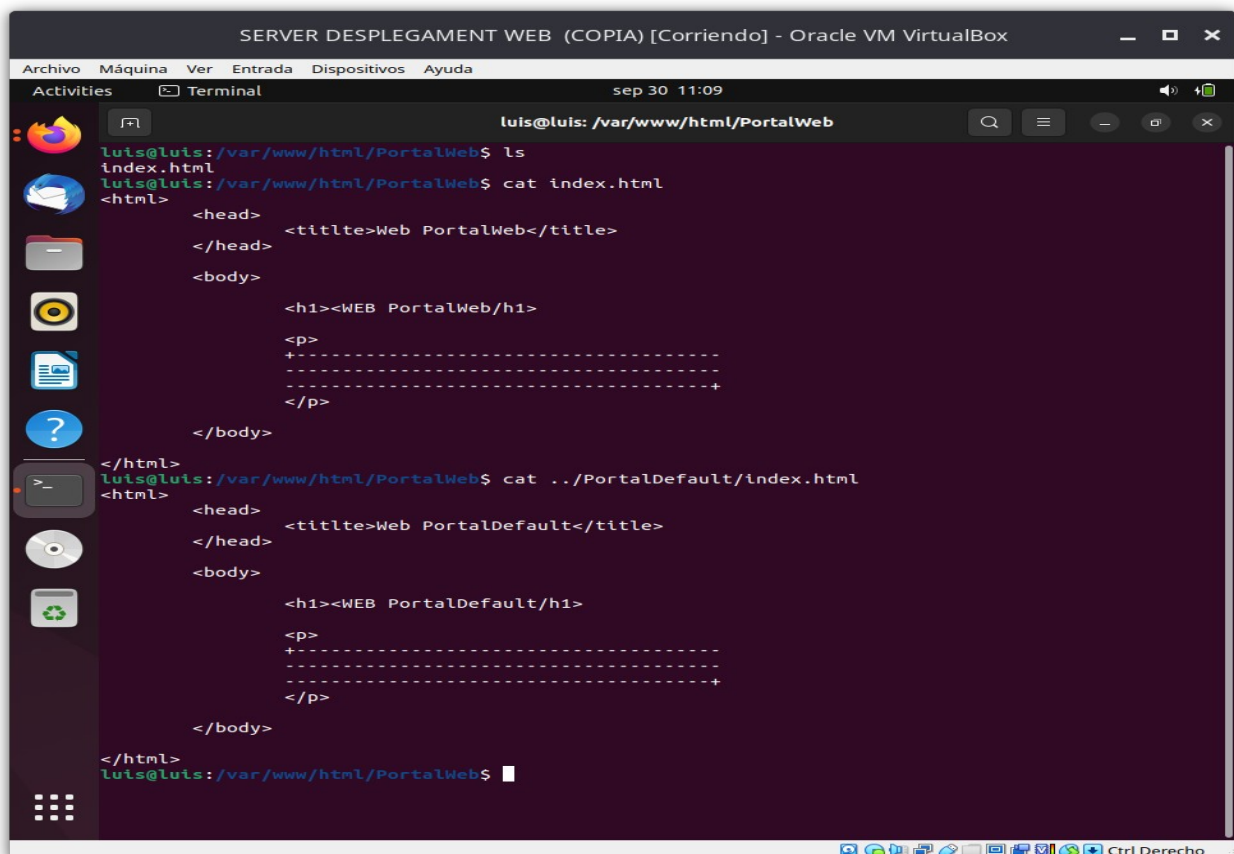
Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Terminal sep 30 11:01

Navegador web Firefox

luis@luis: /var/www/html

```
luis@luis: /var/www/html$ pwd
/var/www/html
luis@luis: /var/www/html$ mkdir PortalWeb
mkdir: cannot create directory 'PortalWeb': Permission denied
luis@luis: /var/www/html$ sudo mkdir PortalWeb
luis@luis: /var/www/html$ sudo mkdir PortalDefault
luis@luis: /var/www/html$ ls
index.html PortalDefault PortalWeb
luis@luis: /var/www/html$
```



SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox

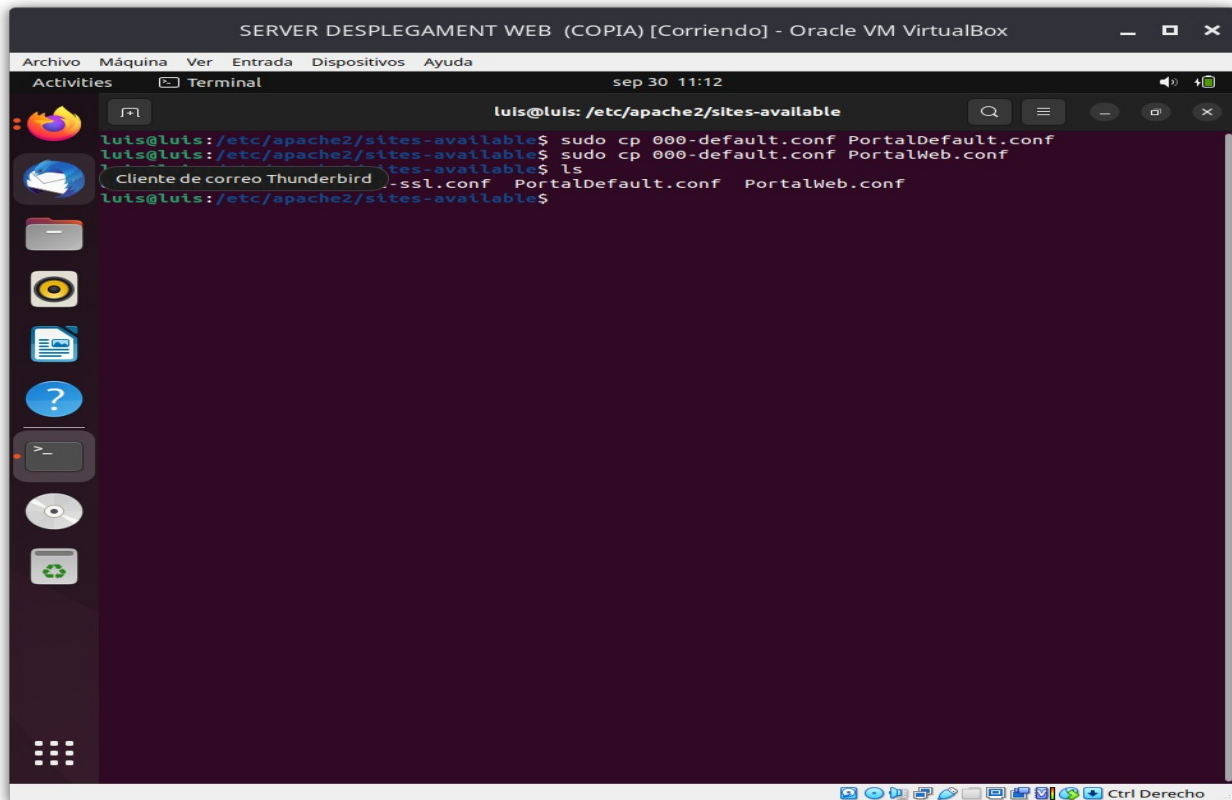
Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Terminal sep 30 11:09

luis@luis: /var/www/html/PortalWeb

```
luis@luis: /var/www/html/PortalWeb$ ls
index.html
luis@luis: /var/www/html/PortalWeb$ cat index.html
<html>
  <head>
    <titlte>Web PortalWeb</title>
  </head>
  <body>
    <h1><WEB PortalWeb/h1>
    <p>
      +-----+
      |-----|
      |-----|
      +-----+
    </p>
  </body>
</html>
luis@luis: /var/www/html/PortalWeb$ cat ../PortalDefault/index.html
<html>
  <head>
    <titlte>Web PortalDefault</title>
  </head>
  <body>
    <h1><WEB PortalDefault/h1>
    <p>
      +-----+
      |-----|
      |-----|
      +-----+
    </p>
  </body>
</html>
luis@luis: /var/www/html/PortalWeb$
```

2. Afegir el port d'escolta en l'arxiu corresponent.
 3. Crear l'arxiu de configuració del nou lloc web en el directori adient.
- portadmin.conf

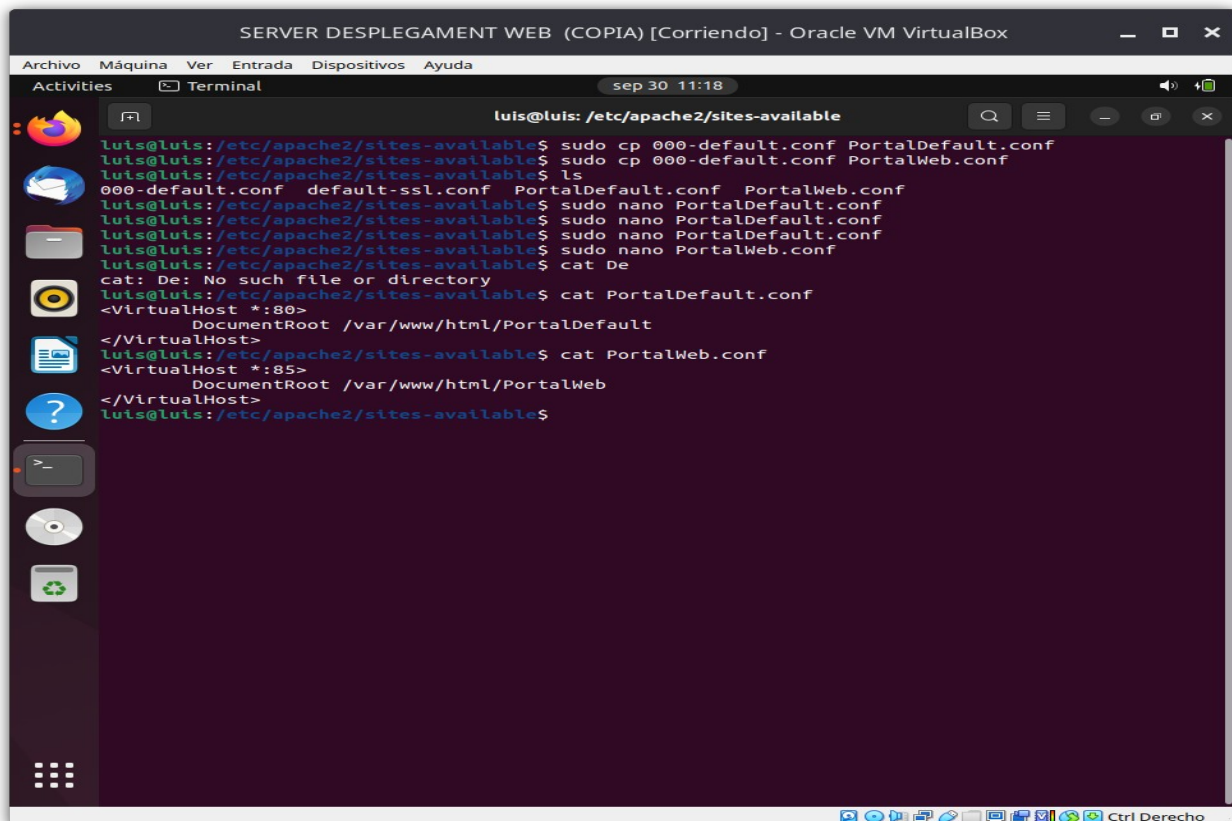


SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Terminal sep 30 11:12

```
luis@luis: /etc/apache2/sites-available
luis@luis:/etc/apache2/sites-available$ sudo cp 000-default.conf PortalDefault.conf
luis@luis:/etc/apache2/sites-available$ sudo cp 000-default.conf PortalWeb.conf
luis@luis:/etc/apache2/sites-available$ ls
000-default.conf default-ssl.conf PortalDefault.conf PortalWeb.conf
luis@luis:/etc/apache2/sites-available$
```



SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox

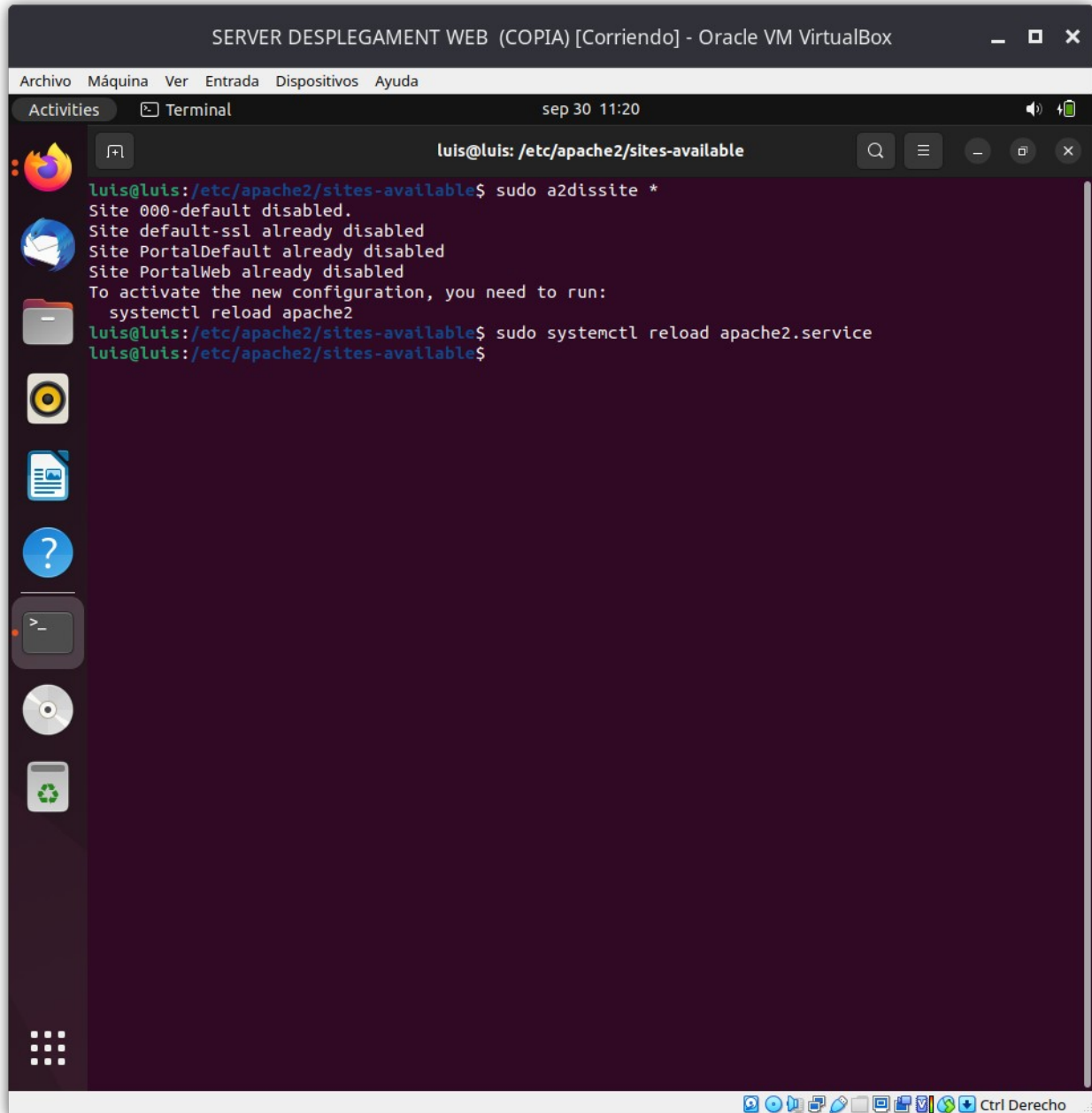
Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Terminal sep 30 11:18

```
luis@luis: /etc/apache2/sites-available
luis@luis:/etc/apache2/sites-available$ sudo cp 000-default.conf PortalDefault.conf
luis@luis:/etc/apache2/sites-available$ sudo cp 000-default.conf PortalWeb.conf
luis@luis:/etc/apache2/sites-available$ ls
000-default.conf default-ssl.conf PortalDefault.conf PortalWeb.conf
luis@luis:/etc/apache2/sites-available$ sudo nano PortalDefault.conf
luis@luis:/etc/apache2/sites-available$ sudo nano PortalDefault.conf
luis@luis:/etc/apache2/sites-available$ sudo nano PortalDefault.conf
luis@luis:/etc/apache2/sites-available$ cat De
cat: De: No such file or directory
luis@luis:/etc/apache2/sites-available$ cat PortalDefault.conf
<VirtualHost *:80>
    DocumentRoot /var/www/html/PortalDefault
</VirtualHost>
luis@luis:/etc/apache2/sites-available$ cat PortalWeb.conf
<VirtualHost *:85>
    DocumentRoot /var/www/html/PortalWeb
</VirtualHost>
luis@luis:/etc/apache2/sites-available$
```

4. Desactivar tots els llocs web del servidor i deixar sols actius el que estem configurant (port 85) i el de per defecte (port 80).

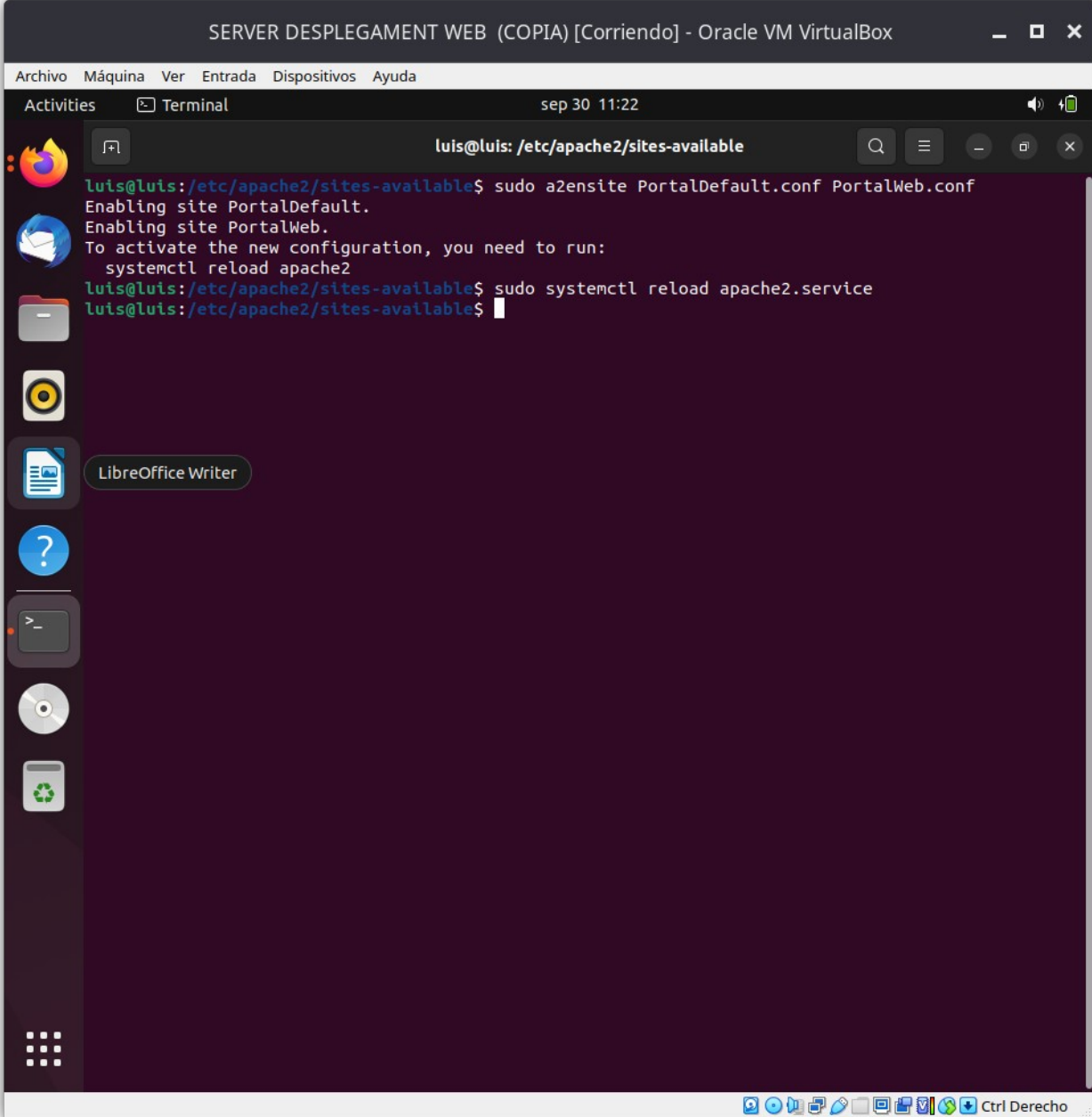
- a2dissite



The screenshot shows a terminal window titled "SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox". The terminal is running a Linux system with the user "luis" in the directory "/etc/apache2/sites-available". The user has executed the command "sudo a2dissite *", which has disabled several sites: "000-default", "default-ssl", "PortalDefault", and "PortalWeb". The terminal output indicates that to activate the new configuration, the user needs to run "systemctl reload apache2". The user has then executed "sudo systemctl reload apache2.service". The terminal window is part of a desktop environment with a sidebar on the left containing icons for Activities, Terminal, and various applications. The bottom of the window shows a taskbar with system icons and a "Ctrl Derecho" button.

```
luis@luis: /etc/apache2/sites-available
luis@luis: /etc/apache2/sites-available$ sudo a2dissite *
Site 000-default disabled.
Site default-ssl already disabled
Site PortalDefault already disabled
Site PortalWeb already disabled
To activate the new configuration, you need to run:
    systemctl reload apache2
luis@luis: /etc/apache2/sites-available$ sudo systemctl reload apache2.service
luis@luis: /etc/apache2/sites-available$
```


5. Activar els dos llocs que estem configurant.

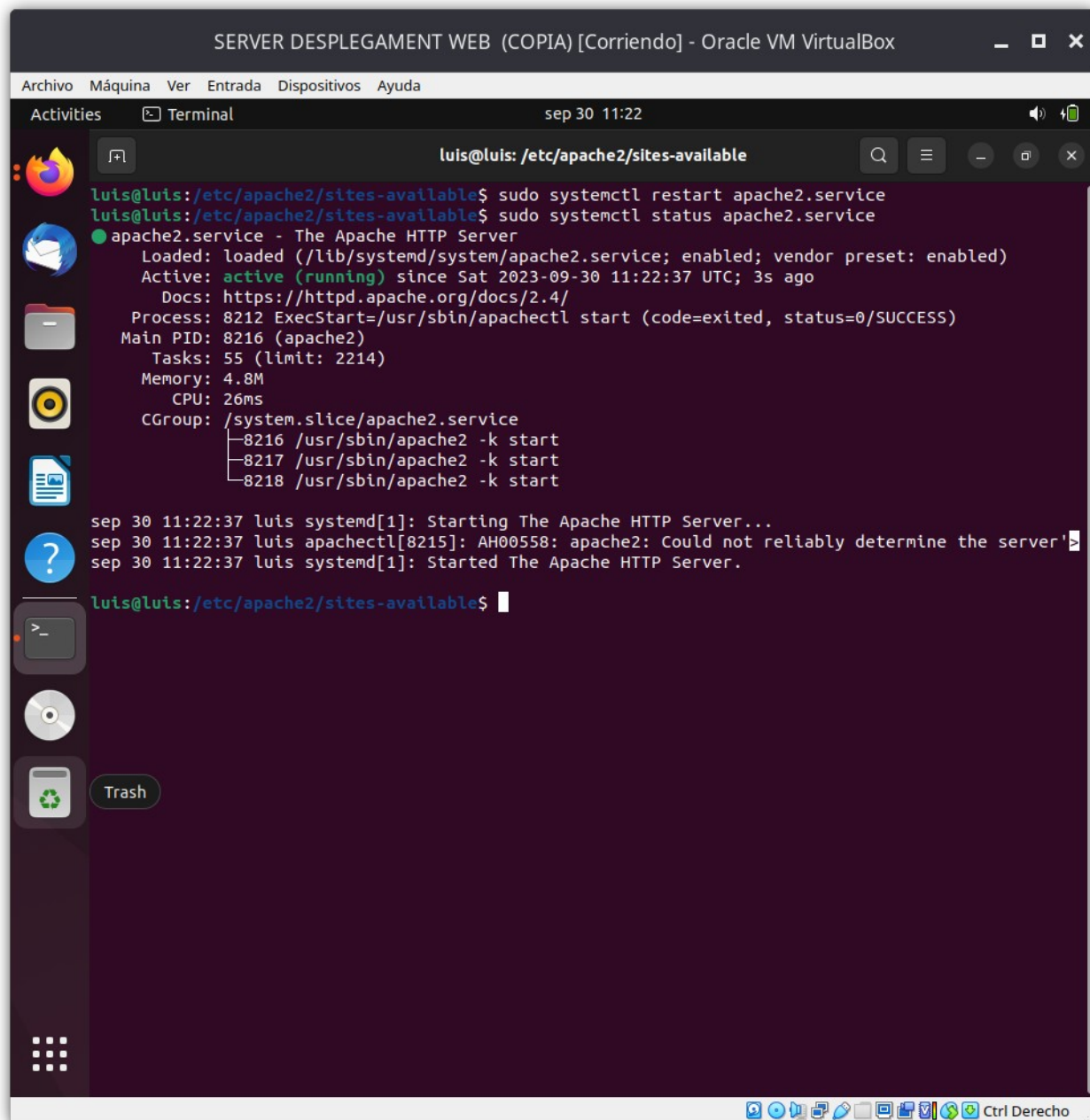


The screenshot shows a terminal window titled "SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox". The terminal is running a Linux system with a dark purple background. The user is logged in as "luis" and is in the directory "/etc/apache2/sites-available". The terminal output shows the following commands and responses:

```
luis@luis:/etc/apache2/sites-available$ sudo a2ensite PortalDefault.conf PortalWeb.conf
Enabling site PortalDefault.
Enabling site PortalWeb.
To activate the new configuration, you need to run:
    systemctl reload apache2
luis@luis:/etc/apache2/sites-available$ sudo systemctl reload apache2.service
luis@luis:/etc/apache2/sites-available$
```

The terminal window has a sidebar on the left with icons for various applications, including Firefox, LibreOffice Writer, and a terminal icon. The bottom of the window shows a taskbar with various system icons and the text "Ctrl Derecho".

6. Reiniciar el servei d'Apache.



The screenshot shows a terminal window titled "SERVER DESPLEGAMENT WEB (COPIA) [Corriendo] - Oracle VM VirtualBox". The terminal is running a Linux system with the user "luis" in the directory "/etc/apache2/sites-available". The user has executed the following commands:

```
luis@luis:/etc/apache2/sites-available$ sudo systemctl restart apache2.service
luis@luis:/etc/apache2/sites-available$ sudo systemctl status apache2.service
```

The output of the status command shows that the Apache2 service is active and running. The service details are as follows:

- apache2.service - The Apache HTTP Server
- Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
- Active: active (running) since Sat 2023-09-30 11:22:37 UTC; 3s ago
- Docs: <https://httpd.apache.org/docs/2.4/>
- Process: 8212 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
- Main PID: 8216 (apache2)
- Tasks: 55 (limit: 2214)
- Memory: 4.8M
- CPU: 26ms
- CGroup: /system.slice/apache2.service
 - └─8216 /usr/sbin/apache2 -k start
 - └─8217 /usr/sbin/apache2 -k start
 - └─8218 /usr/sbin/apache2 -k start

The terminal also shows the following log messages:

```
sep 30 11:22:37 luis systemd[1]: Starting The Apache HTTP Server...
sep 30 11:22:37 luis apachectl[8215]: AH00558: apache2: Could not reliably determine the server's
sep 30 11:22:37 luis systemd[1]: Started The Apache HTTP Server.
```

The terminal prompt is now "luis@luis:/etc/apache2/sites-available\$".

7. Accedir des del navegador, del client, als diferents llocs web segons el port.

