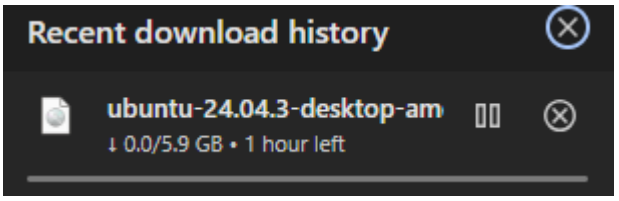
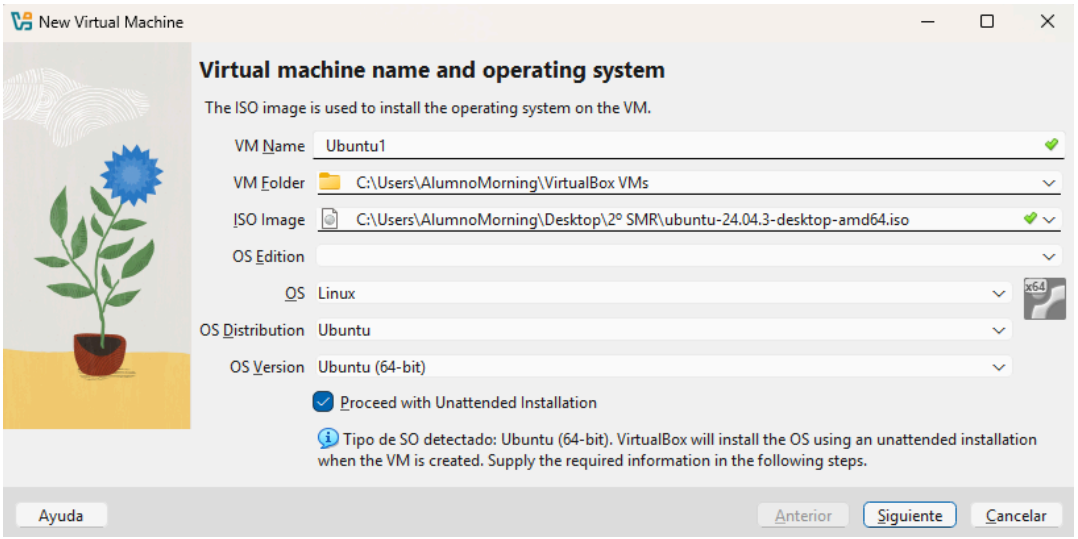
Santiago Abia Merino 03-10-2025

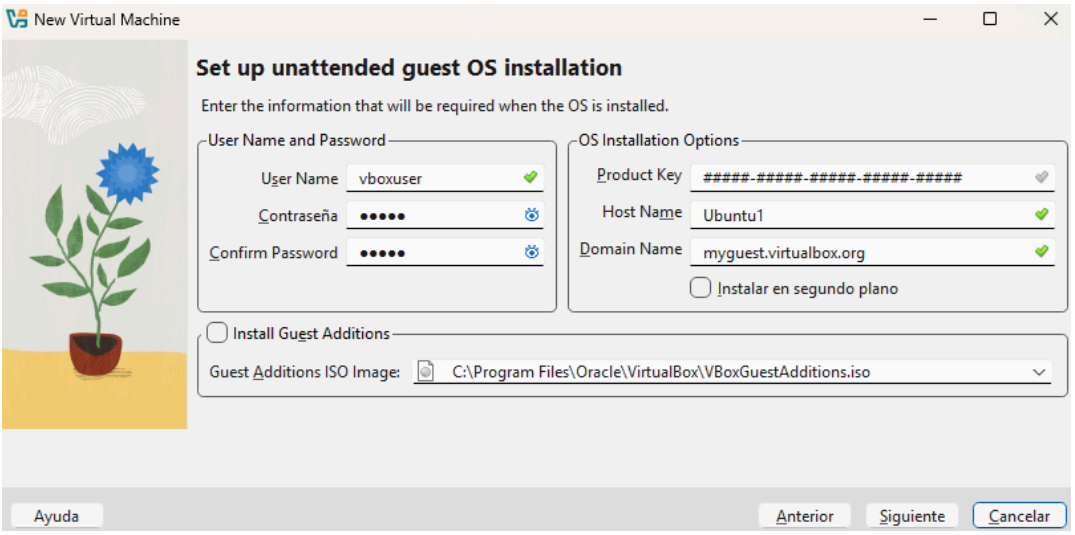
1. **Me instalo Ubuntu en la página oficial de Ubuntu.**



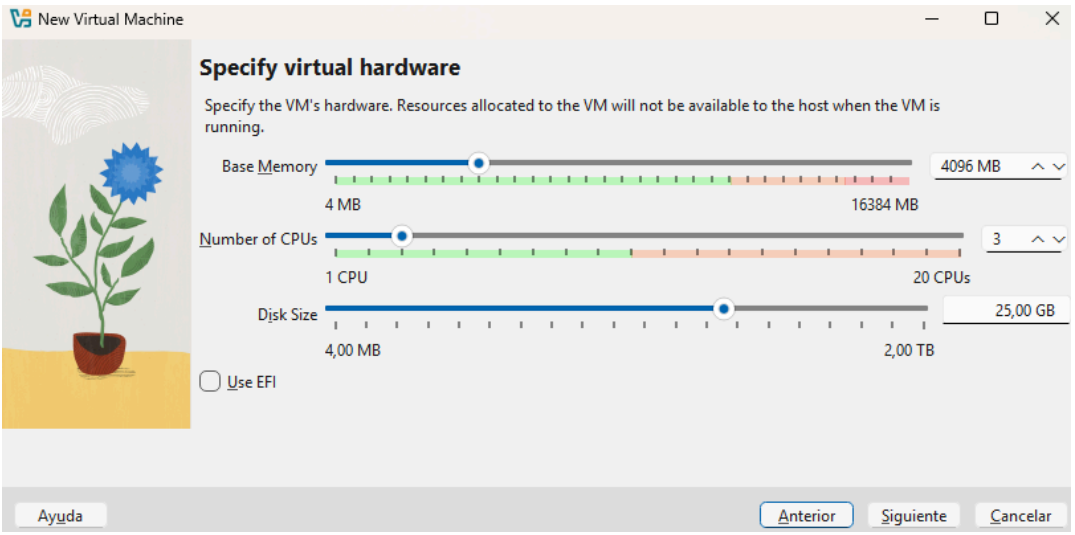
2. **Creo una máquina virtual en VirtualBox y pongo la ISO que me he instalado de Ubuntu 24.04.3.**



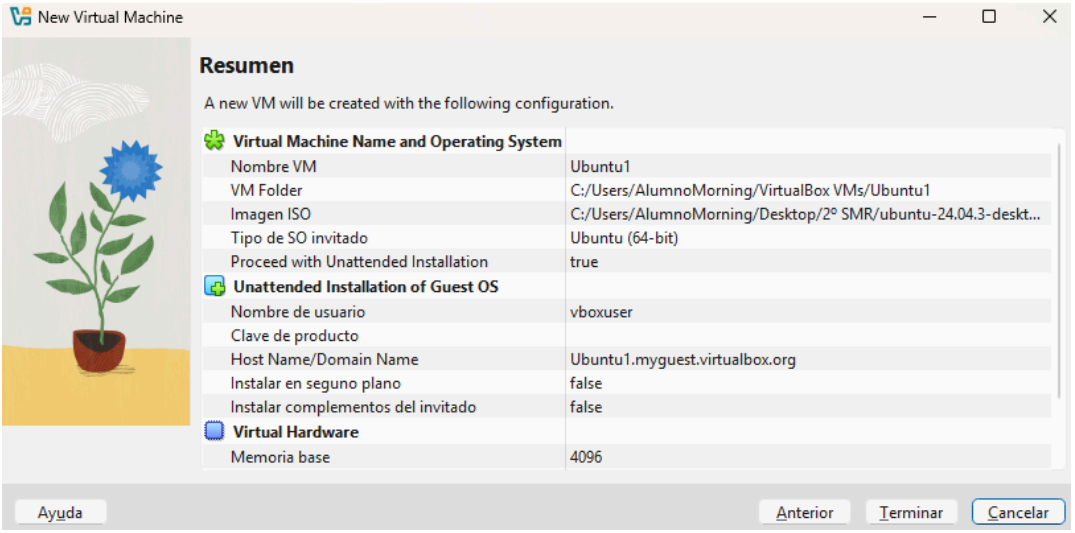
3. **Configuro el usuario con la contraseña.**



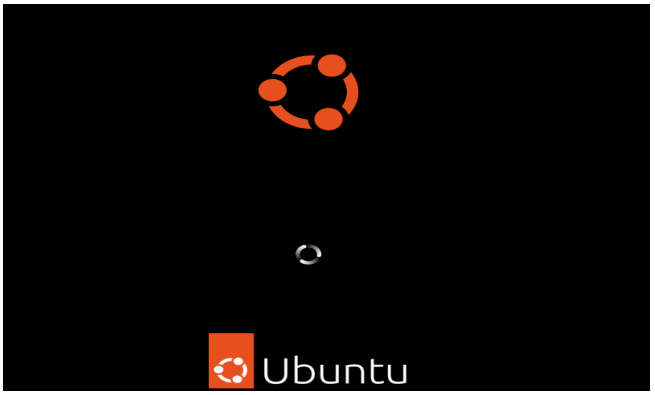
4. **Configuro la memoria base y los núcleos que quiero que tenga la máquina.**



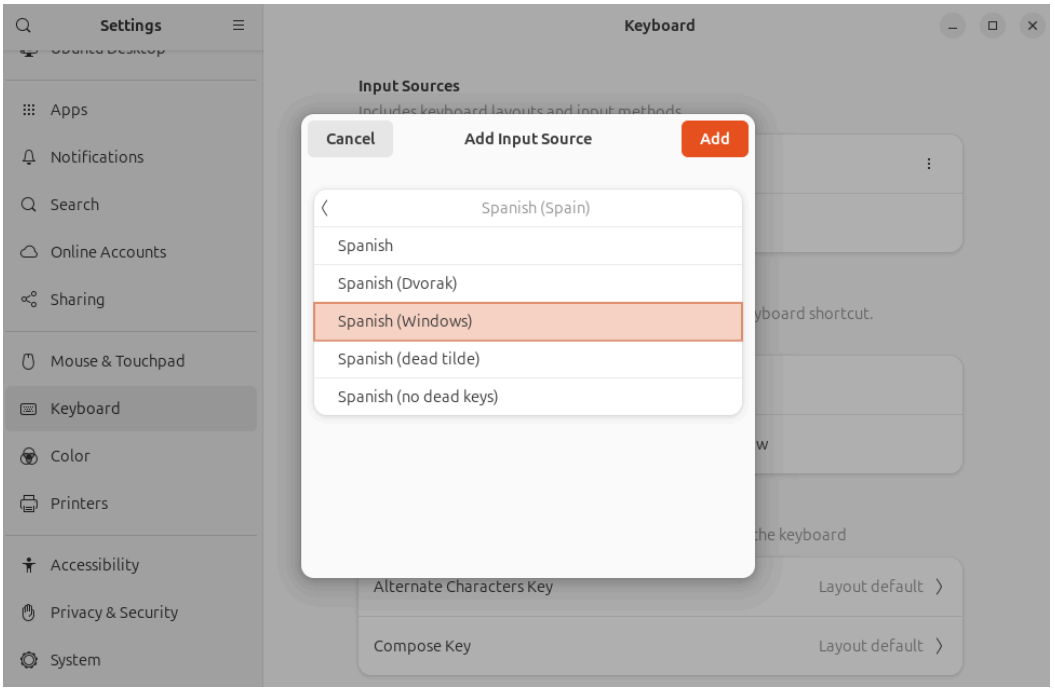
5. **Revisamos que todo esté bien y procedemos a la instalación.**



6. **Esperando a que se termine de instalar la máquina.**



7. **Lo primero que hago una vez está instalada la máquina es configurar el teclado y pongo el español (windows). También cambio el idioma al español.**



Comandos a realizar.

1. Actualizar el sistema

Comando:

sudo apt update && sudo apt upgrade -y

Descripción: Con este comando he actualizado los paquetes del sistema. Como vemos todo se ha actualizado correctamente.

```
root@ubuntu:/home/ubuntu# sudo apt update && sudo apt upgrade -y
Ign:1 cdrom://Ubuntu 24.04.3 LTS _Noble Numbat_ - Release amd64 (20250805.1) nob
le InRelease
Hit:2 cdrom://Ubuntu 24.04.3 LTS _Noble Numbat_ - Release amd64 (20250805.1) nob
le Release
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main i386 Packages [534 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/main i386 Packages [333 k
B]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,484
 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1,2
01 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [286 k
B]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175
 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main Icons (48x48) [36.0 k
B]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/main Icons (64x64) [51.0 k
```

2. Instalar Apache2

Comando:

sudo apt install apache2 -y

Descripción: Instalo el apache y revisto que todo este en orden, lo está.

```
root@Ubuntu1:/home/vboxuser# sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libaprutil1t64
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1t64
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
0 upgraded, 8 newly installed, 0 to remove and 65 not upgraded.
Need to get 1,902 kB of archives.
After this operation, 7,451 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 libapr1t64 am
d64 1.7.2-3.1ubuntu0.1 [108 kB]
Get:2 http://es.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1t64 amd64
1.6.3-1.1ubuntu7 [91.9 kB]
Get:3 http://es.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dbd-sqlit
e3 amd64 1.6.3-1.1ubuntu7 [11.2 kB]
Get:4 http://es.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-ldap amd6
4 1.6.3-1.1ubuntu7 [9,116 B]
Get:5 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-bin a
```

3. Instalar PHP

Comando:

sudo apt install php libapache2-mod-php -y

Descripción: Aquí he instalado el PHP y módulo para Apache.

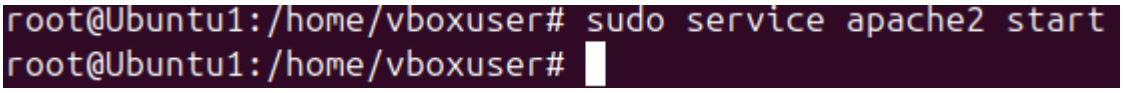
```
root@Ubuntu1:/home/vboxuser# sudo apt install php libapache2-mod-php -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php8.3 libsodium23 php-common php8.3 php8.3-cli php8.3-common
  php8.3-opcache php8.3-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.3 libsodium23 php php-common php8.3
  php8.3-cli php8.3-common php8.3-opcache php8.3-readline
0 upgraded, 10 newly installed, 0 to remove and 65 not upgraded.
Need to get 5,084 kB of archives.
After this operation, 22.8 MB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble/main amd64 php-common all 2:93ub
untu2 [13.9 kB]
Get:2 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-common
 amd64 8.3.6-0ubuntu0.24.04.5 [740 kB]
Get:3 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-opcach
e amd64 8.3.6-0ubuntu0.24.04.5 [371 kB]
Get:4 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-readli
```

4. Iniciar Apache

Comando:

sudo service apache2 start

Descripción: Aquí he iniciado el servicio Apache.

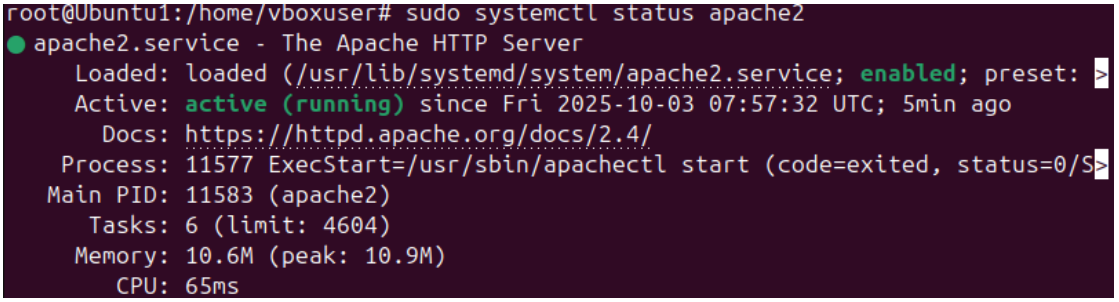


5. Verificar estado de Apache

Comando:

sudo systemctl status apache2

Descripción: Como al iniciar el sevicio Apache no me da ningún mensaje, reviso que realmente se ha iniciado.

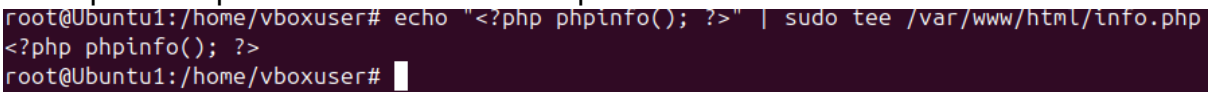


6. Crear archivo PHP info

Comando:

echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php

Descripción: Aquí he creado un archivo que de información del PHP.



7. Verificar en navegador

Comando:

curl http://localhost/info.php

Descripción: Y aquí he probado el archivo PHP desde la terminal. Pero al poner el comando curl, me ha dicho que lo tengo que instalar, lo he instalado y he procedido a seguir con el comando. Ha salido todo bien.

```
root@Ubuntu1:/home/vboxuser# curl http://localhost/info.php
Command 'curl' not found, but can be installed with:
snap install curl  # version 8.16.0, or
apt  install curl  # version 8.5.0-2ubuntu10.6
See 'snap info curl' for additional versions.
root@Ubuntu1:/home/vboxuser#
```

```
root@Ubuntu1:/home/vboxuser# curl http://localhost/info.php
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head>
<style type="text/css">
body {background-color: #fff; color: #222; font-family: sans-serif;}
pre {margin: 0; font-family: monospace;}
a:link {color: #009; text-decoration: none; background-color: #fff;}
a:hover {text-decoration: underline;}
table {border-collapse: collapse; border: 0; width: 934px; box-shadow: 1px 2px 3px rgba(0, 0, 0, 0.2);}
.center {text-align: center;}
.center table {margin: 1em auto; text-align: left;}
.center th {text-align: center !important;}
td, th {border: 1px solid #666; font-size: 75%; vertical-align: baseline; padding: 4px 5px;}
th {position: sticky; top: 0; background: inherit;}
h1 {font-size: 150%;}
h2 {font-size: 125%;}
h2 a:link, h2 a:visited{color: inherit; background: inherit;}
.p {text-align: left;}
.e {background-color: #ccf; width: 300px; font-weight: bold;}
.h {background-color: #99c; font-weight: bold;}
.v {background-color: #ddd; max-width: 300px; overflow-x: auto; word-wrap: break-word;}
.v i {color: #999;}
img {float: right; border: 0;}
hr {width: 934px; background-color: #ccc; border: 0; height: 1px;}
:root {--php-dark-grey: #333; --php-dark-blue: #4F5B93; --php-medium-blue: #8892BF; --php-light-blue: #E2E4EF; --php-acc
ent-purple: #793862}@media (prefers-color-scheme: dark) {
  body {background: var(--php-dark-grey); color: var(--php-light-blue)}
  .h td, td.e, th {border-color: #606A90}
```

1. Instalar Nginx

Comando:

sudo apt install nginx -y

Descripción: Aquí he instalado el servidor web Nginx.

```
root@Ubuntu1:/home/vboxuser# sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 65 not upgraded.
Need to get 564 kB of archives.
After this operation, 1,596 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.5 [43.4 kB]
Get:2 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520 kB]
Fetched 564 kB in 0s (1,833 kB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 150982 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.5_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.5) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.5_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.5) ...
Setting up nginx-common (1.24.0-2ubuntu7.5) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Could not execute systemctl:  at /usr/bin/deb-systemd-invoke line 148.
Setting up nginx (1.24.0-2ubuntu7.5) ...
Not attempting to start NGINX, port 80 is already in use.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for ufw (0.36.2-6) ...
root@Ubuntu1:/home/vboxuser#
```

2. Iniciar Nginx

Comando:

sudo service nginx start

Descripción: Para iniciarlo he tenido que parar el servicio apache con “service apache2 stop” y luego ya he podido empezar el nginx.

```
root@Ubuntu1:/home/vboxuser# service apache2 stop
root@Ubuntu1:/home/vboxuser# sudo service nginx start
```

3. Verificar estado de Nginx

Comando:

sudo systemctl status nginx

Descripción: Aquí he comprobado que Nginx está funcionando.

```
root@Ubuntu1:/home/vboxuser# sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
     Active: active (running) since Fri 2025-10-03 08:40:35 UTC; 59s ago
```

4. Crear archivo HTML

Comando:

echo "<h1>Hola Mundo desde Nginx</h1> Servidor funcionando correctamente " | sudo tee /var/www/html/index.html

Descripción: Crea una página HTML simple.

```
root@Ubuntu1:/home/vboxuser# echo "<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente </p>" sudo tee /
var/www/html/index.html
<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente </p> sudo tee /var/www/html/index.html
root@Ubuntu1:/home/vboxuser#
```

5. Verificar en navegador

Comando:

curl http://localhost

Descripción: Prueba la página HTML desde terminal.

```
root@Ubuntu1:/home/vboxuser# curl http://localhost
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtm
>
<html xmlns="http://www.w3.org/1999/xhtml">
  <!--
    Modified from the Debian original for Ubuntu
    Last updated: 2022-03-22
    See: https://launchpad.net/bugs/1966004
  -->
```

6. Ver IP de WSL (si aplica)

Comando:

ip addr show eth0 | grep inet

Descripción: Muestra la IP para acceso desde Windows.