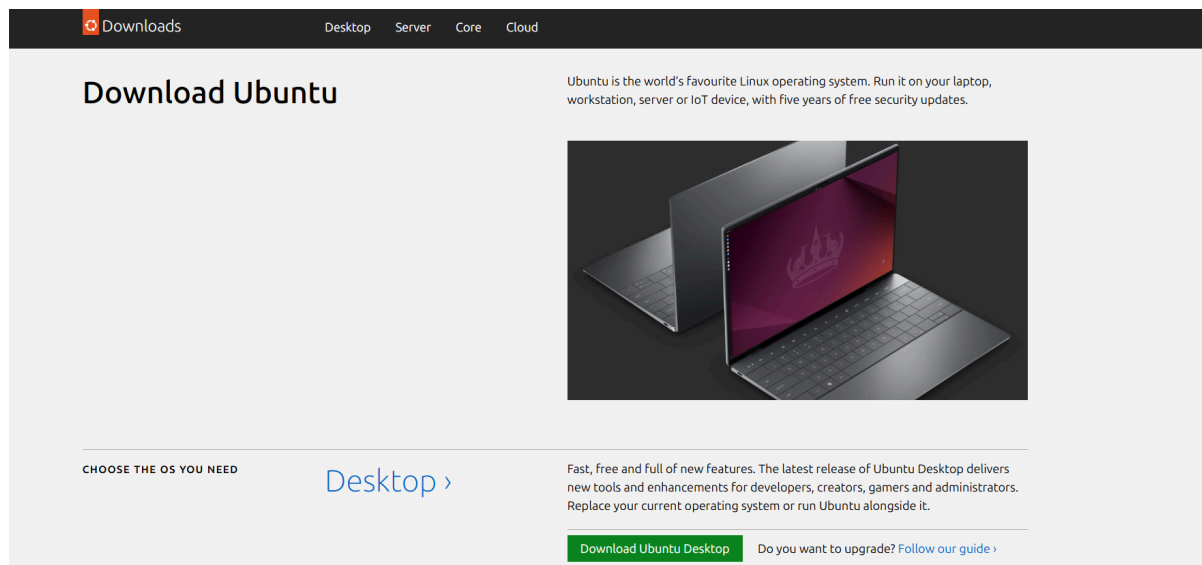
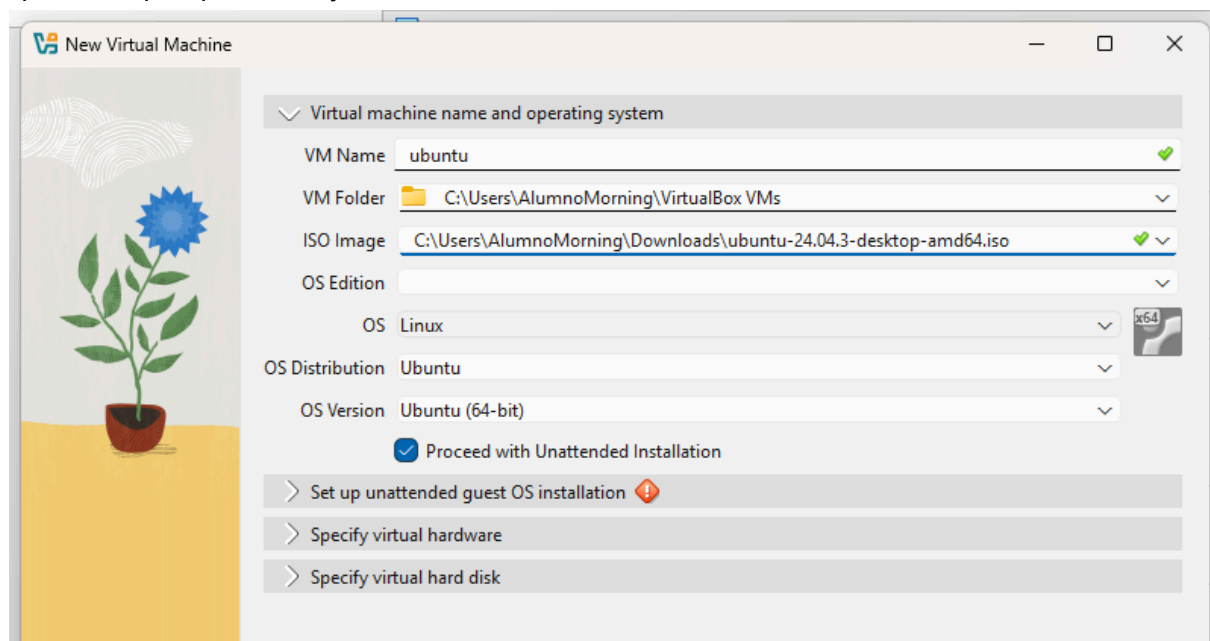
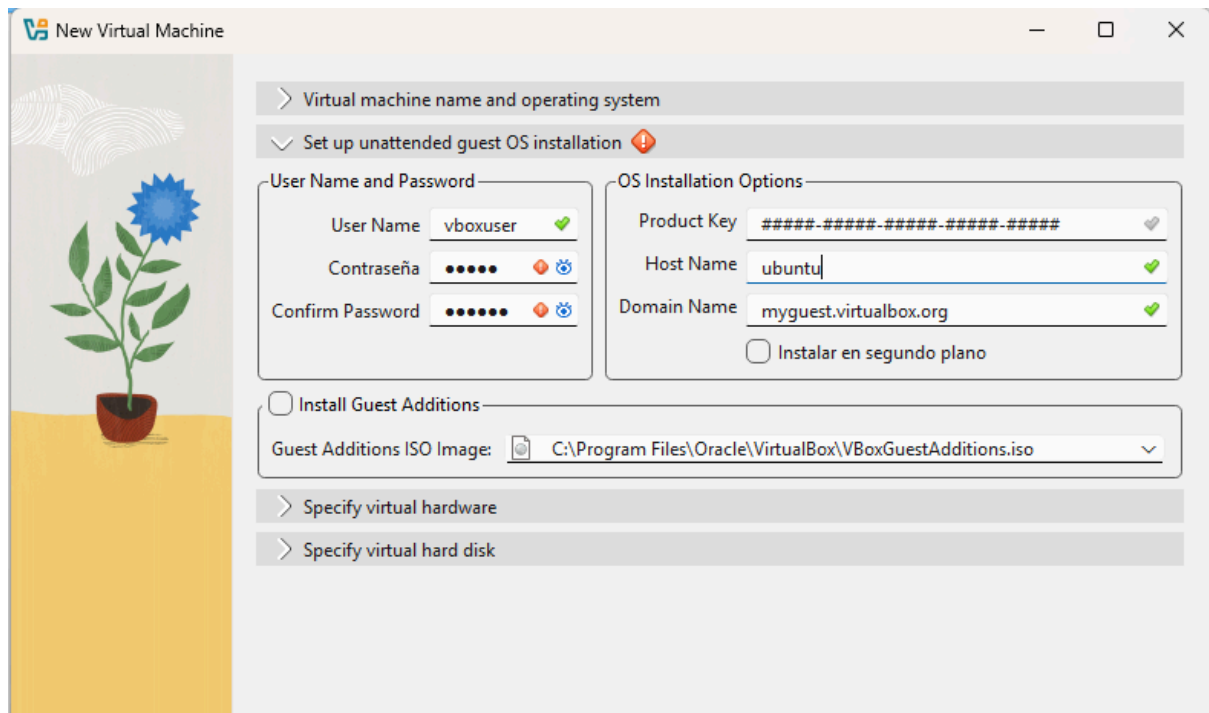


El primer paso para descargar ubuntu es descargar la iso para posteriormente armar la maquina en virtualbox



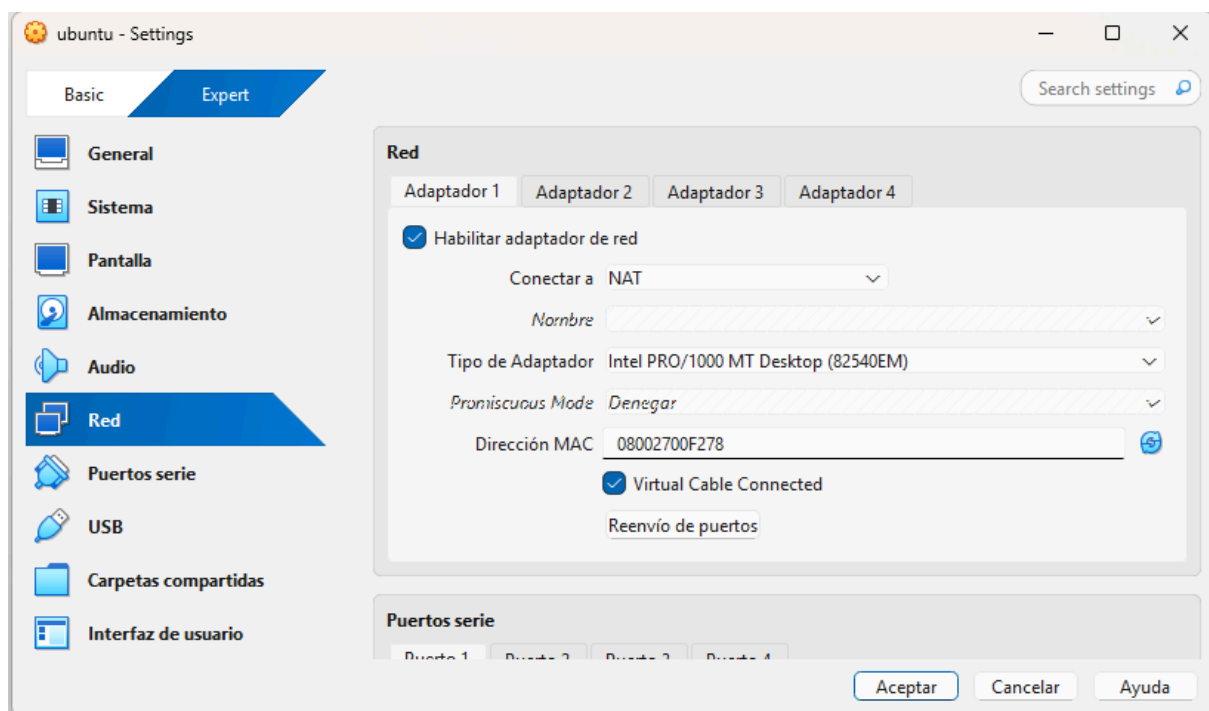
una vez en la máquina creas una nueva y le metes la iso de ubuntu y seleccionas el sistema operativo que queremos y las contraseñas





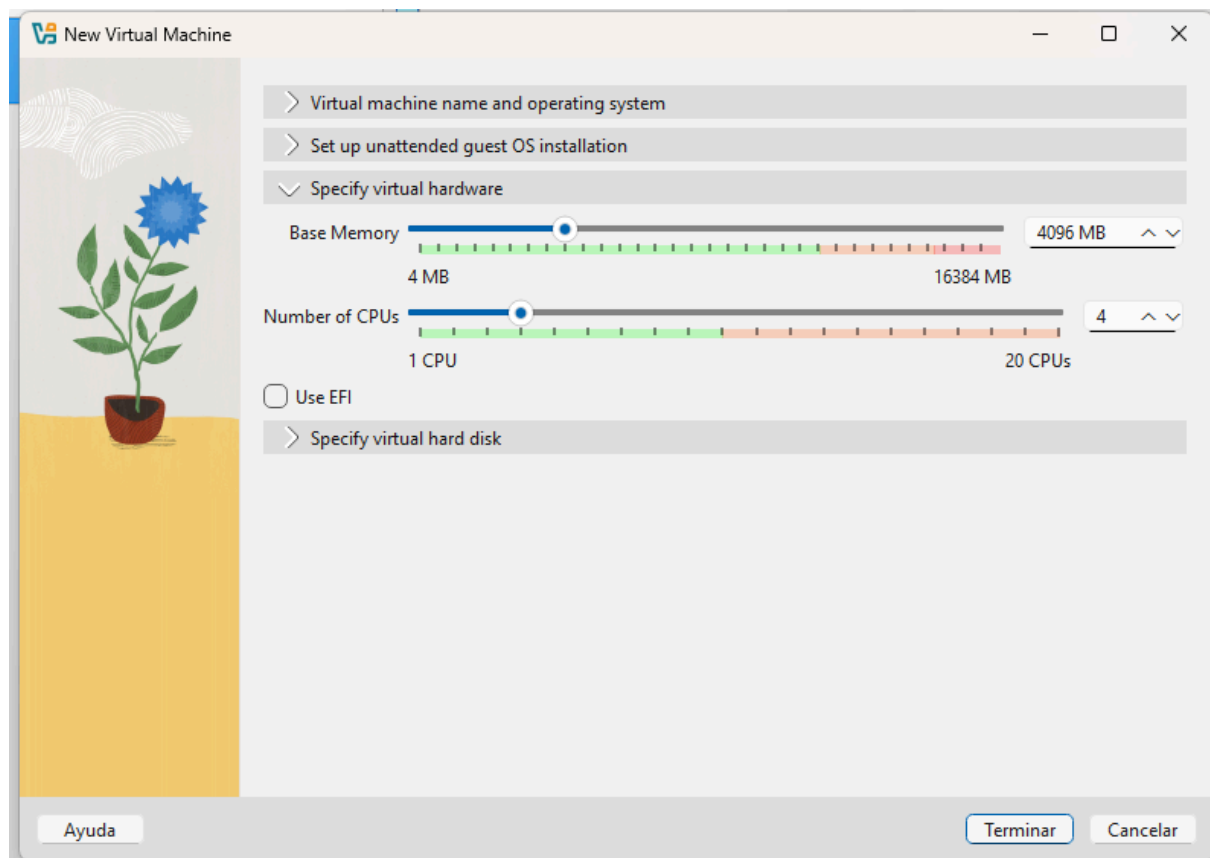
RED

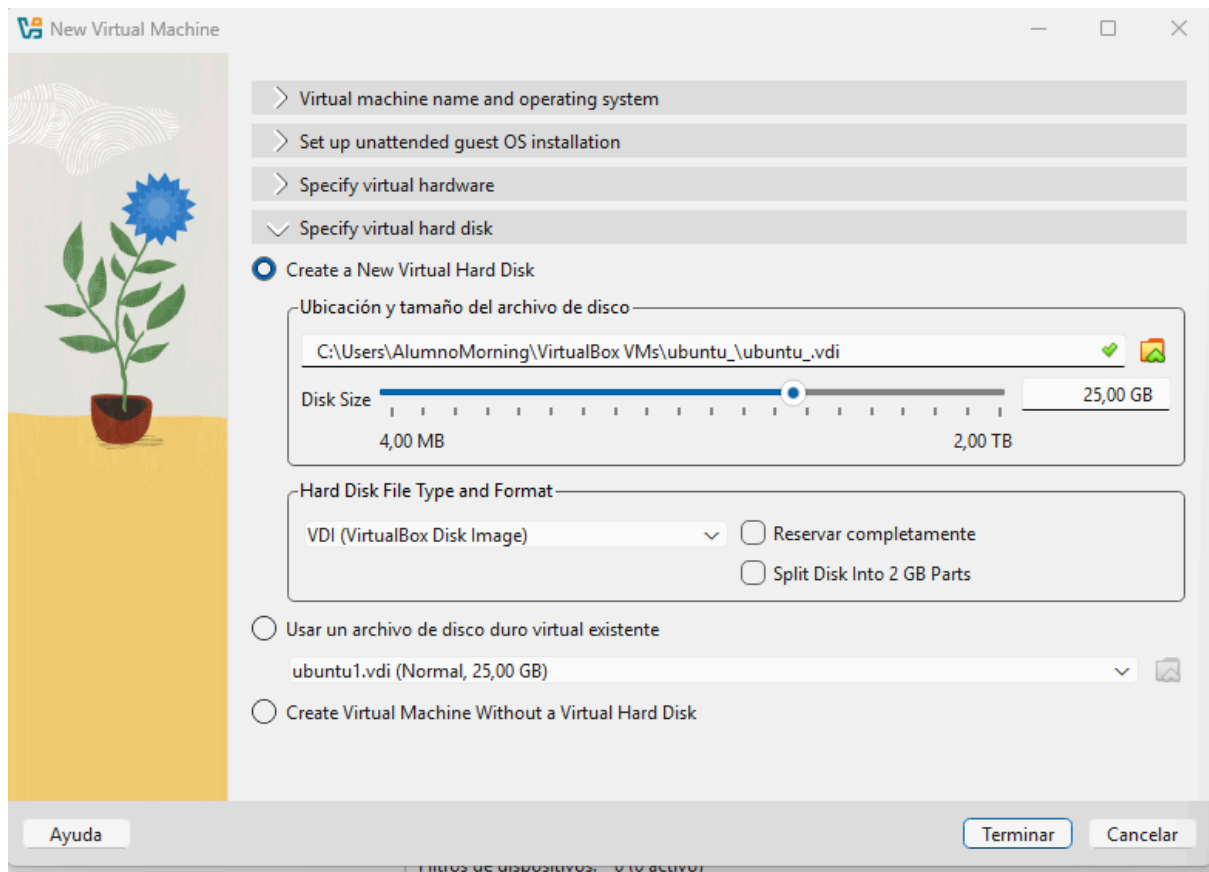
Tenemos una red tipo NAT permite que múltiples dispositivos de una red privada compartan una única dirección IP pública, funcionando como un traductor entre direcciones IP internas no enrutables y direcciones IP externas que sí pueden enrutar en Internet.



Almacenamiento

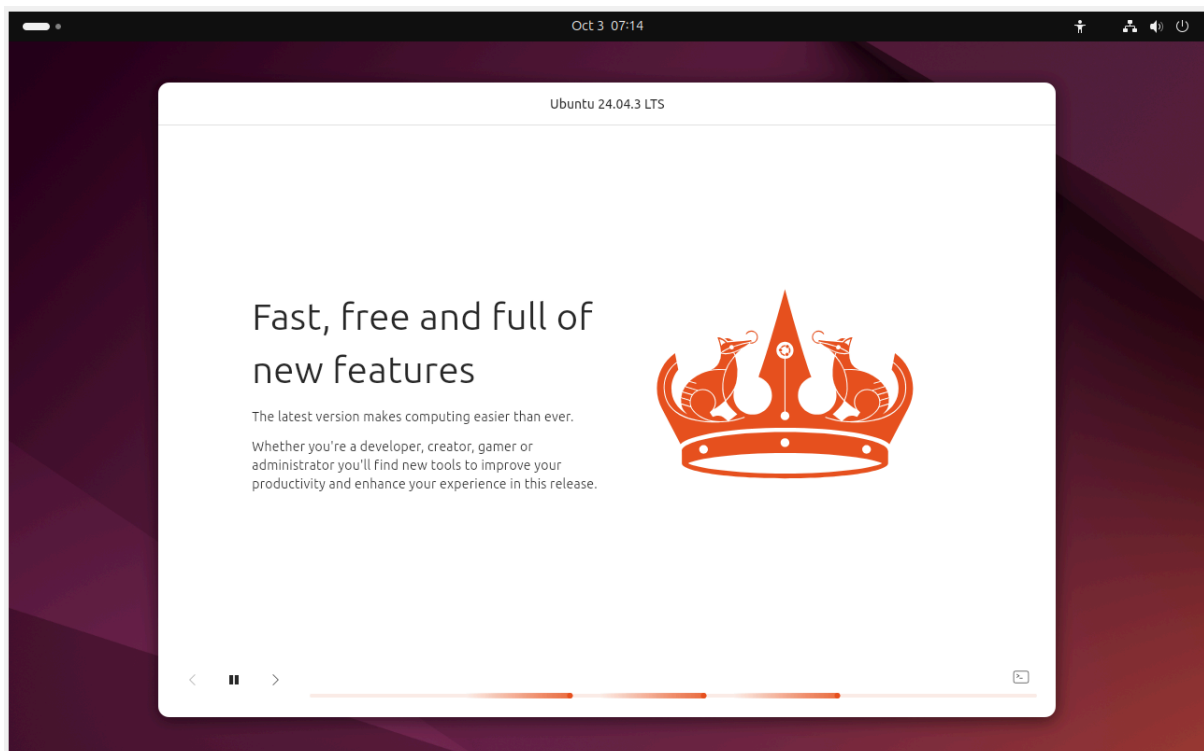
Usaremos 4096 MB y 4 CPU de almacenamiento para esta maquina y 25 GB de Disk Size

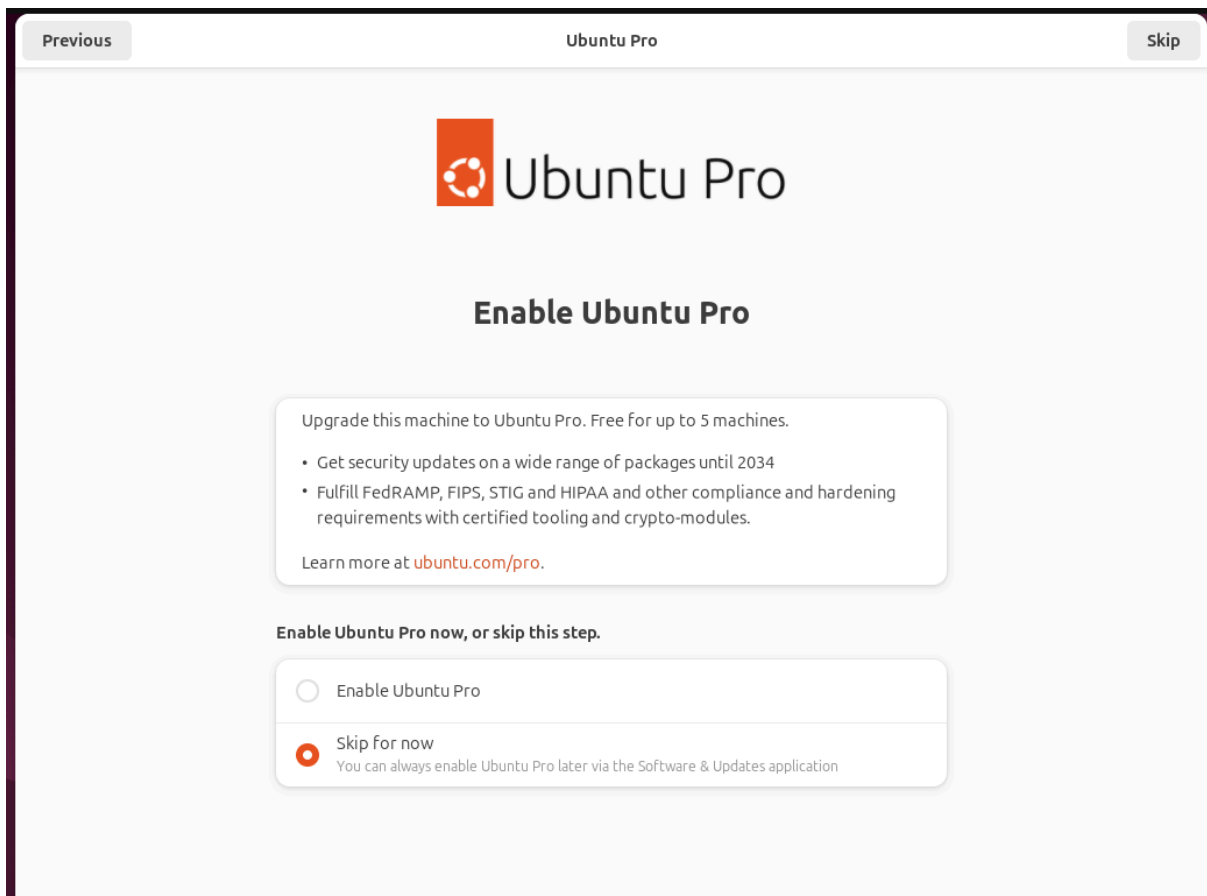




Instalación

una vez realizamos estos pasos ya está lista para instalar





Una vez aqui reiniciamos la maquina y antes de iniciarla nos sale toda la configuracion

General Nombre: ubuntu Sistema operativo: Ubuntu (64-bit)	Previsualización 
Sistema Memoria base: 4096 MB Procesadores: 4 Orden de arranque: Disco duro, Óptica, Disquete Aceleración: Paginación anidada, Paravirtualización KVM	
Pantalla Memoria de vídeo: 16 MB Controlador gráfico: VMSVGA Servidor de escritorio remoto: Inhabilitado Grabación: Inhabilitado	
Almacenamiento Controlador: IDE Dispositivo IDE primario 0: [Unidad óptica] Vacío Controlador: SATA Puerto SATA 0: ubuntu_.vdi (Normal, 25,00 GB)	
Audio Controlador de anfitrión: Predeterminado Controlador: ICH AC97	
Red Adaptador 1: Intel PRO/1000 MT Desktop (NAT)	
USB Controlador USB: OHCI, EHCI Filtros de dispositivos: 0 (0 activo)	
Carpetas compartidas Ninguno	
Descripción Ninguno	

Comandos

Actualizamos para empezar a instalar apache.

```
Oct 3 07:40
root@ubuntu2: /home/vboxuser/Desktop
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

vboxuser@ubuntu2:~/Desktop$ sudo su
[sudo] password for vboxuser:
Sorry, try again.
[sudo] password for vboxuser:
Sorry, try again.
[sudo] password for vboxuser:
root@ubuntu2:/home/vboxuser/Desktop# sudo apt update && sudo apt upgrade /y
Hit:1 http://es.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://es.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://es.archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
65 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
```

Apache

```
root@ubuntu2:/home/vboxuser/Desktop# 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.
```

este comando instala el servidor web

```

root@ubuntu2:/home/vboxuser/Desktop# 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

```

instala php y su módulo para apache

```

root@ubuntu2:/home/vboxuser/Desktop# sudo service apache2 start

```

Inicia el servidor apache

```

root@ubuntu2:/home/vboxuser/Desktop# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: >
   Active: active (running) since Fri 2025-10-03 07:45:33 UTC; 2min 30s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 11108 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
   Main PID: 11114 (apache2)
      Tasks: 6 (limit: 4603)
     Memory: 10.6M (peak: 11.2M)
        CPU: 48ms
    CGroup: /system.slice/apache2.service
            └─11114 /usr/sbin/apache2 -k start
              11118 /usr/sbin/apache2 -k start
              11119 /usr/sbin/apache2 -k start
              11120 /usr/sbin/apache2 -k start
              11121 /usr/sbin/apache2 -k start
              11122 /usr/sbin/apache2 -k start

Oct 03 07:45:33 ubuntu2 systemd[1]: Starting apache2.service - The Apache HTTP >
Oct 03 07:45:33 ubuntu2 apachectl[11113]: AH00558: apache2: Could not reliably >
Oct 03 07:45:33 ubuntu2 systemd[1]: Started apache2.service - The Apache HTTP S>
lines 1-20/20 (END)

```

comprueba que apache está funcionando


```
root@ubuntu2:/home/vboxuser/Desktop# echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php
<?php phpinfo(); ?>
```

crea un archivo que muestra informacion de php

```
root@ubuntu2:/home/vboxuser/Desktop# 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@ubuntu2:/home/vboxuser/Desktop#
```

Prueba el archivo PHP desde el terminal

```
root@ubuntu2:/home/vboxuser/Desktop# 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@ubuntu2:/home/vboxuser/Desktop# 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
Get:2 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520
Fetched 564 kB in 1s (837 kB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 150975 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/ng
Progress: [ 56%] [#####]
```

Instala el servidor web nginx

```
root@ubuntu2:/home/vboxuser/Desktop# service apache2 stop
root@ubuntu2:/home/vboxuser/Desktop# sudo service nginx start
root@ubuntu2:/home/vboxuser/Desktop#
```

Paro el servidor ya que no pueden haber dos levantados al mismo tiempo y despues inicio el siguiente

```

root@ubuntu2:/home/vboxuser/Desktop# 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 07:58:54 UTC; 1min 23s ago
     Docs: man:nginx(8)
  Process: 11870 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Process: 11871 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 11873 (nginx)
    Tasks: 5 (limit: 4603)
   Memory: 3.7M (peak: 4.7M)
      CPU: 14ms
   CGroup: /system.slice/nginx.service
           └─11873 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─11874 "nginx: worker process"
               └─11875 "nginx: worker process"
                 └─11876 "nginx: worker process"
                   └─11877 "nginx: worker process"

Oct 03 07:58:54 ubuntu2 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server: /usr/sbin/nginx.
Oct 03 07:58:54 ubuntu2 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server: /usr/sbin/nginx.
root@ubuntu2:/home/vboxuser/Desktop#

```

este comando comprueba que nginx este funcionando

```

root@ubuntu2:/home/vboxuser/Desktop# echo "<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>" |
do tee /var/www/html/index.html
<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>
root@ubuntu2:/home/vboxuser/Desktop#

```

aqui creo una pagina html simple

```

root@ubuntu2:/home/vboxuser/Desktop# curl http://localhost
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@ubuntu2:/home/vboxuser/Desktop#

```

prueba la pagina html desde la terminal

```

root@ubuntu2:/home/vboxuser/Desktop# ip -brief addr show
lo                UNKNOWN        127.0.0.1/8 ::1/128
enp0s3            UP             10.0.2.15/24 fd17:625c:f037:2:1d78:e51e:f941:d25c/64 fd17:625c:f037:2:a000:
/64 fe80::a00:27ff:fe0f:c596/64
root@ubuntu2:/home/vboxuser/Desktop#

```