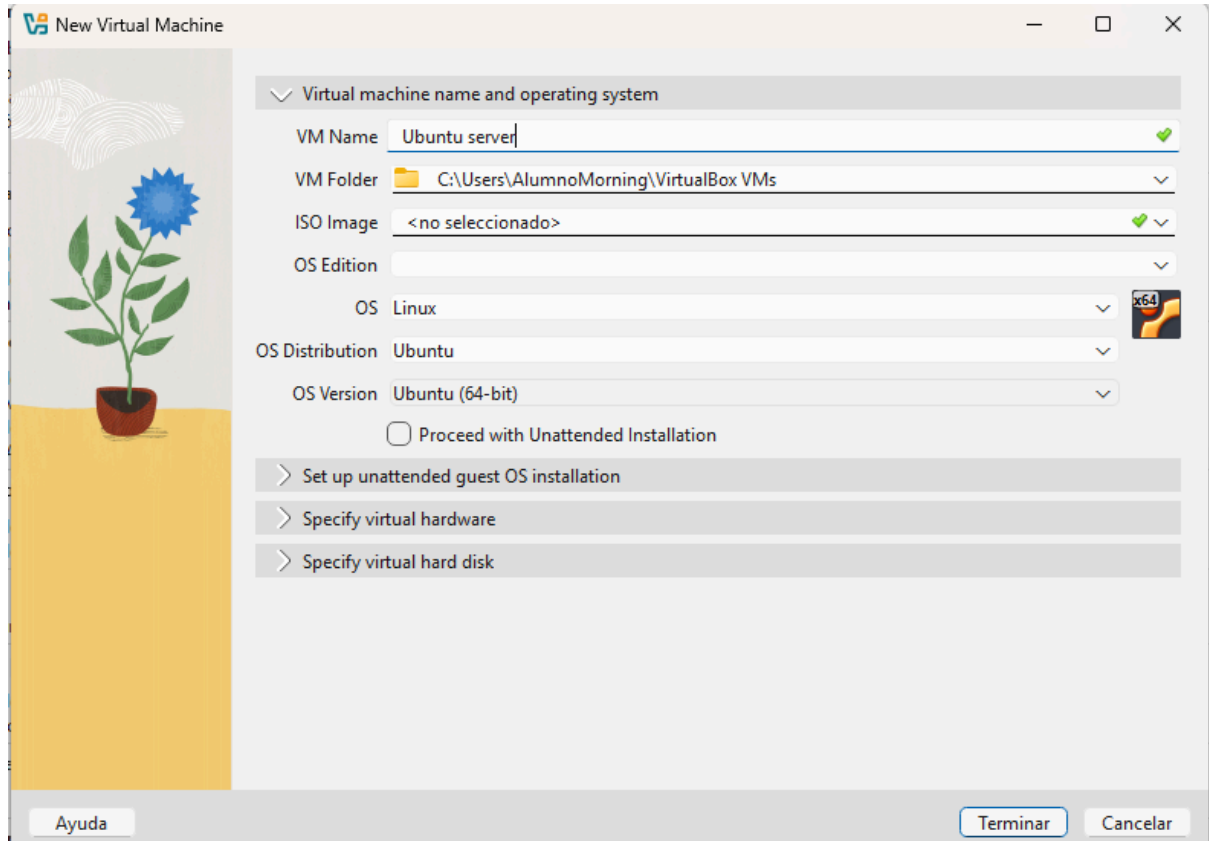
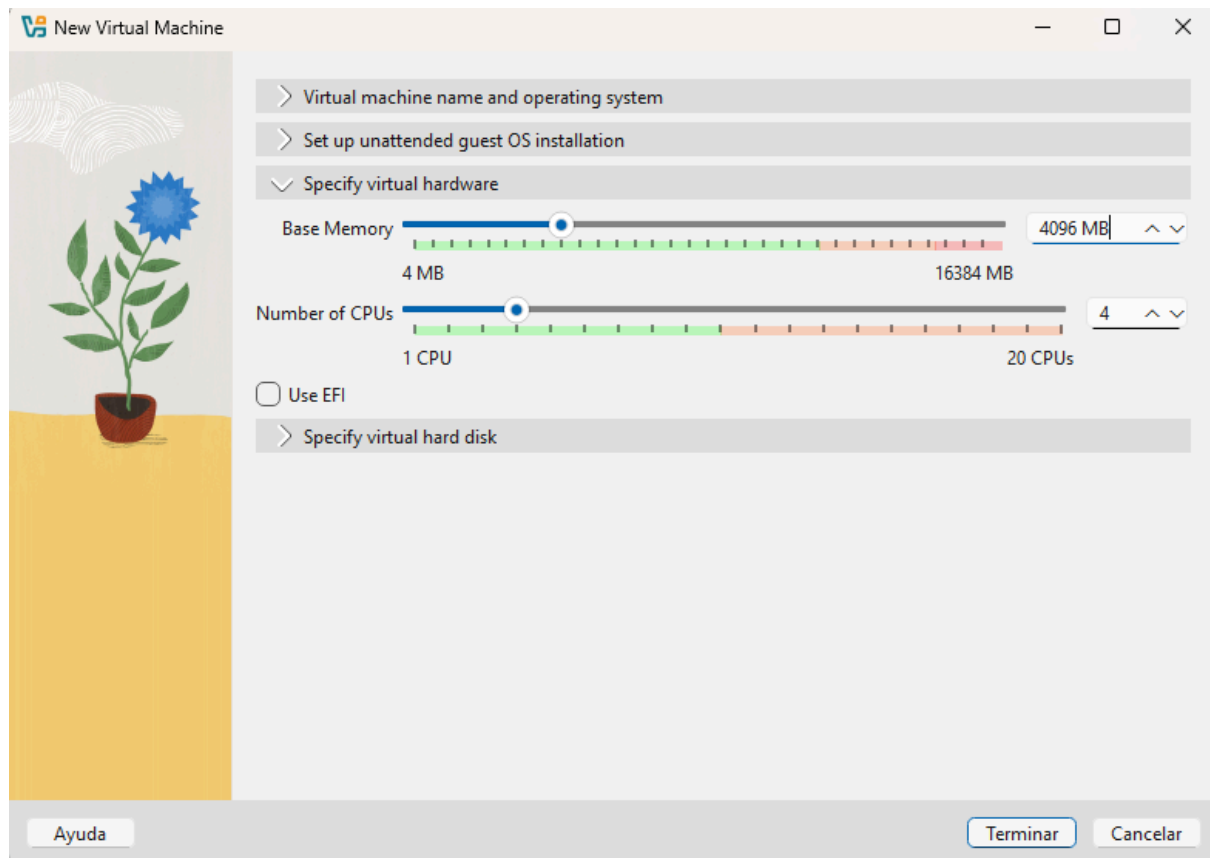


Parte 1: Apache + PHP

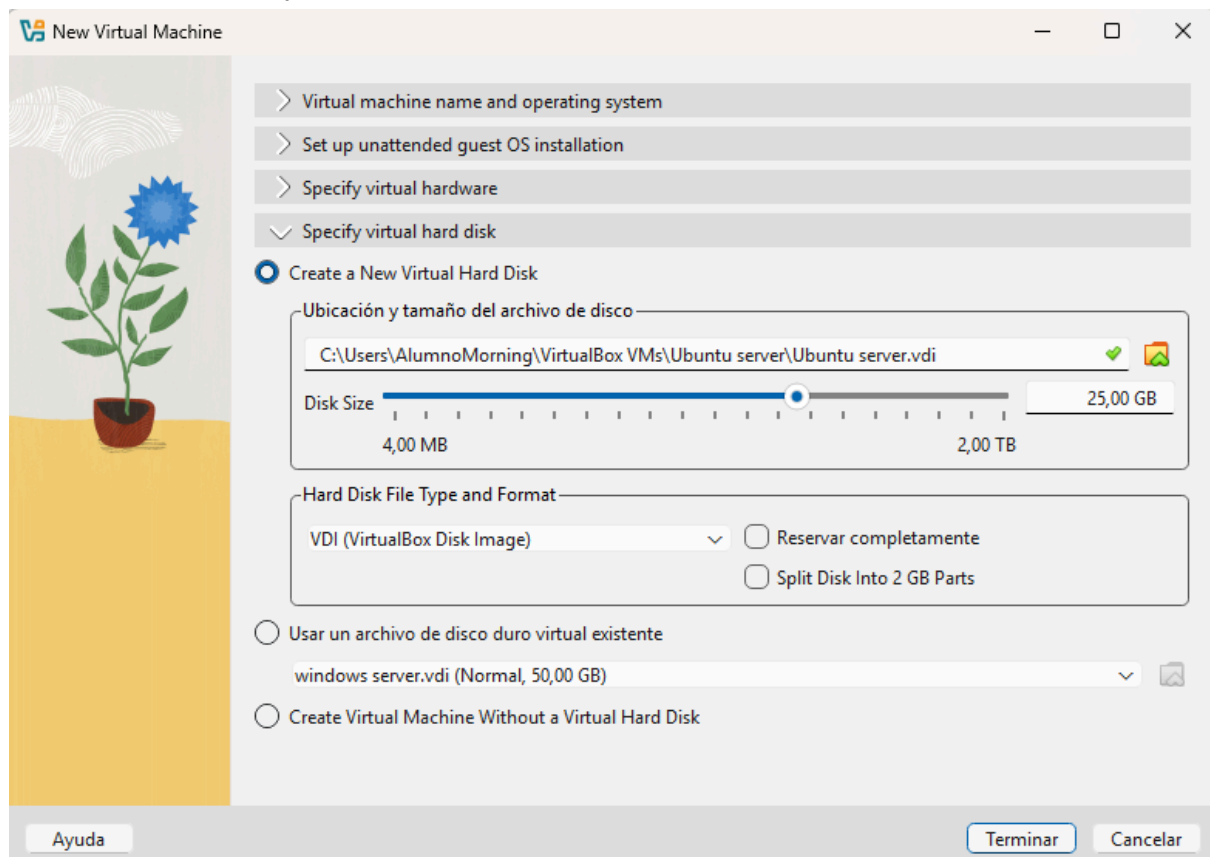
Capturas instalación y configuración



Elección de iso y nombre de la máquina



eleccion de memoria y número de procesadores



Eleccion del tamaño del disco

New Virtual Machine

> Virtual machine name and operating system

Set up unattended guest OS installation

User Name and Password

User Name: ApoloUser ✓

Contraseña: a1234 ✓

Confirm Password: a1234 ✓

OS Installation Options

Product Key: #####-#####-#####-#####-##### ✓

Host Name: UbuntuApolo ✓

Domain Name: myguest.virtualbox.org ✓

☐ Instalar en segundo plano

☐ Install Guest Additions

Guest Additions ISO Image: C:\Program Files\Oracle\VirtualBox\VBBoxGuestAdditions.iso

> Specify virtual hardware

> Specify virtual hard disk

Ayuda Terminar Cancelar

Elecciones nombre de usuario y contraseña

GNU GRUB version 2.12

*Try or Install Ubuntu

Ubuntu (safe graphics)

Test memory

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands
before booting or 'c' for a command-line.
The highlighted entry will be executed automatically in 1s.

Darle al enter para instalar ubuntu



Enable Ubuntu Pro

Upgrade this machine to Ubuntu Pro. Free for up to 5 machines.

- Get security updates on a wide range of packages until 2034
- Fulfill FedRAMP, FIPS, STIG and HIPAA and other compliance and hardening requirements with certified tooling and crypto-modules.

Learn more at ubuntu.com/pro.

Enable Ubuntu Pro now, or skip this step.



Enable Ubuntu Pro



Skip for now

You can always enable Ubuntu Pro later via the Software & Updates application

Elección de la versión de ubuntu

[Previous](#)

Help improve Ubuntu

[Next](#)

Help improve Ubuntu

Help us improve Ubuntu by sharing your system data with us. This includes things like your machine model, installed software and the location you chose for your timezone.

☒ Yes, share system data with the Ubuntu team

☐ No, don't share system data

[Show the First Report](#)[Legal notice](#)

Capturas de systemctl status apache2

```
root@Ubuntu:/home/apolouser# sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.58-1ubuntu8.8).
apache2 set to manually installed.
The following packages were automatically installed and are no longer required:
  liblvm19 linux-headers-6.14.0-29-generic linux-hwe-6.14-headers-6.14.0-29
  linux-hwe-6.14-tools-6.14.0-29 linux-image-6.14.0-29-generic
  linux-modules-6.14.0-29-generic linux-modules-extra-6.14.0-29-generic
  linux-tools-6.14.0-29-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
root@Ubuntu:/home/apolouser#
```

Instalar apache2

```

root@Ubuntu:/home/apolouser# sudo apt install php libapache2-mod-php -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libapache2-mod-php is already the newest version (2:8.3+93ubuntu2).
libapache2-mod-php set to manually installed.
The following packages were automatically installed and are no longer required:
  libllvm19 linux-headers-6.14.0-29-generic linux-hwe-6.14-headers-6.14.0-29
  linux-hwe-6.14-tools-6.14.0-29 linux-image-6.14.0-29-generic
  linux-modules-6.14.0-29-generic linux-modules-extra-6.14.0-29-generic
  linux-tools-6.14.0-29-generic
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  php php8.3
0 upgraded, 2 newly installed, 0 to remove and 1 not upgraded.
Need to get 13,2 kB of archives.
After this operation, 74,8 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3 all 8.
3.6-0ubuntu0.24.04.5 [9.174 B]
Get:2 http://es.archive.ubuntu.com/ubuntu noble/main amd64 php all 2:8.3+93ubunt
u2 [4.076 B]
Fetched 13,2 kB in 0s (120 kB/s)
Selecting previously unselected package php8.3.
(Reading database ... 232782 files and directories currently installed.)

```

Instalacion de php

```

root@Ubuntu:/home/apolouser# sudo service apache2 start
root@Ubuntu:/home/apolouser#

```

Iniciar el apache

```

● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-10-03 07:39:09 UTC; 3min 4s ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 1132 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 1206 (apache2)
    Tasks: 6 (limit: 4603)
   Memory: 17.1M (peak: 17.7M)
      CPU: 137ms
   CGroup: /system.slice/apache2.service
           └─1206 /usr/sbin/apache2 -k start
             └─1211 /usr/sbin/apache2 -k start
               └─1212 /usr/sbin/apache2 -k start
                 └─1213 /usr/sbin/apache2 -k start
                   └─1214 /usr/sbin/apache2 -k start
                     └─1215 /usr/sbin/apache2 -k start

oct 03 07:39:09 Ubuntu systemd[1]: Starting apache2.service - The Apache HTTP Server...
oct 03 07:39:09 Ubuntu apachectl[1177]: AH00558: apache2: Could not reliably determine
oct 03 07:39:09 Ubuntu systemd[1]: Started apache2.service - The Apache HTTP Server.
~
~

```

Revisar si está activo

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

crear un archivo para el php

```
root@Ubuntu:/home/apolouser# 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;}
```

El enlace del local host te lleva a la página del servicio

Captura de página info.php funcionando

PHP Version 8.3.6	
	
System	Linux ubuntu 6.14.0-29-generic #29~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Aug 14 16:52:50 UTC 2 x86_64
Build Date	Jul 14 2025 18:30:55
Build System	Linux
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.3/apache2
Loaded Configuration File	/etc/php/8.3/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/8.3/apache2/conf.d
Additional .ini files parsed	/etc/php/8.3/apache2/conf.d/10-mysqld.ini, /etc/php/8.3/apache2/conf.d/10-opcache.ini, /etc/php/8.3/apache2/conf.d/10-pdo.ini, /etc/php/8.3/apache2/conf.d/15-xml.ini, /etc/php/8.3/apache2/conf.d/20-bcmath.ini, /etc/php/8.3/apache2/conf.d/20-calendar.ini, /etc/php/8.3/apache2/conf.d/20-ctype.ini, /etc/php/8.3/apache2/conf.d/20-curl.ini, /etc/php/8.3/apache2/conf.d/20-dom.ini, /etc/php/8.3/apache2/conf.d/20-exif.ini, /etc/php/8.3/apache2/conf.d/20-ffi.ini, /etc/php/8.3/apache2/conf.d/20-fileinfo.ini, /etc/php/8.3/apache2/conf.d/20-ftp.ini, /etc/php/8.3/apache2/conf.d/20-gd.ini, /etc/php/8.3/apache2/conf.d/20-gettext.ini, /etc/php/8.3/apache2/conf.d/20-iconv.ini, /etc/php/8.3/apache2/conf.d/20-ldap.ini, /etc/php/8.3/apache2/conf.d/20-mbstring.ini, /etc/php/8.3/apache2/conf.d/20-mysqli.ini, /etc/php/8.3/apache2/conf.d/20-pdo_mysql.ini, /etc/php/8.3/apache2/conf.d/20-phar.ini, /etc/php/8.3/apache2/conf.d/20-posix.ini, /etc/php/8.3/apache2/conf.d/20-readline.ini, /etc/php/8.3/apache2/conf.d/20-shmop.ini, /etc/php/8.3/apache2/conf.d/20-simplexml.ini, /etc/php/8.3/apache2/conf.d/20-sockets.ini, /etc/php/8.3/apache2/conf.d/20-sysvmsg.ini, /etc/php/8.3/apache2/conf.d/20-sysvsem.ini, /etc/php/8.3/apache2/conf.d/20-sysvshm.ini, /etc/php/8.3/apache2/conf.d/20-tokenizer.ini, /etc/php/8.3/apache2/conf.d/20-xmlreader.ini, /etc/php/8.3/apache2/conf.d/20-xmlwriter.ini, /etc/php/8.3/apache2/conf.d/20-xsl.ini
PHP API	20230831
PHP Extension	20230831
Zend Extension	420230831
Zend Extension Build	API420230831,NTS

Parte 2: Nginx + HTML

Capturas de systemctl status nginx

```
root@Ubuntu:/home/apolouser# sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
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 1 not upgraded.
Need to get 564 kB of archives.
```

Instalar nginx

```
root@Ubuntu:/home/apolouser# sudo service nginx start
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
root@Ubuntu:/home/apolouser#
```

Intento de iniciar nginx

```
root@Ubuntu:/home/apolouser# service apache2 stop
root@Ubuntu:/home/apolouser# sudo service nginx start
```

Primero paramos el servicio apache y después iniciar correctamente el nginx

```
root@Ubuntu:/home/apolouser# 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 07:56:29 UTC; 4s ago
     Docs: man:nginx(8)
   Process: 5901 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; >
   Process: 5903 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exi>
  Main PID: 5904 (nginx)
    Tasks: 5 (limit: 4603)
   Memory: 3.7M (peak: 4.4M)
      CPU: 15ms
   CGroup: /system.slice/nginx.service
           └─5904 "nginx: master process /usr/sbin/nginx -g daemon on; master_proces>
             └─5905 "nginx: worker process"
               └─5906 "nginx: worker process"
                 └─5907 "nginx: worker process"
                   └─5908 "nginx: worker process"

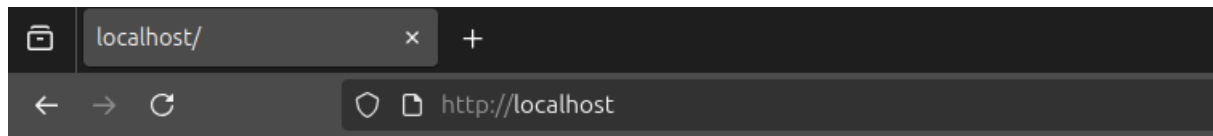
oct 03 07:56:29 Ubuntu systemd[1]: Starting nginx.service - A high performance web ser>
oct 03 07:56:29 Ubuntu systemd[1]: Started nginx.service - A high performance web serv>
```

comprobar que el nginx esta activo


```
root@Ubuntu:/home/apolouser# echo "<h1>Hola Mundo desde Nginx</h1><p>Servisor funciona  
do correctamente</p>" | sudo tee /var/www/html/index.html  
<h1>Hola Mundo desde Nginx</h1><p>Servisor funcionando correctamente</p>  
root@Ubuntu:/home/apolouser#
```

Crear mensaje dentro de la pagina

Captura de página html funcionando



Hola Mundo desde Nginx

Servisor funcionando correctamente