

## 1. Configuración de Ubuntu en VB

New Virtual Machine

### Virtual machine name and operating system

The ISO image is used to install the operating system on the VM.

VM Name:

VM Folder:

ISO Image:


OS Edition:

OS:

OS Distribution:

OS Version:

☒ Proceed with Unattended Installation

 Tipo de SO detectado: Ubuntu (64-bit). VirtualBox will install the OS using an unattended installation when the VM is created. Supply the required information in the following steps.

Ayuda Anterior Siguiente Cancelar

New Virtual Machine

### Set up unattended guest OS installation

Enter the information that will be required when the OS is installed.

User Name and Password

User Name:

Contraseña:

Confirm Password:

OS Installation Options

Product Key:

Host Name:

Domain Name:

☐ Instalar en segundo plano

☐ Install Guest Additions

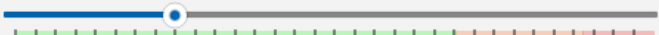
Guest Additions ISO Image:

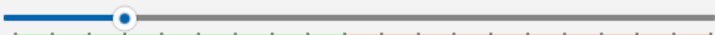
Ayuda Anterior Siguiente Cancelar


New Virtual Machine

### Specify virtual hardware

Specify the VM's hardware. Resources allocated to the VM will not be available to the host when the VM is running.

Base Memory  4096 MB ^ v

Number of CPUs  4 ^ v

Disk Size  25,00 GB

☐ Use EFI

Ayuda Anterior **Siguiente** Cancelar

New Virtual Machine

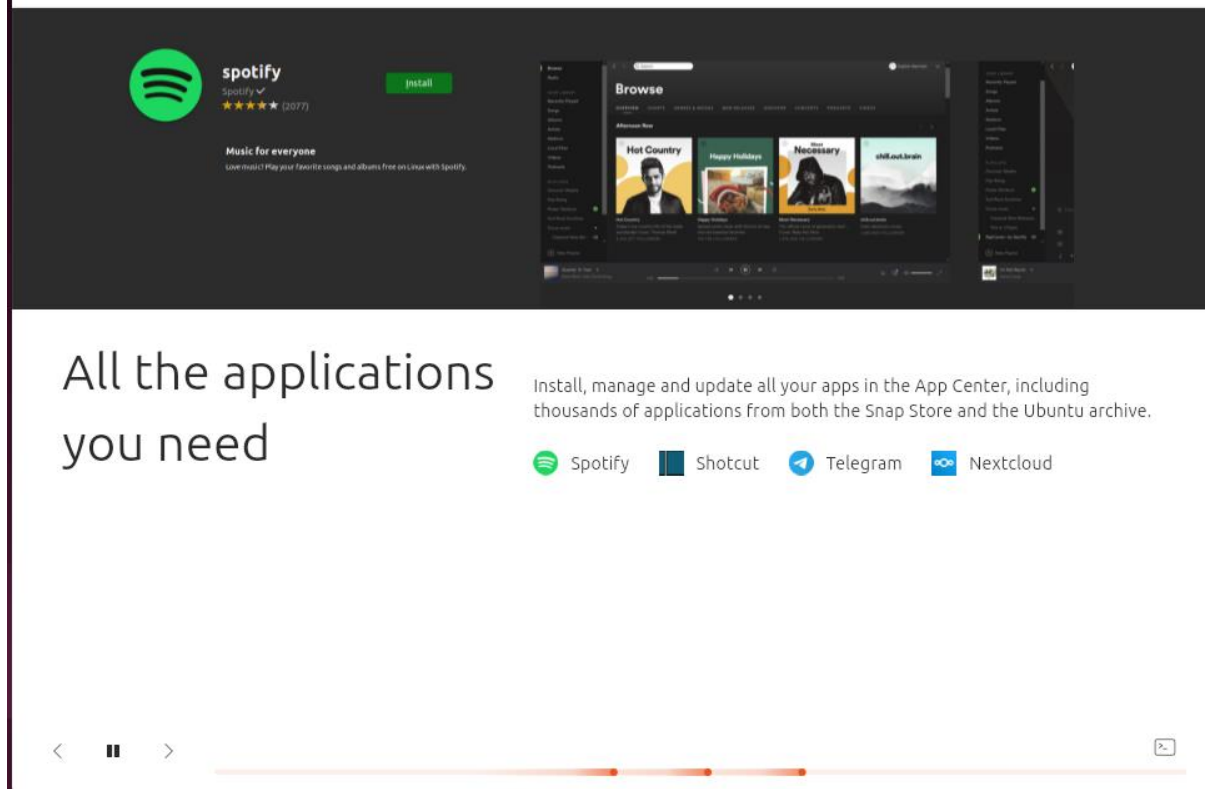
### Resumen

A new VM will be created with the following configuration.

<b>Virtual Machine Name and Operating System</b>	
Nombre VM	ubuntu 24
VM Folder	C:/Users/AlumnoMorning/VirtualBox VMs/ubuntu 24
Imagen ISO	C:/Users/AlumnoMorning/Downloads/ubuntu-24.04.3-desktop-a...
Tipo de SO invitado	Ubuntu (64-bit)
Proceed with Unattended Installation	true
<b>Unattended Installation of Guest OS</b>	
Nombre de usuario	vboxuser
Clave de producto	
Host Name/Domain Name	ubuntu.myquest.virtualbox.org
Instalar en segundo plano	false
Instalar complementos del invitado	false
<b>Virtual Hardware</b>	
Memoria base	4096

Ayuda Anterior **Terminar** Cancelar

## 2.Instalación de Ubuntu



## 1.Actualizar Sistema

```

juan@ubuntu:~$ sudo su
[sudo] password for juan:
root@ubuntu:/home/juan# apt update
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://es.archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1,201 kB]
Get:4 http://es.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [201 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]

```

## 2.Instalar apache2

```

root@ubuntu:/home/juan# 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).
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 6 not upgraded.

```

## 3.Instalar PHP

```

root@ubuntu:/home/juan# 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).
The following package was automatically installed and is no longer required:
  liblvm19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 6 not upgraded.
root@ubuntu:/home/juan# apt install php libapache2-mod-php -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
php is already the newest version (2:8.3+93ubuntu2).
libapache2-mod-php is already the newest version (2:8.3+93ubuntu2).
The following package was automatically installed and is no longer required:
  liblvm19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 6 not upgraded.

```

#### 4. Iniciar el Apache

```

root@ubuntu:/home/juan# sudo service apache2 start
root@ubuntu:/home/juan# .

```

#### 5. Ver el estado de Apache

```

root@ubuntu:/home/juan# 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 08:40:18 UTC; 59s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 23353 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
 Main PID: 23356 (apache2)
    Tasks: 6 (limit: 4604)
   Memory: 9.8M (peak: 10.1M)
      CPU: 39ms
   CGroup: /system.slice/apache2.service
           └─23356 /usr/sbin/apache2 -k start
             └─23358 /usr/sbin/apache2 -k start
               └─23359 /usr/sbin/apache2 -k start
                 └─23360 /usr/sbin/apache2 -k start
                   └─23361 /usr/sbin/apache2 -k start
                     └─23362 /usr/sbin/apache2 -k start

```

#### 6. Crear archivo PHP info

```

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

```

#### 7. Verificar en Navegador

System	Linux ubuntu 6.14.0-32-generic #32~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Tue Sep 2 14:21:04 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-opcache.ini, /etc/php/8.3/apache2/conf.d/10-pdo.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-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-gettext.ini, /etc/php/8.3/apache2/conf.d/20-iconv.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-sockets.ini, /etc/php/8.3/apache2/conf.d/20-sysmsg.ini, /etc/php/8.3/apache2/conf.d/20-syssem.ini, /etc/php/8.3/apache2/conf.d/20-sysvshm.ini, /etc/php/8.3/apache2/conf.d/20-tokenizer.ini
PHP API	20230831
PHP Extension	20230831
Zend Extension	420230831
Zend Extension Build	API420230831,NTS
PHP Extension Build	API20230831,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled

## 8.Instalar Nginx

```
root@ubuntu:/home/juan# sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx is already the newest version (1.24.0-2ubuntu7.5).
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 6 not upgraded.
root@ubuntu:/home/juan#
```

## 9.Iniciar Nginx

```
root@ubuntu:/home/juan# service nginx start
```

## 10.Ver el estado del Nginx

```

root@ubuntu:/home/juan# 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: en>
   Active: active (running) since Fri 2025-10-03 08:55:07 UTC; 27s ago
     Docs: man:nginx(8)
  Process: 25978 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_proc>
  Process: 25979 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (>
 Main PID: 25981 (nginx)
    Tasks: 4 (limit: 4604)
   Memory: 2.7M (peak: 2.8M)
      CPU: 12ms
   CGroup: /system.slice/nginx.service
           └─25981 "nginx: master process /usr/sbin/nginx -g daemon on; maste>
             └─25982 "nginx: worker process"
               └─25983 "nginx: worker process"
                 └─25984 "nginx: worker process"

Oct 03 08:55:07 ubuntu systemd[1]: Starting nginx.service - A high performance >
Oct 03 08:55:07 ubuntu systemd[1]: Started nginx.service - A high performance w>

```

## 11.Crear archivo HTML

```

root@ubuntu:/home/juan# echo "<h1>Hola Mundo desde Nginx</h1><p>Servidor funcion
ando correctamente</p>" | sudo tee /var/www/html/index.html
<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>

```

## 12.Verificar en Navegador

# Hola Mundo desde Nginx

Servidor funcionando correctamente

## 13.Ver la IP desde WSL

```

service nginx does not exist
root@ubuntu:/home/juan# ip addr show enp0s3 | grep inet
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3

```