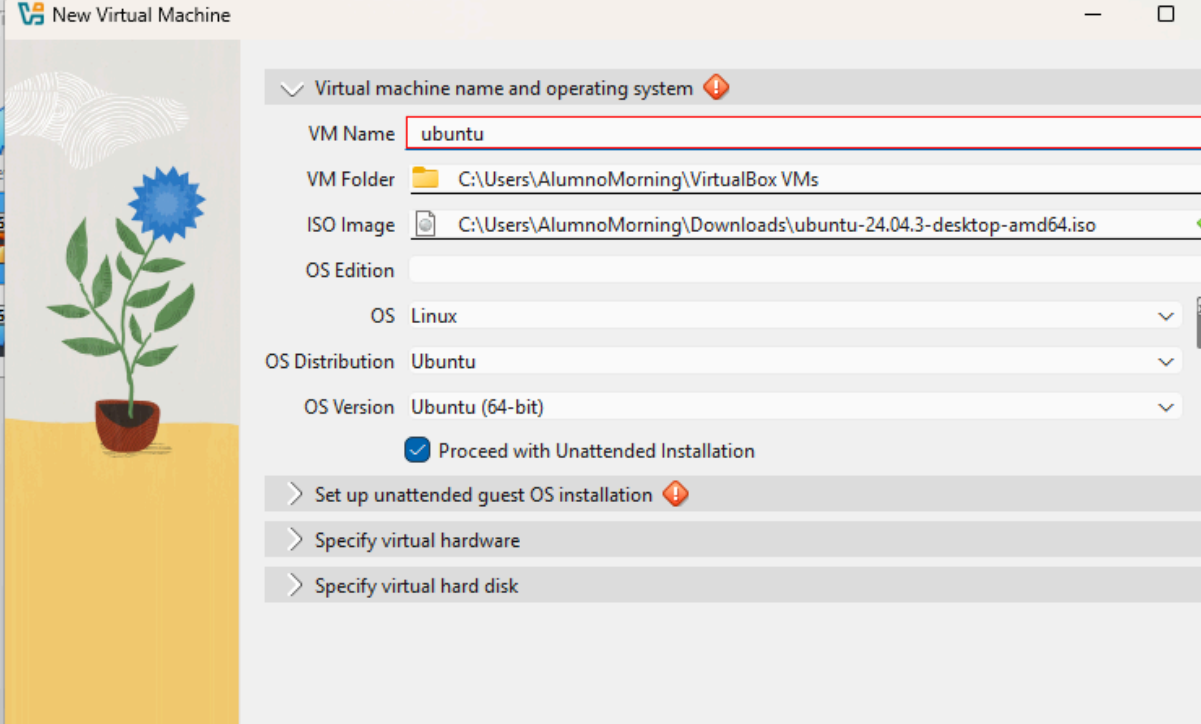


1.

Añadimos la imagen iso e introducimos el nombre de la máquina virtual



New Virtual Machine

Virtual machine name and operating system

VM Name:

VM Folder:

ISO Image:

OS Edition:

OS:

OS Distribution:

OS Version:

☒ Proceed with Unattended Installation

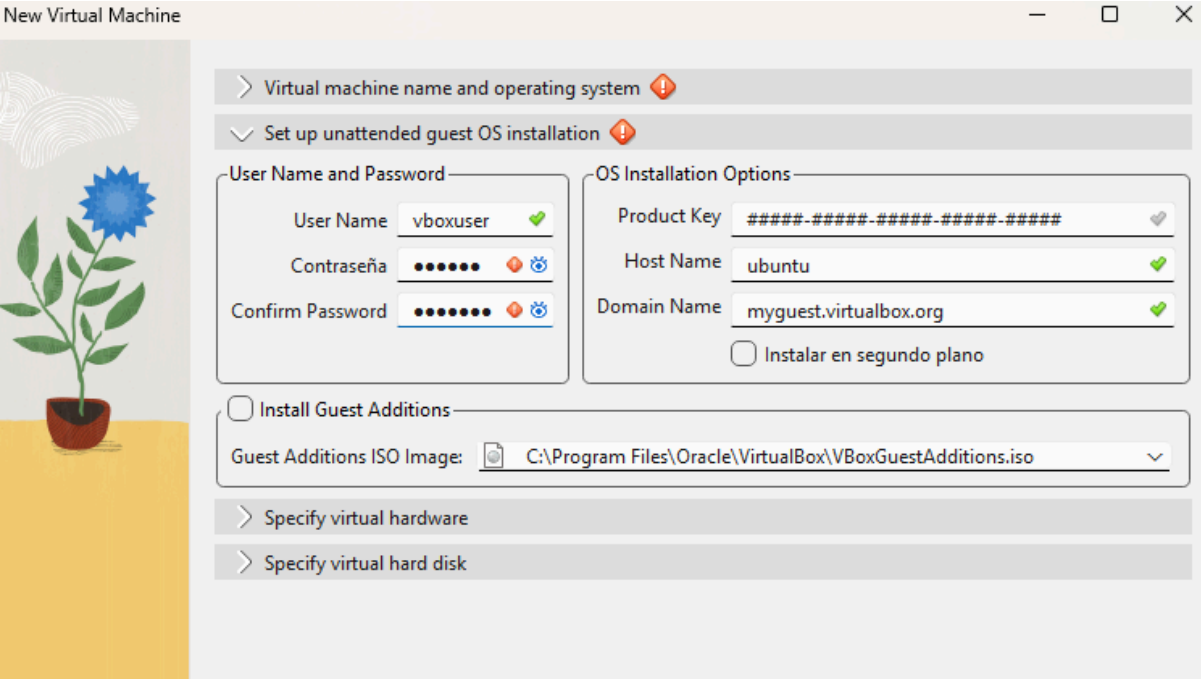
> Set up unattended guest OS installation

> Specify virtual hardware

> Specify virtual hard disk

2.

Introduces el nombre de usuario y la contraseña



New Virtual Machine

> Virtual machine name and operating system

Set up unattended guest OS installation

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

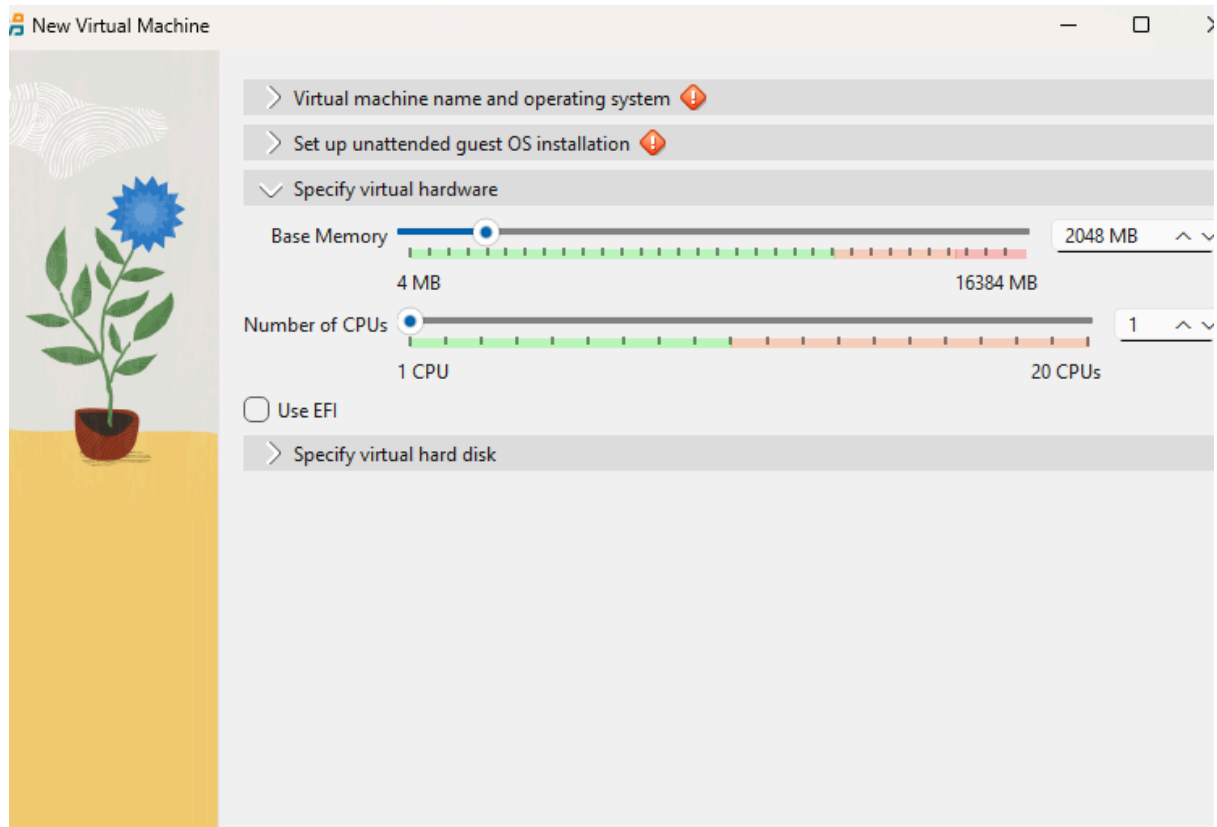
Guest Additions ISO Image:

> Specify virtual hardware

> Specify virtual hard disk

3.

Configuras los recursos que tendrá la máquina virtual, tales como la cantidad de memoria, núcleos etc...



4.

Introducimos este comando para instalar el servidor web Apache

```
vboxuser@ubuntu:~$ sudo su
[sudo] password for vboxuser:
root@ubuntu:/home/vboxuser# sudo apt install apache2 -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:
  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 13 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
```

Instalamos php y sus módulos para Apache

[illegible]

7.

Iniciamos servidor de Apache

```
root@ubuntu:/home/vboxuser# sudo service apache2 start
```

8.

Verificar estado de Apache

```
root@ubuntu:/home/vboxuser# 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 07:19:56 UTC; 8min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 16161 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
  Main PID: 16166 (apache2)
    Tasks: 6 (limit: 4604)
   Memory: 9.8M (peak: 10.1M)
      CPU: 111ms
   CGroup: /system.slice/apache2.service
           └─16166 /usr/sbin/apache2 -k start
           └─16169 /usr/sbin/apache2 -k start
```

9.

Creamos un archivo que muestre información php

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


10.

Probamos el archivo con este comando

```
root@ubuntu:/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);}
```

Y nos aparecerá la URL de la página web

PHP Version 8.3.6



| | |
|---|---|
| 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-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 |
| 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 |

COMANDOS NGINX +HTML

11.

Instalamos servidor NGINX

```
root@ubuntu:/home/vboxuser# sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
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
```

12.

Iniciamos el servidor

```
root@ubuntu:/home/vboxuser# systemctl status nginx.service
● 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 07:57:11 UTC; 10s ago
     Docs: man:nginx(8)
   Process: 18398 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 18400 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Main PID: 18401 (nginx)
    Tasks: 4 (limit: 4604)
   Memory: 2.7M (peak: 2.9M)
      CPU: 13ms
   CGroup: /system.slice/nginx.service
           └─18401 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─18402 "nginx: worker process"
               └─18403 "nginx: worker process"
                 └─18404 "nginx: worker process"

Oct 03 07:57:11 ubuntu systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server:
Oct 03 07:57:11 ubuntu systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server:
lines 1-18/18 (END)
```

13.

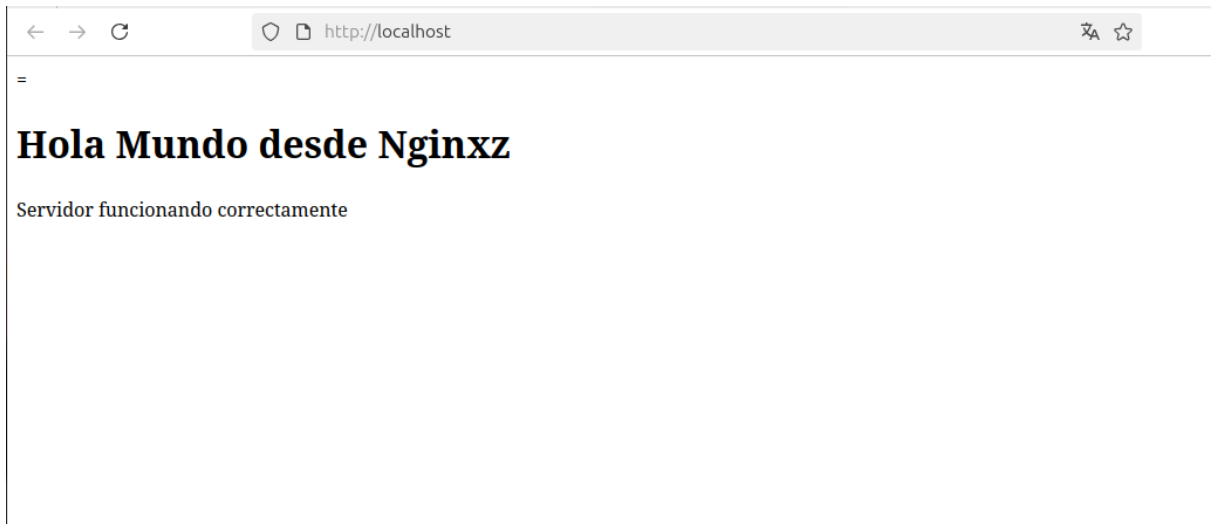
Creamos página html simple

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

14.

Probamos que la página funciona correctamente

```
root@ubuntu:/home/vboxuser# curl http://localhost
```



15.

Mostramos Ip para acceso a Windows

```
root@ubuntu:/home/vboxuser# ip addr show enp0s3 | grep inet  
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
```