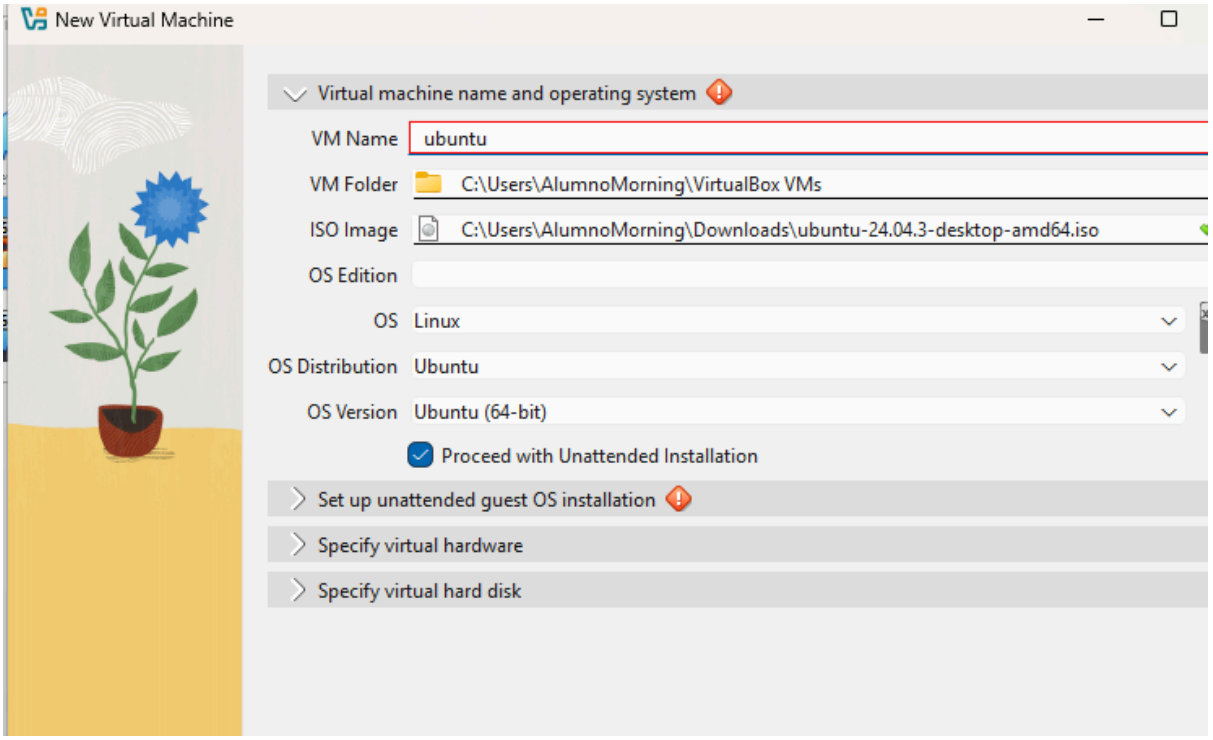
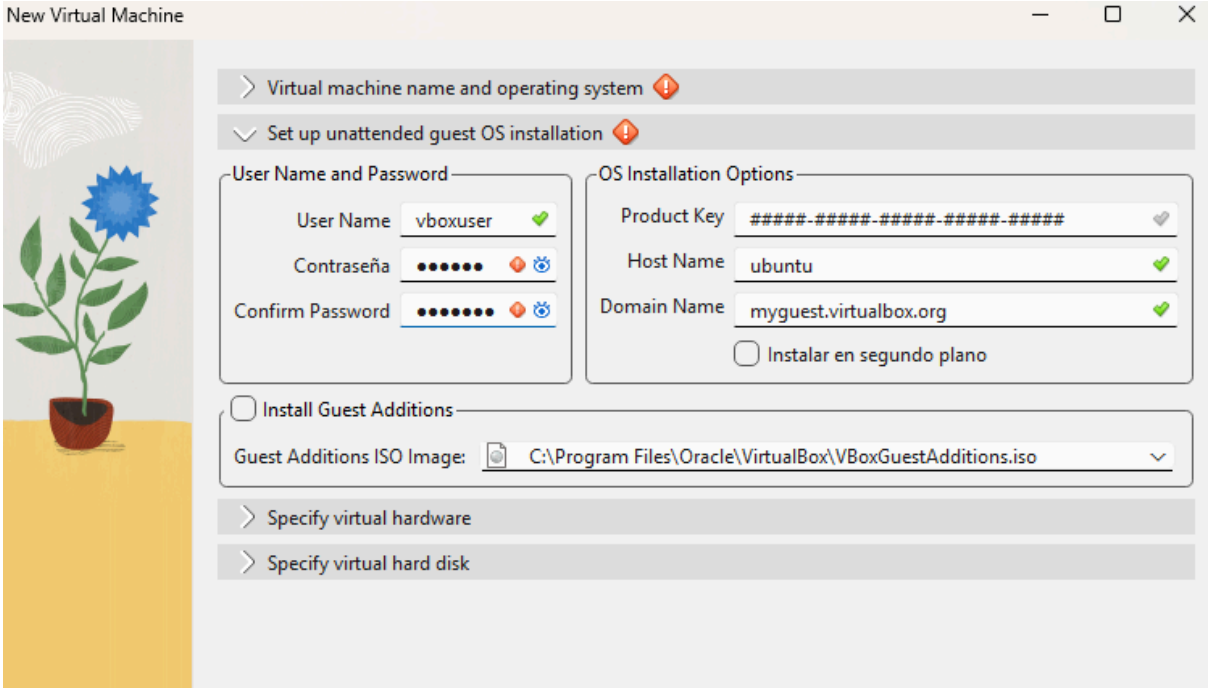
1.

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



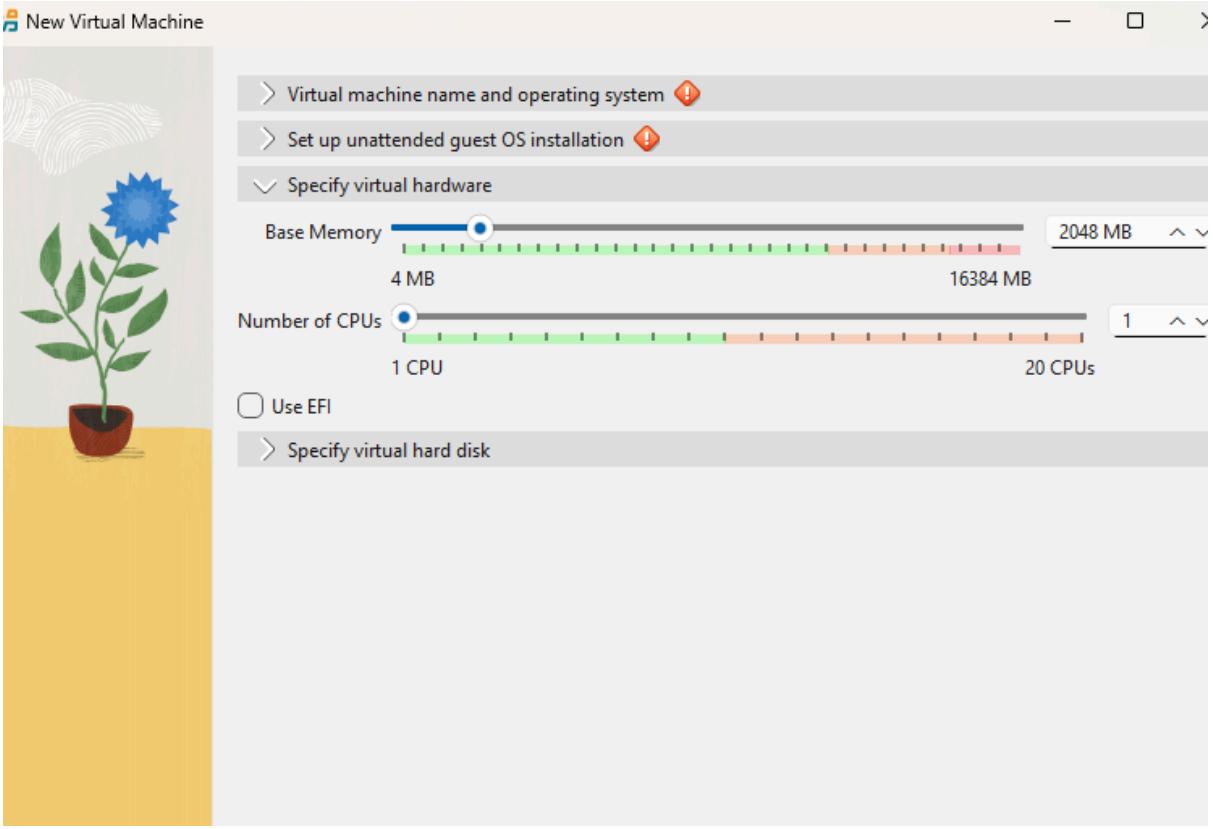
2.

Introduces el nombre de usuario y la contraseña



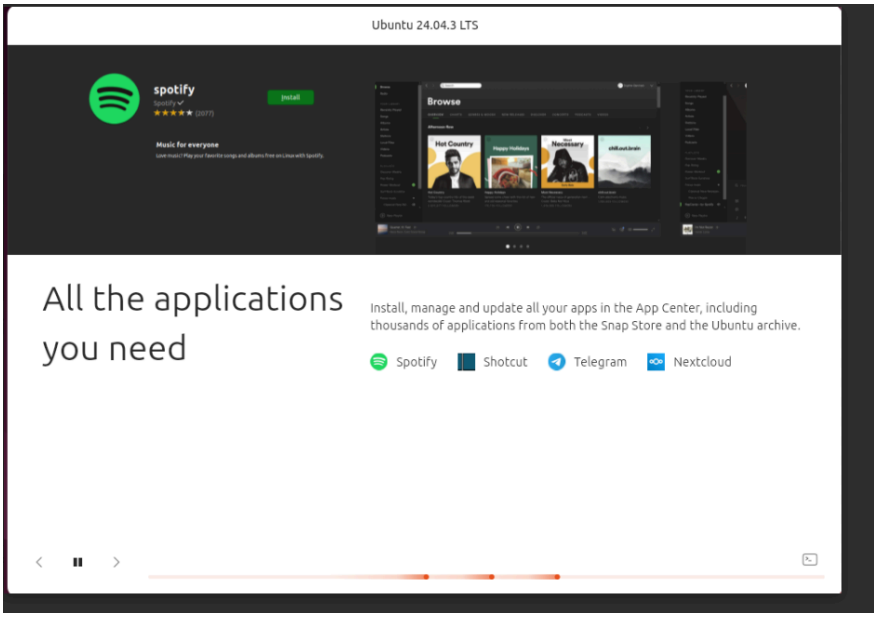
3.

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



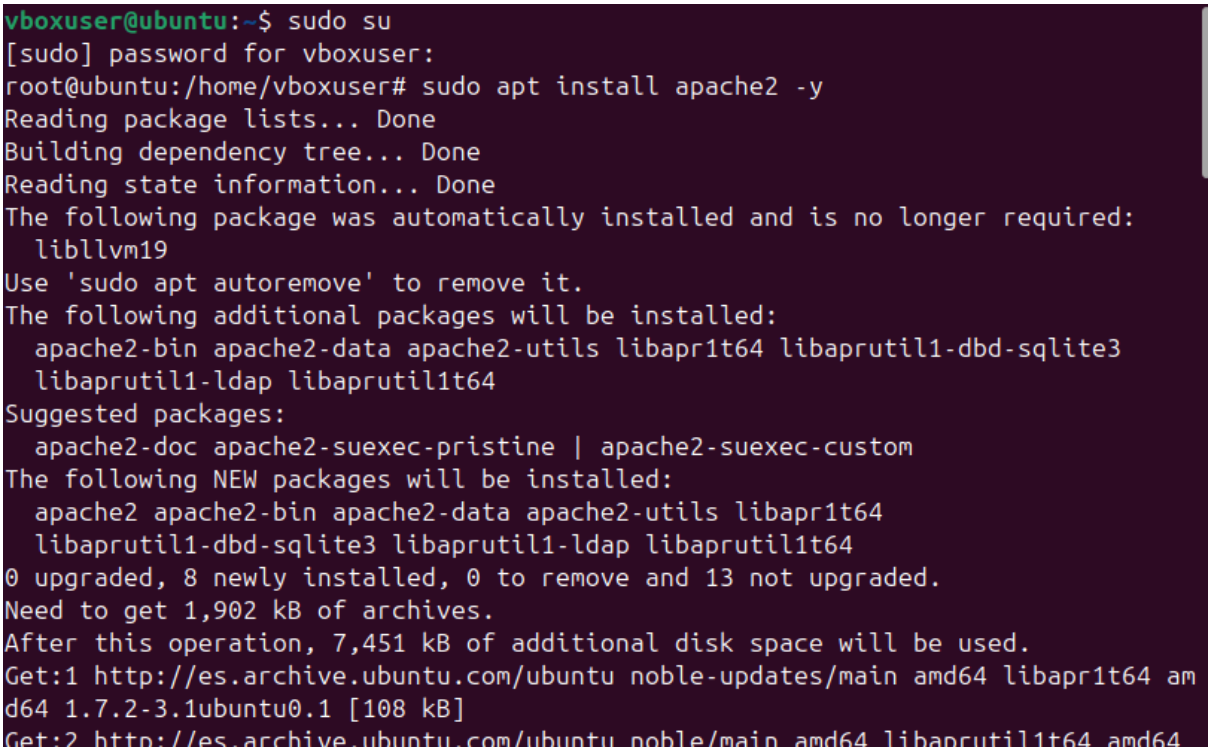
4.

Procedemos con la segunda instalación del servidor



5.

Introducimos este comando para instalar el servidor web Apache



6.

Instalamos php y sus módulos para Apache

```
Processing triggers for libc-bin (2.39-0ubuntu8.6) ...
root@ubuntu:/home/vboxuser# sudo apt install php libapache2-mod-php -y
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is he
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is he
ld by process 4235 (aptd)
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is he
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is he
ld by process 4235 (aptd)
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ld by process 4235 (aptd)
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is he
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is he
ld by process 4235 (aptd)
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontend. It is he
```

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

13.

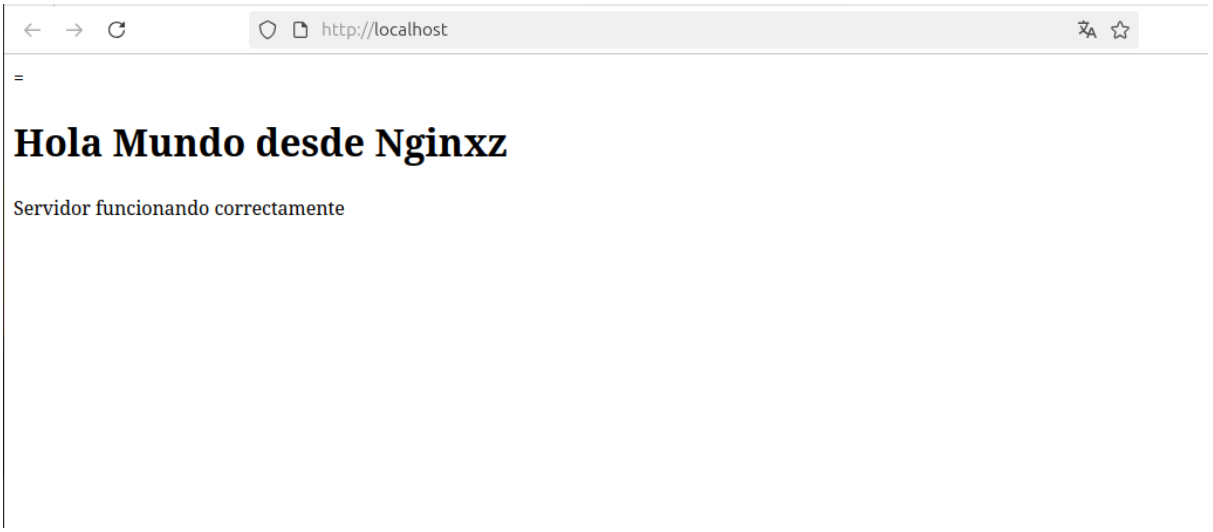
Creamos página html simple

```
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
```