

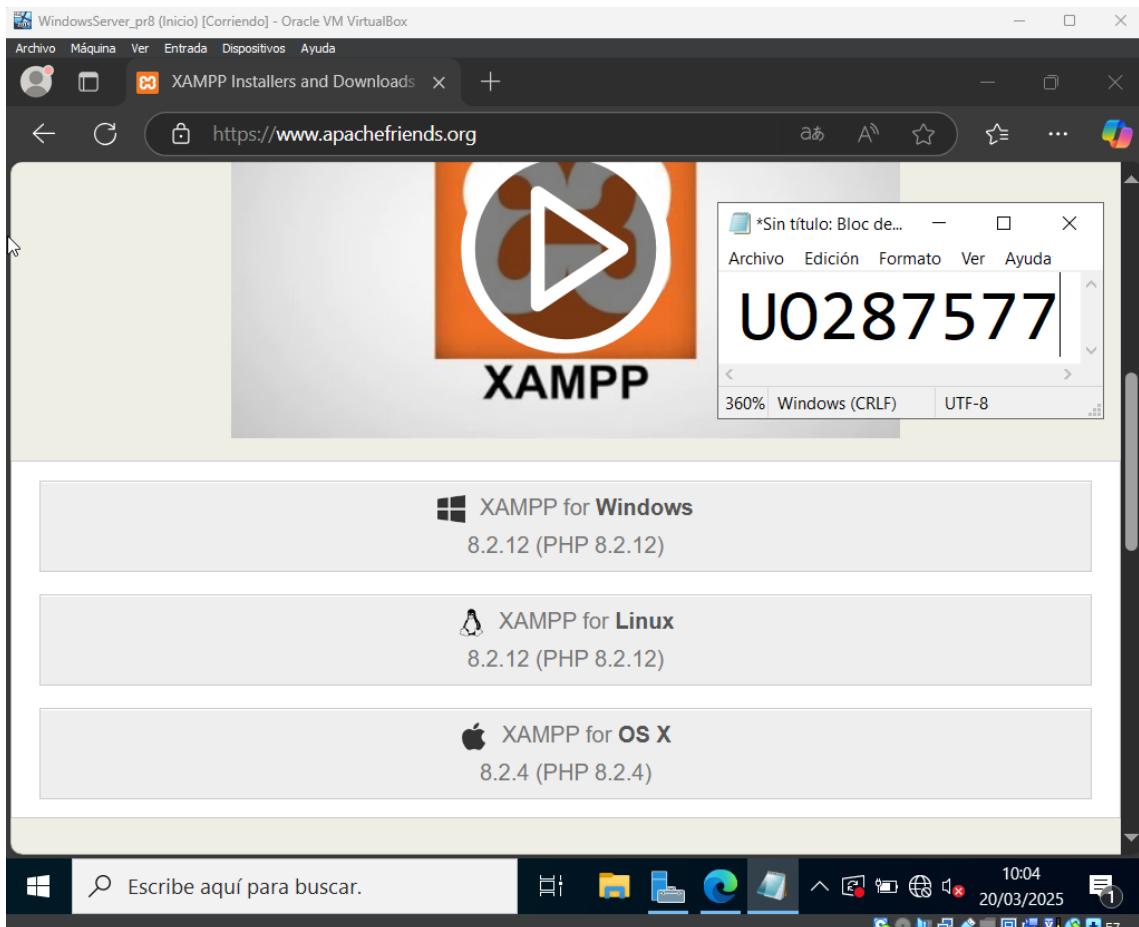
Administración de Sistemas y Redes - Práctica 8

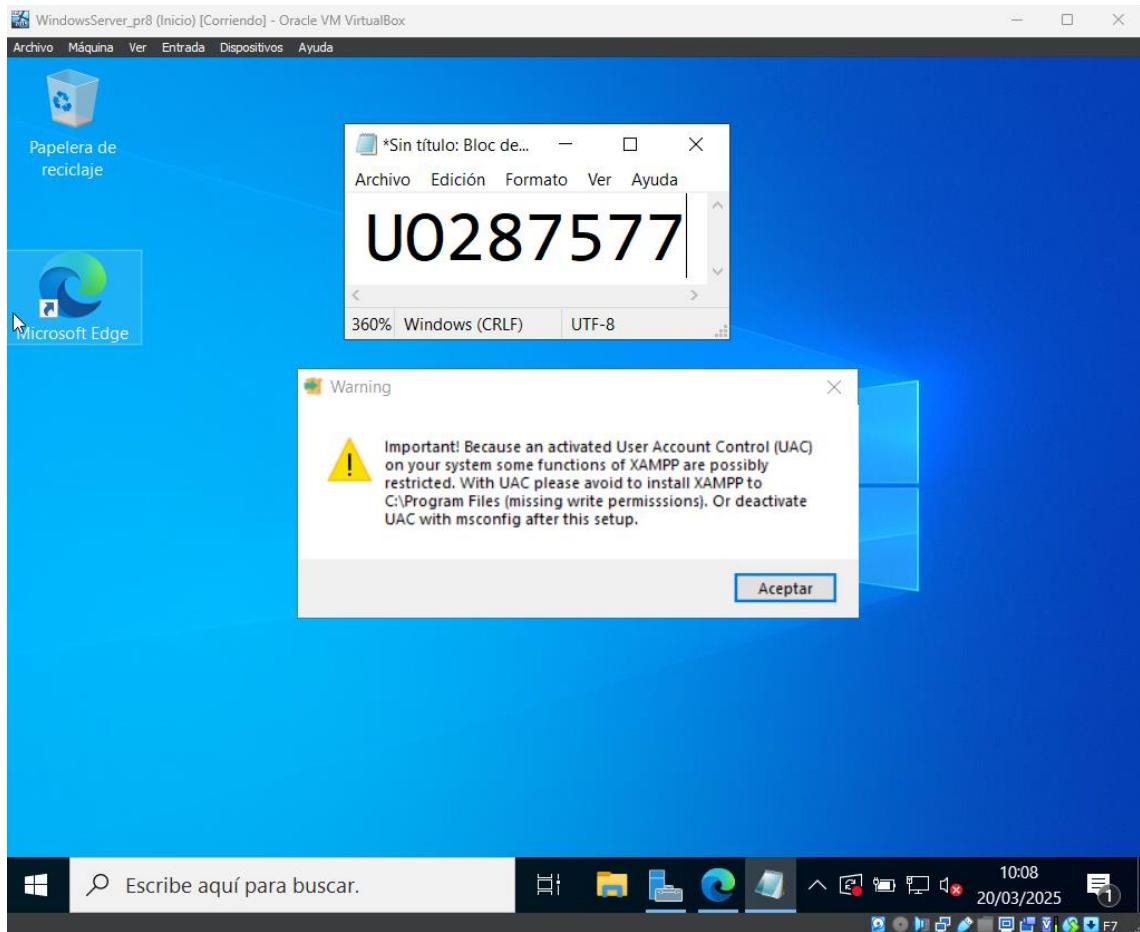
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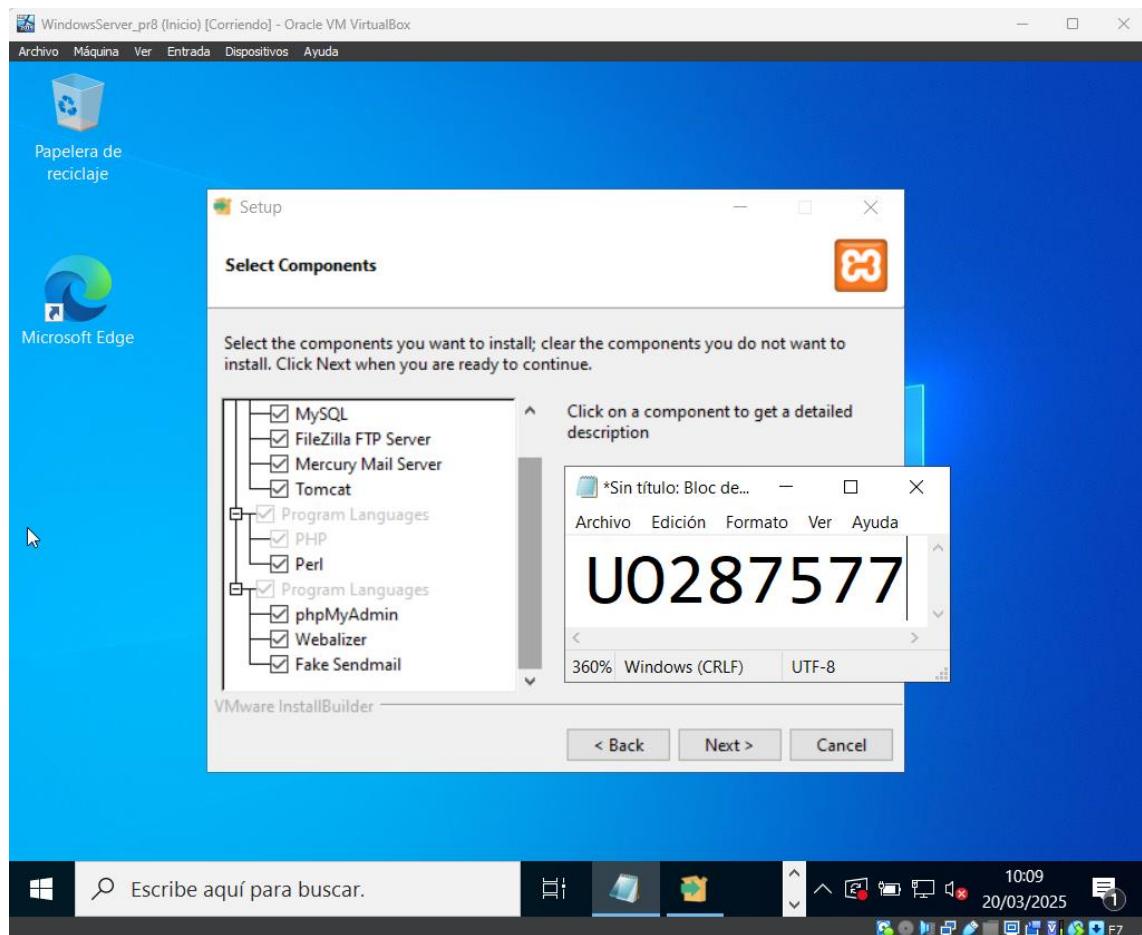
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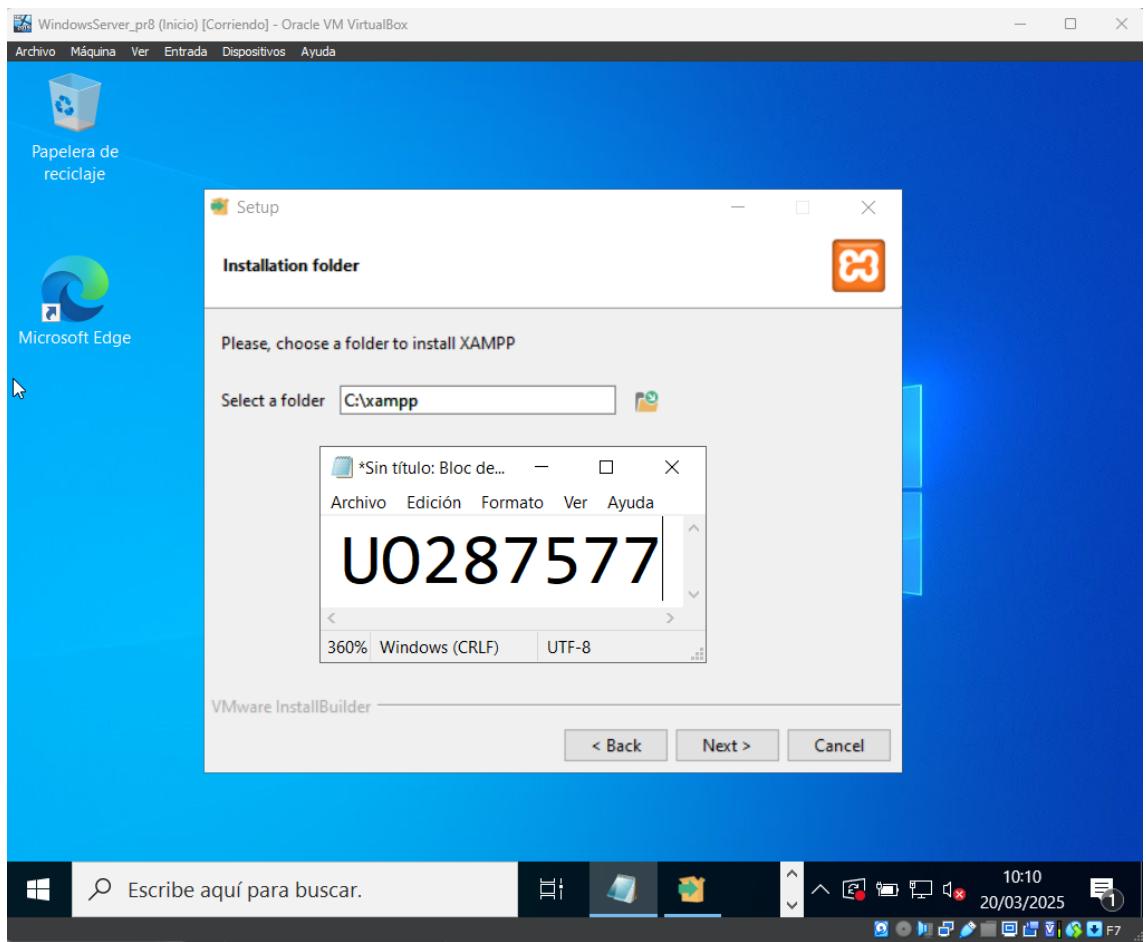
PARTE 1: OBLIGATORIA

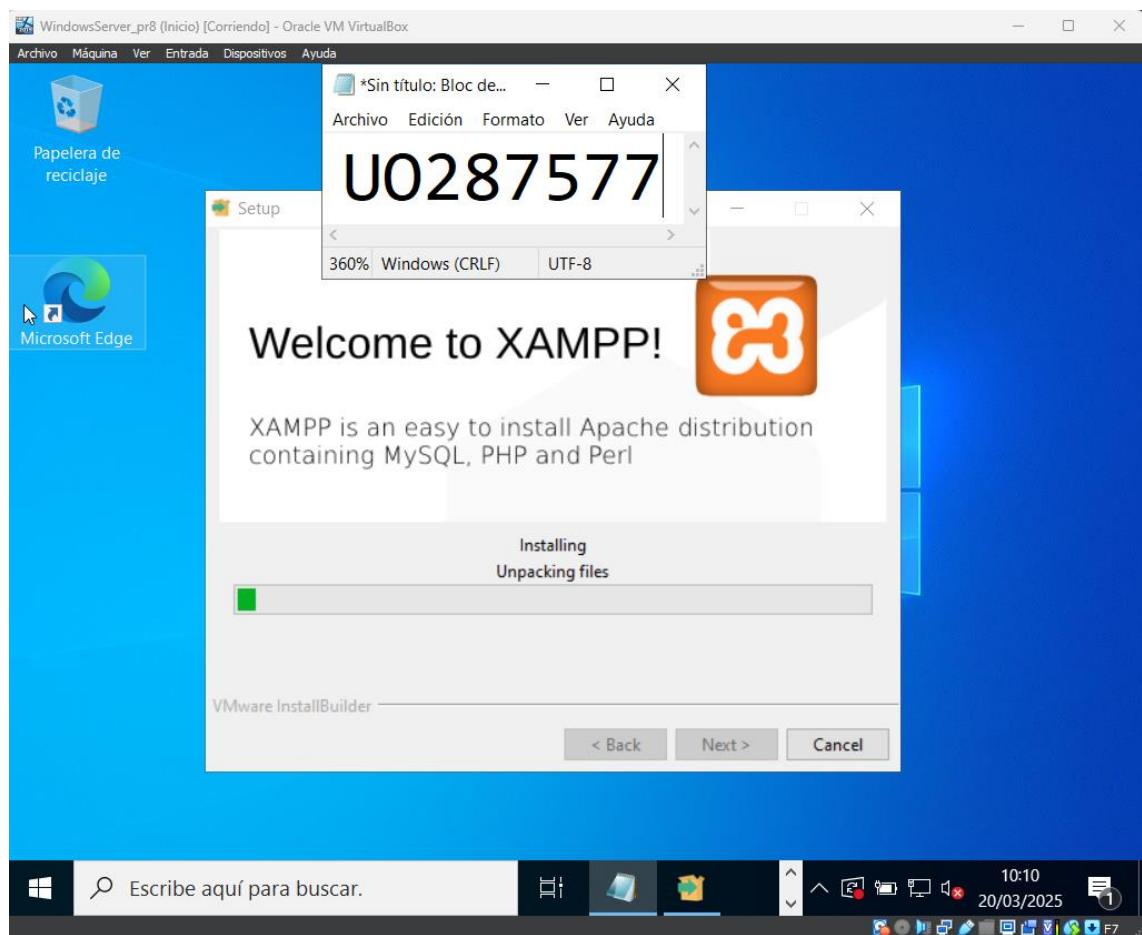
Descargamos el XAMPP de <https://www.apachefriends.org/> y lo instalamos en el servidor Windows.

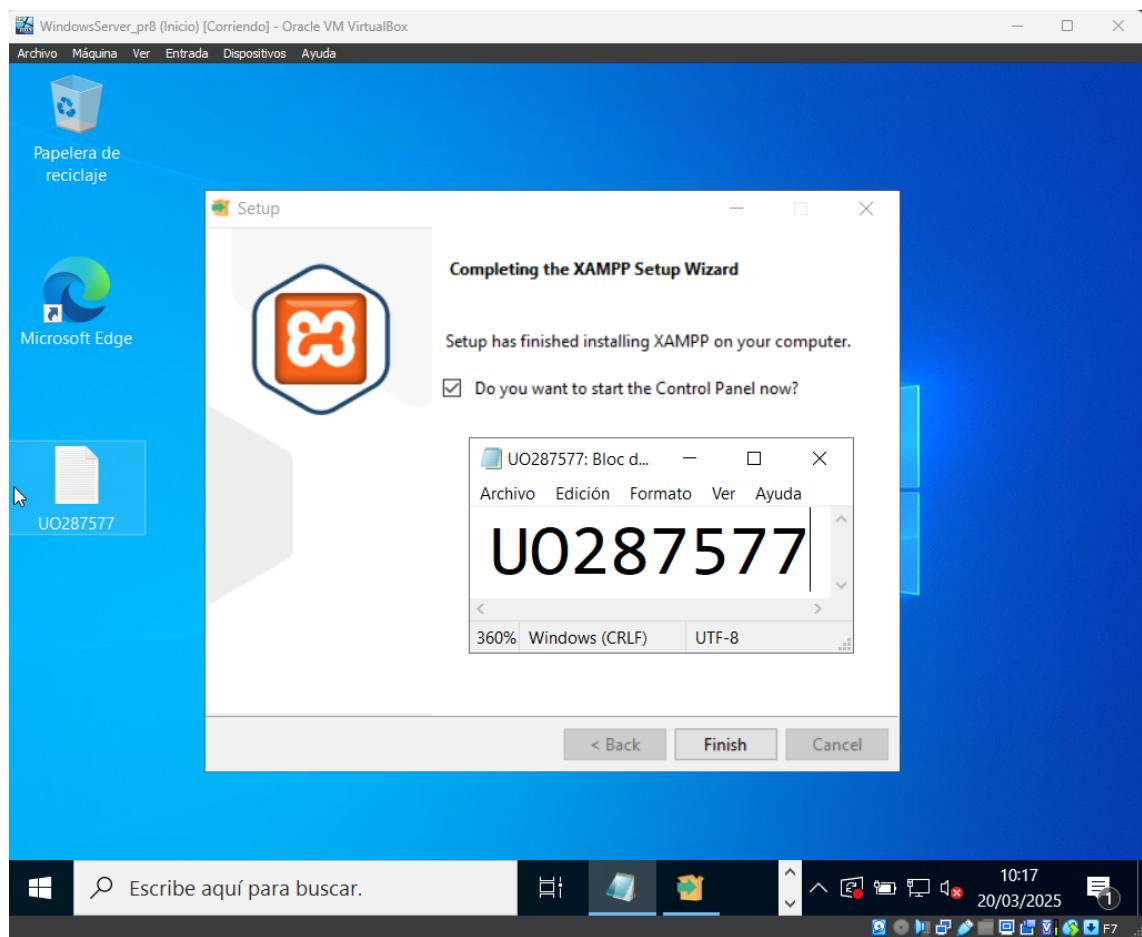


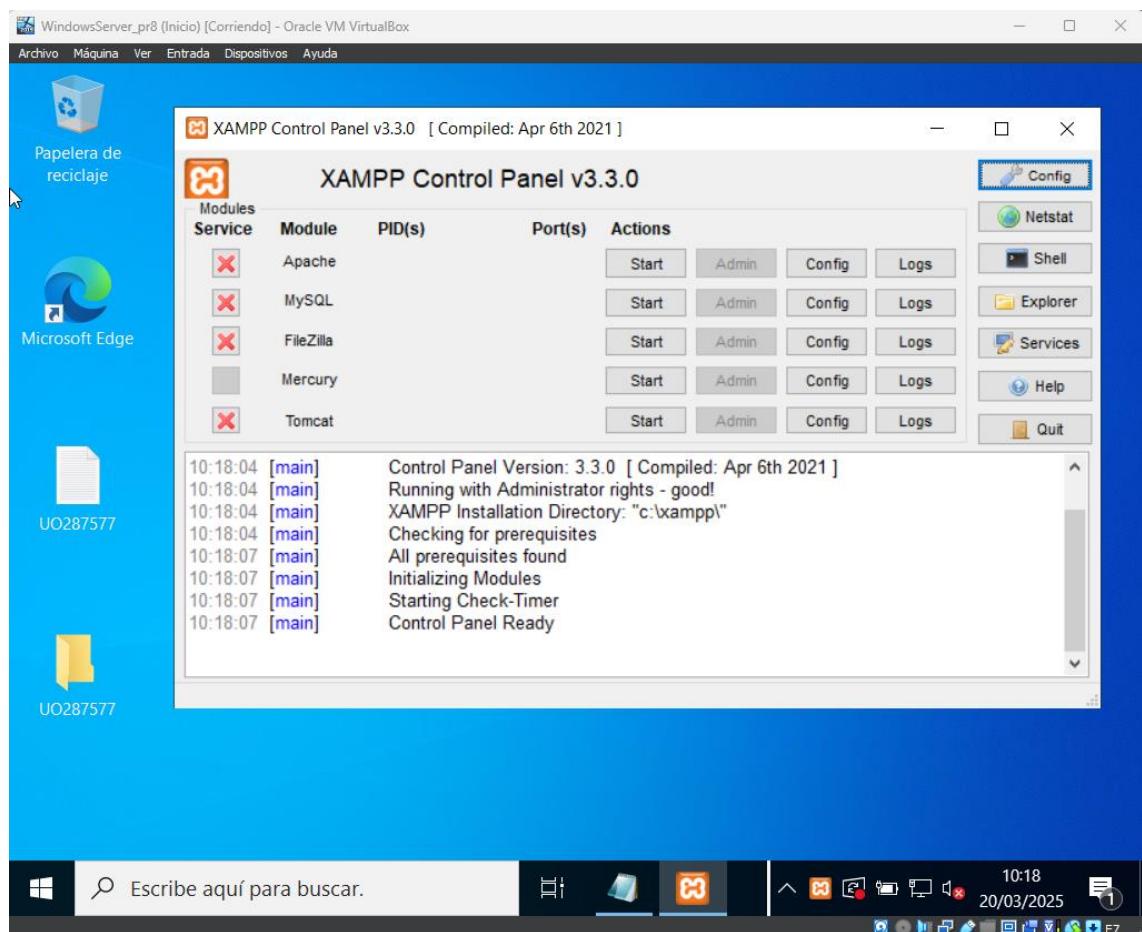


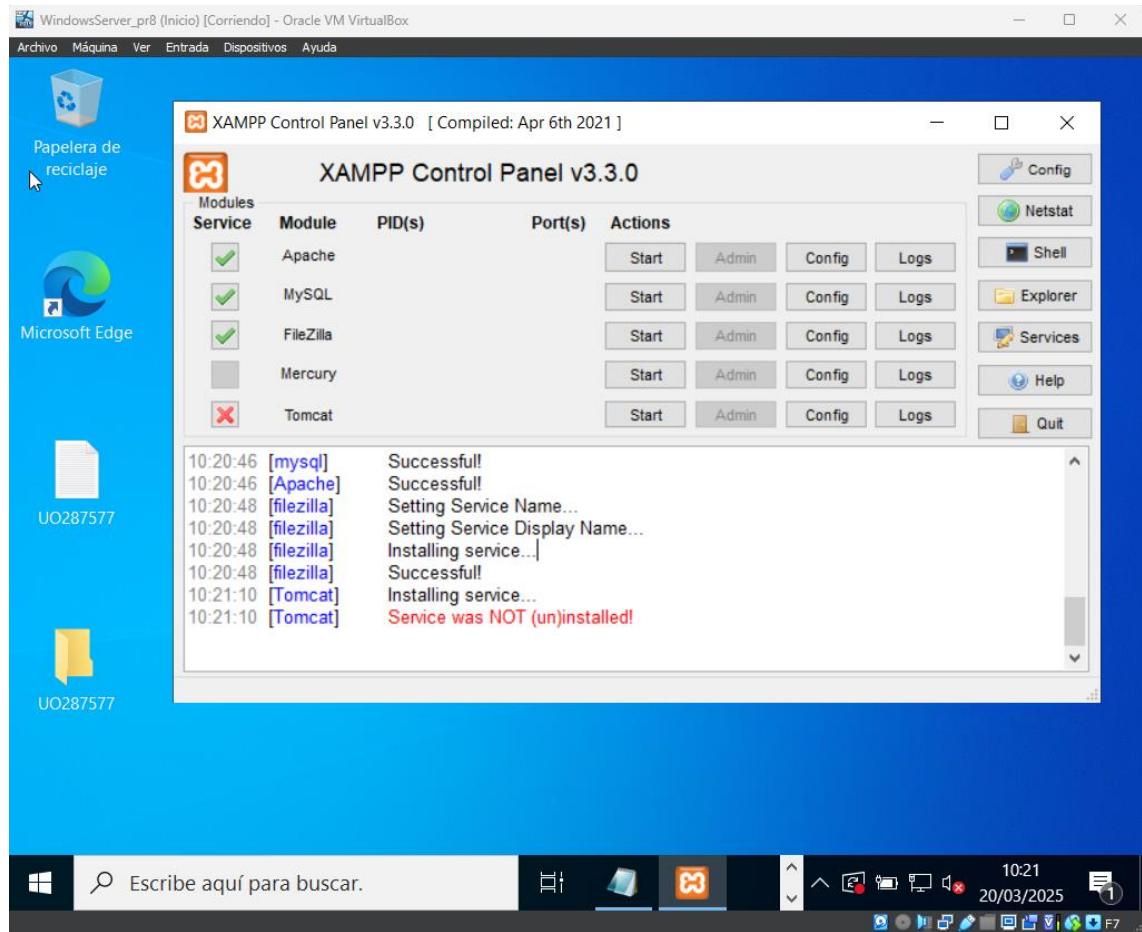




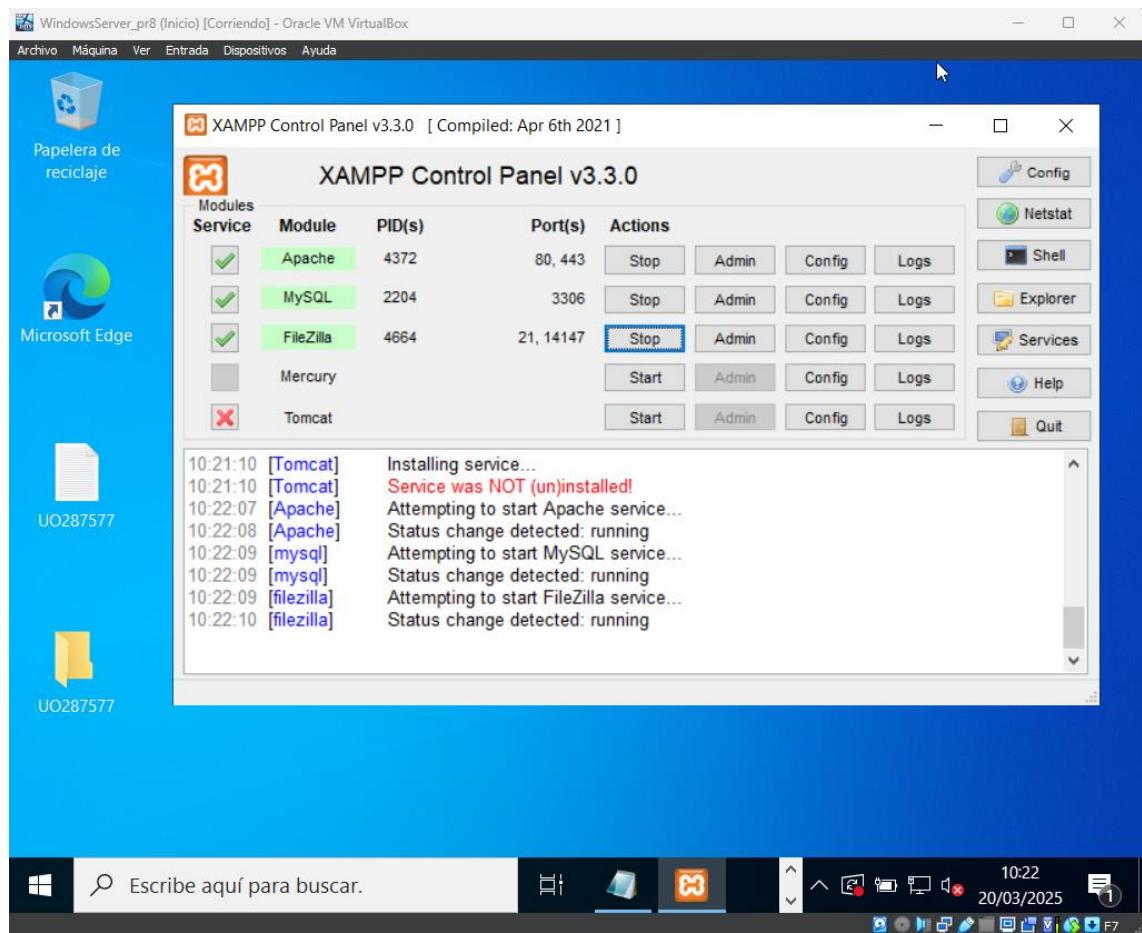


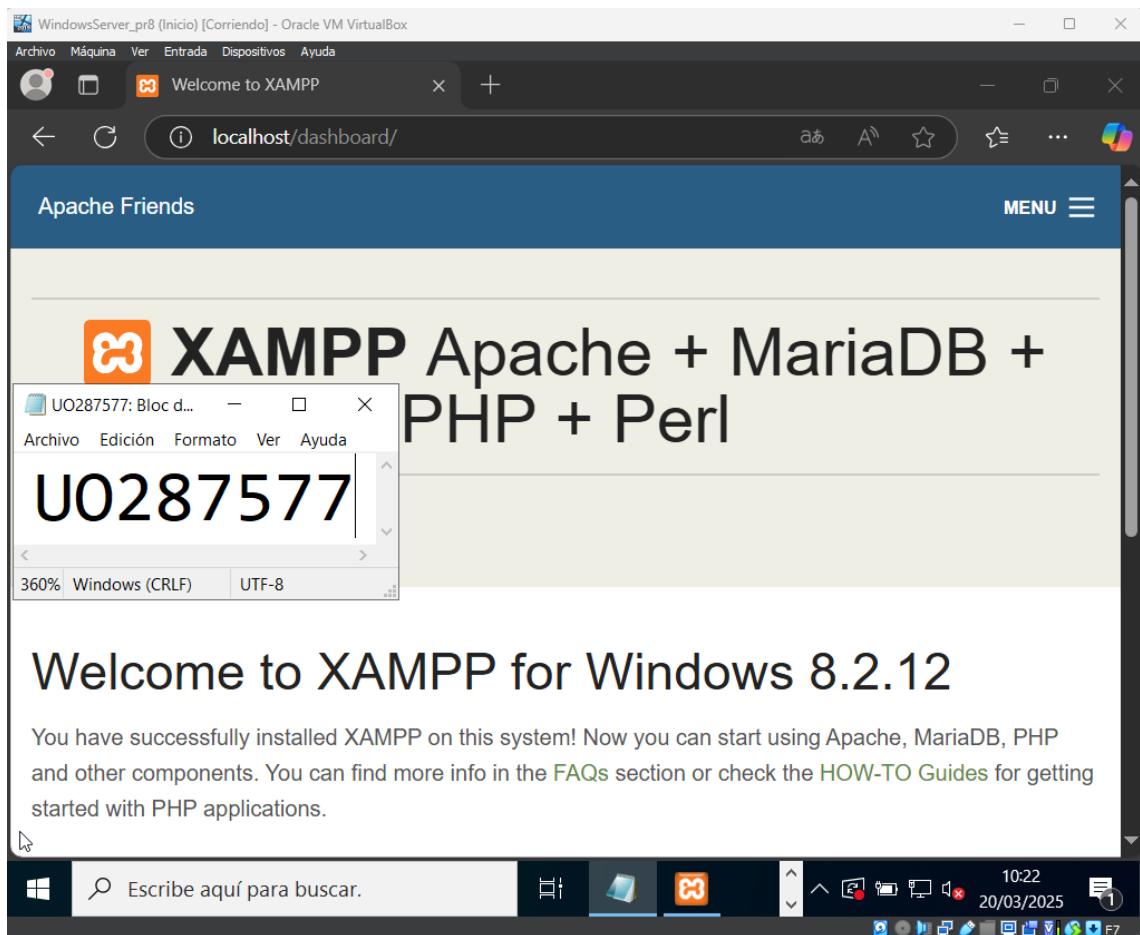




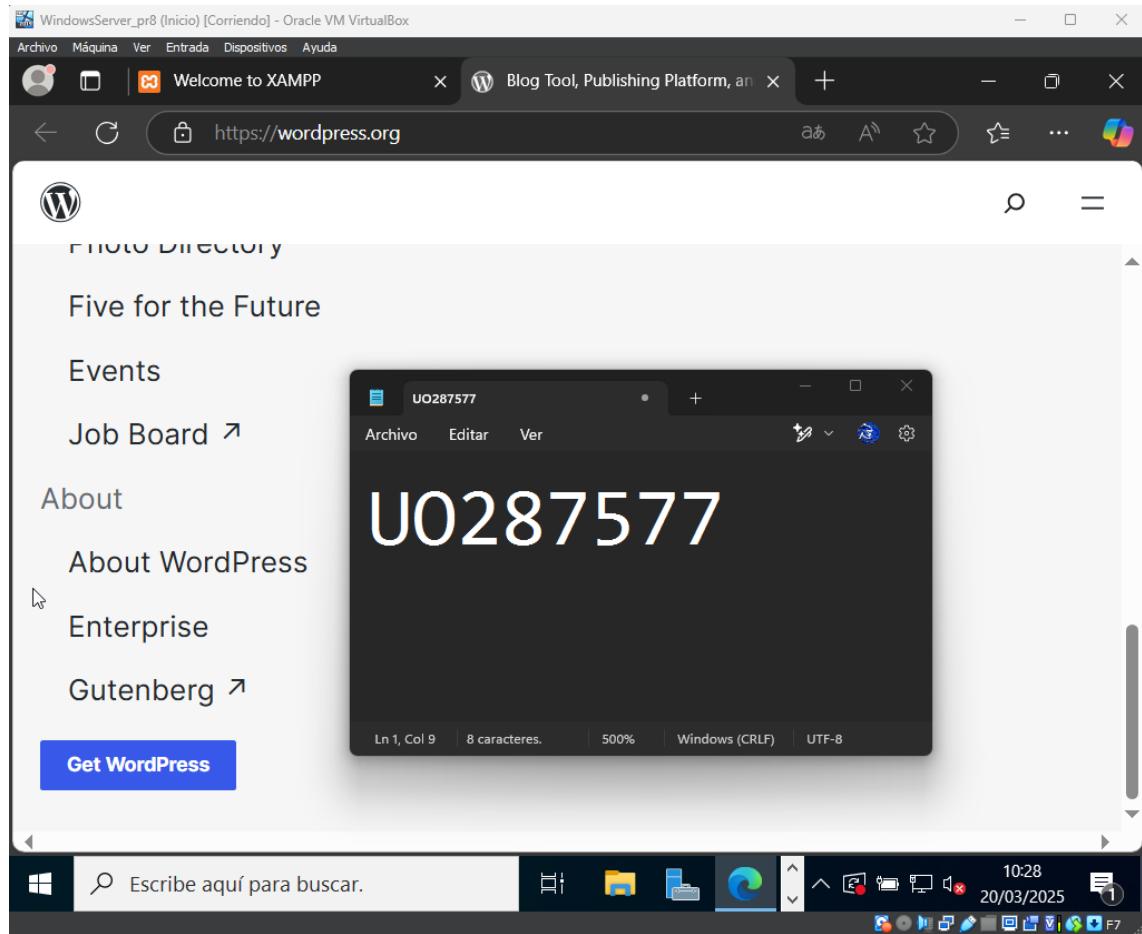


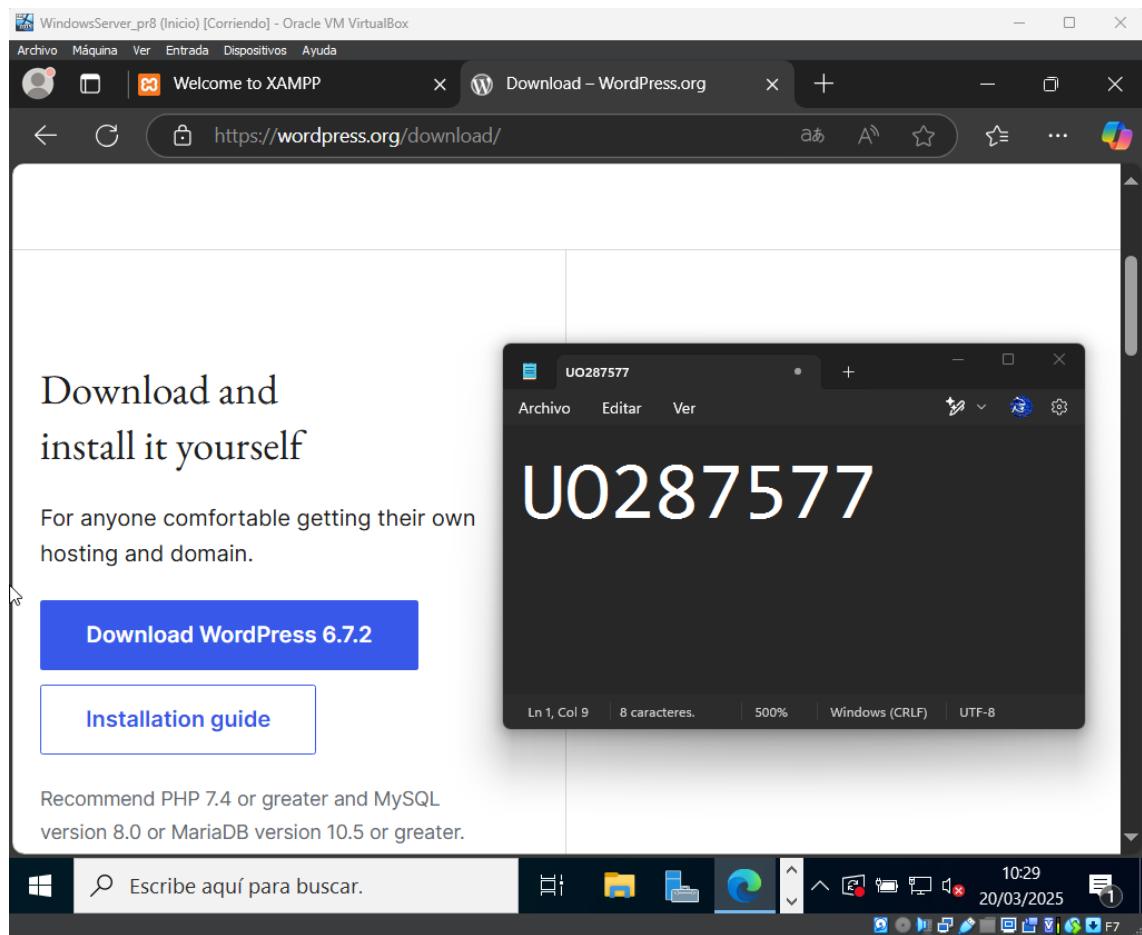
Comprobamos que funcionan los servicios HTTP, MYSQL y FTP así como el PHP una vez configurados.

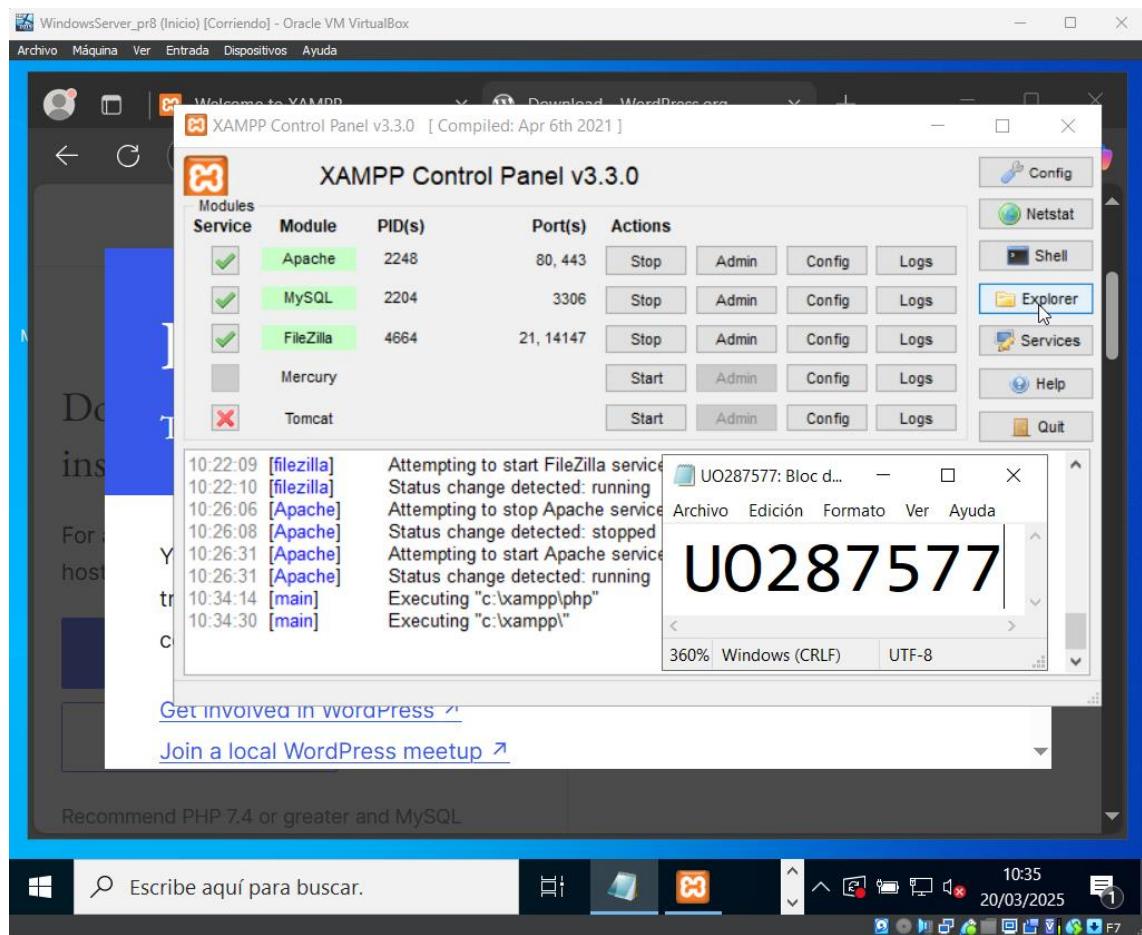


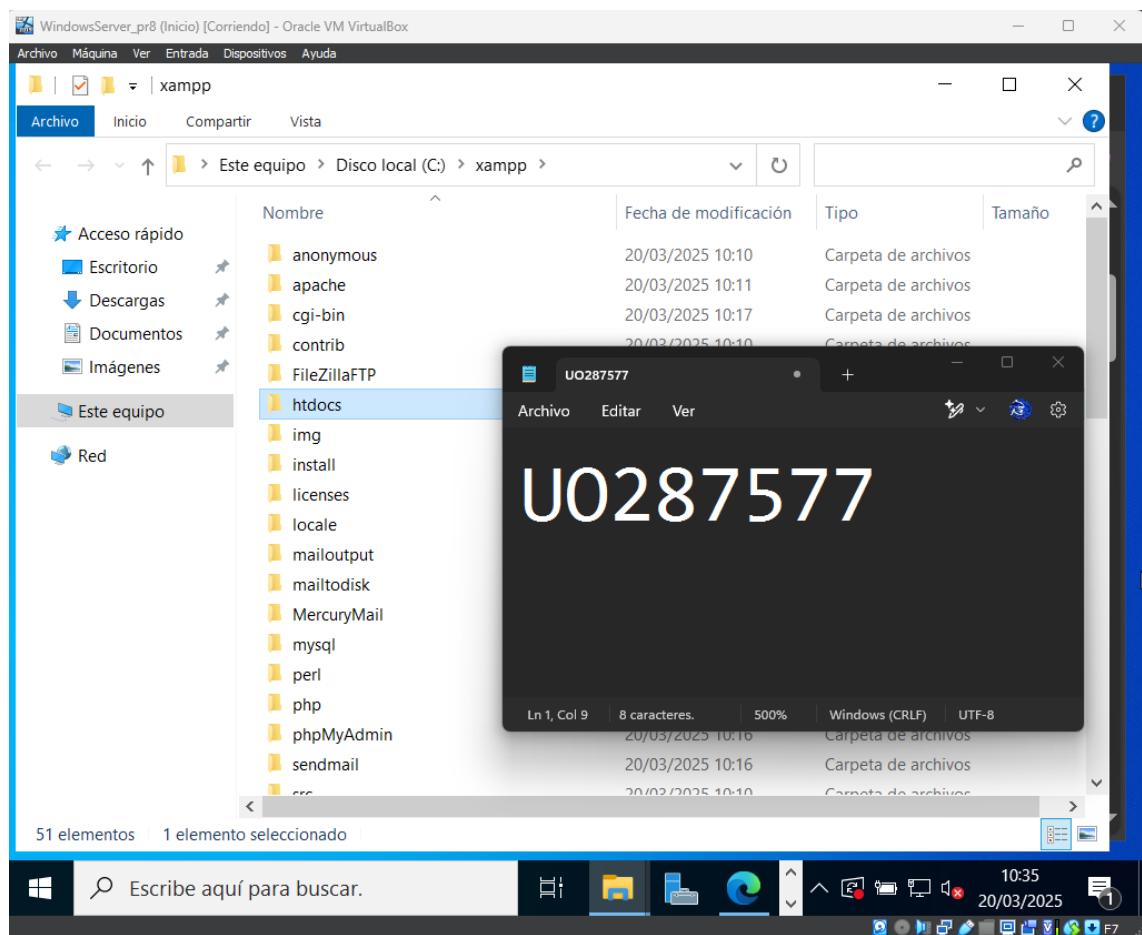


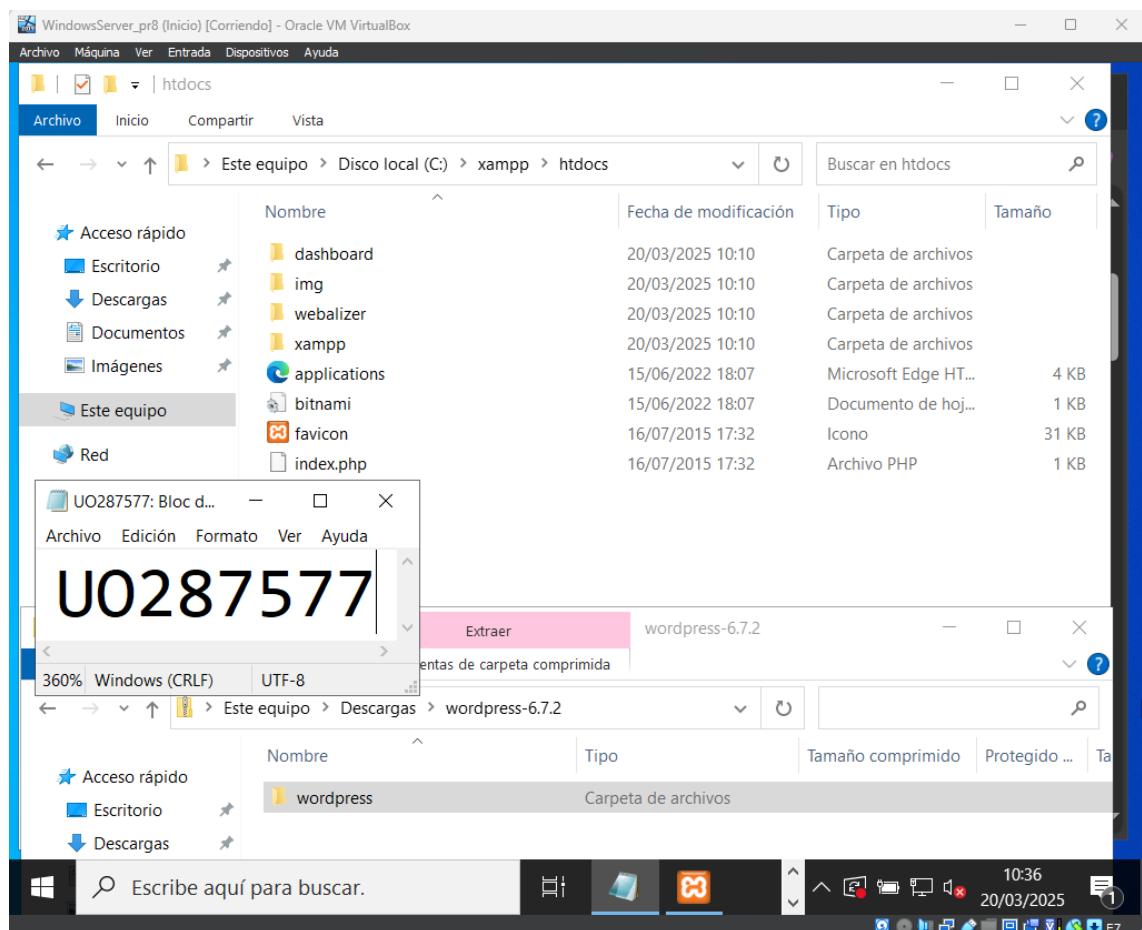
Descargamos e instalamos WordPress para Windows desde <https://wordpress.org/>.

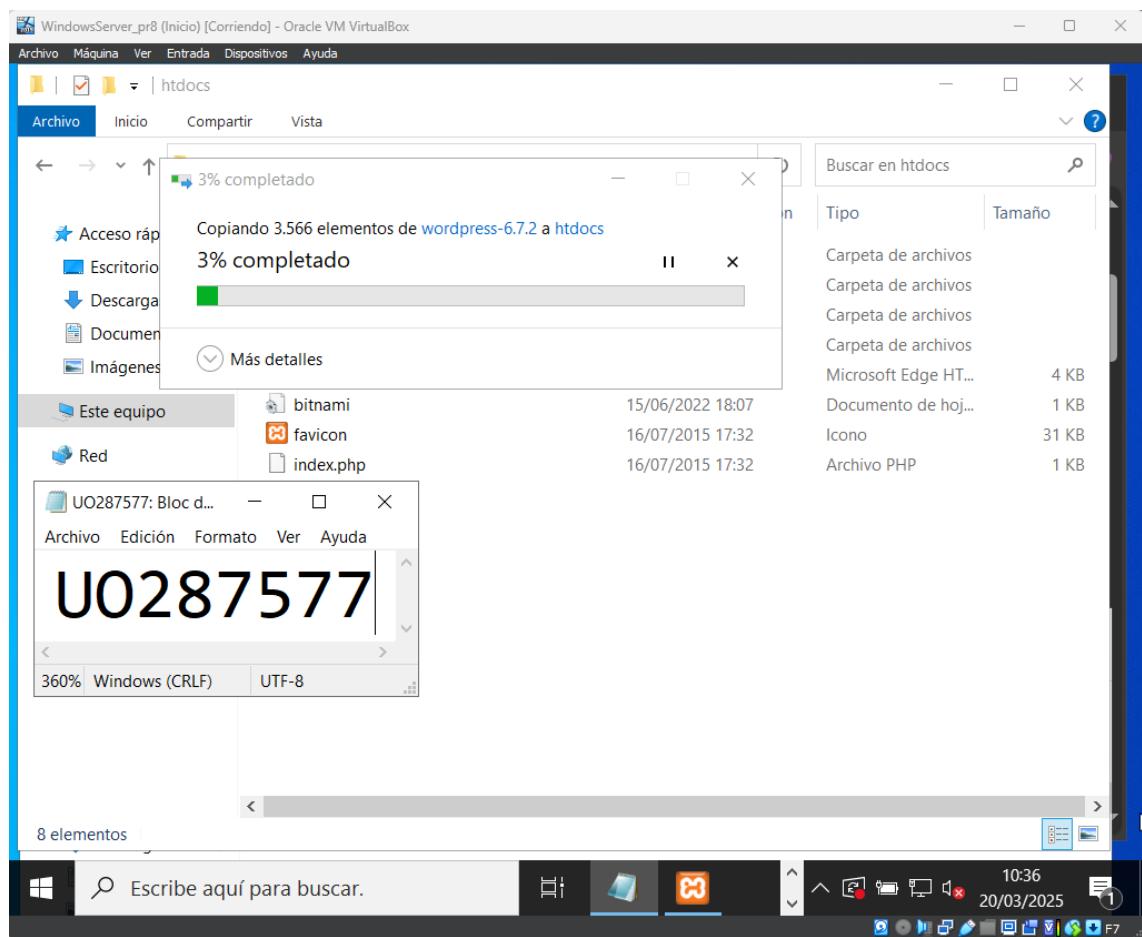


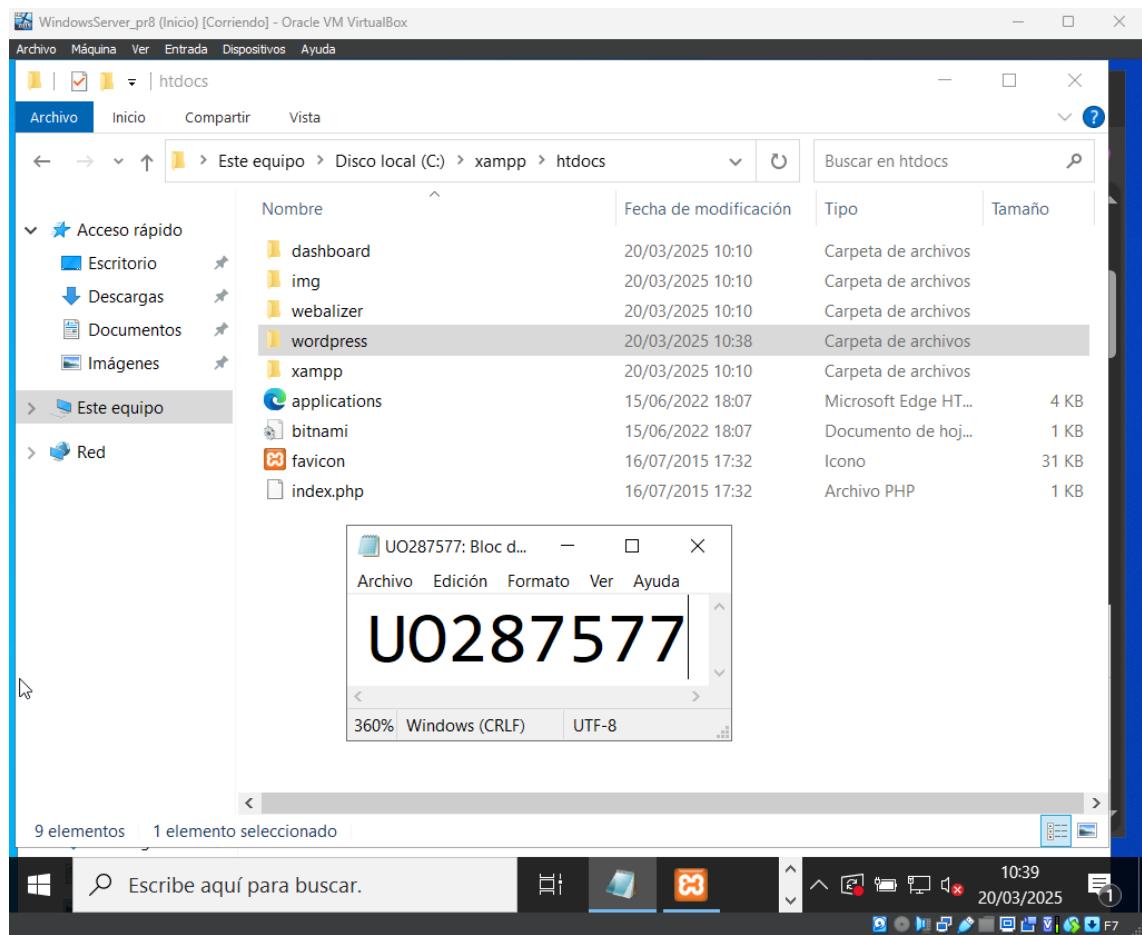


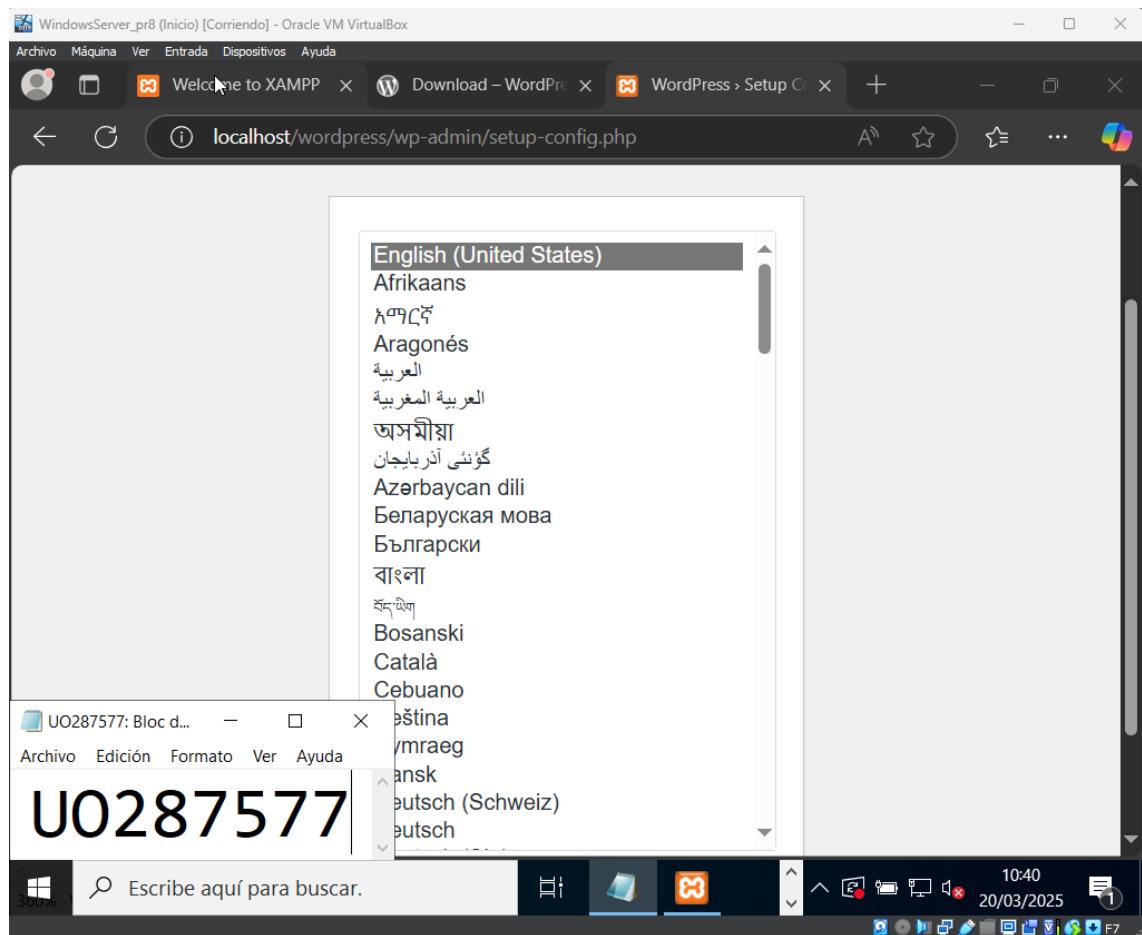


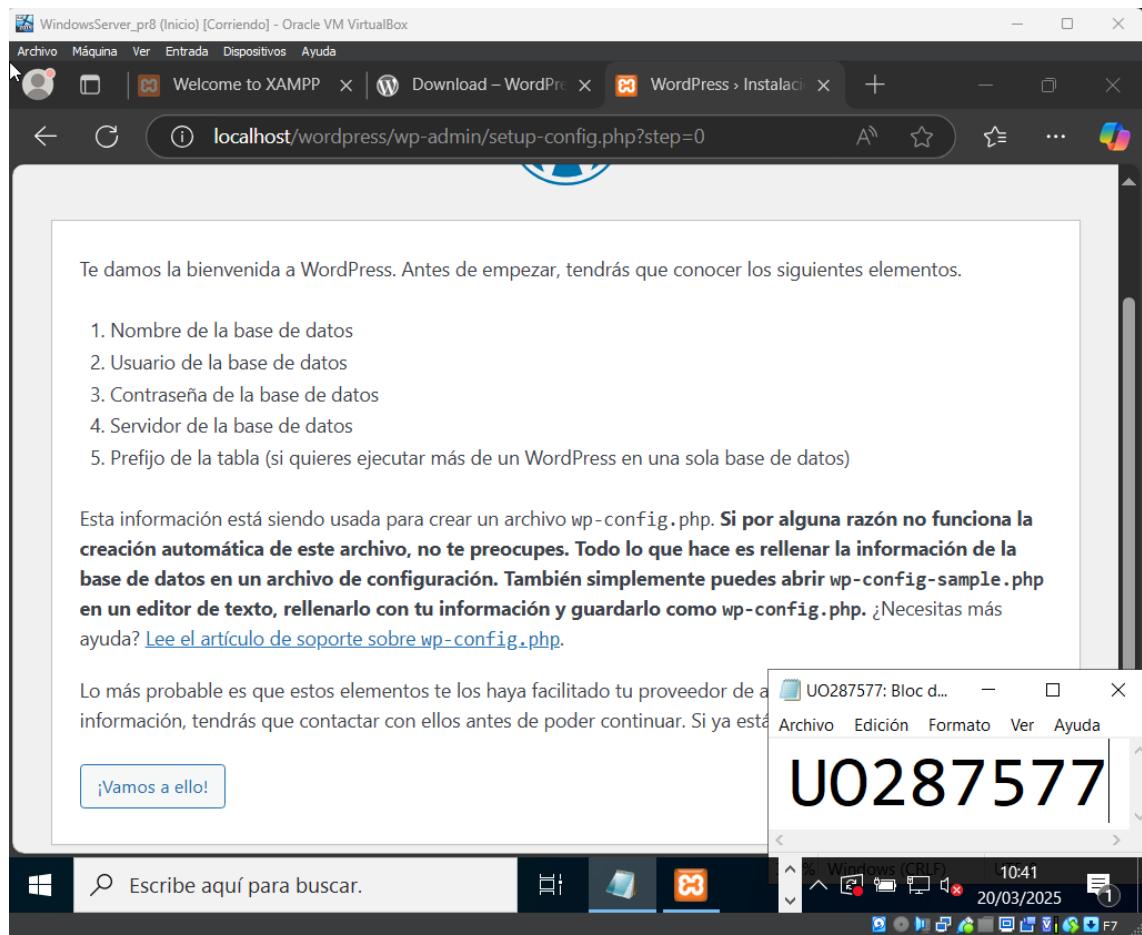


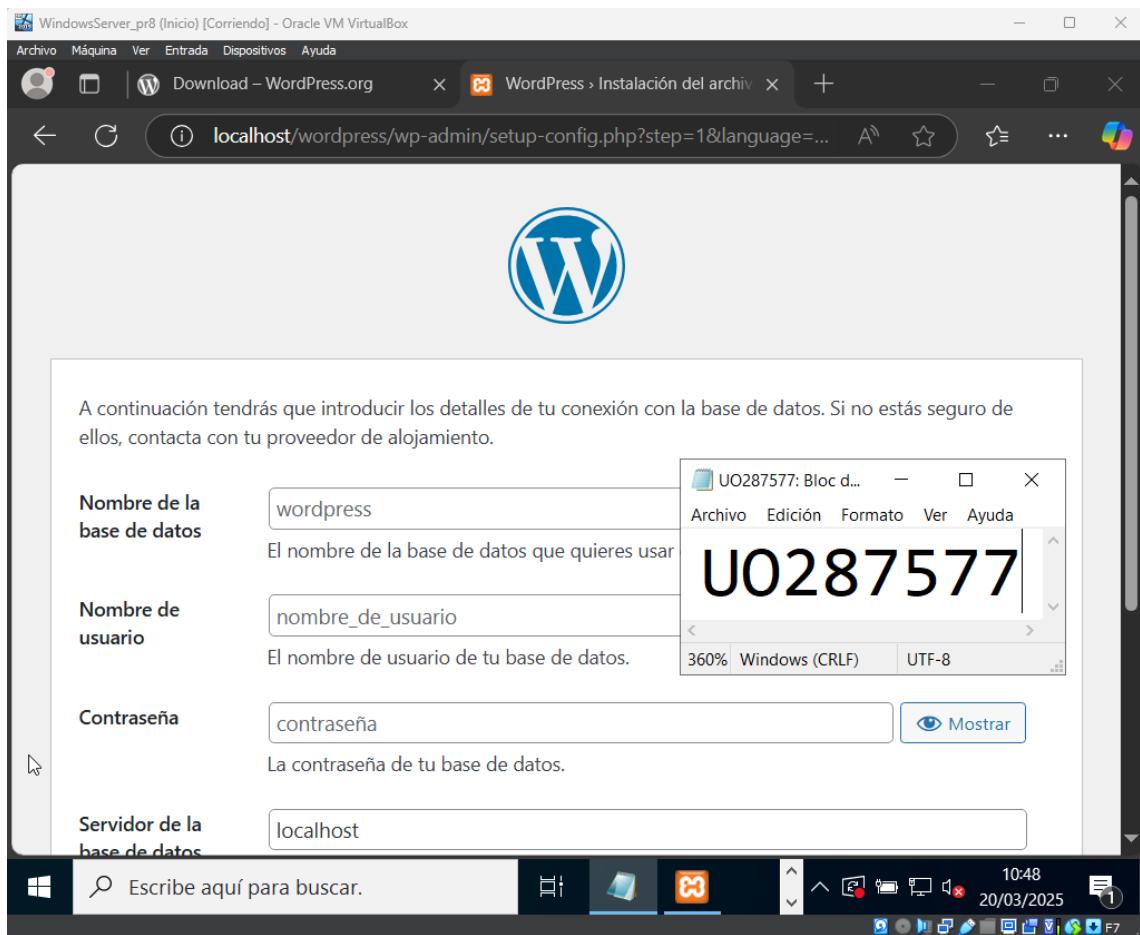




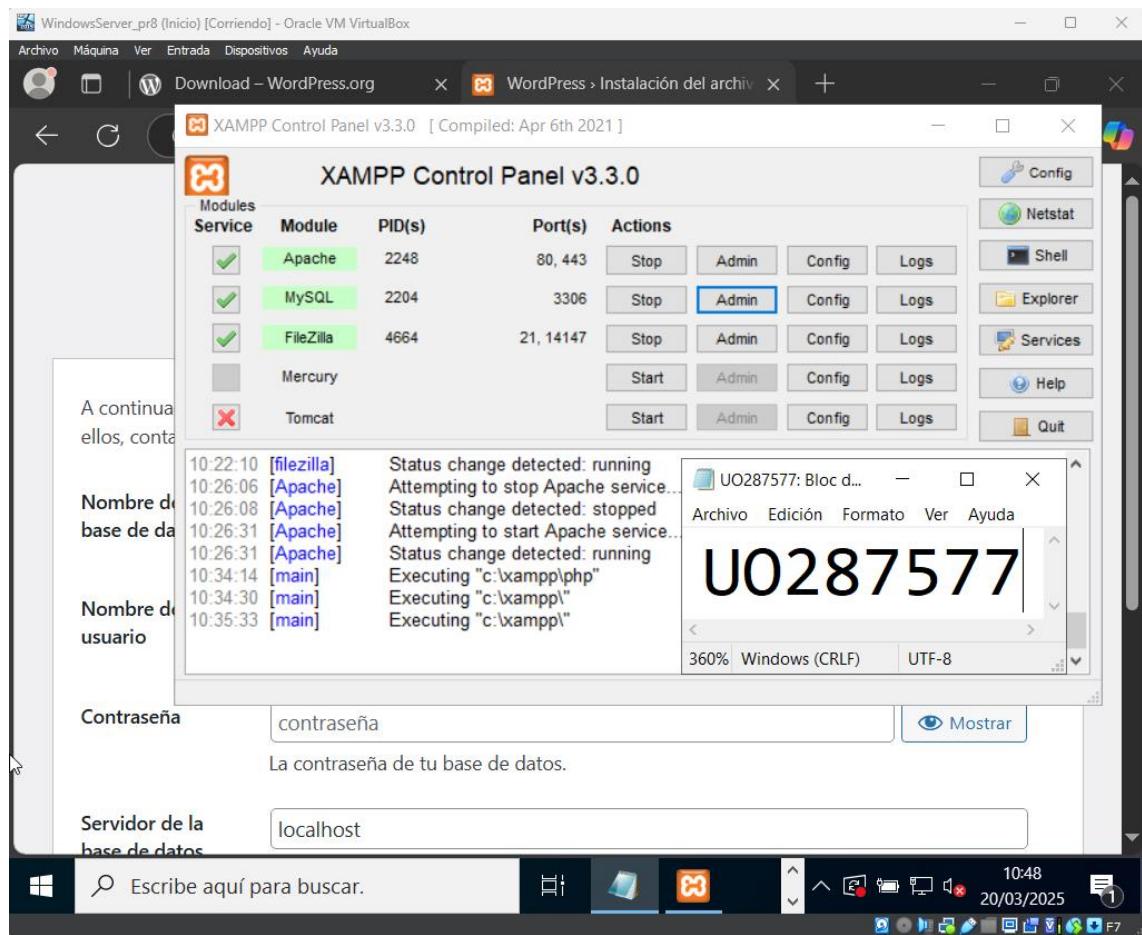


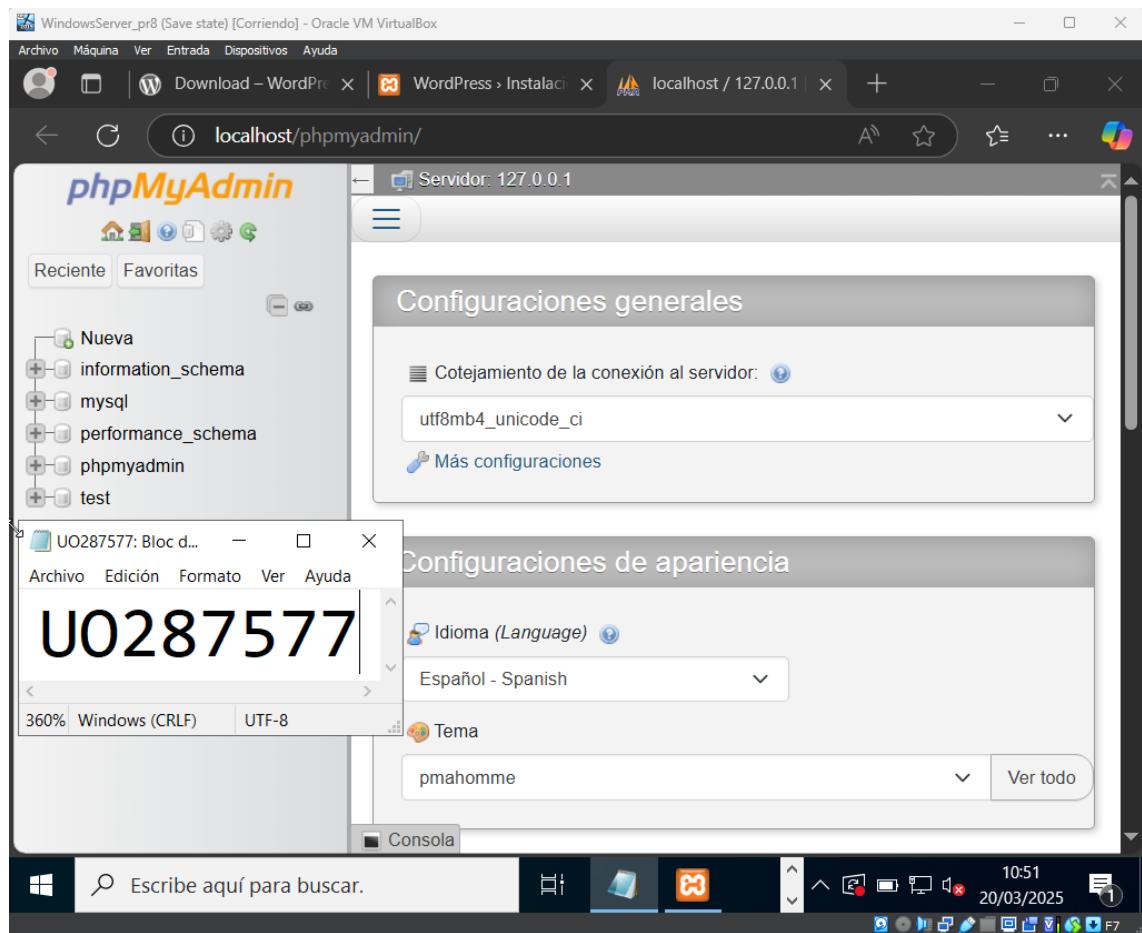


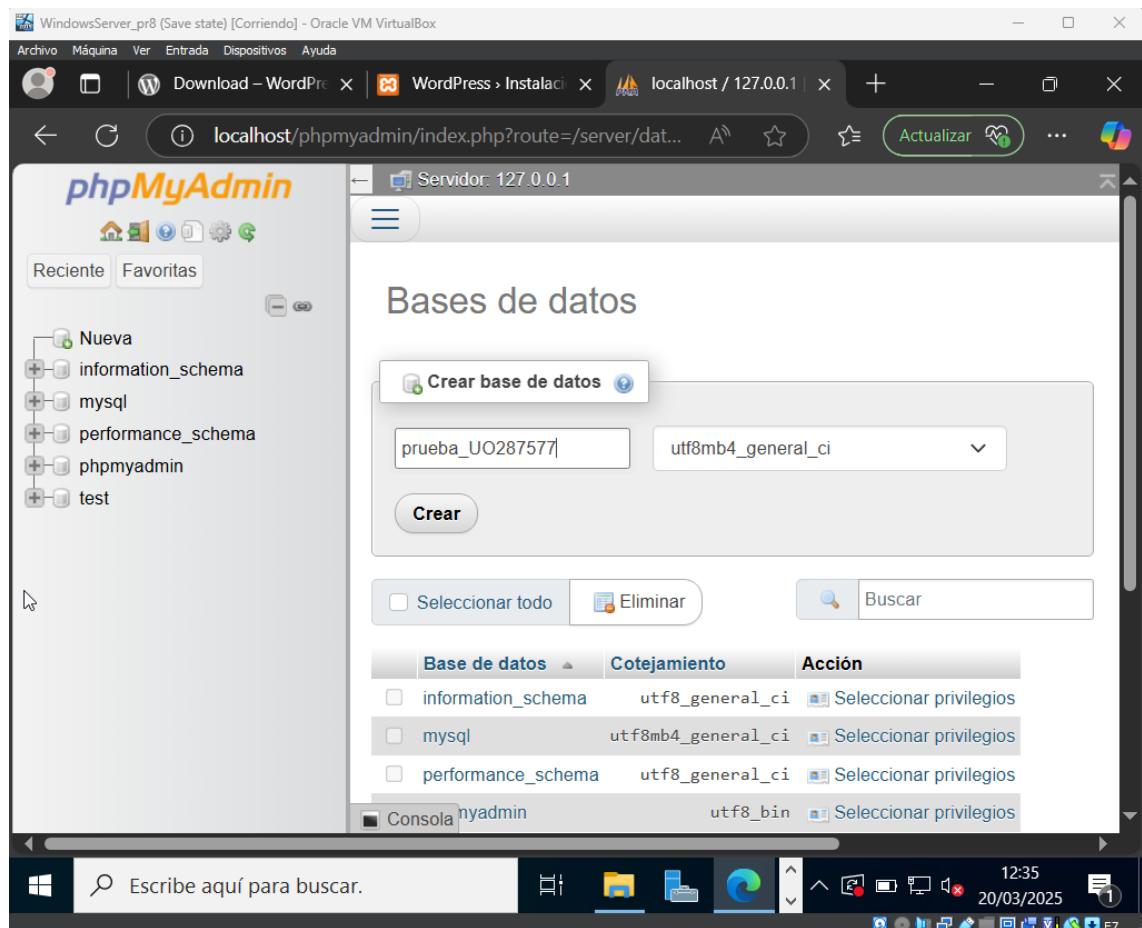


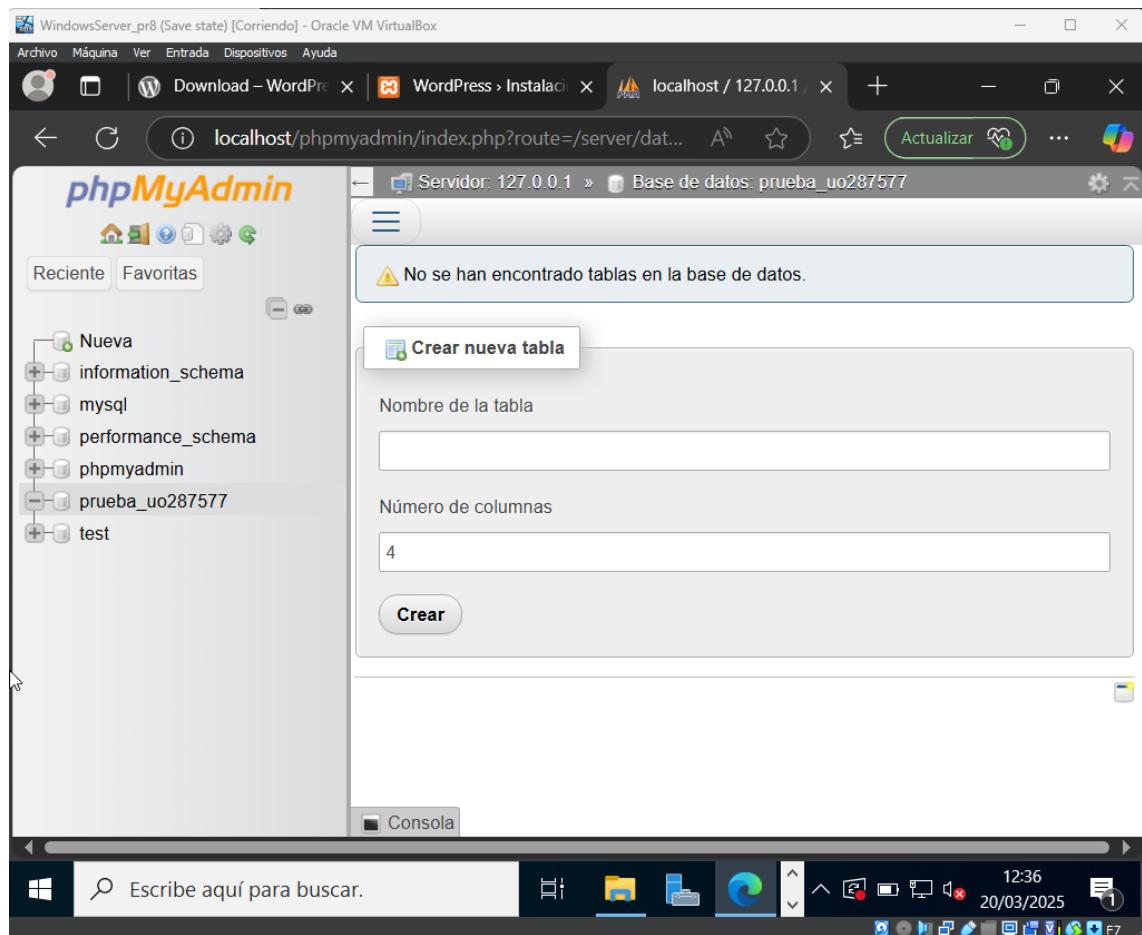


Creamos la BBDD.

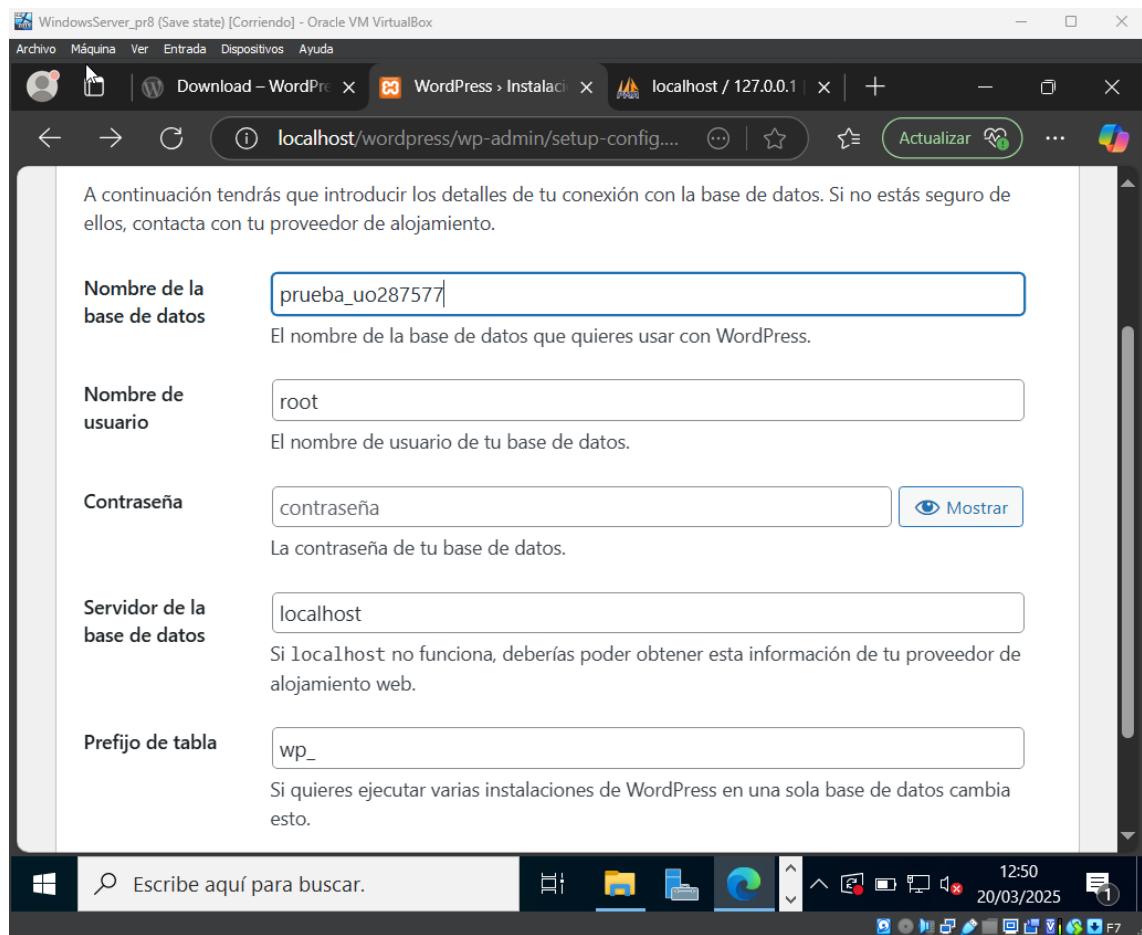


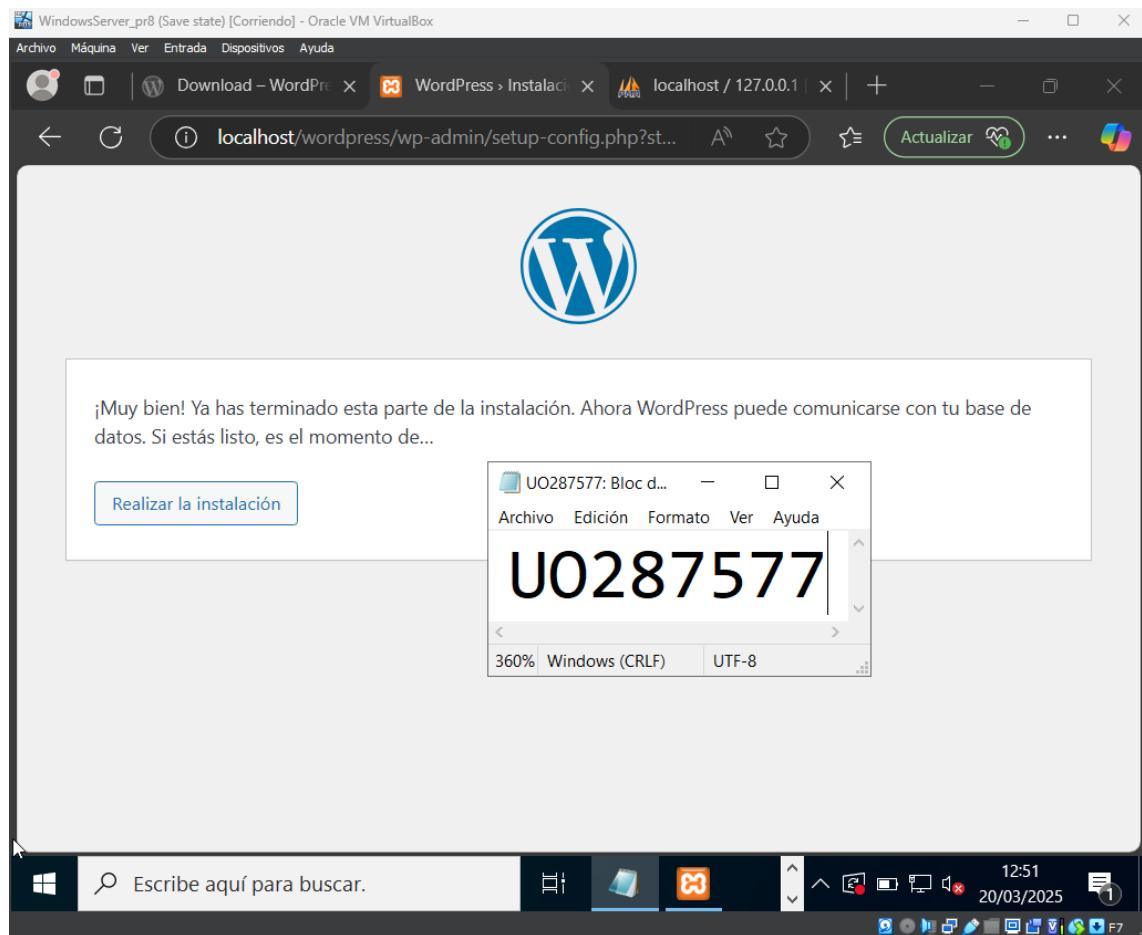




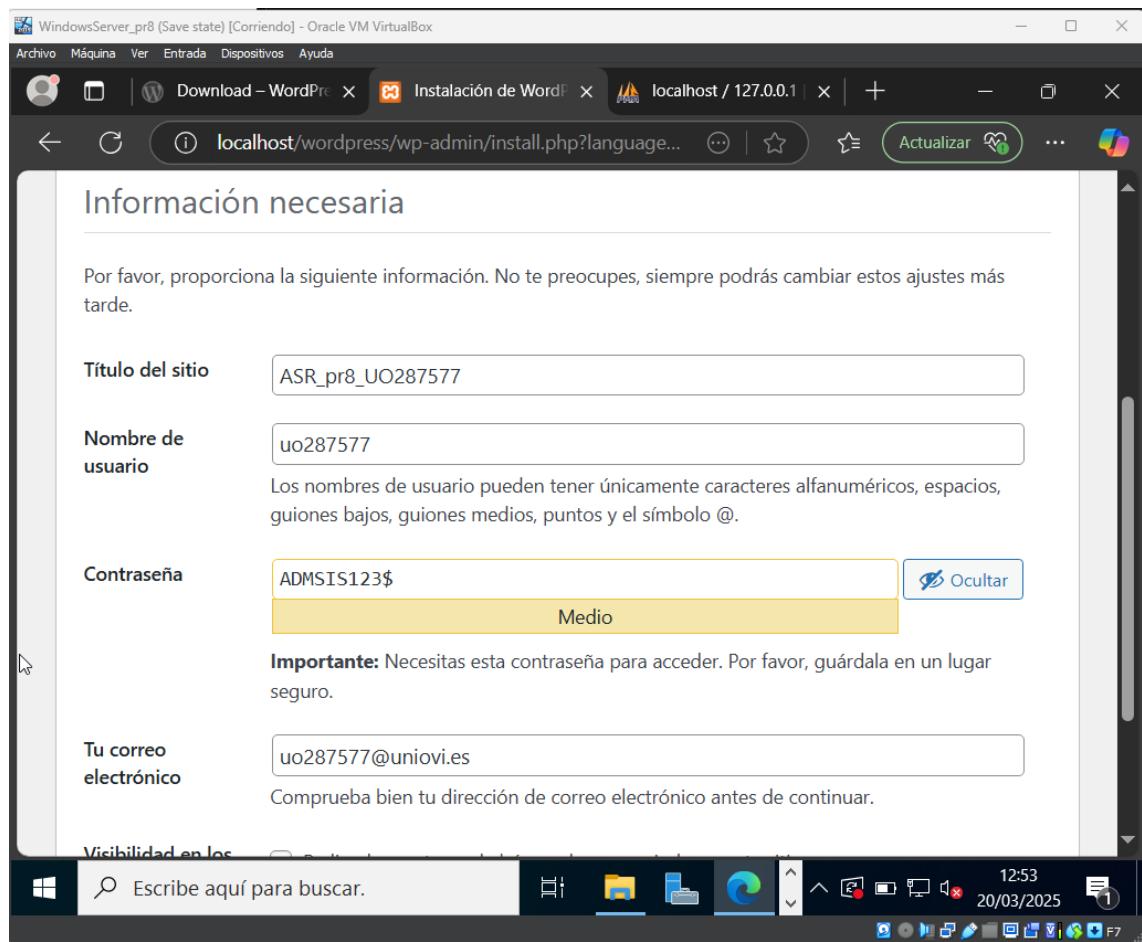


Rellenamos los campos del formulario de configuración de Wordpress.

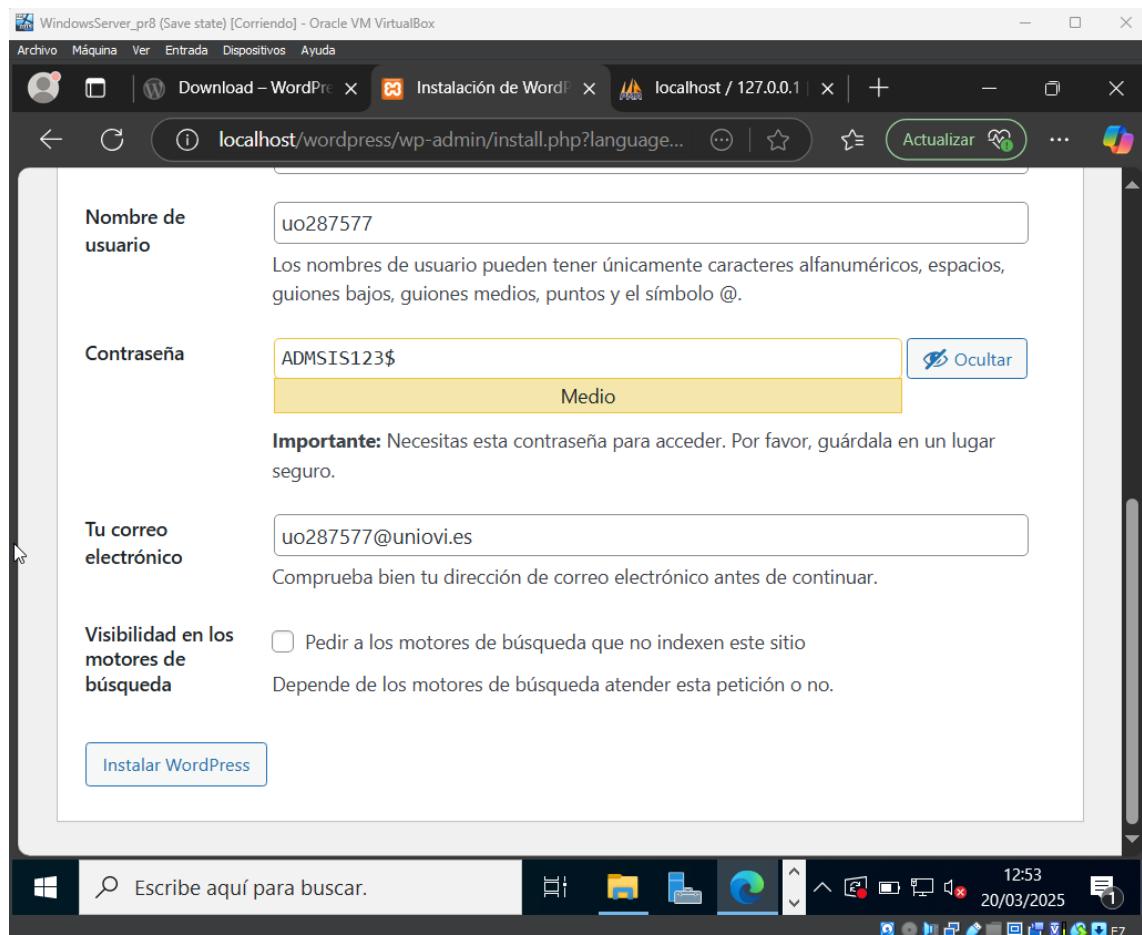


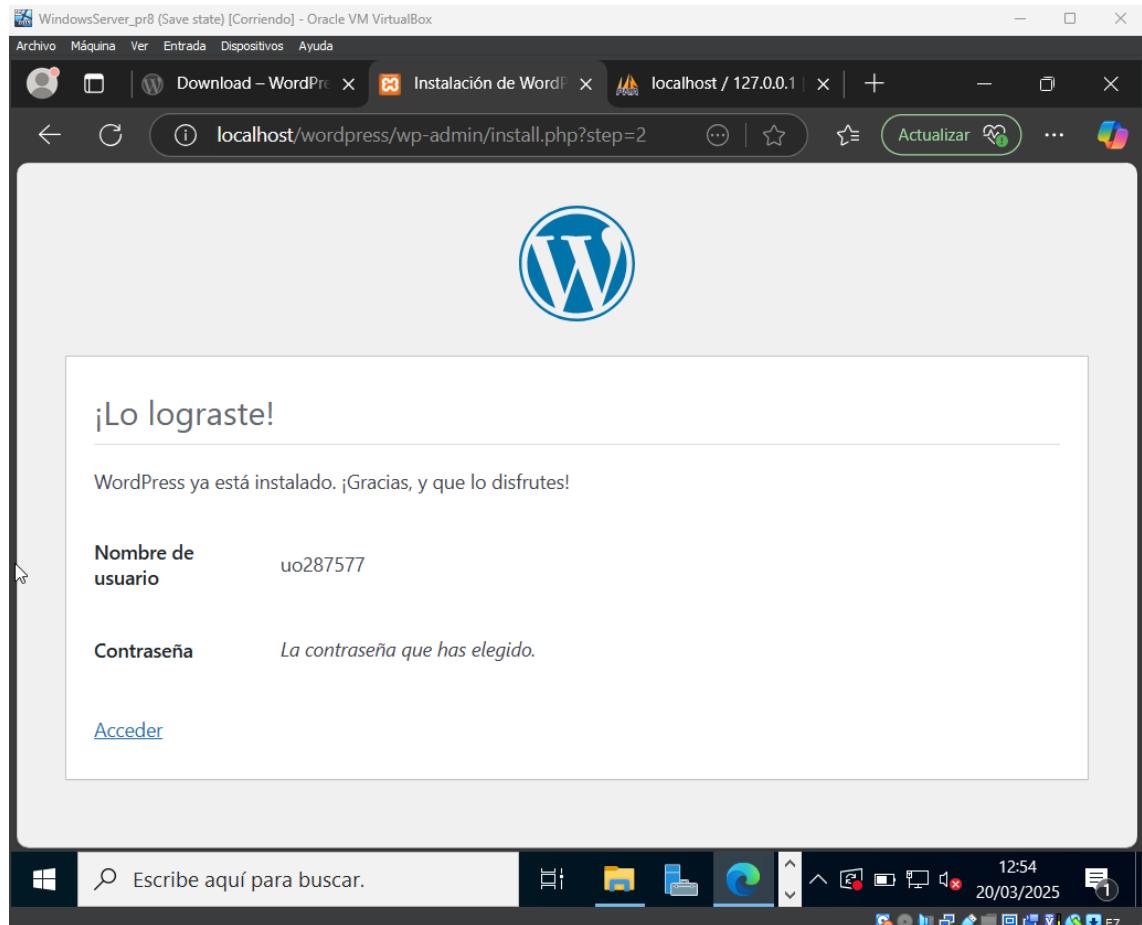


Rellenamos los campos del formulario de instalación.

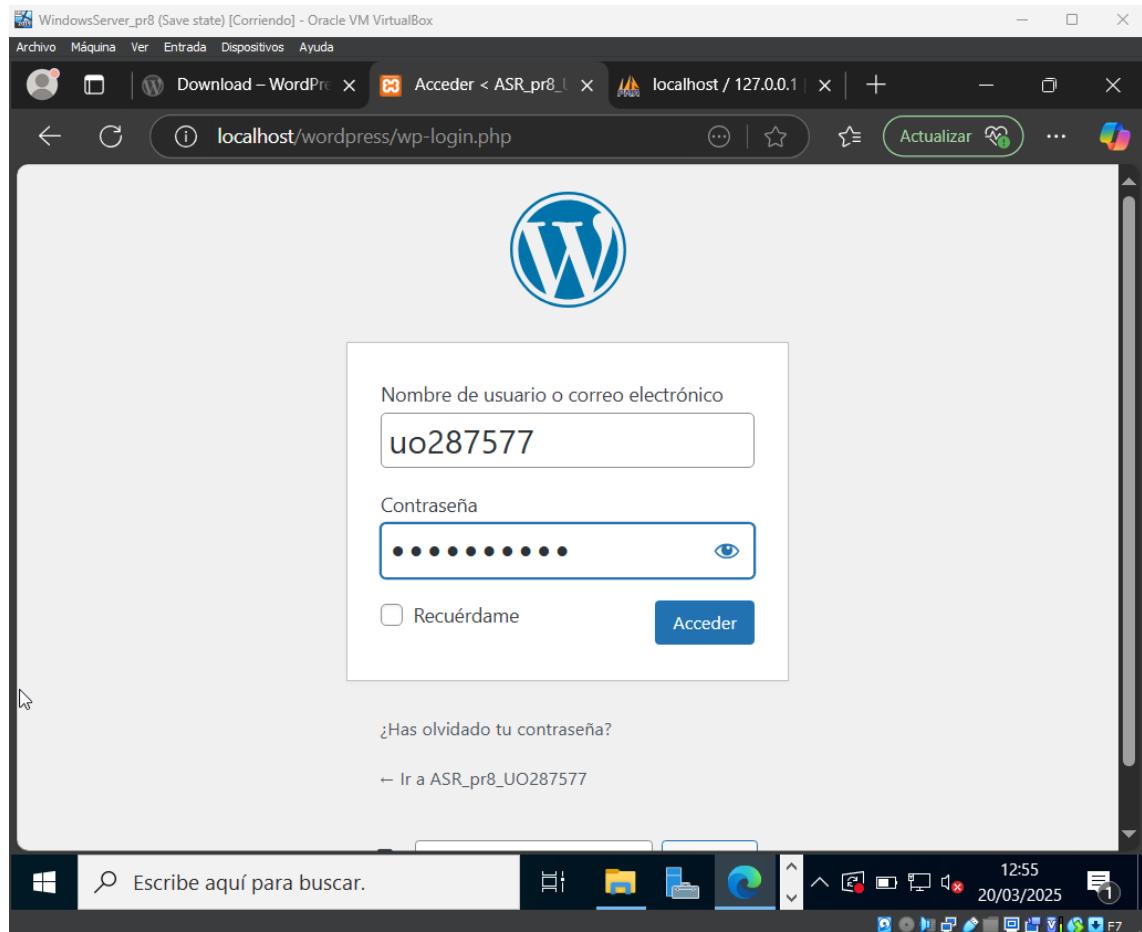


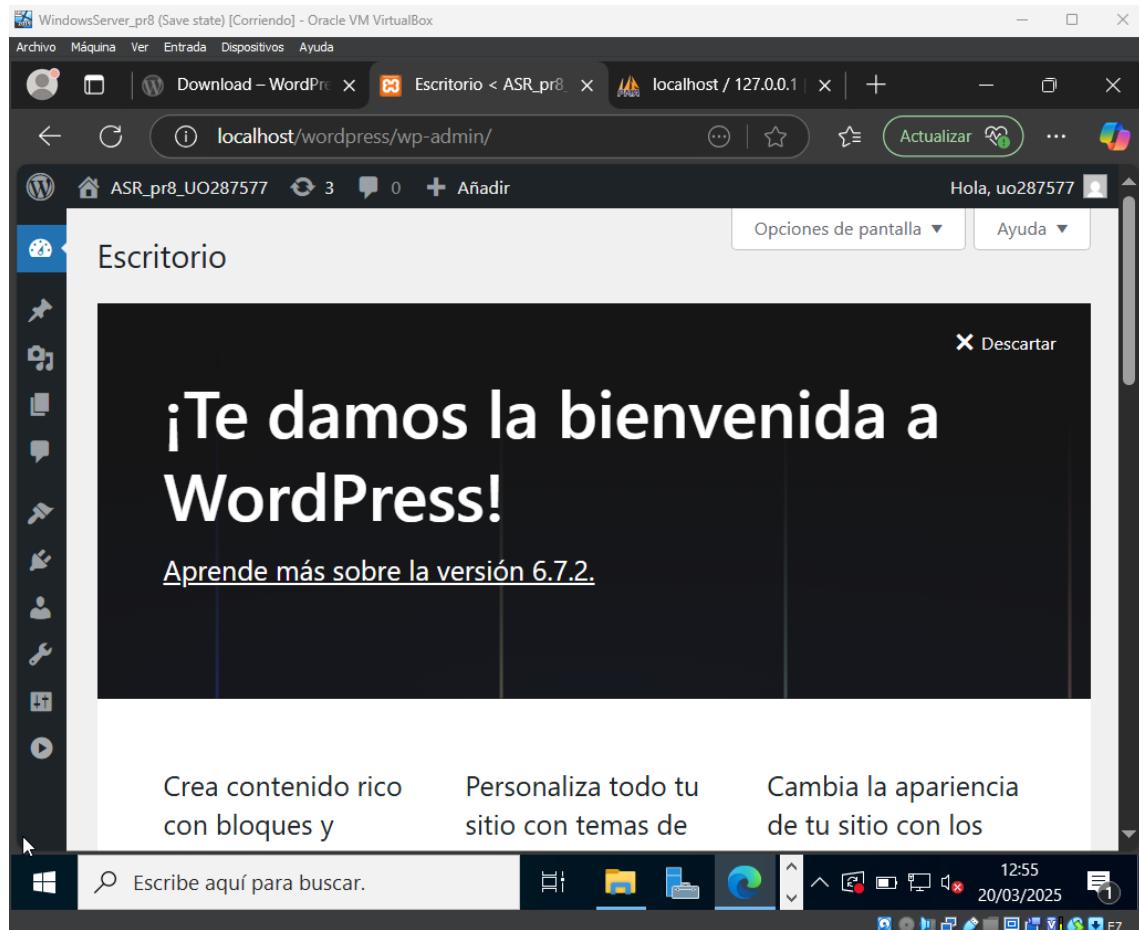
Instalamos Wordpress.



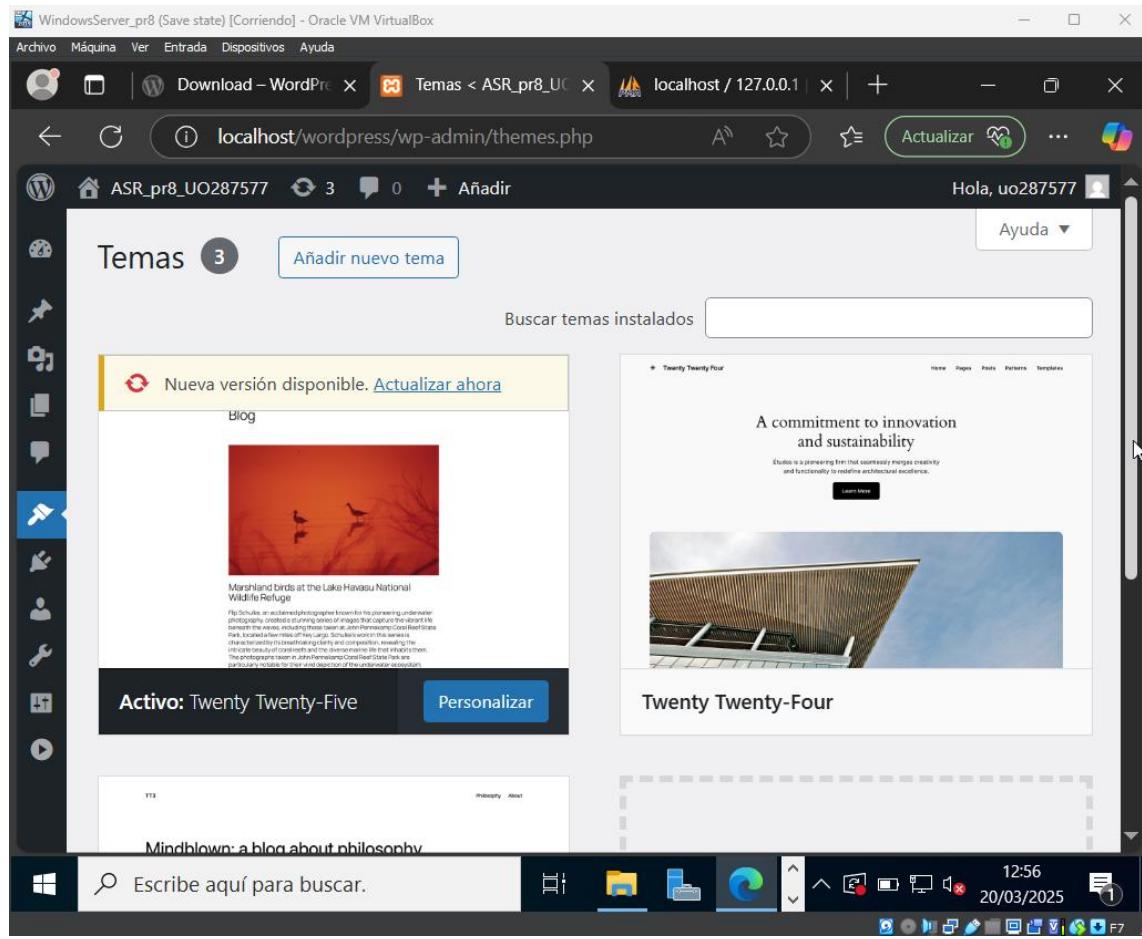


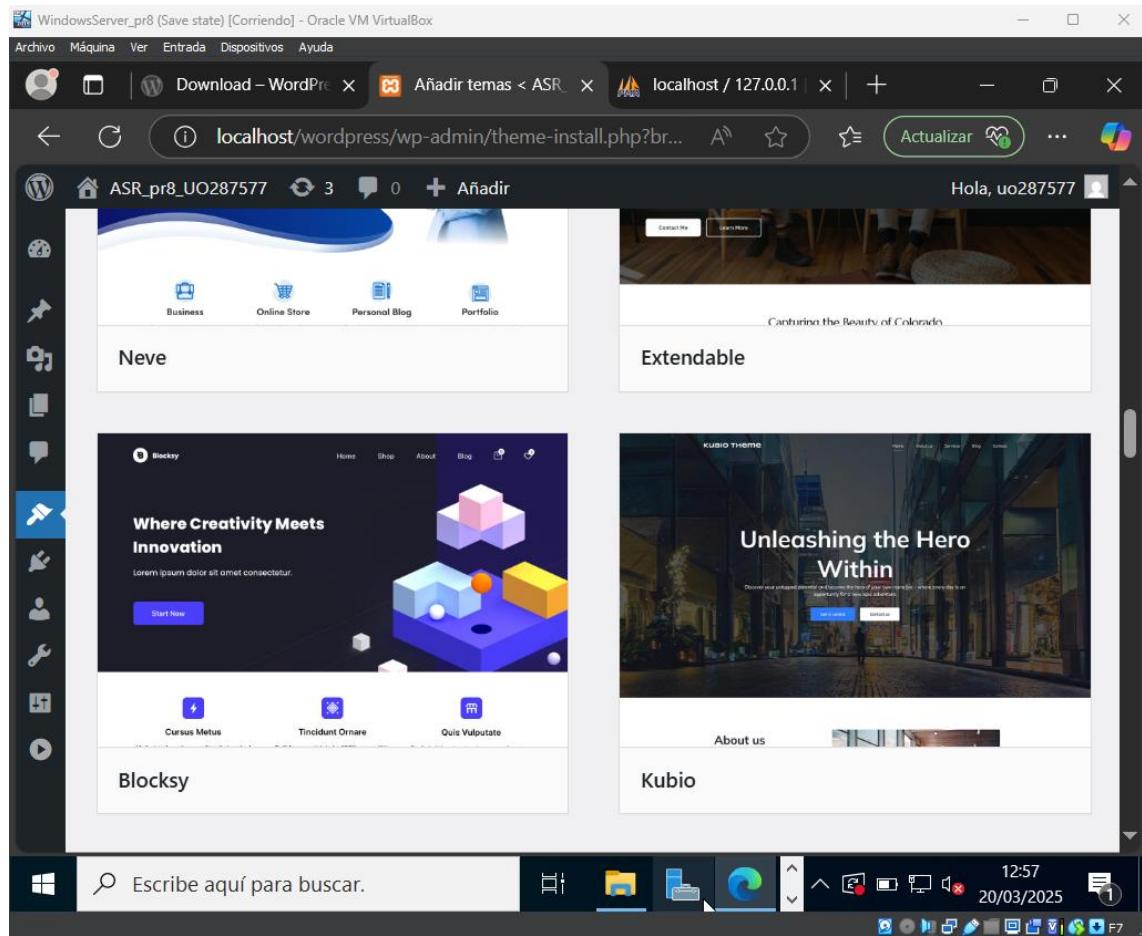
Nos logueamos con el usuario y contraseña del formulario de instalación anterior.

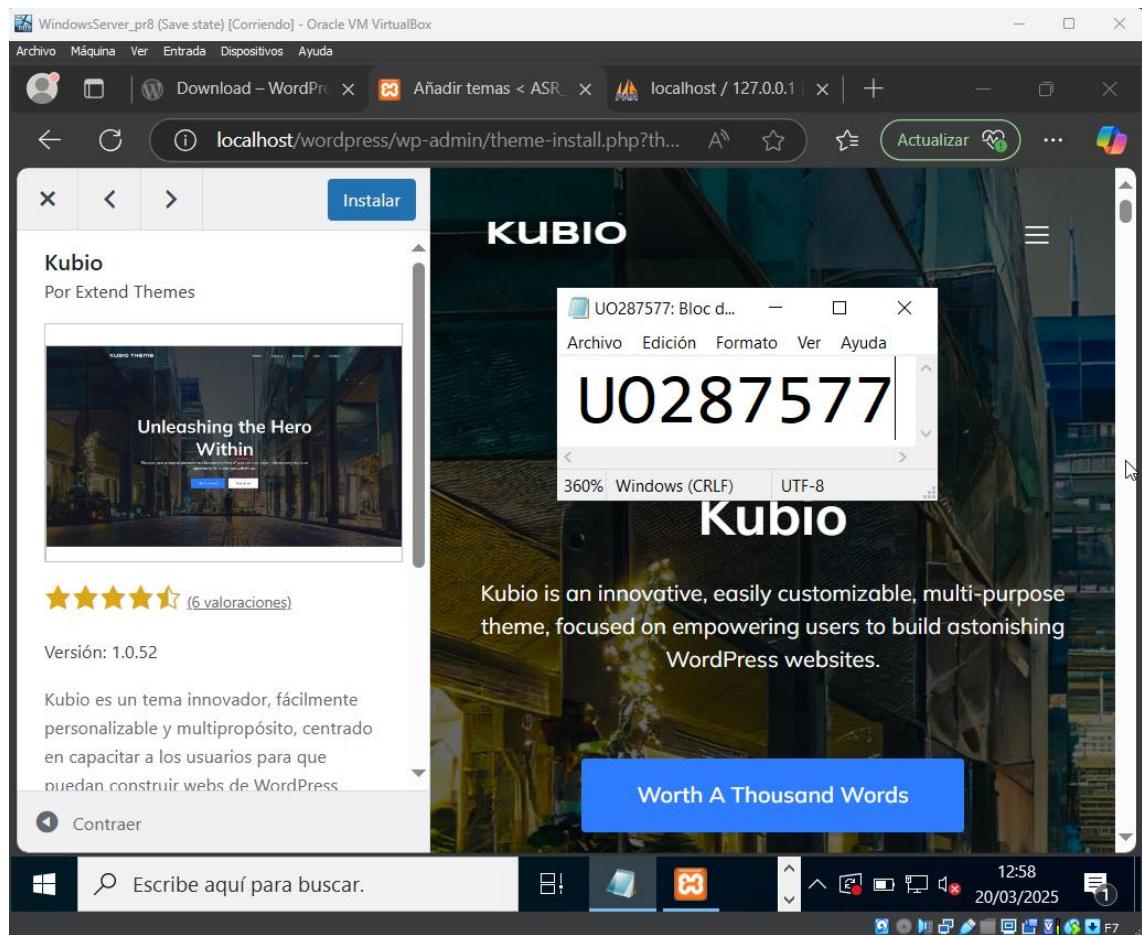


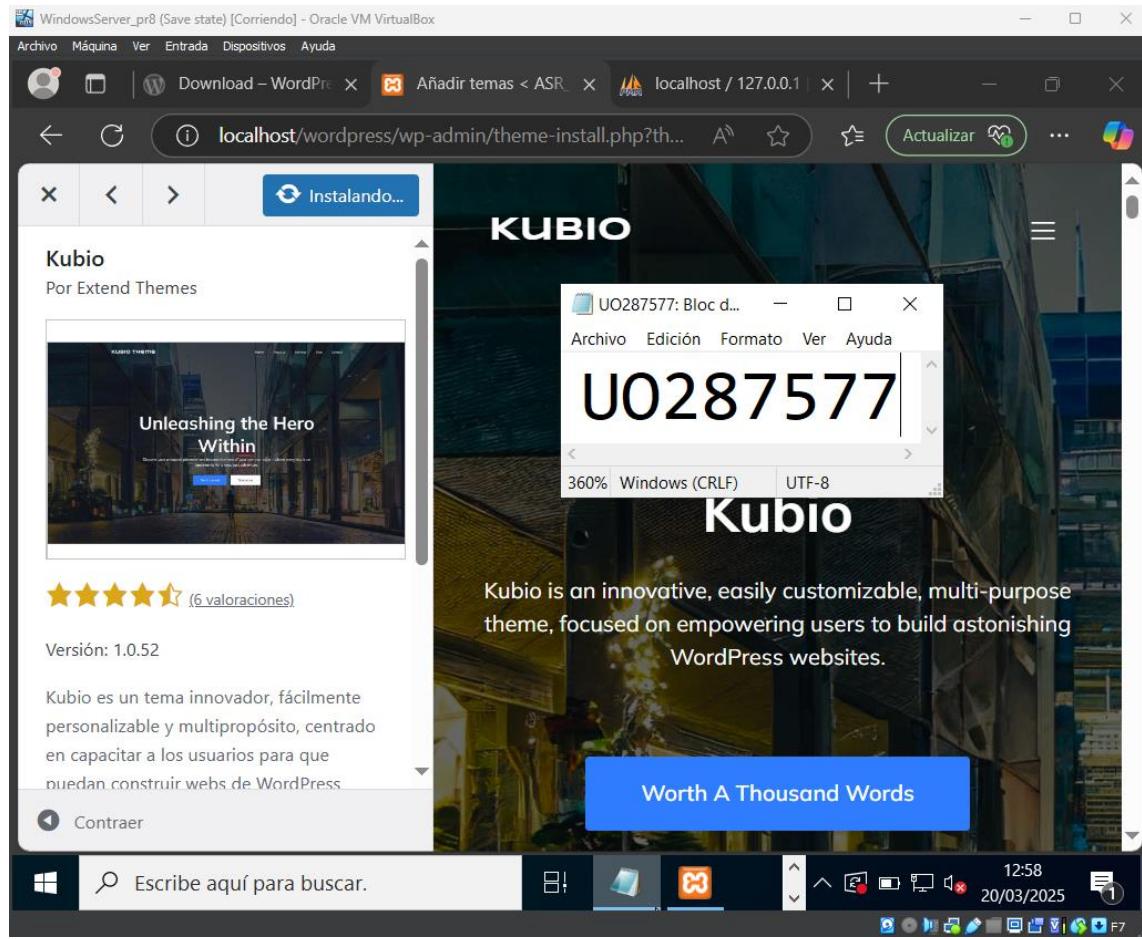


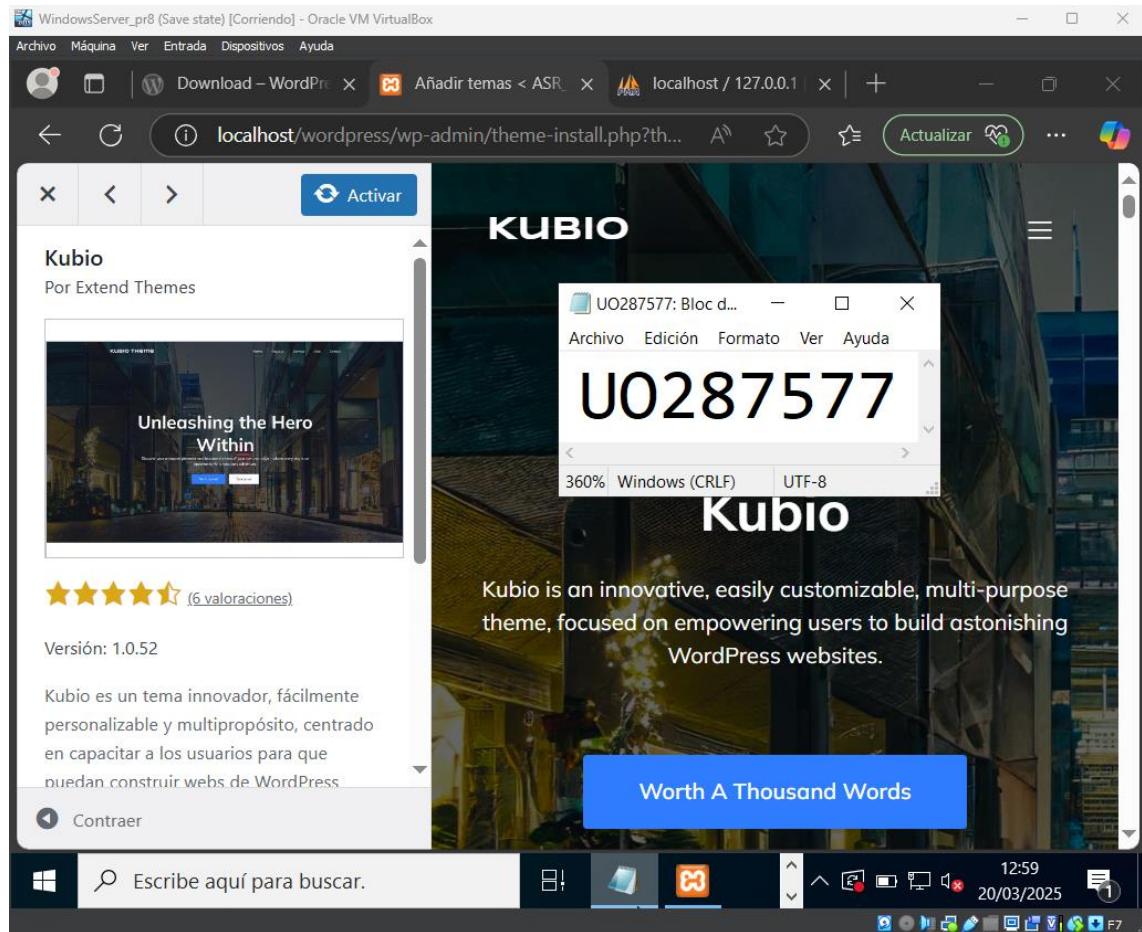
Cambiamos su aspecto visual por uno que no sea el estándar que se proporciona por defecto.

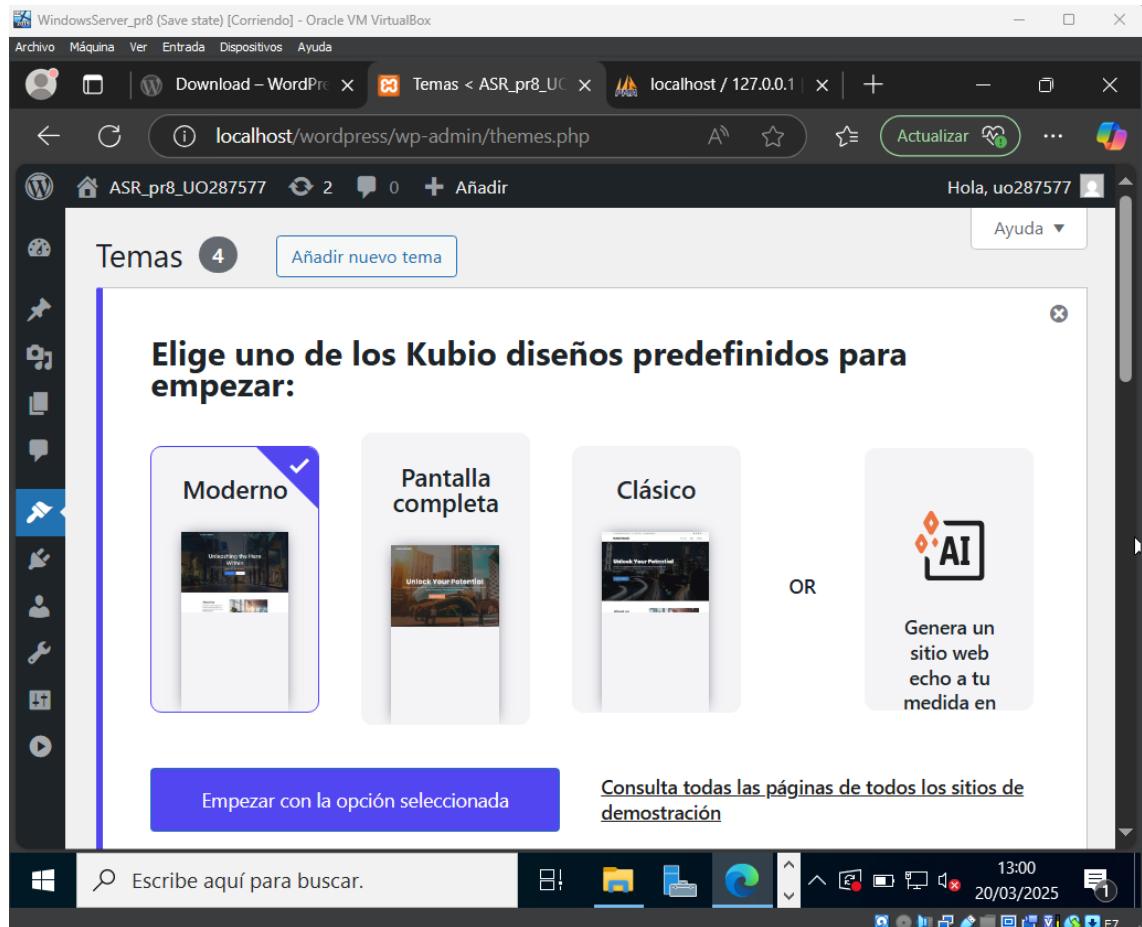


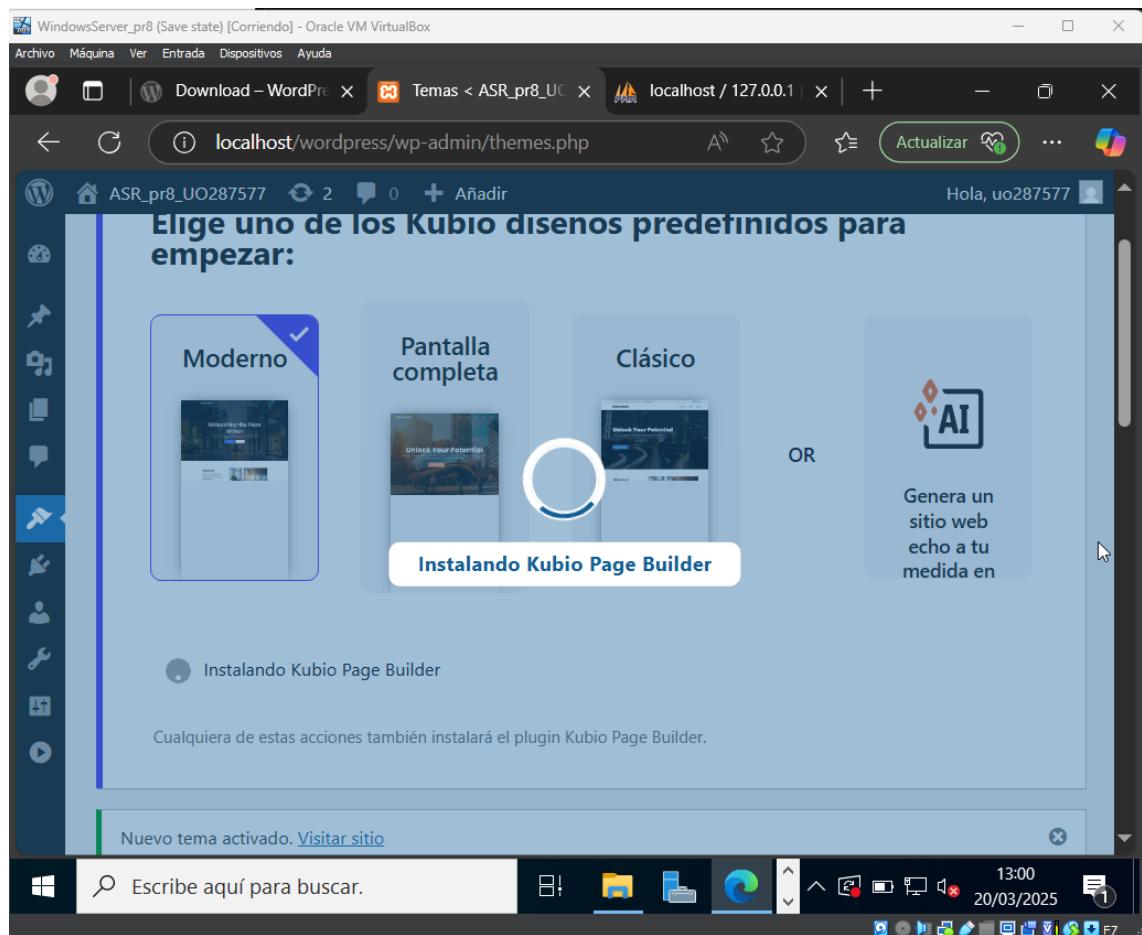




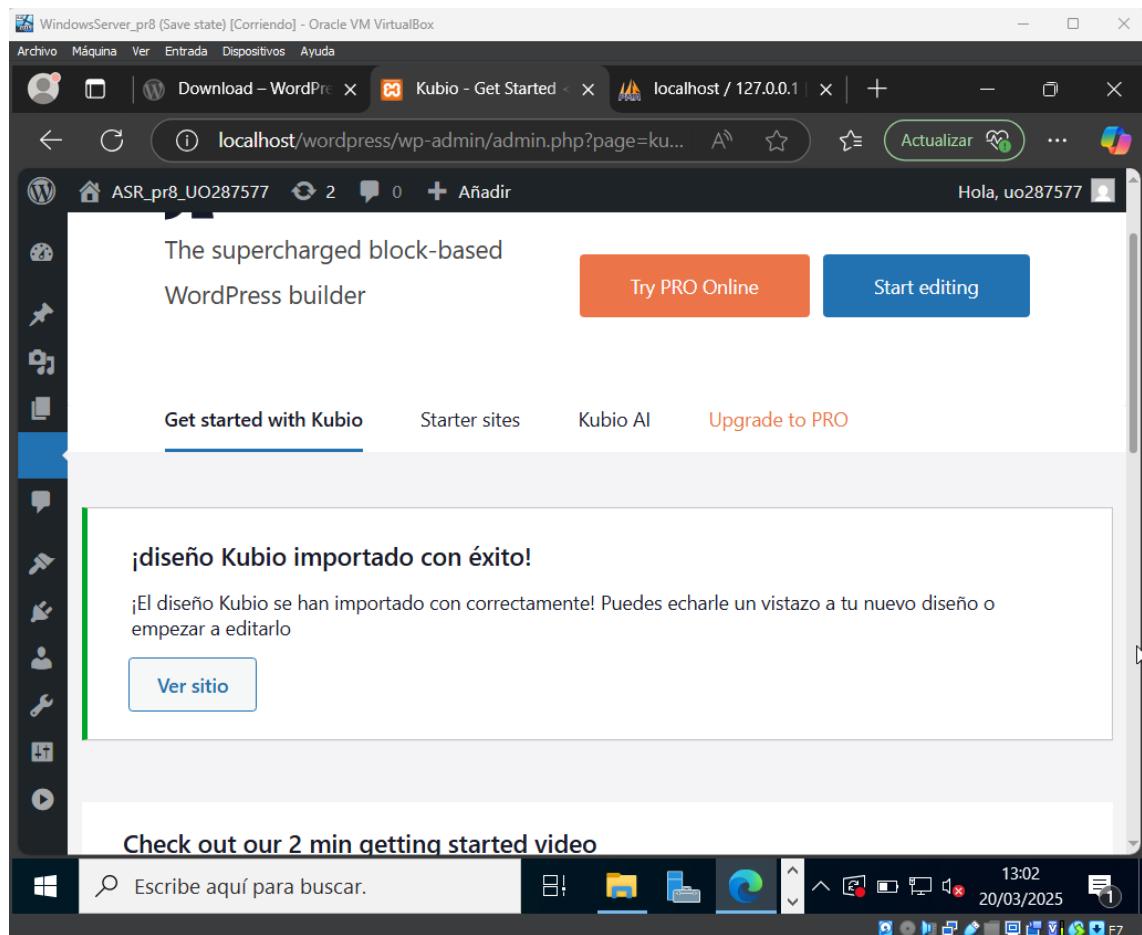


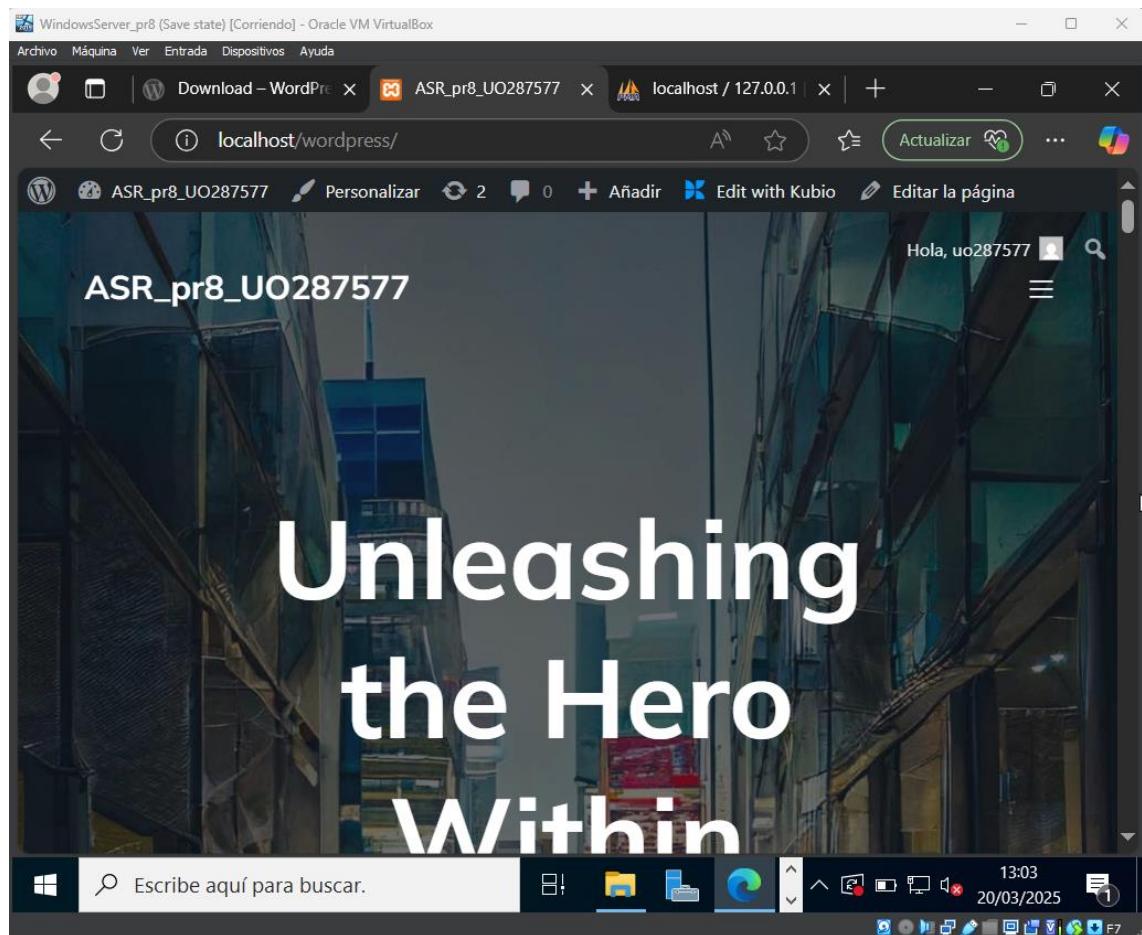




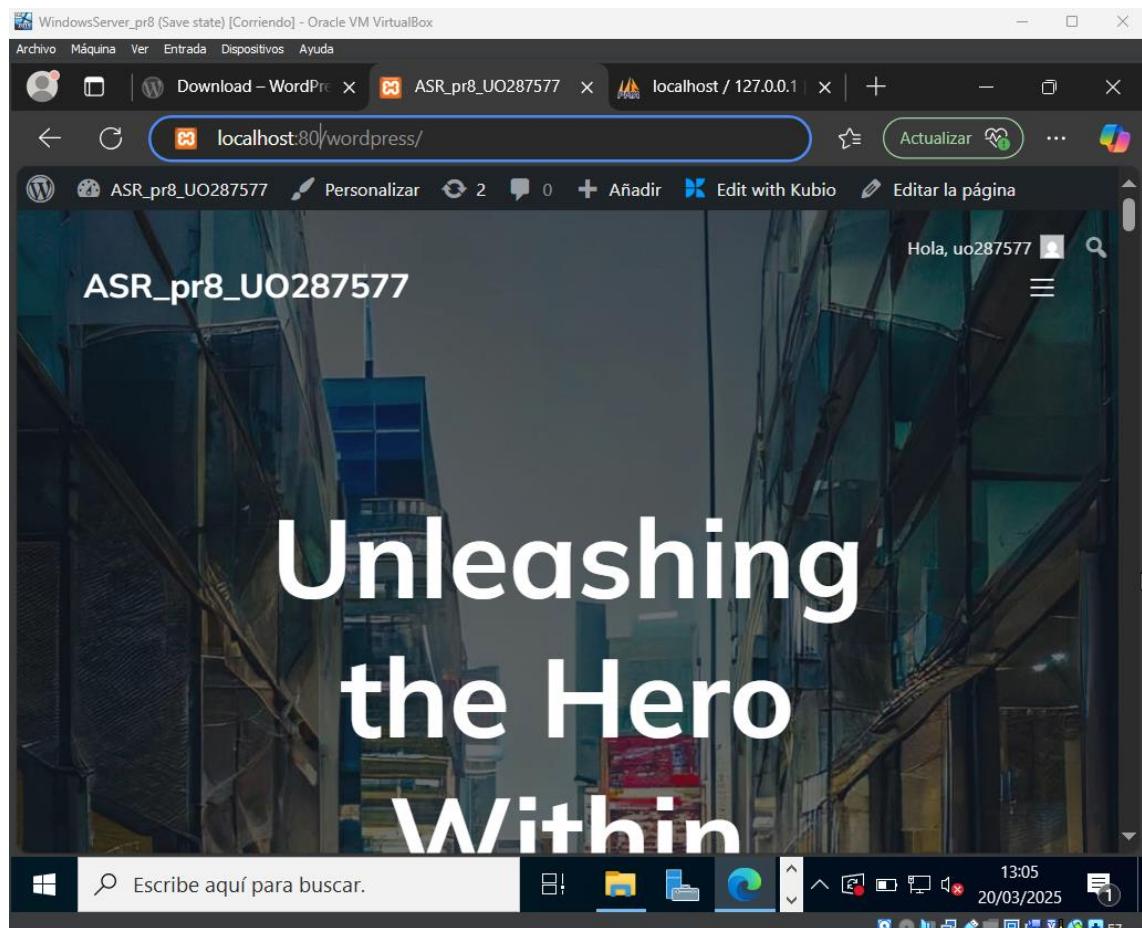


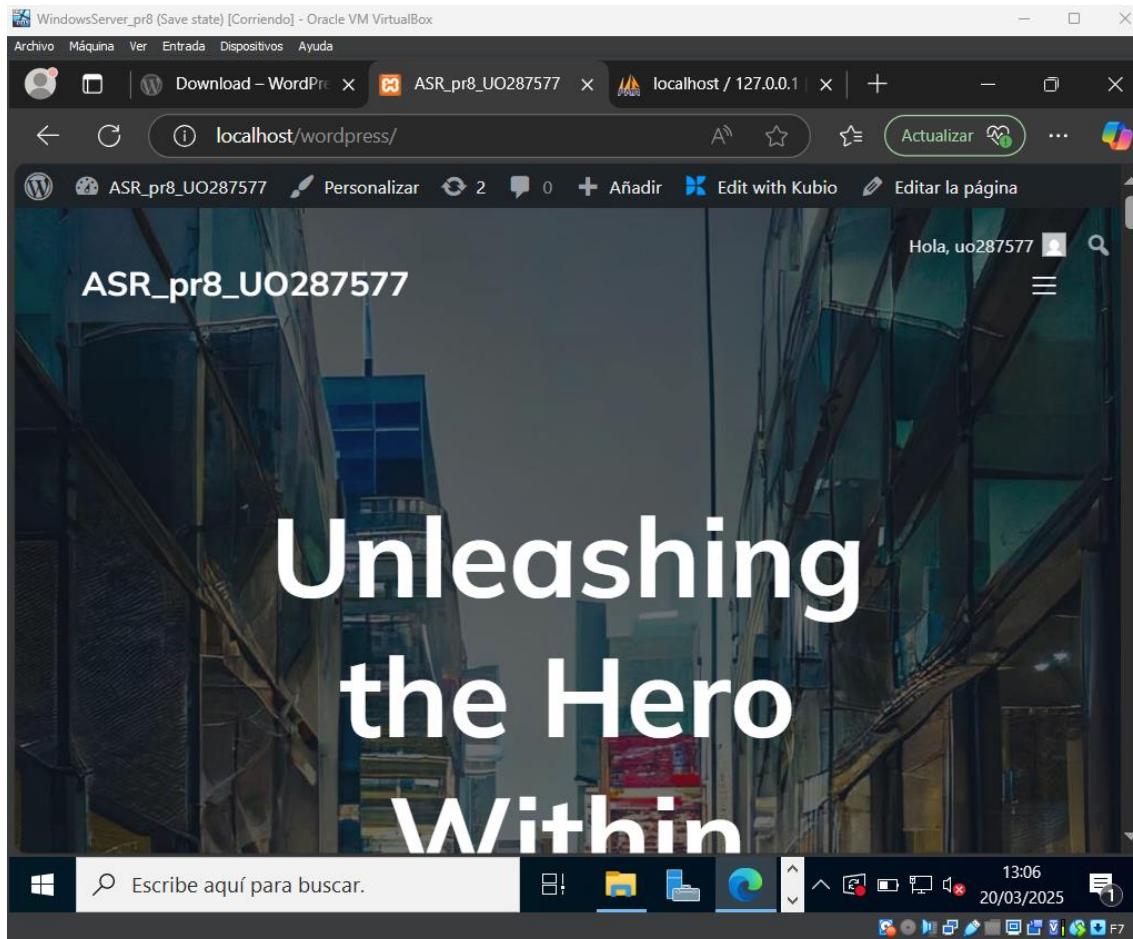
Vemos la página con el nuevo aspecto visual.





Verificamos que funciona en el puerto 80.





En efecto, funciona.

(El puerto 80 indicado en la URL se quita al acceder a la página a través de dicho puerto)

No me he encontrado con ningún problema en esta parte de la práctica, ni siquiera con el problema del puerto 80 mencionado.

Versiones empleadas:

- WordPress 6.7.2
- XAMP for Windows 8.2.12

En la máquina Linux, instalamos el php (y el httpd si no estuviera ya instalado), la base de datos y el interface de php para acceder a la base de datos.

```
# dnf install php mariadb mariadb-server php-mysqlnd
```

```
[U0287577@linux ~]# dnf install php mariadb mariadb-server php-mysqldn
Última comprobación de caducidad de metadatos hecha hace 1:38:02, el jue 20 mar 2025 10
:17:50.
Dependencias resueltas.
=====
Paquete          Arq.    Versión           Repositorio Tam.
=====
Instalando:
mariadb          x86_64  3:10.5.27-1.el9_5   appstream     1.6 M
mariadb-server   x86_64  3:10.5.27-1.el9_5   appstream     9.7 M
php              x86_64  8.0.30-1.el9_2    appstream     7.7 k
php-mysqldn     x86_64  8.0.30-1.el9_2    appstream    148 k
Instalando dependencias:
checkpolicy      x86_64  3.6-1.el9          appstream     351 k
libxslt          x86_64  1.1.34-9.el9       appstream     240 k
mariadb-common   x86_64  3:10.5.27-1.el9_5   appstream     27 k
mariadb-connector-c x86_64  3.2.6-1.el9_0    appstream     194 k
mariadb-connector-c-config x86_64  3.2.6-1.el9_0    appstream     9.7 k
mariadb-errmsg   x86_64  3:10.5.27-1.el9_5   appstream     211 k
mysql-selinux    noarch  1.0.13-1.el9_5    appstream     36 k
nginx-filesystem noarch  2:1.20.1-20.el9.alma.1 appstream     8.3 k
perl-DBD-MariaDB x86_64  1.21-16.el9_0    appstream     151 k
perl-File-Copy   noarch  2.34-481.el9       appstream     19 k
perl-Sys-Hostname x86_64  1.23-481.el9       appstream     16 k
php-common       x86_64  8.0.30-1.el9_2    appstream     665 k
php-pdo           x86_64  8.0.30-1.el9_2    appstream     81 k
policycoreutils-python-utils x86_64  3.6-2.1.el9       appstream     71 k
python3-audit    x86_64  3.1.5-1.el9       appstream     82 k
python3-distro   noarch  1.5.0-7.el9       appstream     36 k
python3-libsemanage x86_64  3.6-2.1.el9_5    appstream     78 k
python3-policycoreutils x86_64  3.6-2.1.el9       appstream     2.0 M
python3-setuptools x86_64  4.4.4-1.el9       baseos       551 k
python3-setuptools x86_64  53.0.0-13.el9     baseos       838 k
Instalando dependencias débiles:
mariadb-backup   x86_64  3:10.5.27-1.el9_5   appstream     6.5 M
mariadb-gssapi-server x86_64  3:10.5.27-1.el9_5   appstream     14 k
mariadb-server-utils x86_64  3:10.5.27-1.el9_5   appstream     210 k
php-cli           x86_64  8.0.30-1.el9_2    appstream     3.1 M
php-fpm           x86_64  8.0.30-1.el9_2    appstream     1.6 M
php-mbstring      x86_64  8.0.30-1.el9_2    appstream     468 k
php-opcache       x86_64  8.0.30-1.el9_2    appstream     509 k
php-xml            x86_64  8.0.30-1.el9_2    appstream     131 k
Resumen de la transacción
=====
Instalar 32 Paquetes
=====
Tamaño total de la descarga: 30 M
Tamaño instalado: 160 M
¿Está de acuerdo [s/N]?:
```

```

Verificando      : mysql-selinux-1.0.13-1.el9_5.noarch          12/32
Verificando      : nginx-filesystem-2:1.20.1-20.el9.alma.1.noarch 13/32
Verificando      : perl-DBD-MariaDB-1.21-16.el9_0.x86_64        14/32
Verificando      : perl-File-Copy-2.34-481.el9.noarch           15/32
Verificando      : perl-Sys-Hostname-1.23-481.el9.x86_64        16/32
Verificando      : php-8.0.30-1.el9_2.x86_64                   17/32
Verificando      : php-cli-8.0.30-1.el9_2.x86_64                 18/32
Verificando      : php-common-8.0.30-1.el9_2.x86_64              19/32
Verificando      : php-fpm-8.0.30-1.el9_2.x86_64                20/32
Verificando      : php-mbstring-8.0.30-1.el9_2.x86_64            21/32
Verificando      : php-mysqlnd-8.0.30-1.el9_2.x86_64             22/32
Verificando      : php-opcache-8.0.30-1.el9_2.x86_64            23/32
Verificando      : php-pdo-8.0.30-1.el9_2.x86_64               24/32
Verificando      : php-xml-8.0.30-1.el9_2.x86_64                25/32
Verificando      : policycoreutils-python-utils-3.6-2.1.el9.noarch 26/32
Verificando      : python3-audit-3.1.5-1.el9.x86_64            27/32
Verificando      : python3-distro-1.5.0-7.el9.noarch           28/32
Verificando      : python3-libsemanage-3.6-2.1.el9_5.x86_64    29/32
Verificando      : python3-policycoreutils-3.6-2.1.el9.noarch 30/32
Verificando      : python3-setools-4.4.4-1.el9.x86_64            31/32
Verificando      : python3-setuptools-53.0.0-13.el9.noarch         32/32

Instalado:
checkpolicy-3.6-1.el9.x86_64
libxslt-1.1.34-9.el9.x86_64
mariadb-3:10.5.27-1.el9_5.x86_64
mariadb-backup-3:10.5.27-1.el9_5.x86_64
mariadb-common-3:10.5.27-1.el9_5.x86_64
mariadb-connector-c-3.2.6-1.el9_0.x86_64
mariadb-connector-c-config-3.2.6-1.el9_0.noarch
mariadb-errmsg-3:10.5.27-1.el9_5.x86_64
mariadb-gssapi-server-3:10.5.27-1.el9_5.x86_64
mariadb-server-3:10.5.27-1.el9_5.x86_64
mariadb-server-utils-3:10.5.27-1.el9_5.x86_64
mysql-selinux-1.0.13-1.el9_5.noarch
nginx-filesystem-2:1.20.1-20.el9.alma.1.noarch
perl-DBD-MariaDB-1.21-16.el9_0.x86_64
perl-File-Copy-2.34-481.el9.noarch
perl-Sys-Hostname-1.23-481.el9.x86_64
php-8.0.30-1.el9_2.x86_64
php-cli-8.0.30-1.el9_2.x86_64
php-common-8.0.30-1.el9_2.x86_64
php-fpm-8.0.30-1.el9_2.x86_64
php-mbstring-8.0.30-1.el9_2.x86_64
php-mysqlnd-8.0.30-1.el9_2.x86_64
php-opcache-8.0.30-1.el9_2.x86_64
php-pdo-8.0.30-1.el9_2.x86_64
php-xml-8.0.30-1.el9_2.x86_64
policycoreutils-python-utils-3.6-2.1.el9.noarch
python3-audit-3.1.5-1.el9.x86_64
python3-distro-1.5.0-7.el9.noarch
python3-libsemanage-3.6-2.1.el9_5.x86_64
python3-policycoreutils-3.6-2.1.el9.noarch
python3-setools-4.4.4-1.el9.x86_64
python3-setuptools-53.0.0-13.el9.noarch

¡Listo!
[U0287577@linux ~]#
```

Abrimos el cortafuegos si no lo está ya.

```

# firewall-cmd --permanent --zone=internal --add-service=http

# firewall-cmd --permanent --zone=internal --add-service=https

# firewall-cmd --reload
```

```
[U0287577@linux ~]# firewall-cmd --permanent --zone=internal --add-service=http
Warning: ALREADY_ENABLED: http
success
[U0287577@linux ~]# firewall-cmd --permanent --zone=internal --add-service=https
success
[U0287577@linux ~]# firewall-cmd --reload
usage: 'firewall-cmd --help' for usage information or see firewall-cmd(1) man page
firewall-cmd: error: unrecognized arguments: -reload
[U0287577@linux ~]# firewall-cmd -reload
usage: 'firewall-cmd --help' for usage information or see firewall-cmd(1) man page
firewall-cmd: error: unrecognized arguments: -reload
[U0287577@linux ~]# firewall-cmd --reload
success
[U0287577@linux ~]#
```

Iniciamos servicios.

```
# systemctl restart httpd.service
```

```
# systemctl enable httpd.service
```

```
[U0287577@linux ~]# systemctl restart httpd.service
[U0287577@linux ~]# systemctl enable httpd.service
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[U0287577@linux ~]#
```

```
# systemctl restart mariadb.service
```

```
# systemctl enable mariadb.service
```

```
[U0287577@linux ~]# systemctl restart mariadb.service
[U0287577@linux ~]# systemctl enable mariadb.service
Created symlink /etc/systemd/system/mysql.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/mysqld.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /usr/lib/systemd/system/mariadb.service.
[U0287577@linux ~]#
```

Hacemos segura la instalación de la base de datos poniendo clave al usuario root.

```
# mysql_secure_installation
```

```
[U0287577@linux ~]# mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
haven't set the root password yet, you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password or using the unix_socket ensures that nobody
can log into the MariaDB root user without the proper authorisation.

You already have your root account protected, so you can safely answer 'n'.

Switch to unix_socket authentication [Y/n] n
... skipping.

You already have your root account protected, so you can safely answer 'n'.

Change the root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!

By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
them. This is intended only for testing, and to make the installation
go a bit smoother. You should remove them before moving into a
production environment.

Remove anonymous users? [Y/n] n
... skipping.

Normally, root should only be allowed to connect from 'localhost'. This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] n
... skipping.

By default, MariaDB comes with a database named 'test' that anyone can
access. This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n] n
... skipping.

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] █
```

```

haven't set the root password yet, you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password or using the unix_socket ensures that nobody
can log into the MariaDB root user without the proper authorisation.

You already have your root account protected, so you can safely answer 'n'.

Switch to unix_socket authentication [Y/n] n
... skipping.

You already have your root account protected, so you can safely answer 'n'.

Change the root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!

By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
them. This is intended only for testing, and to make the installation
go a bit smoother. You should remove them before moving into a
production environment.

Remove anonymous users? [Y/n] n
... skipping.

Normally, root should only be allowed to connect from 'localhost'. This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] n
... skipping.

By default, MariaDB comes with a database named 'test' that anyone can
access. This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n] n
... skipping.

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] n
... skipping.

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
[U0287577@linux ~]# █

```

Creamos una base de datos para Joomla y un usuario con privilegios para acceder a ella.

```

# mysql -u root -p

create database base_joomla;

create user usuario_joomla@localhost identified by 'clave_joomla';

grant all privileges on base_joomla.* to usuario_joomla@localhost;

flush privileges;

```

```
exit;
```

```
[U0287577@linux ~]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 7
Server version: 10.5.27-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database base_joomla;
Query OK, 1 row affected (0,000 sec)

MariaDB [(none)]> create user usuario_joomla@localhost identified by 'clave_joomla';
Query OK, 0 rows affected (0,015 sec)

MariaDB [(none)]> grant all privileges on base_joomla.* to usuario_joomla@localhost;
Query OK, 0 rows affected (0,014 sec)

MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0,001 sec)

MariaDB [(none)]> exit;
Bye
[U0287577@linux ~]#
```

Descargamos y descomprimimos Joomla, es posible que haya que instalar tar y wget:

```
# dnf install tar wget
```

```
[U0287577@linux ~]# dnf install tar wget
Última comprobación de caducidad de metadatos hecha hace 1:50:07, el jue 20 mar 2025 10
:17:50.
Dependencias resueltas.
=====
Paquete      Arquitectura    Versión          Repositorio      Tam.
=====
Instalando:
tar          x86_64          2:1.34-7.el9      baseos            876 k
wget         x86_64          1.21.1-8.el9_4    appstream        768 k

Resumen de la transacción
=====
Instalar 2 Paquetes

Tamaño total de la descarga: 1.6 M
Tamaño instalado: 6.1 M
¿Está de acuerdo [s/N]?: s
Descargando paquetes:
(1/2): wget-1.21.1-8.el9_4.x86_64.rpm           213 kB/s | 768 kB   00:03
(2/2): tar-2:1.34-7.el9.x86_64.rpm              234 kB/s | 876 kB   00:03
Total                                         305 kB/s | 1.6 MB   00:05

Ejecutando verificación de operación
Verificación de operación exitosa.
Ejecutando prueba de operaciones
Prueba de operación exitosa.
Ejecutando operación
  Preparando          :                                     1/1
  Instalando         : tar-2:1.34-7.el9.x86_64          1/2
  Instalando         : wget-1.21.1-8.el9_4.x86_64       2/2
  Ejecutando scriptlet: wget-1.21.1-8.el9_4.x86_64     2/2
  Verificando        : wget-1.21.1-8.el9_4.x86_64       1/2
  Verificando        : tar-2:1.34-7.el9.x86_64          2/2

Instalado:
tar-2:1.34-7.el9.x86_64                      wget-1.21.1-8.el9_4.x86_64

iListo!
[U0287577@linux ~]#
```

```
# mkdir /var/www/html/joomla
# cd /var/www/html/joomla
# wget https://downloads.joomla.org/es/cms/joomla3/3-9-25/Joomla\_3-9-25-Stable-Full\_Package.tar.gz
```

```
[U0287577@linux ~]# mkdir /var/www/html/joomla
[U0287577@linux ~]# cd /var/www/html/joomla
[U0287577@linux joomla]# wget https://downloads.joomla.org/es/cms/joomla3/3-9-25/Joomla_3-9-25-Stable-Full_Package.tar.gz
--2025-03-20 12:10:10-- https://downloads.joomla.org/es/cms/joomla3/3-9-25/Joomla_3-9-25-Stable-Full_Package.tar.gz
Resolviendo downloads.joomla.org (downloads.joomla.org)... 104.26.14.15, 172.67.74.86, 104.26.15.15
Conectando con downloads.joomla.org (downloads.joomla.org)[104.26.14.15]:443... conectado.
Petición HTTP enviada, esperando respuesta... 303 See Other
Localización: https://s3-us-west-2.amazonaws.com/joomladownload/joomla3/Joomla\_3.9.25-Stable-Full\_Package.tar.gz?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIA6LXDJLNUINX2AVMH%2F20250320%2Fus-west-2%2Fs3%2Faws4\_request&X-Amz-Date=20250320T122108Z&X-Amz-Expires=60&X-Amz-SignedHeaders=host&X-Amz-Signature=5e0a459a4e778eb49aa22d5f63df53ba38f5fc9295287c181fbe4d4199da9c80 [siguiendo]
--2025-03-20 12:10:16-- https://s3-us-west-2.amazonaws.com/joomladownload/joomla3/Joomla_3.9.25-Stable-Full_Package.tar.gz?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIA6LXDJLNUINX2AVMH%2F20250320%2Fus-west-2%2Fs3%2Faws4_request&X-Amz-Date=20250320T122108Z&X-Amz-Expires=60&X-Amz-SignedHeaders=host&X-Amz-Signature=5e0a459a4e778eb49aa22d5f63df53ba38f5fc9295287c181fbe4d4199da9c80
Resolviendo s3-us-west-2.amazonaws.com (s3-us-west-2.amazonaws.com)... 52.92.249.208, 52.92.177.8, 52.218.221.64, ...
Conectando con s3-us-west-2.amazonaws.com (s3-us-west-2.amazonaws.com)[52.92.249.208]:443... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 9859811 (9,4M) [application/x-gzip]
Grabando a: «Joomla_3-9-25-Stable-Full_Package.tar.gz»
Joomla_3-9-25-Stable- 100%[=====] 9,40M 127KB/s en 64s
2025-03-20 12:11:22 (150 KB/s) - «Joomla_3-9-25-Stable-Full_Package.tar.gz» guardado [9859811/9859811]
[U0287577@linux joomla]#
```

```
# tar -xf Joomla_3-9-25-Stable-Full_Package.tar.gz
```

```
[U0287577@linux joomla]# tar -xf Joomla_3-9-25-Stable-Full_Package.tar.gz
[U0287577@linux joomla]# ls
administrator images layouts README.txt
bin includes libraries robots.txt.dist
cache index.php LICENSE.txt templates
cli installation media tmp
components Joomla_3-9-25-Stable-Full_Package.tar.gz modules web.config.txt
htaccess.txt language plugins
[U0287577@linux joomla]#
```

```
# chown -R apache:apache /var/www/html/joomla
```

```
# chmod -R 755 /var/www/html/joomla
```

```
# chcon -R -h -t httpd_sys_content_t /var/www/html/joomla
```

```
[U0287577@linux joomla]# chown -R apache:apache /var/www/html/joomla
[U0287577@linux joomla]# chmod -R 755 /var/www/html/joomla
[U0287577@linux joomla]# chcon -R -h -t httpd_sys_content_t /var/www/html/joomla
[U0287577@linux joomla]#
```

```
[U0287577@linux joomla]# ls -l
total 9700
drwxr-xr-x. 11 apache apache    159 feb 27 2021 administrator
drwxr-xr-x.  2 apache apache     44 feb 27 2021 bin
drwxr-xr-x.  2 apache apache     24 feb 27 2021 cache
drwxr-xr-x.  2 apache apache    169 feb 27 2021 cli
drwxr-xr-x. 20 apache apache   4096 feb 27 2021 components
-rw xr-xr-x.  1 apache apache   3407 feb 27 2021 htaccess.txt
drwxr-xr-x.  5 apache apache    118 feb 27 2021 images
drwxr-xr-x.  2 apache apache     64 feb 27 2021 includes
-rw xr-xr-x.  1 apache apache   1420 feb 27 2021 index.php
drwxr-xr-x. 14 apache apache   4096 feb 27 2021 installation
-rw xr-xr-x.  1 apache apache 9859811 mar  2 2021 Joomla_3-9-25-Stable-Full_Package.tar
.gz
drwxr-xr-x.  4 apache apache     54 feb 27 2021 language
drwxr-xr-x.  5 apache apache    70 feb 27 2021 layouts
drwxr-xr-x. 12 apache apache   4096 feb 27 2021 libraries
-rw xr-xr-x.  1 apache apache 18092 feb 27 2021 LICENSE.txt
drwxr-xr-x. 30 apache apache   4096 feb 27 2021 media
drwxr-xr-x. 27 apache apache   4096 feb 27 2021 modules
drwxr-xr-x. 19 apache apache   4096 feb 27 2021 plugins
-rw xr-xr-x.  1 apache apache   4793 feb 27 2021 README.txt
-rw xr-xr-x.  1 apache apache    748 feb 27 2021 robots.txt.dist
drwxr-xr-x.  5 apache apache     68 feb 27 2021 templates
drwxr-xr-x.  2 apache apache     24 feb 27 2021 tmp
-rw xr-xr-x.  1 apache apache   1859 feb 27 2021 web.config.txt
[U0287577@linux joomla]#
```

Editamos el archivo /etc/httpd/conf/httpd.conf de la siguiente forma:

```
[U0287577@linux joomla]# nano /etc/httpd/conf/httpd.conf
```

```

GNU nano 5.6.1           /etc/httpd/conf/httpd.conf      Modificado
# ServerAdmin: Your address, where problems with the server should be
# e-mailed. This address appears on some server-generated pages, such
# as error documents. e.g. admin@your-domain.com
#
ServerAdmin uo287577@uniovi.es

#
# ServerName gives the name and port that the server uses to identify itself.
# This can often be determined automatically, but we recommend you specify
# it explicitly to prevent problems during startup.
#
# If your host doesn't have a registered DNS name, enter its IP address here.
#
ServerName www.midominio.local:80

#
# Deny access to the entirety of your server's filesystem. You must
# explicitly permit access to web content directories in other
# <Directory> blocks below.
#
<Directory />
    AllowOverride none
    Require all denied
</Directory>

#
# Note that from this point forward you must specifically allow
# particular features to be enabled - so if something's not working as
# you might expect, make sure that you have specifically enabled it
# below.
#
#
# DocumentRoot: The directory out of which you will serve your
# documents. By default, all requests are taken from this directory, but
# symbolic links and aliases may be used to point to other locations.
#
DocumentRoot "/var/www/html/joomla"

#
# Relax access to content within /var/www.
#
<Directory "/var/www/html/joomla">
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>
```

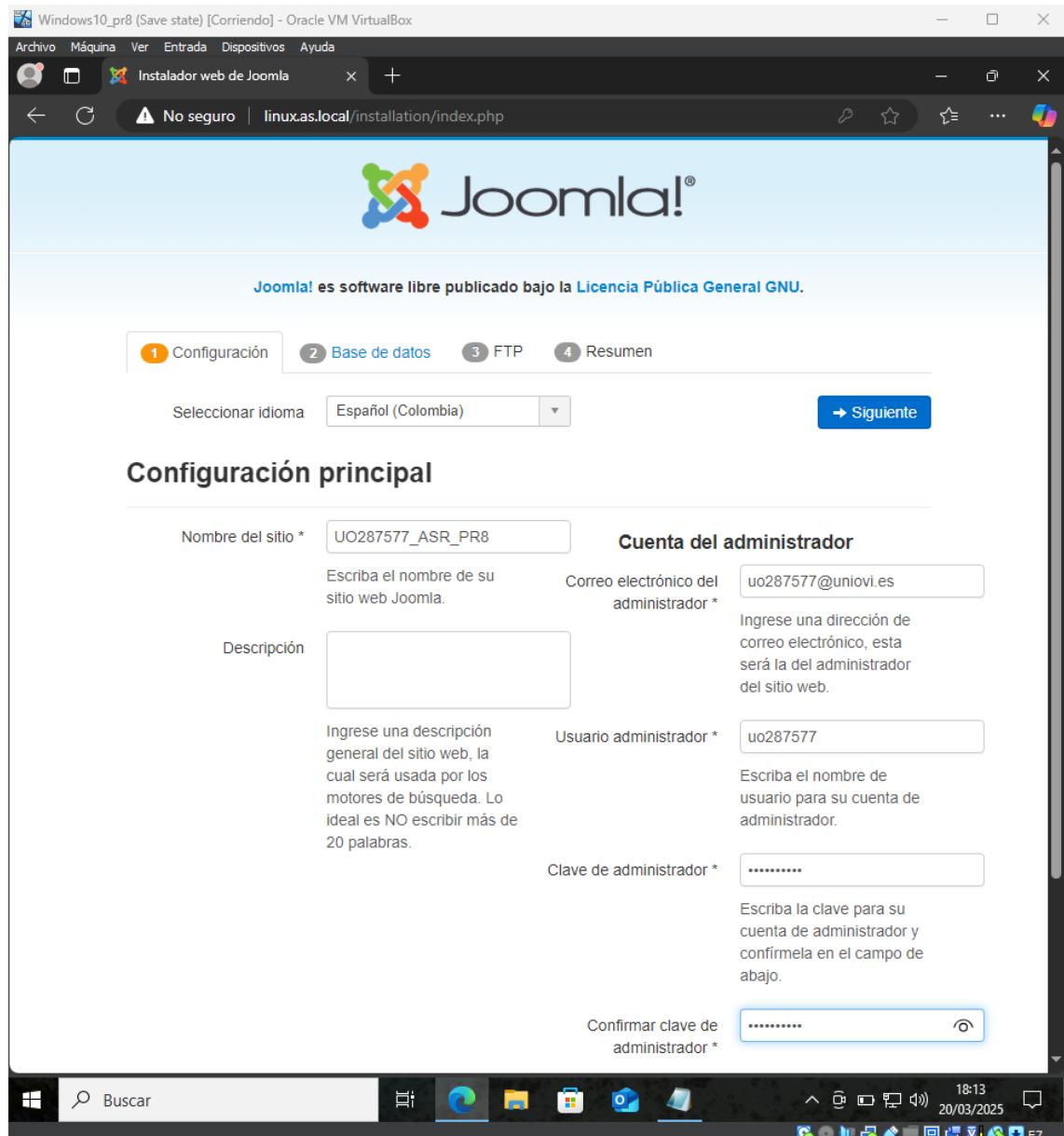
Reiniciamos Apache y activamos el modo permisivo SELinux (para evitar que el modo “enforcing” este bloquee ciertas acciones del servicio httpd).

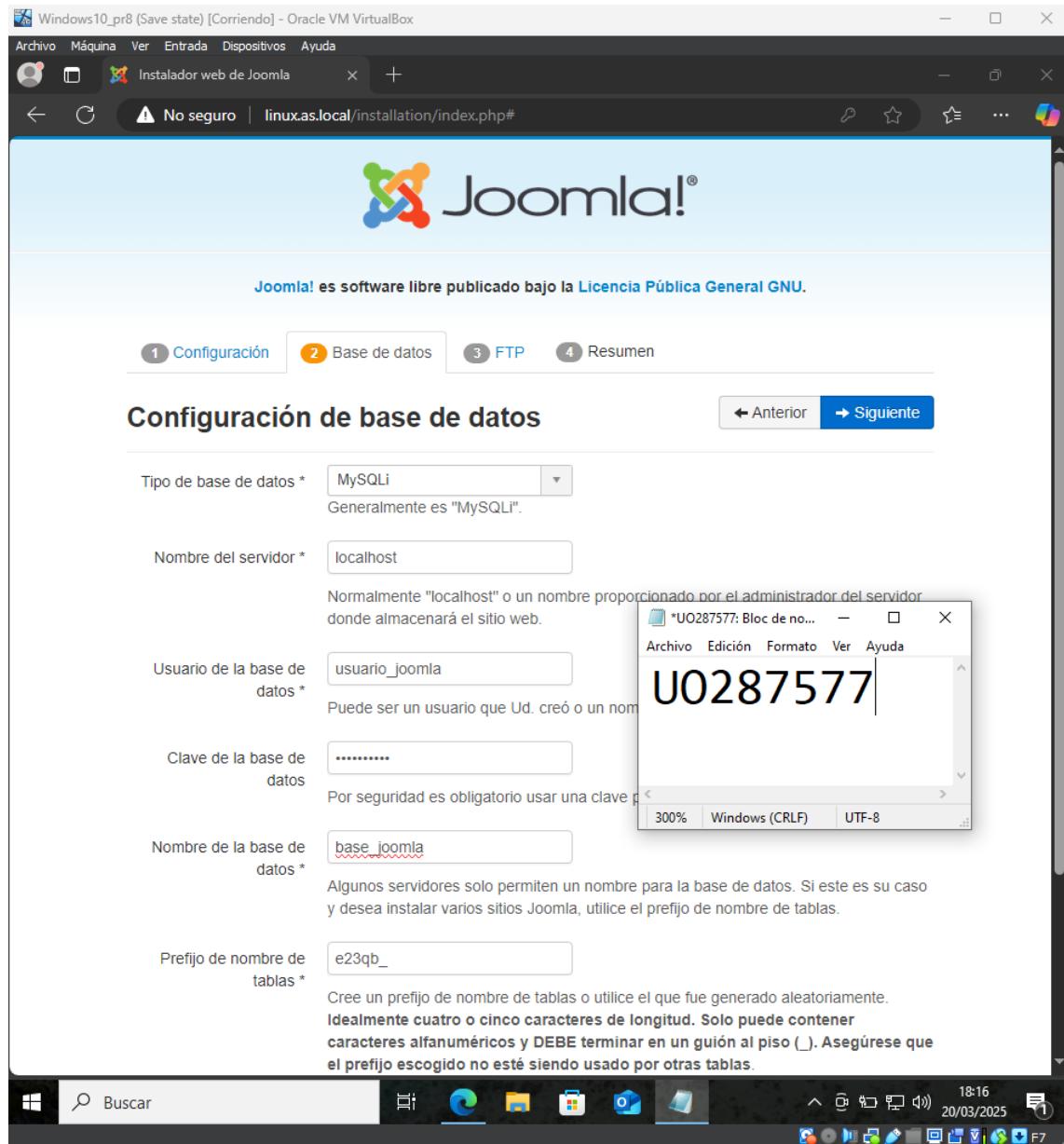
```
[U0287577@linux joomla]# systemctl restart httpd
[U0287577@linux joomla]# systemctl enable httpd
[U0287577@linux joomla]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Drop-In: /usr/lib/systemd/system/httpd.service.d
             └─php-fpm.conf
     Active: active (running) since Thu 2025-03-20 12:25:12 CET; 10s ago
       Docs: man:httpd.service(8)
   Main PID: 3748 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served: 0"
      Tasks: 177 (limit: 10992)
    Memory: 21.4M
      CPU: 165ms
     CGroup: /system.slice/httpd.service
             ├─3748 /usr/sbin/httpd -DFOREGROUND
             ├─3749 /usr/sbin/httpd -DFOREGROUND
             ├─3750 /usr/sbin/httpd -DFOREGROUND
             ├─3751 /usr/sbin/httpd -DFOREGROUND
             └─3752 /usr/sbin/httpd -DFOREGROUND

mar 20 12:25:12 linux.as.local systemd[1]: Starting The Apache HTTP Server...
mar 20 12:25:12 linux.as.local systemd[1]: Started The Apache HTTP Server.
mar 20 12:25:12 linux.as.local httpd[3748]: Server configured, listening on: port 80
[U0287577@linux joomla]# setenforce 0
[U0287577@linux joomla]# █
```

Accedemos desde la máquina de Windows 10 a linux.as.local y se nos mostrará la ventana de instalación de Joomla.

Rellenamos los siguientes formularios.





Windows10_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Instalador web de Joomla

No seguro | linux.as.local/installation/index.php#

Joomla!®

Joomla! es software libre publicado bajo la Licencia Pública General GNU.

1 Configuración 2 Base de datos 3 Resumen

Últimos detalles

← Anterior → Instalar

Instalar contenido de ejemplo No (Requerido para la creación de un sitio multilingüe básico) Contenido de ejemplo del blog Contenido de ejemplo de publicidad Contenido de ejemplo básico Contenido de ejemplo para aprender Joomla

Si es principiante, le recomendamos instalar el contenido de ejemplo. Esta opción instalará contenido de ejemplo que está incluido en el paquete de instalación de Joomla.

Resumen

Enviar correo electrónico con la configuración Sí No

Enviar un correo electrónico con los parámetros de configuración a uo287577@uniovi.es al terminar la instalación.

Configuración principal

Nombre del sitio	UO287577_ASR_PR8
Sitio fuera de línea	No
Correo electrónico del administrador	uo287577@uniovi.es

Configuración de base de datos

Tipo de base de datos	mysqli
Nombre del servidor	localhost

Buscar

18:39
20/03/2025

Windows10_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Instalador web de Joomla

No seguro | linux.as.local/installation/index.php#

con la configuración

Enviar un correo electrónico con los parámetros de configuración a uo287577@uniovi.es al terminar la instalación.

Configuración principal

Nombre del sitio	UO287577_ASR_PR8
Sitio fuera de línea	No
Correo electrónico del administrador	uo287577@uniovi.es
Usuario administrador	uo287577

Configuración de base de datos

Tipo de base de datos	mysqli
Nombre del servidor	localhost
Usuario de la base de datos	usuario_joomla
Nombre de la base de datos	base_joomla
Prefijo de nombre de tablas	e23qb_
¿Qué hacer con la base de datos	Copia de seguridad antigua

Chequeo antes de la instalación

Si alguno de estos elementos no cumple (marcado como No), por favor corríjalo.
No puede instalar Joomla hasta que su configuración cumpla con los siguientes requisitos:

Versión de PHP >= 5.3.10	Sí
Comillas mágicas GPC deshabilitadas	Sí
Register Globals deshabilitado	Sí
Soporte de compresión zlib	Sí
Compatibilidad con XML	Sí
Soporte de base de datos: (pdomysql, pdo, mysqli, sqlite)	Sí
MB Language predeterminado	Sí

Configuración recomendada:

Estos son los parámetros de PHP recomendados para un mejor funcionamiento de Joomla, sin embargo, Joomla funcionará si su configuración no concuerda del todo con la recomendada.

Variable	Recomendado	Actual
Modo seguro	Desactivado	Desactivado
Mostrar errores	Desactivado	Desactivado
Subir archivos	Activado	Activado
Magic quotes runtime	Desactivado	Desactivado
Búfer de salida	Desactivado	Activado
Inicio de sesión automático	Desactivado	Desactivado
Soporte nativo de ZIP	Activado	Desactivado

Buscar 18:40
20/03/2025 F7

Instalamos Joomla.

Windows10_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Instalador web de Joomla

⚠️ No seguro | linux.as.local/installation/index.php#

Correo electrónico del administrador: uo287577@univas.es
Usuario administrador: uo287577

Nombre del servidor	localhost
Usuario de la base de datos	usuario_joomla
Nombre de la base de datos	base_joomla
Prefijo de nombre de tablas	e23qb_
¿Qué hacer con la base de datos	Copia de seguridad antigua?

Chequeo antes de la instalación

Si alguno de estos elementos no cumple (marcado como **No**), por favor corríjalo.
No puede instalar Joomla hasta que su configuración cumpla con los siguientes requisitos:

Versión de PHP >= 5.3.10	Sí
Comillas mágicas GPC deshabilitadas	Sí
Register Globals deshabilitado	Sí
Soporte de compresión zlib	Sí
Compatibilidad con XML	Sí
Soporte de base de datos: (pdomysql, pdo, mysqli, sqlite)	Sí
MB Language predeterminado	Sí
Sobrecarga de MB string deshabilitada	Sí
Soporte de parserINI	Sí
Soporte JSON	Sí
configuration.php con permiso de escritura	Sí

Configuración recomendada:

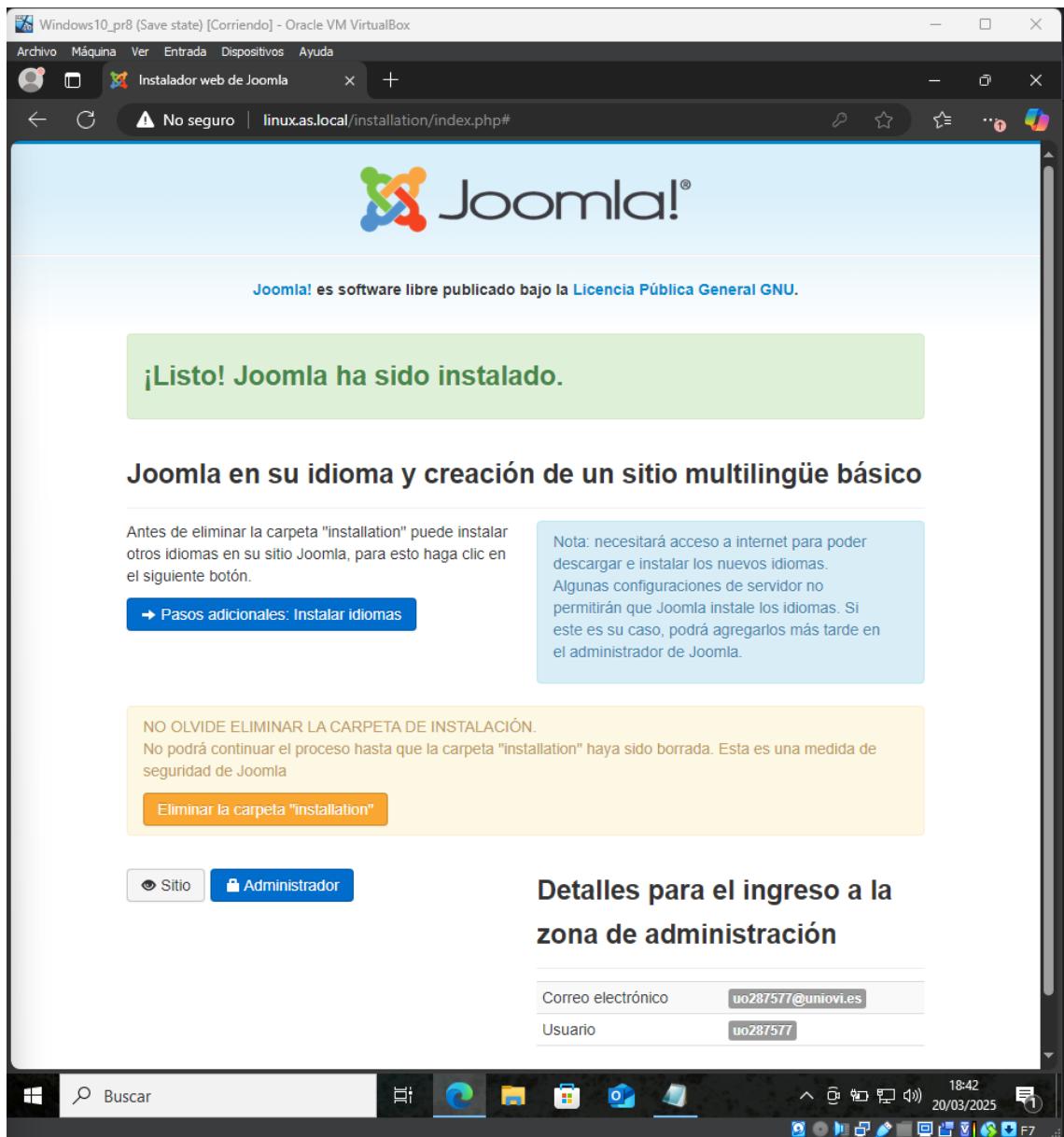
Estos son los parámetros de PHP recomendados para un mejor funcionamiento de Joomla, sin embargo, Joomla funcionará si su configuración no concuerda del todo con la recomendada.

Variable	Recomendado	Actual
Modo seguro	Desactivado	Desactivado
Mostrar errores	Desactivado	Desactivado
Subir archivos	Activado	Activado
Magic quotes runtime	Desactivado	Desactivado
Búfer de salida	Desactivado	Activado
Inicio de sesión automático	Desactivado	Desactivado
Soporte nativo de ZIP	Activado	Desactivado

← Anterior → Instalar

Buscar

18:41 20/03/2025



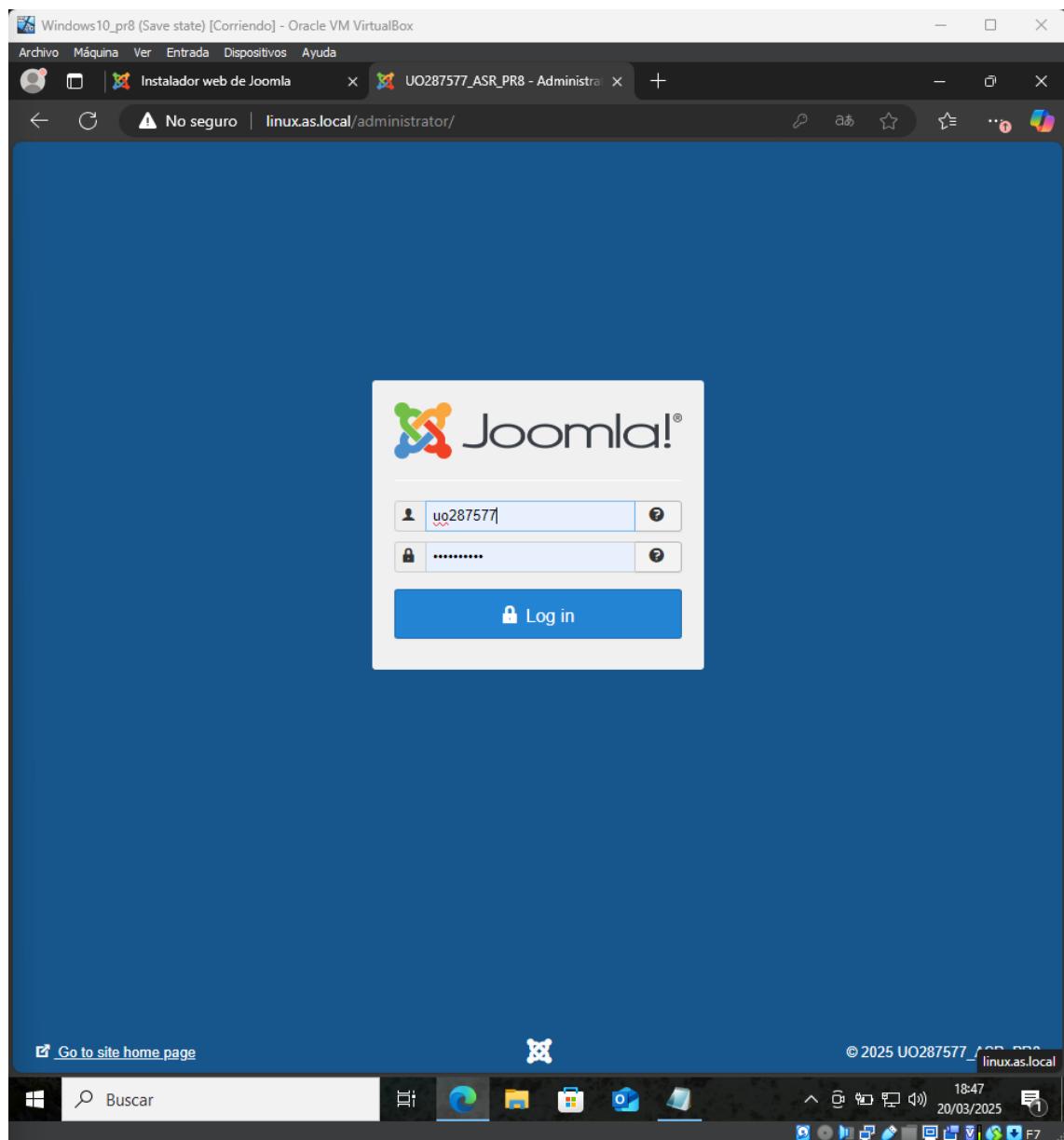
Eliminamos la carpeta “installation” que nos menciona haciendo clic en el botón amarillo de la captura anterior.



Quitamos el modo “enforcing”.

```
[U0287577@linux joomla]# setenforce 1  
[U0287577@linux joomla]#
```

Entramos en `linux.as.local/administrator` e iniciamos sesión con las credenciales del proceso de instalación de Joomla.



Creamos un nuevo artículo.

The screenshot shows the Joomla! Control Panel interface. At the top, there is a modal dialog titled "Joomla! would like your permission to collect some basic statistics." It contains a message about sending site information to a central server and three buttons: "Always", "Once", and "Never".

The main dashboard area has several sections:

- CONTENT**: Includes links for "New Article", "Articles", "Categories", and "Media".
- STRUCTURE**: Includes links for "Menu(s)" and "Modules".
- USERS**: Includes links for "Users" and "No Urgent Requests".
- CONFIGURATION**: Includes links for "Global", "Templates", and "Language(s)".
- EXTENSIONS**: Includes a link for "Install Extensions".

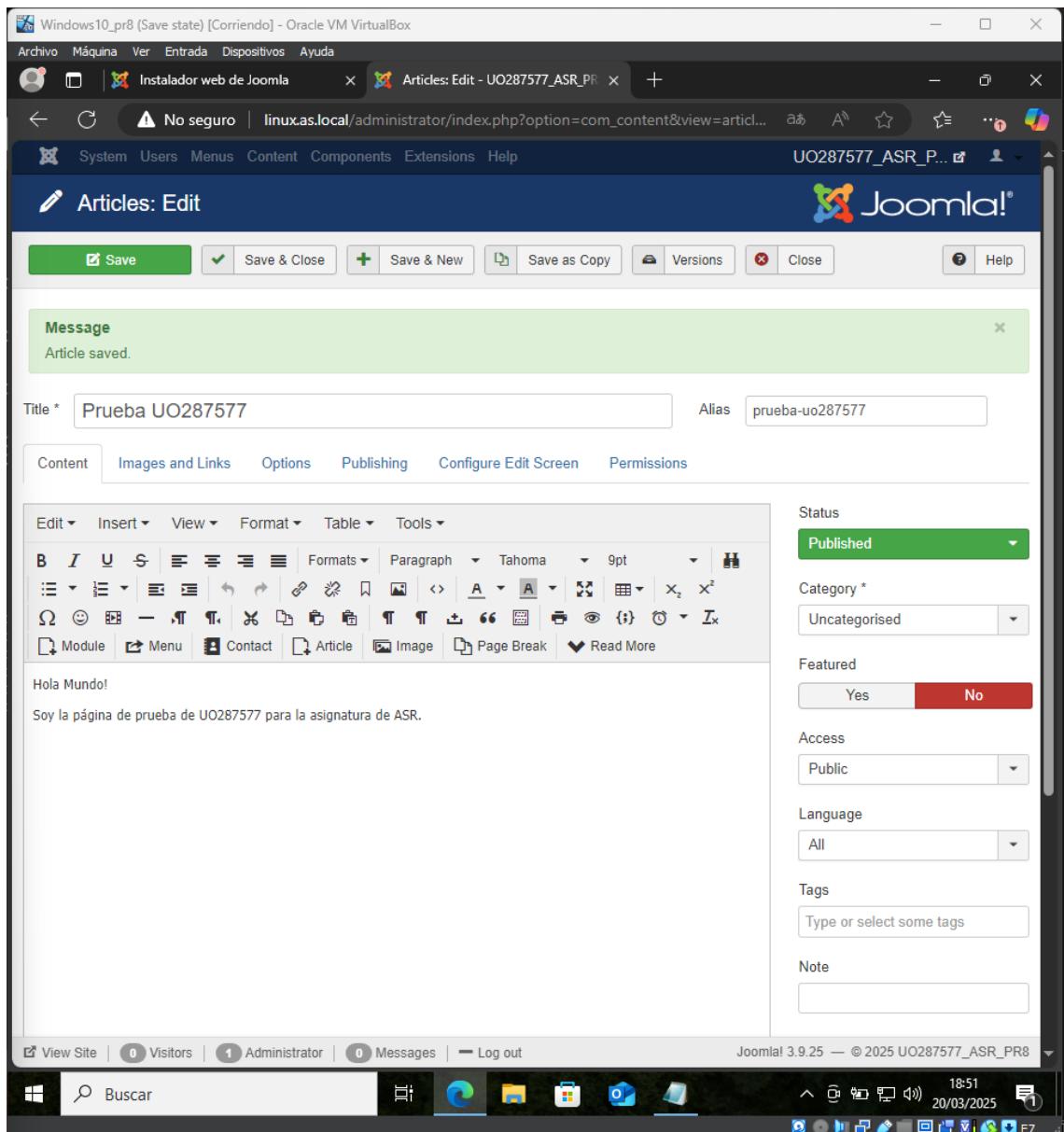
You have post-installation messages: A section with a "Read Messages" button.

SAMPLE DATA: A section with a "Blog Sample data" item, described as sample data for a blog site.

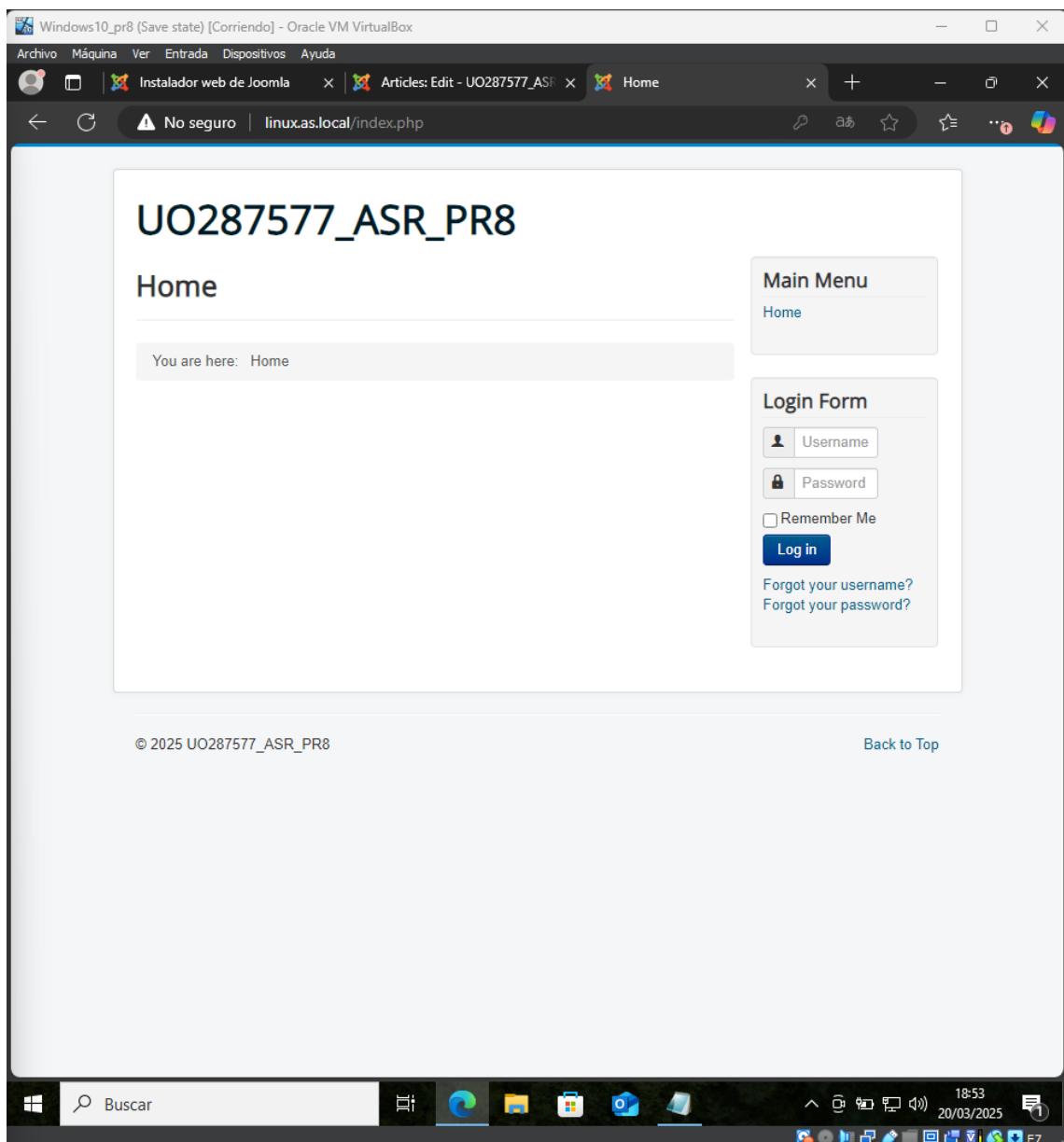
LATEST ACTIONS: A section showing a log entry: "User uc287577 logged in to admin" on "2025-03-20 10:47".

PRIVACY DASHBOARD: A section stating "There are no requests."

At the bottom, the browser address bar shows "linux.as.local/administrator/index.php?option=com_content&task=article.add", the Joomla version is "Joomla! 3.9.25 — © 2025 UO287577_AS_R_PR8", and the system status bar shows the date "20/03/2025" and time "18:48".



Aunque hayamos creado un artículo este todavía no sale en la página.



Para que aparezca creamos un menú ítem.

Windows10_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Instalador web de Joomla Articles - UO287577_ASR_PR8 Home

No seguro | linux.as.local/administrator/index.php?option=com_content&view=articles

System Users Menus Content Components Extensions Help

Articles

New Batch Trash

All Menu Items Site Main Menu Add New Menu Item

Unpublish Feature Unfeature Archive Check-in Help Options

Message Article saved.

Joomla! would like your permission to collect some basic statistics.

To better understand our install base and end user environments it is helpful if you send some site information back to a Joomla! controlled central server. No identifying data is captured at any point. You can change these settings later from Plugins > System - Joomla! Statistics. Select here to see the information that will be sent.

Enable Joomla Statistics?

Always Once Never

Search Search Tools Clear

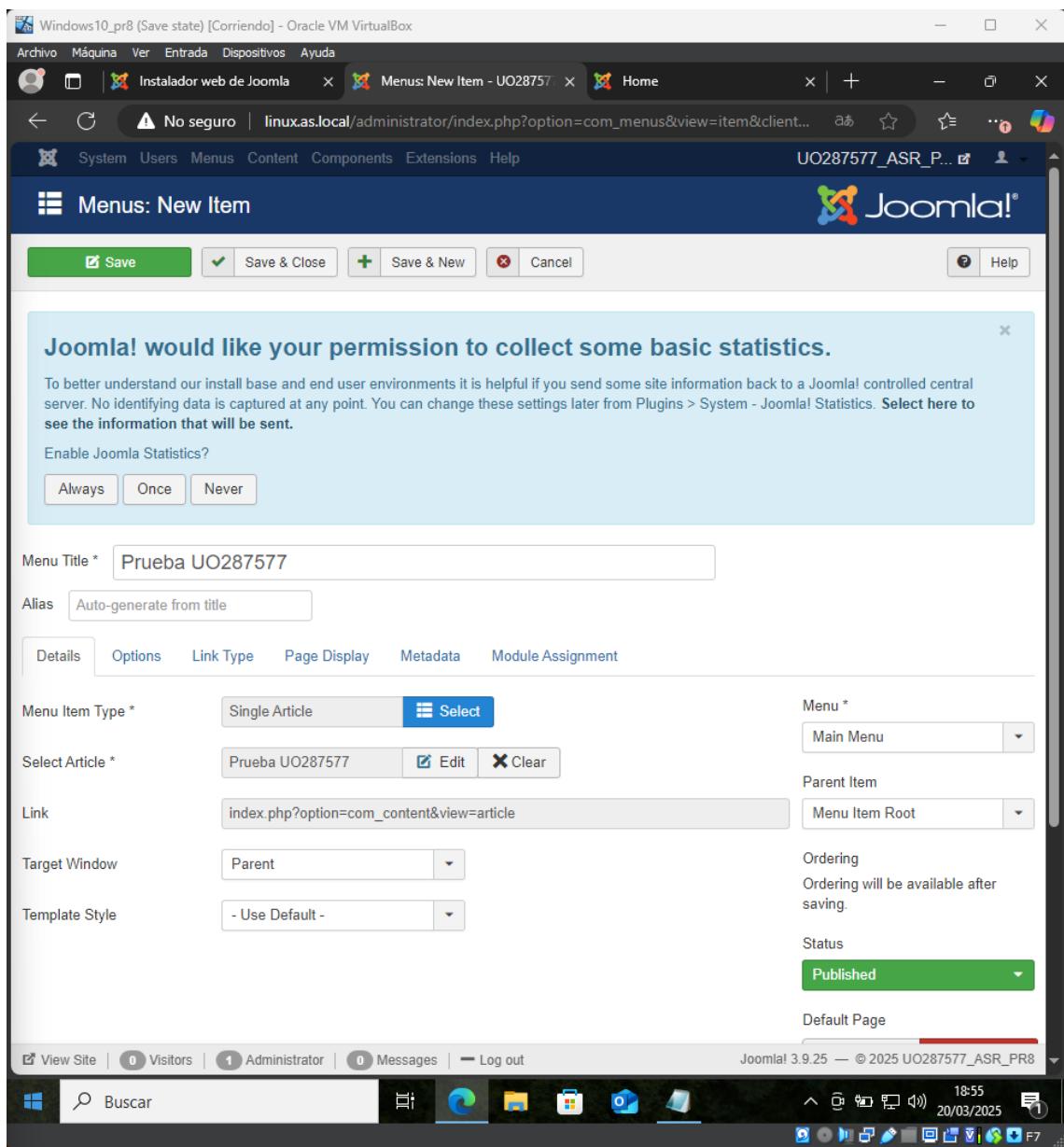
Status Title Access Author Language Date Created Hits ID

	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prueba UO287577 (Alias: prueba -uo287577)	Public	Super User	All	2025-03-20	0	1	
			Category: Uncategorized							

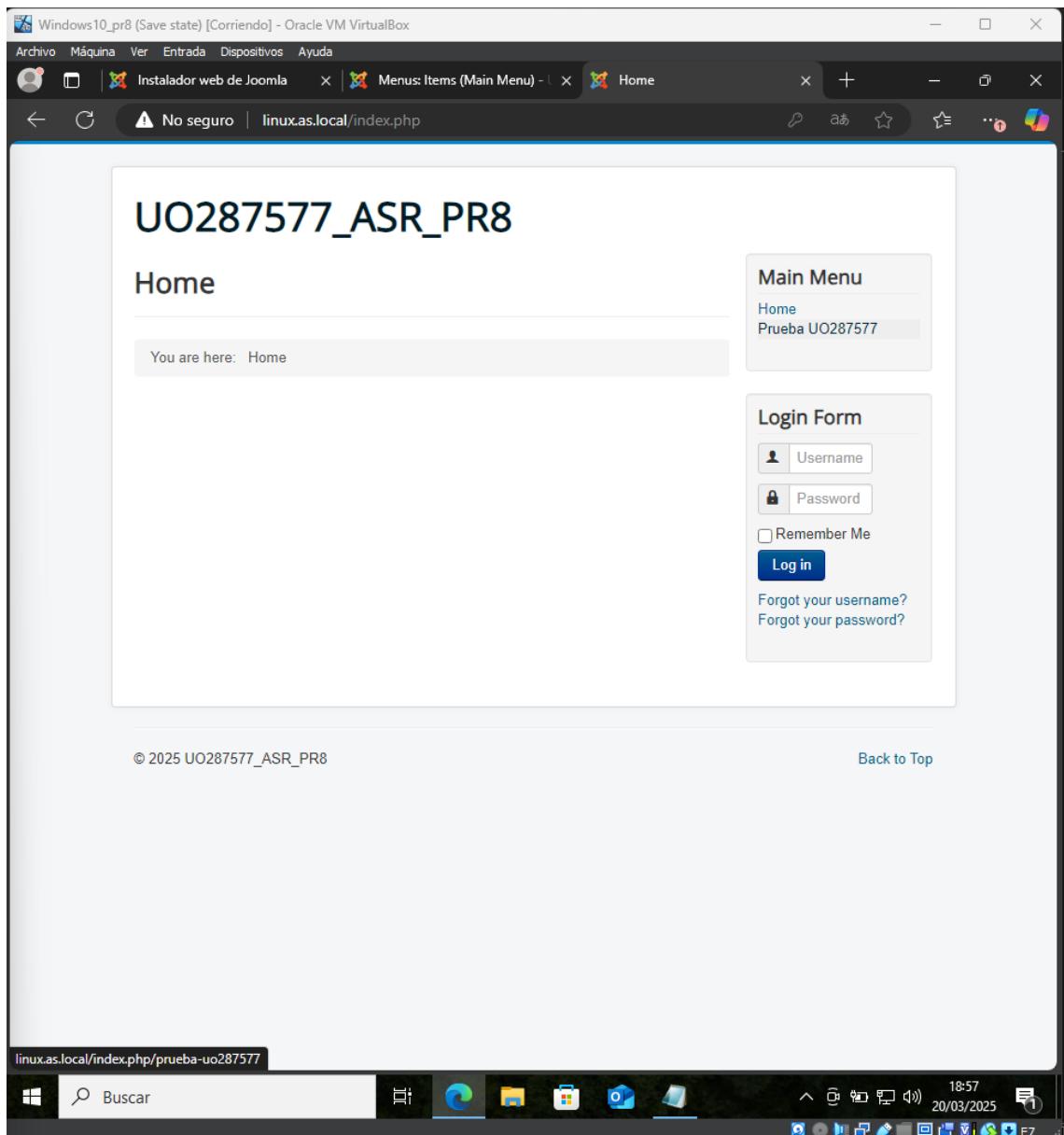
View Site 0 Visitors 1 Administrator 0 Messages Log out Joomla! 3.9.25 — © 2025 UO287577_ASR_PR8

Buscar

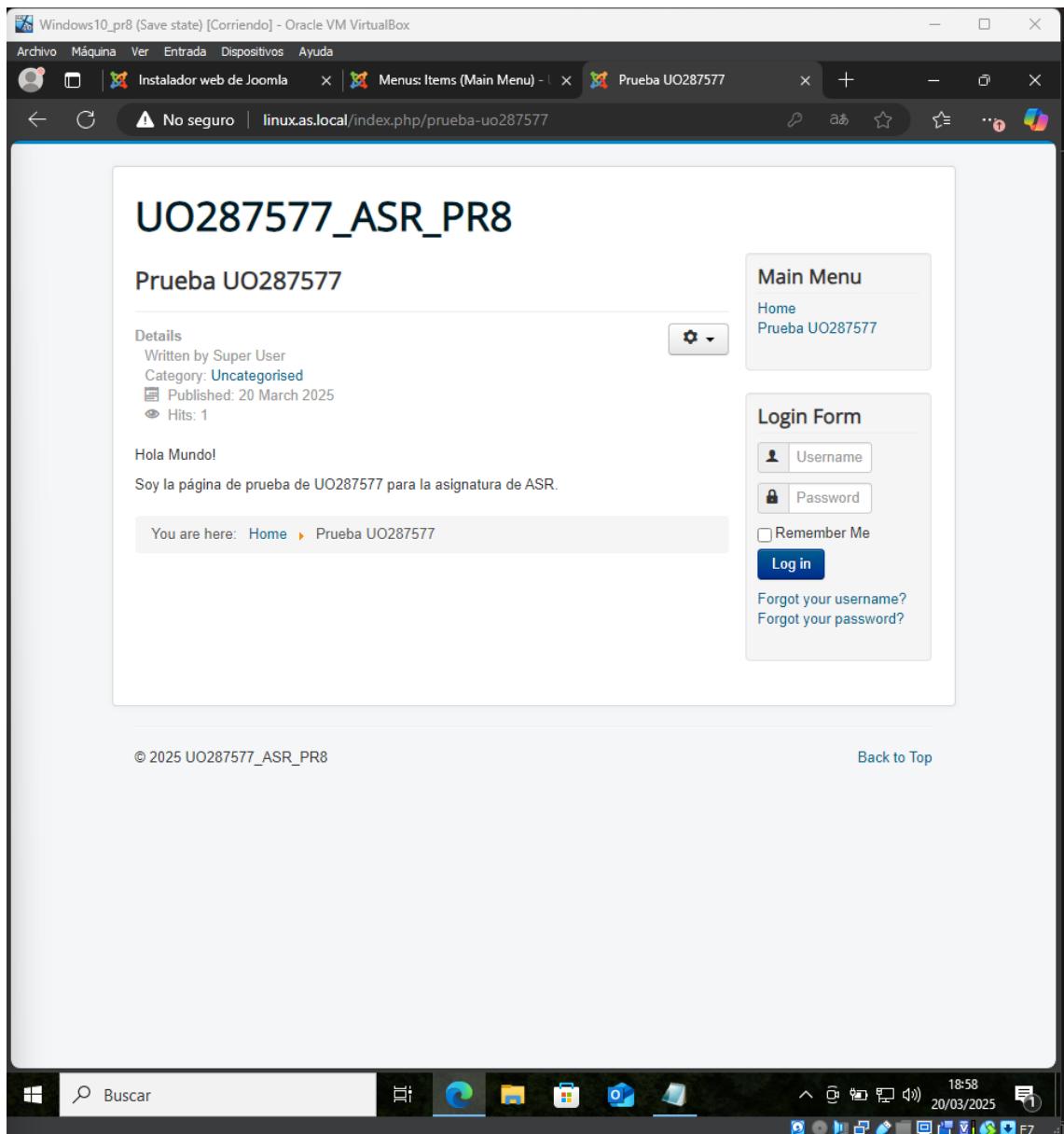
18:54 20/03/2025



Ahora al recargar la página nos saldrá el artículo haciendo clic en su enlace (este enlace ha aparecido porque hemos creado el menú ítem y lo hemos asociado con nuestro artículo)



Y ahora podemos ver el artículo.



No me he encontrado con ningún problema al realizar la práctica.

Versiones empleadas:

- Apache/2.4.62 (AlmaLinux)
- Joomla 3.9.25
- mariadb Ver 15.1 Distrib 10.5.27-MariaDB, for Linux (x86_64) using EditLine wrapper
- PHP 8.0.30 (cli) (built: Aug 3 2023 17:13:08) (NTS gcc x86_64)
Copyright (c) The PHP Group
Zend Engine v4.0.30, Copyright (c) Zend Technologies
with Zend OPcache v8.0.30, Copyright (c), by Zend Technologies

PARTE 2: OPCIONAL

Tanto en el servidor Windows como en el de Linux creamos una base de datos con su usuario, contraseña y permisos y comprobamos que puede acceder a ella vía PHP.

Usamos esta secuencia SQL para crear una tabla sencilla y comprobar que funciona mostrando los resultados.

```
# mysql -u root -p

create database uo287577_base;

create user uo287577@localhost identified by 'uo287577_clave';

grant all privileges on uo287577_base.* to uo287577@localhost;

flush privileges;

use uo287577_base;

create table agenda (
    apellido varchar(30) not null,
    nombre varchar(30) not null,
    telefono integer(20) not null,
    primary key(apellido)
);

show tables;

select * from agenda;

insert into agenda values ('Perez','Andres',985123456);

insert into agenda values ('Garcia','Javier',985678901);

insert into agenda values ('Martinez','Ana',985555555);

insert into agenda values ('D2','R2',110001101);

select nombre,apellido from agenda;

select * from agenda where apellido > 'Garcia';

select * from agenda order by apellido;

select * from agenda order by nombre;

delete from agenda where nombre like '%2%';

select * from agenda;
```

```
exit;
```

Y usamos este programa en PHP para comprobar que se puede acceder a la base de datos vía web.

```
<!DOCTYPE html>

<html>

    <head>
        <title>Prueba de acceso a MySQL</title>
    </head>

    <body>
        <h3>prueba de acceso a SQL</h3>
        <?php
            $servidor="localhost";
            $usuario="uo287577";
            $clave="uo287577_clave";
            $base_de_datos="uo287577_base";
            $conexion=mysqli_connect($servidor, $usuario, $clave, $base_de_datos);
            if (!$conexion) {
                die('No conectado: '.mysqli_connect_error());
            }
            $consulta="select telefono,nombre,apellido from agenda order by apellido;";
            $resultado=mysqli_query($conexion,$consulta);
            if (!$resultado) {
                die('Consulta invalida: '.mysqli_error($conexion));
            }
            while ($row = @mysqli_fetch_assoc($resultado)){
                $tel=$row['telefono'];
                $nom=$row['nombre'];
                $ape=$row['apellido'];
            }
        </?php>
    </body>
</html>
```

```

        echo $tel." ".$ape." ".$nom."<br>";
    }

    mysqli_close($conexion);

?>

</body>

</html>

```

1. En Linux.

```

[u0287577@linux joomla]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 116
Server version: 10.5.27-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database uo287577_base;
Query OK, 1 row affected (0,000 sec)

MariaDB [(none)]> create user uo287577@localhost identified by 'uo287577_clave';
Query OK, 0 rows affected (0,007 sec)

MariaDB [(none)]> grant all privileges on uo287577_base.* to uo287577@localhost;
Query OK, 0 rows affected (0,002 sec)

MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0,000 sec)

MariaDB [(none)]> use uo287577_base;
Database changed
MariaDB [uo287577_base]> create table agenda (
    -> apellido varchar(30) not null,
    -> nombre varchar(30) not null,
    -> telefono integer(20) not null,
    -> primary key(apellido)
    -> );
Query OK, 0 rows affected (0,008 sec)

MariaDB [uo287577_base]> show tables;
+-----+
| Tables_in_uo287577_base |
+-----+
| agenda                  |
+-----+
1 row in set (0,001 sec)

MariaDB [uo287577_base]> █

```

```

select * from agenda;

insert into agenda values ('Perez','Andres',985123456);

insert into agenda values ('Garcia','Javier',985678901);

```

```
insert into agenda values ('Martinez','Ana',9855555555);  
insert into agenda values ('D2','R2',110001101);  
select nombre,apellido from agenda;
```

```
MariaDB [uo287577_base]> select * from agenda;  
Empty set (0,001 sec)  
  
MariaDB [uo287577_base]> insert into agenda values ('Perez','Andres',985123456);  
Query OK, 1 row affected (0,003 sec)  
  
MariaDB [uo287577_base]> insert into agenda values ('Garcia','Javier',985678901);  
Query OK, 1 row affected (0,002 sec)  
  
MariaDB [uo287577_base]> insert into agenda values ('Martinez','Ana',9855555555);  
Query OK, 1 row affected (0,003 sec)  
  
MariaDB [uo287577_base]> insert into agenda values ('D2','R2',110001101);  
Query OK, 1 row affected (0,001 sec)  
  
MariaDB [uo287577_base]> select nombre,apellido from agenda;  
+-----+-----+  
| nombre | apellido |  
+-----+-----+  
| R2    | D2      |  
| Javier | Garcia  |  
| Ana   | Martinez |  
| Andres | Perez   |  
+-----+-----+  
4 rows in set (0,001 sec)  
  
MariaDB [uo287577_base]> █
```

```
select * from agenda where apellido > 'Garcia';  
select * from agenda order by apellido;  
select * from agenda order by nombre;  
delete from agenda where nombre like '%2%';  
select * from agenda;  
exit;
```

```

MariaDB [uo287577_base]> select * from agenda where apellido > 'Garcia';
+-----+-----+-----+
| apellido | nombre | telefono |
+-----+-----+-----+
| Martinez | Ana    | 9855555555
| Perez    | Andres | 985123456
+-----+-----+-----+
2 rows in set (0,001 sec)

MariaDB [uo287577_base]> select * from agenda order by apellido;
+-----+-----+-----+
| apellido | nombre | telefono |
+-----+-----+-----+
| D2      | R2    | 110001101
| Garcia   | Javier | 985678901
| Martinez | Ana    | 9855555555
| Perez    | Andres | 985123456
+-----+-----+-----+
4 rows in set (0,000 sec)

MariaDB [uo287577_base]> select * from agenda order by nombre;
+-----+-----+-----+
| apellido | nombre | telefono |
+-----+-----+-----+
| Martinez | Ana    | 9855555555
| Perez    | Andres | 985123456
| Garcia   | Javier | 985678901
| D2      | R2    | 110001101
+-----+-----+-----+
4 rows in set (0,001 sec)

MariaDB [uo287577_base]> delete from agenda where nombre like '%2%';
Query OK, 1 row affected (0,005 sec)

MariaDB [uo287577_base]> select * from agenda;
+-----+-----+-----+
| apellido | nombre | telefono |
+-----+-----+-----+
| Garcia   | Javier | 985678901
| Martinez | Ana    | 9855555555
| Perez    | Andres | 985123456
+-----+-----+-----+
3 rows in set (0,000 sec)

MariaDB [uo287577_base]> exit;
Bye
[U0287577@linux joomla]# 

```

Creamos el directorio e index.php para comprobar que se puede acceder a la BBDD vía web.

```

[U0287577@linux joomla]# mkdir /var/www/html/prueba
[U0287577@linux joomla]# nano index.php

```

```
GNU nano 5.6.1                               index.php                                Modificado
<!DOCTYPE html>
<html>
<head>
    <title>Prueba de acceso a MySQL</title>
</head>
<body>
    <h3>prueba de acceso a SQL</h3>

    <?php
        $servidor="localhost";
        $usuario="uo287577";
        $clave="uo287577_clave";
        $base_de_datos="uo287577_base";
        $conexion=mysqli_connect($servidor, $usuario, $clave, $base_de_datos);
        if (!$conexion) {
            die('No conectado: '.mysqli_connect_error());
        }
        $consulta="select telefono,nombre,apellido from agenda order by apellido;";
        $resultado=mysqli_query($conexion,$consulta);
        if (!$resultado) {
            die('Consulta invalida: '.mysqli_error($conexion));
        }
        while ($row = @mysqli_fetch_assoc($resultado)){
            $tel=$row['telefono'];
            $nom=$row['nombre'];
            $ape=$row['apellido'];
            echo $tel." ".$ape." ".$nom."<br>";
        }
        mysqli_close($conexion);
    ?>
</body>
</html>
```

```
[U0287577@linux joomla]# mv index.php /var/www/html/prueba/
```

Modificamos el fichero /etc/httpd/conf/httpd.conf con lo siguiente.

```
[U0287577@linux joomla]# nano /etc/httpd/conf/httpd.conf
```

```

GNU nano 5.6.1           /etc/httpd/conf/httpd.conf      Modificado
# ServerName gives the name and port that the server uses to identify itself.
# This can often be determined automatically, but we recommend you specify
# it explicitly to prevent problems during startup.
#
# If your host doesn't have a registered DNS name, enter its IP address here.
#
#ServerName www.midominio.local:80

#
# Deny access to the entirety of your server's filesystem. You must
# explicitly permit access to web content directories in other
# <Directory> blocks below.
#
<Directory />
    AllowOverride none
    Require all denied
</Directory>

#
# Note that from this point forward you must specifically allow
# particular features to be enabled - so if something's not working as
# you might expect, make sure that you have specifically enabled it
# below.
#
#
# DocumentRoot: The directory out of which you will serve your
# documents. By default, all requests are taken from this directory, but
# symbolic links and aliases may be used to point to other locations.
#
DocumentRoot "/var/www/html/prueba"

#
# Relax access to content within /var/www.
#
<Directory "/var/www/html/prueba">
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>
# U0287577

<Directory "/var/www/html/joomla">
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>

<Directory "/as/web">
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>

^G Ayuda      ^O Guardar      ^W Buscar      ^K Cortar      ^T Ejecutar      ^C Ubicación
^X Salir      ^R Leer fich.  ^\ Reemplazar  ^U Pegar       ^J Justificar  ^I Ir a línea

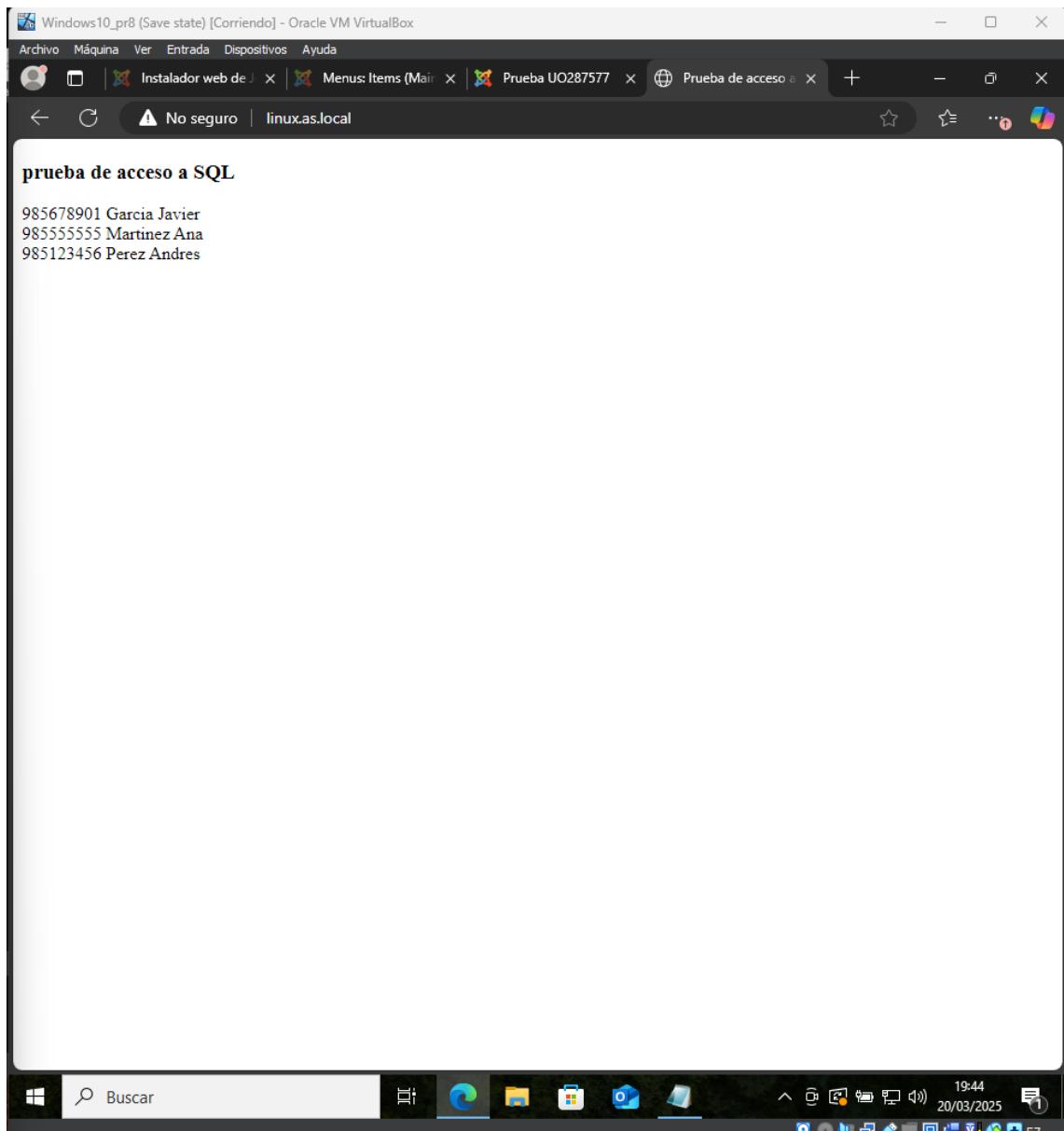
```

Reiniciamos el servicio httpd para que se apliquen los anteriores cambios y lo habilitamos.

```
[U0287577@linux joomla]# systemctl restart httpd
[U0287577@linux joomla]# systemctl enable httpd
[U0287577@linux joomla]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Drop-In: /usr/lib/systemd/system/httpd.service.d
             └─php-fpm.conf
     Active: active (running) since Thu 2025-03-20 12:41:07 CET; 12s ago
       Docs: man:httpd.service(8)
   Main PID: 4495 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served"
      Tasks: 177 (limit: 10992)
    Memory: 21.4M
      CPU: 72ms
     CGroup: /system.slice/httpd.service
             ├─4495 /usr/sbin/httpd -DFOREGROUND
             ├─4496 /usr/sbin/httpd -DFOREGROUND
             ├─4497 /usr/sbin/httpd -DFOREGROUND
             ├─4498 /usr/sbin/httpd -DFOREGROUND
             └─4499 /usr/sbin/httpd -DFOREGROUND

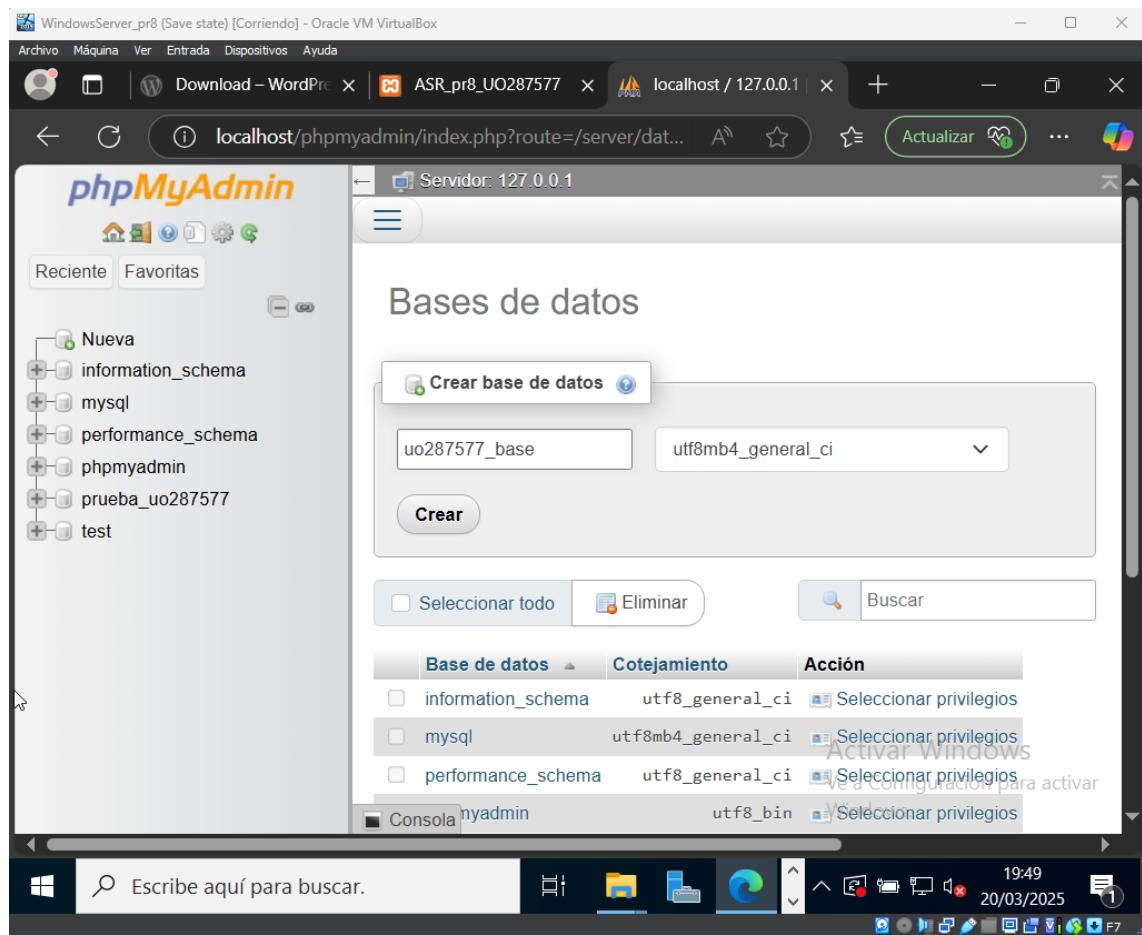
mar 20 12:41:07 linux.as.local systemd[1]: Starting The Apache HTTP Server...
mar 20 12:41:07 linux.as.local systemd[1]: Started The Apache HTTP Server.
mar 20 12:41:07 linux.as.local httpd[4495]: Server configured, listening on: port 80
[U0287577@linux joomla]# █
```

Accedemos a `linux.as.local` desde la máquina Windows 10 para comprobar si se puede acceder la BBDD vía web.

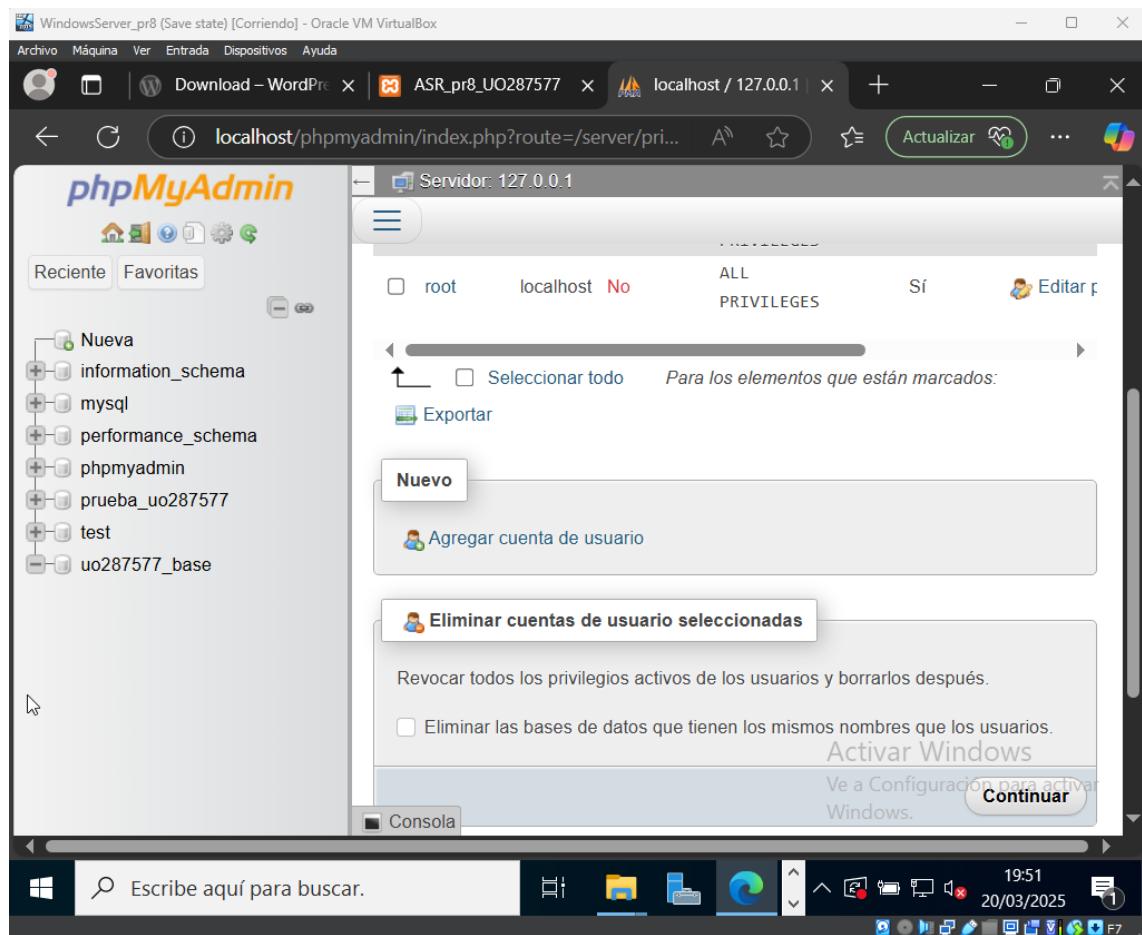


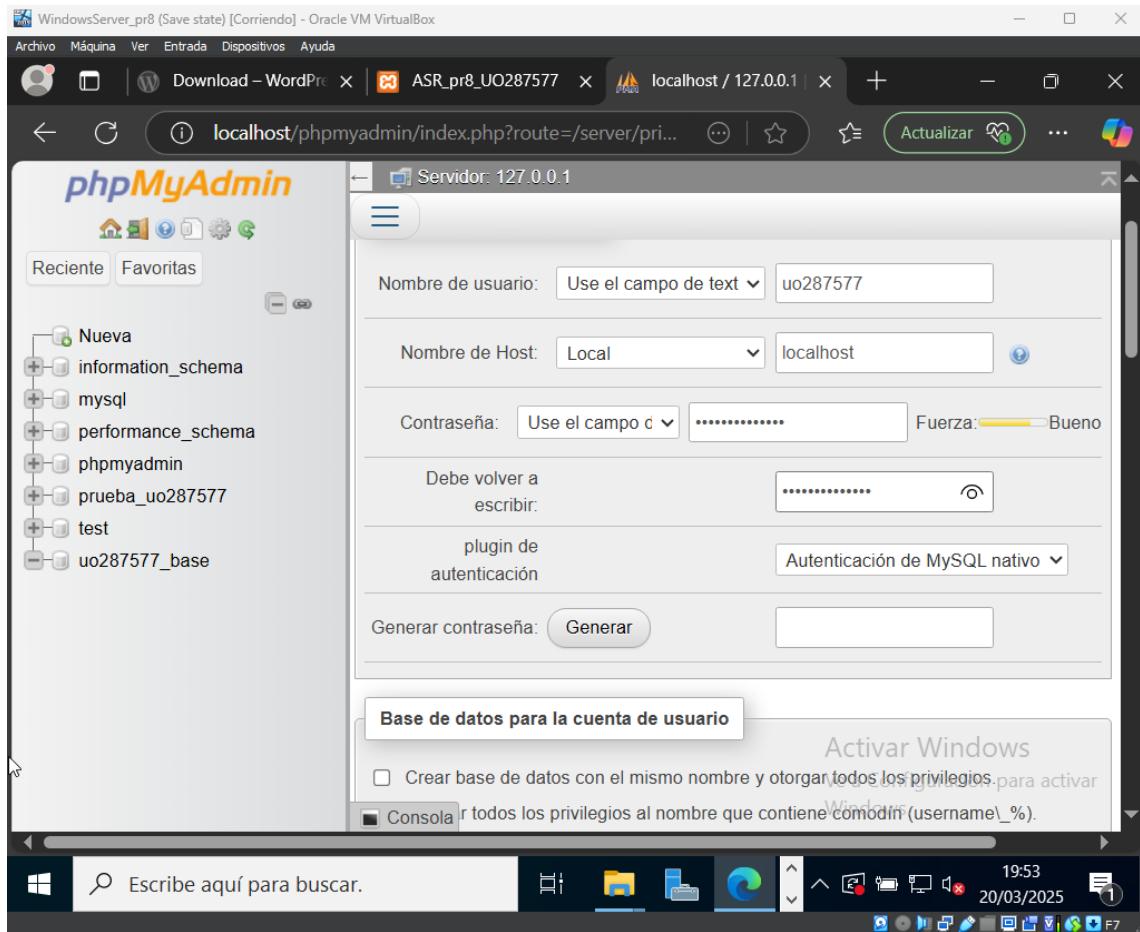
2. En Windows Server.

Creamos la BBDD.

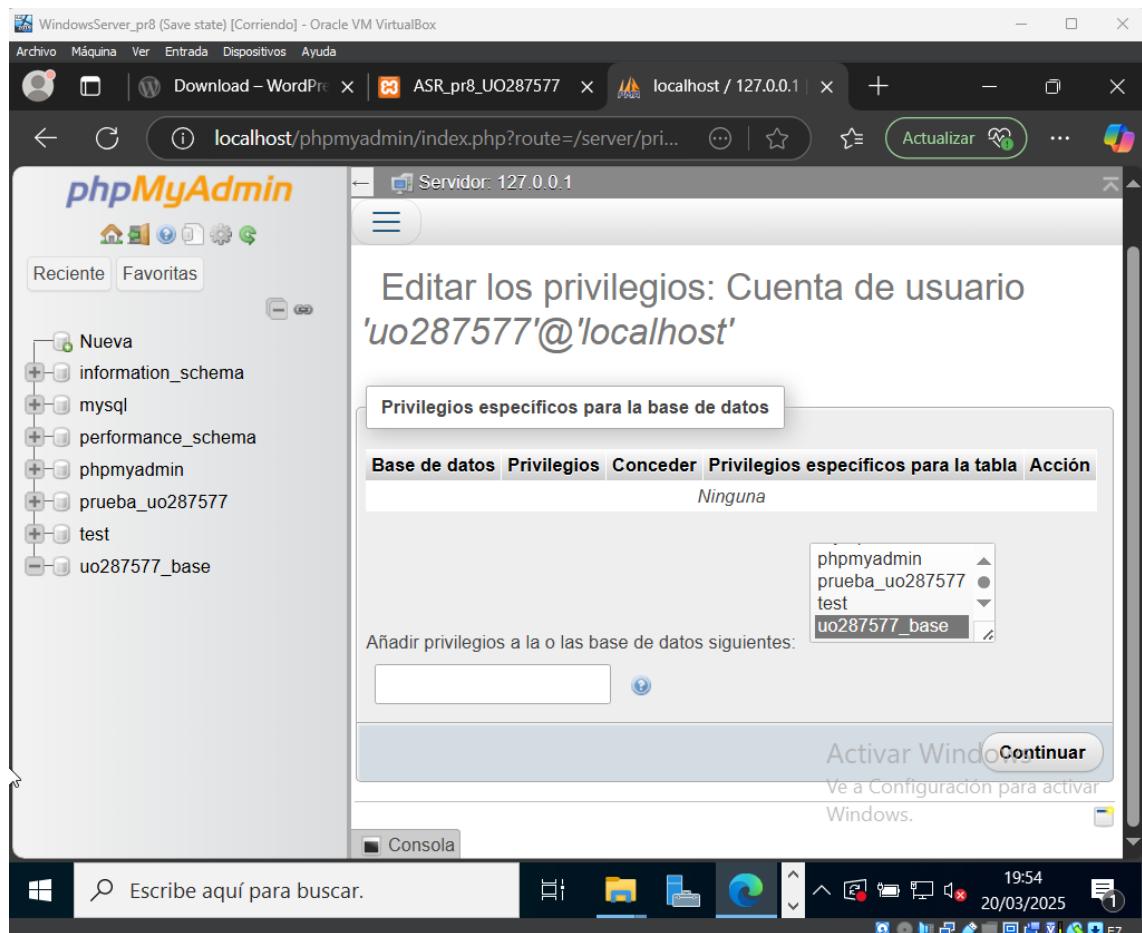


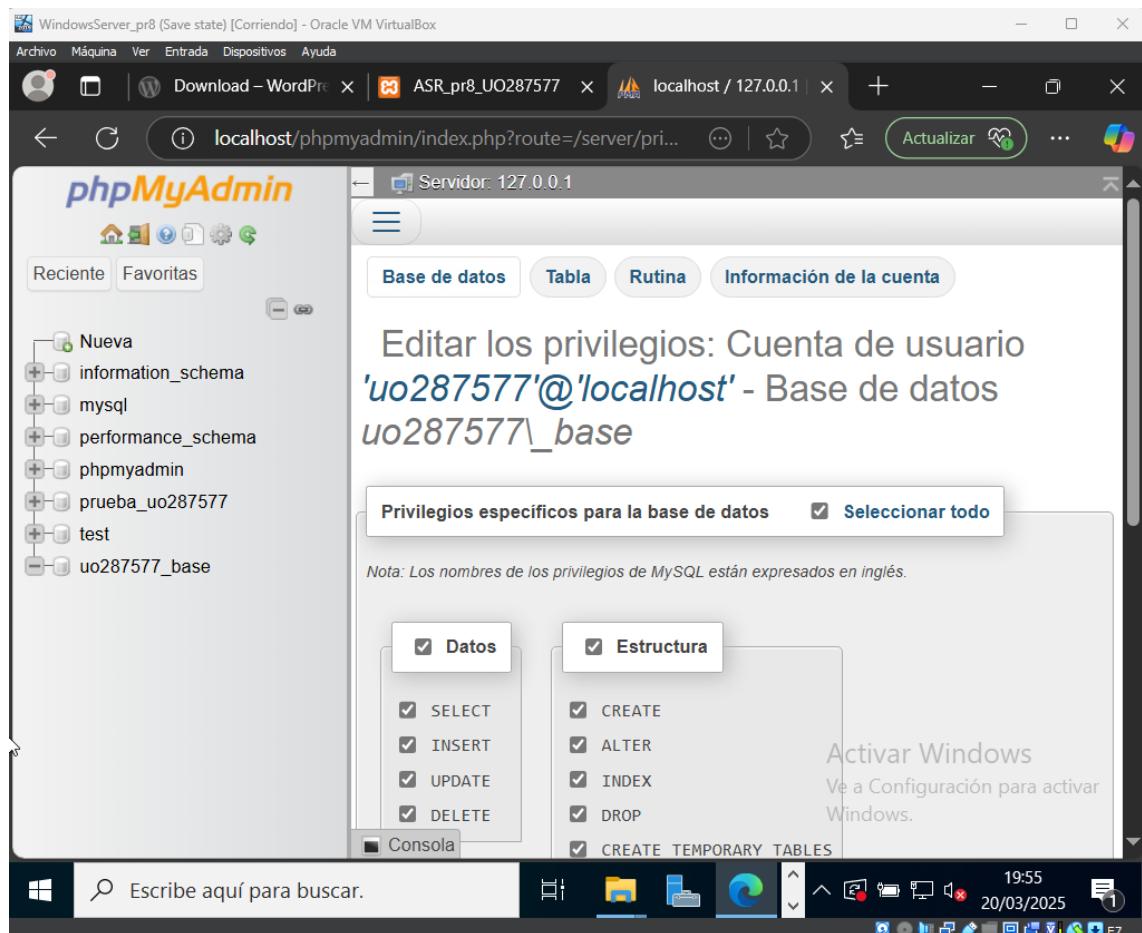
Creamos el usuario uo287577 en la BBDD.

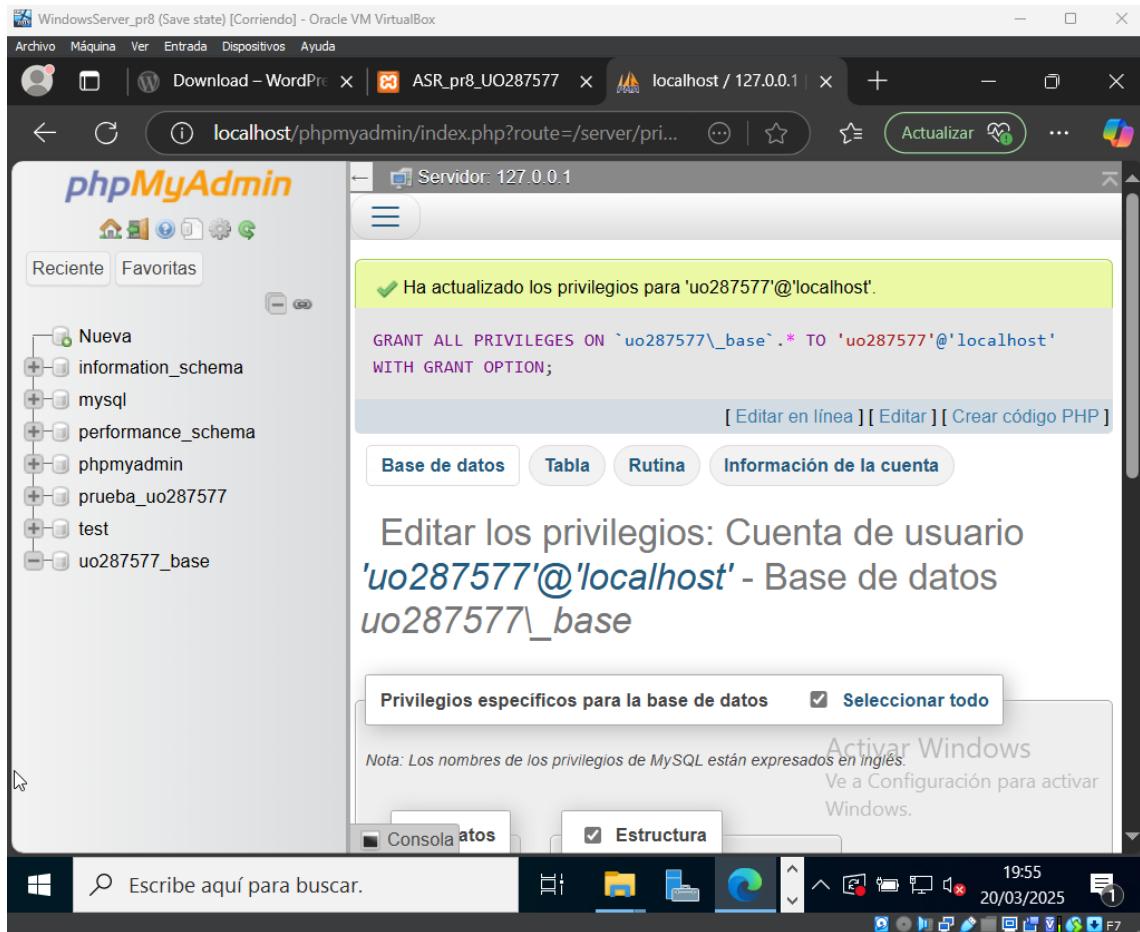




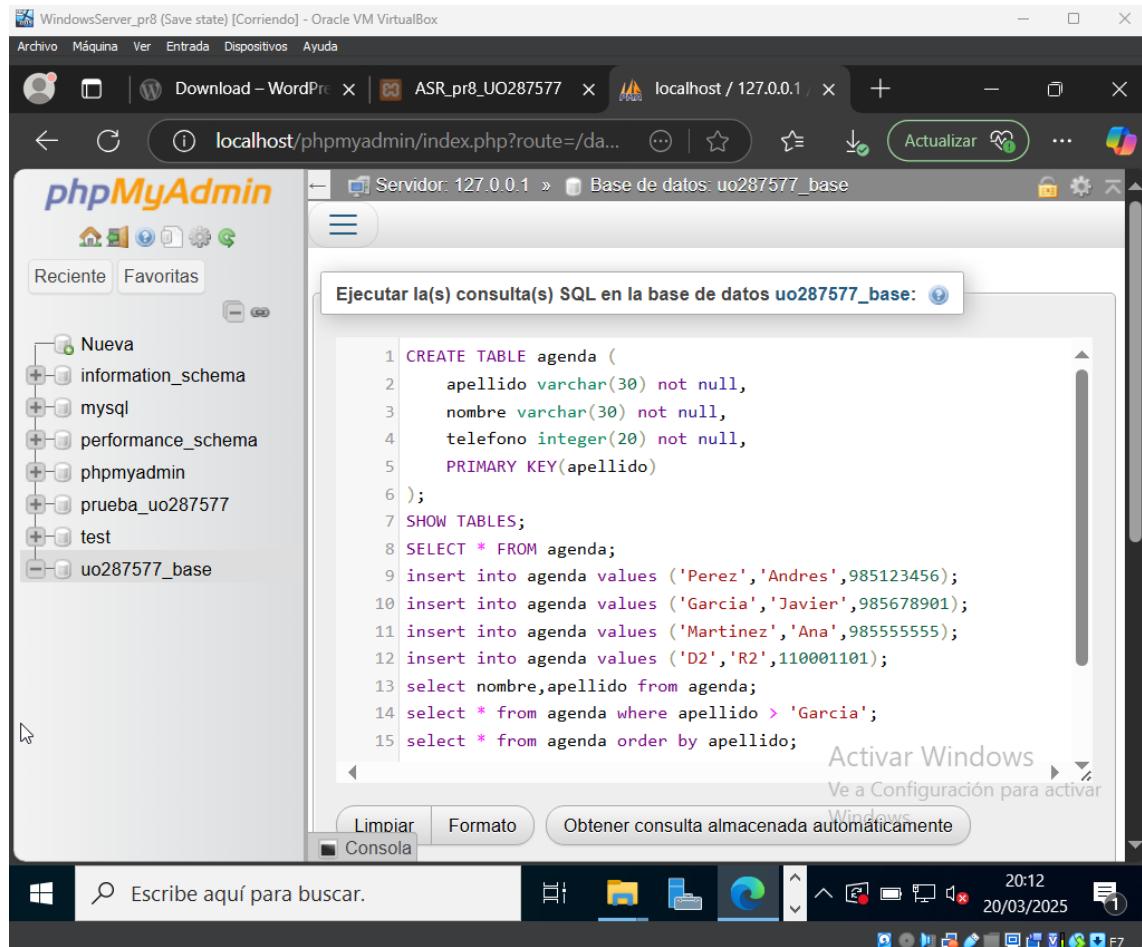
Le añadimos al usuario creado todos los permisos para la BBDD uo287577_base.

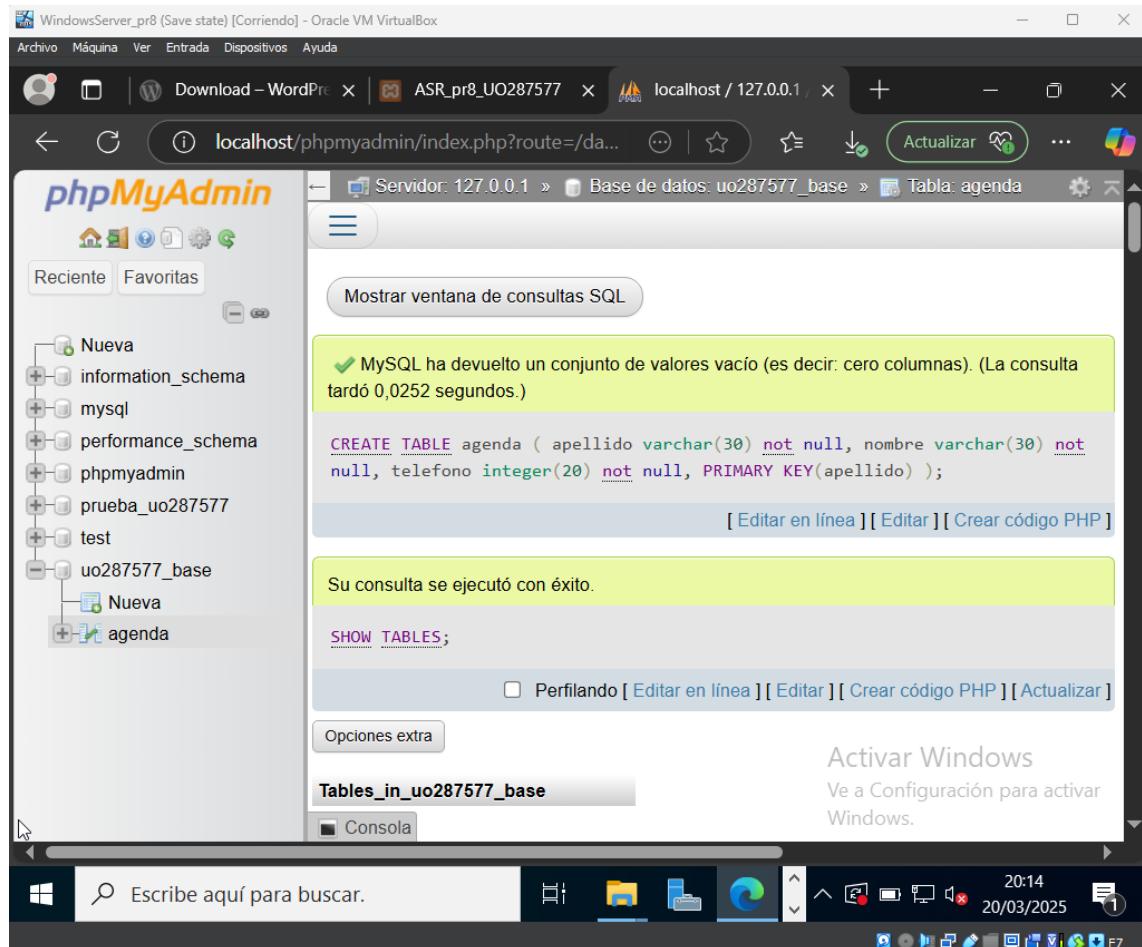


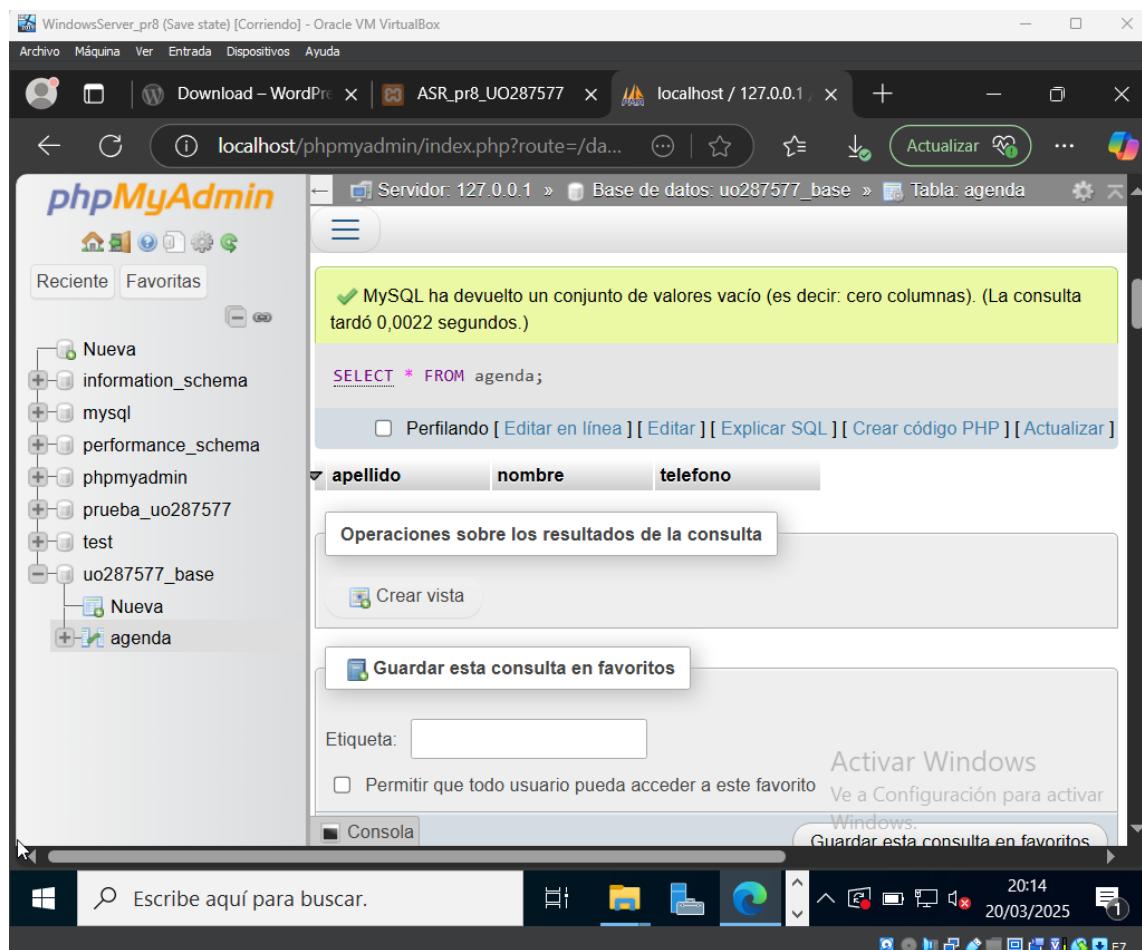


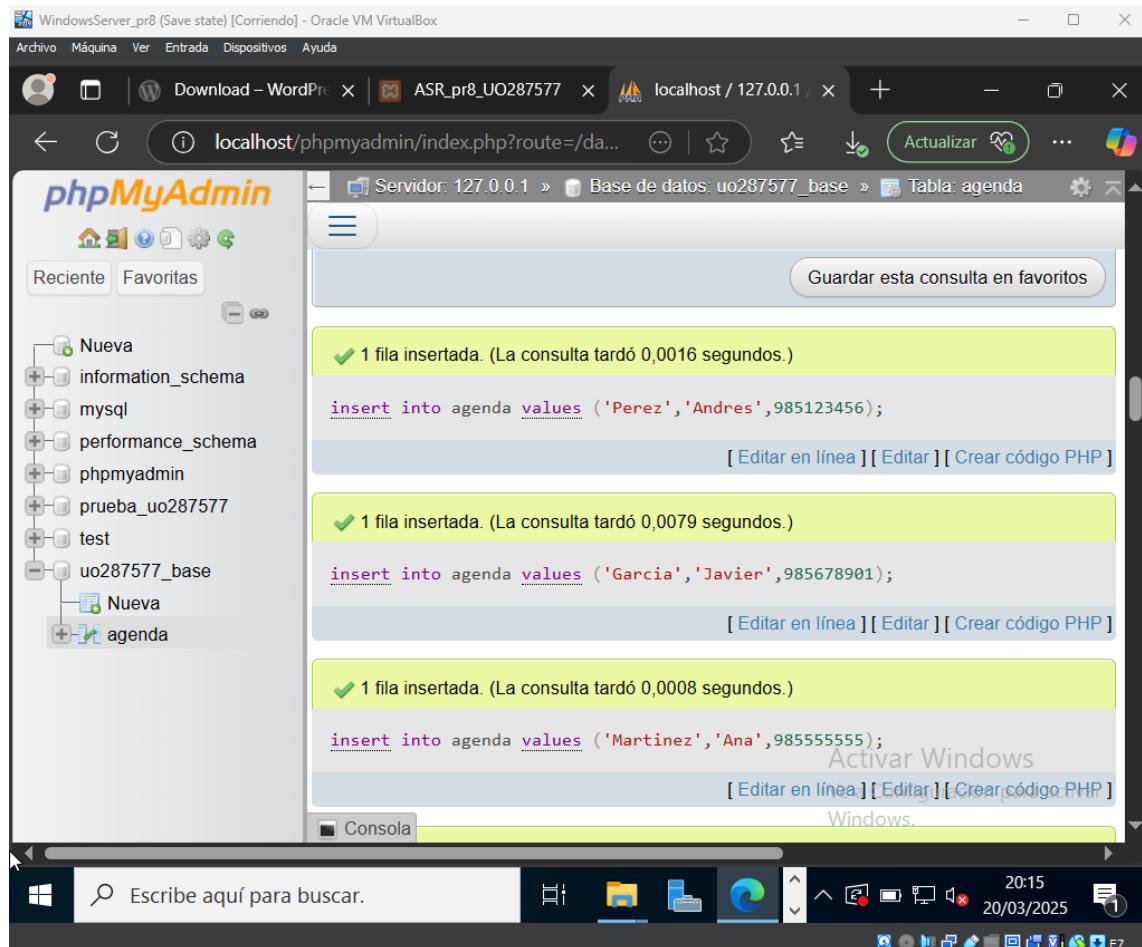


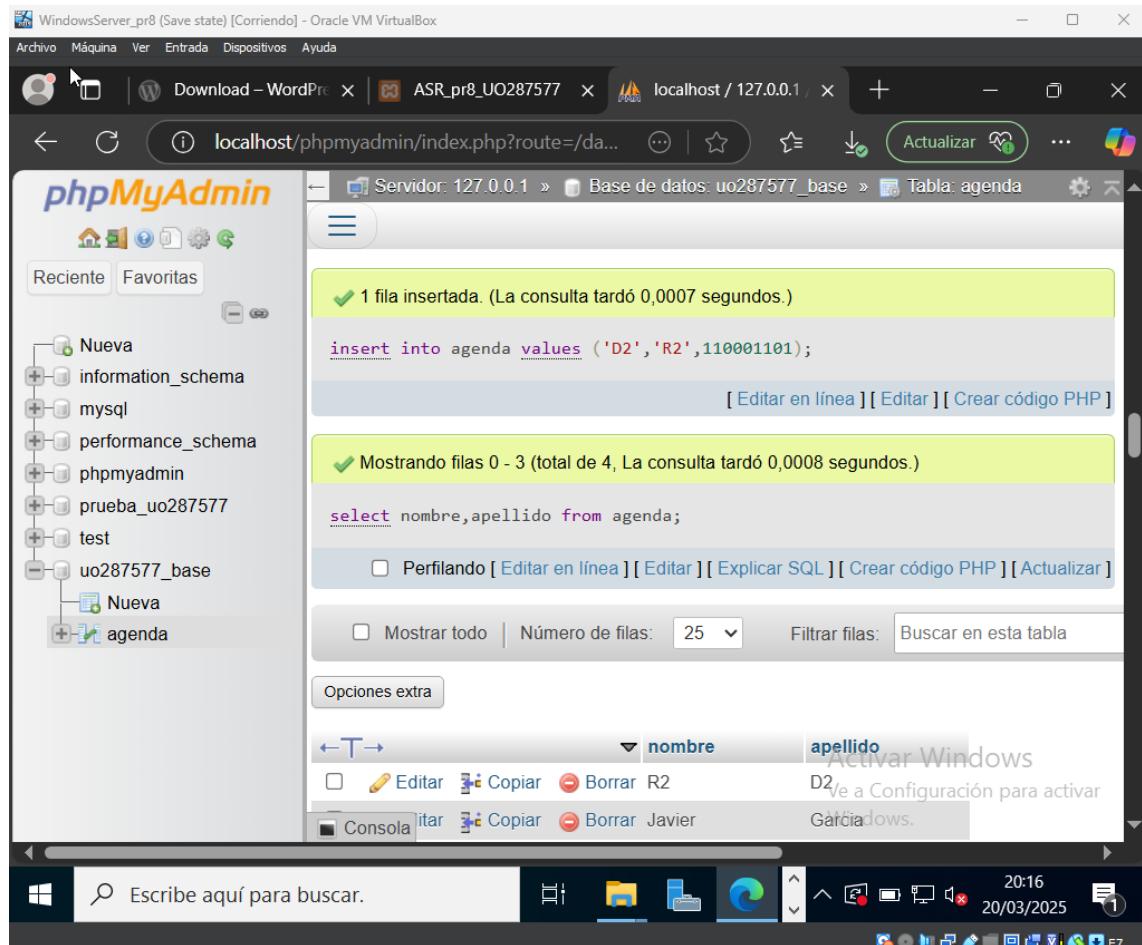
Creamos la tabla agenda en la BBDD uo287577_base y hacemos el resto de sentencias SQL.











WindowsServer_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

localhost / 127.0.0.1 /

localhost/phpmyadmin/index.php?route=/da...

Actualizar

phpMyAdmin

Servidor: 127.0.0.1 » Base de datos: uo287577_base » Tabla: agenda

[Editar en línea] [Editar] [Crear código PHP]

Mostrando filas 0 - 3 (total de 4, La consulta tardó 0,0008 segundos.)

```
select nombre,apellido from agenda;
```

Perfilando [Editar en línea] [Editar] [Explicar SQL] [Crear código PHP] [Actualizar]

Mostrar todo Número de filas: 25 Filtrar filas: Buscar en esta tabla

Opciones extra

	nombre	apellido
<input type="checkbox"/> Editar	R2	D2
<input type="checkbox"/> Editar	Javier	Garcia
<input type="checkbox"/> Editar	Ana	Martinez
<input type="checkbox"/> Editar	Andres	Perez

Ve a Configuración para activar

Consola Seleccionar todo Para los elementos que estén marcados: Editar

Escribe aquí para buscar.

20:16
20/03/2025

	nombre	apellido
<input type="checkbox"/> Editar	R2	D2
<input type="checkbox"/> Editar	Javier	Garcia
<input type="checkbox"/> Editar	Ana	Martinez
<input type="checkbox"/> Editar	Andres	Perez

WindowsServer_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Download – WordPress X ASR_pr8_UO287577 X localhost / 127.0.0.1 X

localhost/phpmyadmin/index.php?route=/da... Actualizar

phpMyAdmin

Servidor: 127.0.0.1 » Base de datos: uo287577_base » Tabla: agenda

Mostrando filas 0 - 1 (total de 2, La consulta tardó 0,0241 segundos.)

```
select * from agenda where apellido > 'Garcia';
```

Perfilando [Editar en línea] [Editar] [Explicar SQL] [Crear código PHP] [Actualizar]

Mostrar todo Número de filas: 25 Filtrar filas: Buscar en esta tabla

Opciones extra

	apellido	nombre	telefono
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Martinez	Ana	98555555
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Perez	Andres	98512345

Seleccionar todo Para los elementos que están marcados: Editar

Copiar Borrar Exportar

Activar Windows
Ve a Configuración para activar Windows

Consola Filtrar todo Número de filas: 25 Filtrar filas: Buscar en esta tabla

Escribe aquí para buscar.

20:17 20/03/2025

	apellido	nombre	telefono
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Martinez	Ana	98555555
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Perez	Andres	98512345

WindowsServer_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

localhost / 127.0.0.1 x

localhost/phpmyadmin/index.php?route=/da... Actualizar

phpMyAdmin

Servidor: 127.0.0.1 » Base de datos: uo287577_base » Tabla: agenda

Mostrando filas 0 - 3 (total de 4, La consulta tardó 0,0005 segundos.) [apellido: D2... - PEREZ...]

select * from agenda order by apellido;

Perfilando [Editar en línea] [Editar] [Explicar SQL] [Crear código PHP] [Actualizar]

Mostrar todo Número de filas: 25 Filtrar filas: Buscar en esta tabla

Opciones extra

	apellido	nombre	telefono
<input type="checkbox"/> Editar	D2	R2	11000110
<input type="checkbox"/> Editar	Garcia	Javier	98567890
<input type="checkbox"/> Editar	Martinez	Ana	985555555 Activar Windows Ve a Configuración para activar Windows.
<input type="checkbox"/> Editar	Perez	Andres	985123456

Escribe aquí para buscar. 20:17 20/03/2025

Consola

WindowsServer_pr8 (Save state) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

localhost / 127.0.0.1

localhost/phpmyadmin/index.php?route=da...

Actualizar

phpMyAdmin

Nueva information_schema mysql performance_schema phpmyadmin prueba_uo287577 test uo287577_base Nueva agenda

Mostrando filas 0 - 3 (total de 4, La consulta tardó 0,0018 segundos.) [nombre: ANA... - R2...]

select * from agenda order by nombre;

Perfilando [Editar en línea] [Editar] [Explicar SQL] [Crear código PHP] [Actualizar]

Mostrar todo Número de filas: 25 Filtrar filas: Buscar en esta tabla

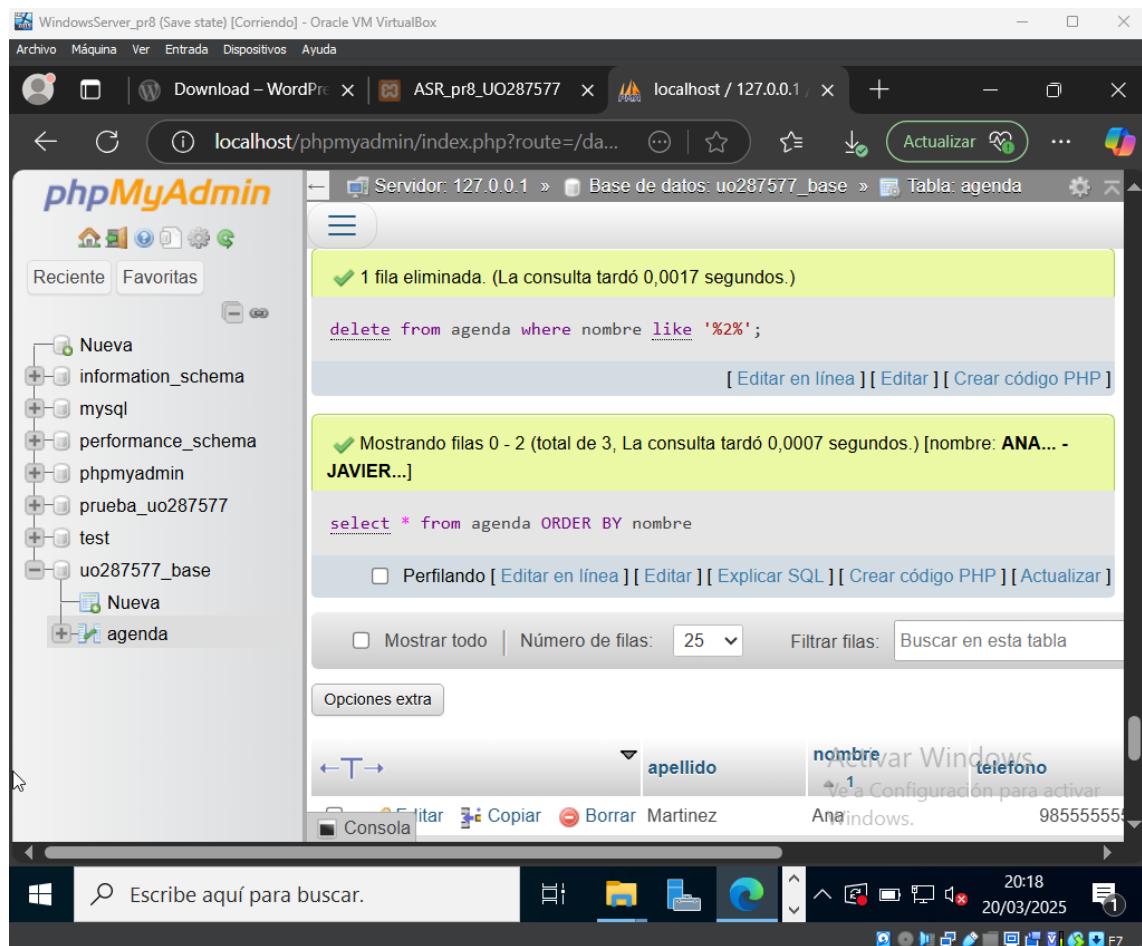
Opciones extra

	Apellido	nombre	Teléfono
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Martinez	Ana	985555555
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Perez	Andres	985123456
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Garcia	Javier	985678901
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	D2	R2	110001100

Activar Windows
Cambia la Configuración para tu dispositivo
Windows.

Escribe aquí para buscar.

20:18
20/03/2025



The screenshot shows a Windows Server 2019 desktop environment within Oracle VM VirtualBox. The taskbar at the bottom includes icons for File Explorer, Task View, Start, and other system utilities. The main window displays the phpMyAdmin interface for a MySQL database named 'uo287577_base'. The 'agenda' table is selected, showing the following data:

	apellido	nombre	telefono
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Martinez	Ana	98555555
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Perez	Andres	98512345
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	Garcia	Javier	98567890

Creamos el directorio y fichero de prueba dentro del directorio htdocs de xampp.

