

Instalacion de LEMP

Instalamos nginx:

```
sudo apt install nginx -y
```

Comprobamos que funciona

```
sudo systemctl status nginx
```

Instalamos mysql

```
sudo apt install mysql-server -y
```

Accedemos a el

```
sudo mysql -u root -p
```

Instalamos PHP-FPM y los modulos necesarios

```
sudo apt install php-fpm php-mysql -y
```

Configuramos nginx para usar PHP

```
sudo nano /etc/nginx/sites-available/default
```

```
GNU nano 7.2 /etc/nginx/sites-available/default *
server {
    listen 80 default_server;
    listen [::]:80 default_server;

    root /var/www/html;
    index index.php index.html index.htm;

    server_name _;

    location / {
        try_files $uri $uri/ =404;
    }


    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php8.1-fpm.sock;
    }

    location ~ /\.ht {
        deny all;
    }
}
```

Creamos el archivo de prueba PHP


Browser address bar: 172.20.10.2/info.php

PHP Version 8.3.6



System	Linux server 6.8.0-83-generic #83-Ubuntu SMP PREEMPT_DYNAMIC Fri Sep 5 21:46:54 UTC 2025 x86_64
Build Date	Jul 14 2025 18:30:55
Build System	Linux
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.3/fpm
Loaded Configuration File	/etc/php/8.3/fpm/php.ini
Scan this dir for additional .ini files	/etc/php/8.3/fpm/conf.d
Additional .ini files parsed	/etc/php/8.3/fpm/conf.d/10-mysqld.ini, /etc/php/8.3/fpm/conf.d/10-opcache.ini, /etc/php/8.3/fpm/conf.d/10-pdo.ini, /etc/php/8.3/fpm/conf.d/20-calendar.ini, /etc/php/8.3/fpm/conf.d/20-ctype.ini, /etc/php/8.3/fpm/conf.d/20-exif.ini, /etc/php/8.3/fpm/conf.d/20-fli.ini, /etc/php/8.3/fpm/conf.d/20-fileinfo.ini, /etc/php/8.3/fpm/conf.d/20-ftp.ini, /etc/php/8.3/fpm/conf.d/20-gettext.ini, /etc/php/8.3/fpm/conf.d/20-iconv.ini, /etc/php/8.3/fpm/conf.d/20-mysqli.ini, /etc/php/8.3/fpm/conf.d/20-pdo_mysql.ini, /etc/php/8.3/fpm/conf.d/20-phar.ini, /etc/php/8.3/fpm/conf.d/20-posix.ini, /etc/php/8.3/fpm/conf.d/20-readline.ini, /etc/php/8.3/fpm/conf.d/20-shmop.ini, /etc/php/8.3/fpm/conf.d/20-sockets.ini, /etc/php/8.3/fpm/conf.d/20-sysvmsg.ini, /etc/php/8.3/fpm/conf.d/20-sysvsem.ini, /etc/php/8.3/fpm/conf.d/20-sysvshm.ini, /etc/php/8.3/fpm/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
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
Zend Max Execution Timers	disabled
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	zlib.*, string.rot13, string.toupper, string.tolower, convert.*, consumed, dechunk, convert.iconv.*

This program makes use of the Zend Scripting Language Engine:
Zend Engine v4.3.6, Copyright (c) Zend Technologies with Zend OPcache v8.3.6, Copyright (c), by Zend Technologies



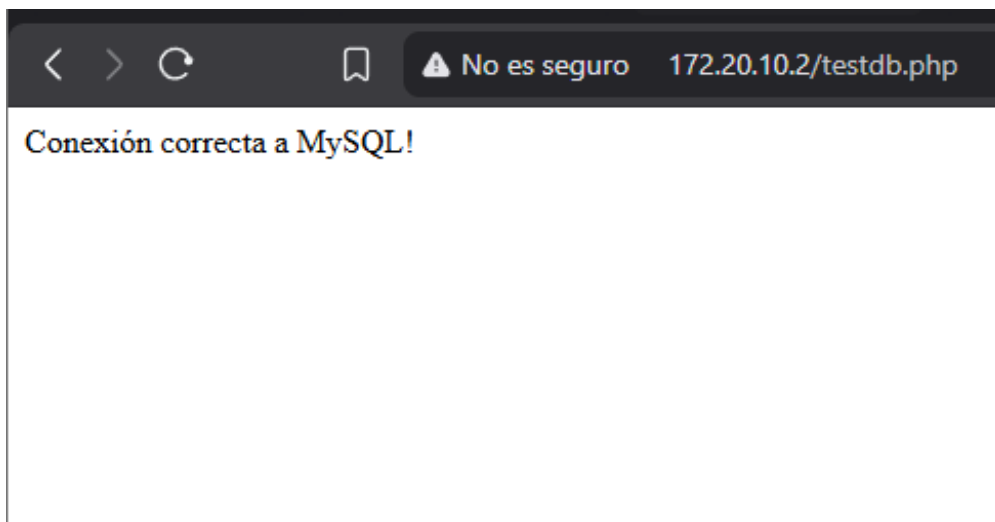
Ahora creamos un archivo para comprobar la conexión con MySQL

`sudo nano /var/www/html/testdb.php`

```
GNU nano 7.2
<?php
$conn = mysqli_connect("localhost", "root", "Patata1", "mysql")

if (!$conn) {
    die("Error de conexión: " . mysqli_connect_error());
}

echo "Conexión correcta a MySQL!";
mysqli_close($conn);
?>
```



Creamos el directorio del sitio web y el archivo index.php

```
sudo mkdir -p /var/www/prueba
sudo nano /var/www/prueba/index.php
```

```
GNU nano 7.2 /var/www/prueba/index.php
<?php
echo "<h1>Servidor PHP funcionando correctamente</h1>";
echo "<p>Bloque de servidor: " . $_SERVER['SERVER_NAME'] . "</p>";
echo "<p>Archivo ejecutado: " . $_SERVER['SCRIPT_FILENAME'] . "</p>";
echo "<hr>";
echo "<p>Fecha y hora del servidor: " . date('Y-m-d H:i:s') . "</p>";
?>
```

Y le damos permisos

```
jaime@server:~$ sudo chown -R www-data:www-data /var/www/prueba
jaime@server:~$ sudo chmod -R 755 /var/www/prueba
```

Creamos el archivo de configuracion del sitio

```
sudo nano /etc/nginx/sites-available/prueba.conf
```

```
GNU nano 7.2
server {
    listen 80;
    server_name prueba.local;

    root /var/www/prueba;
    index index.php index.html;

    location / {
        try_files $uri $uri/ =404;
    }

    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php8.3-fpm.sock;
    }

    location ~ /\.ht {
        deny all;
    }
}
```

Ahora activamos el sitio

```
sudo ln -s /etc/nginx/sites-available/prueba.conf /etc/nginx/sites-enabled/
```

Y recargamos el nginx

```
sudo systemctl reload nginx
```

Accedemos al index.php



Creamos el segundo sitio

```
sudo mkdir -p /var/www/prueba2
```

Creamos el segundo archivo de prueba.php y le damos permisos

```
jaime@server:~$ sudo mkdir -p /var/www/prueba2
jaime@server:~$ sudo chown -R www-data:www-data /var/www/prueba2
jaime@server:~$ sudo chmod -R 755 /var/www/prueba2
```

Creamos el archivo de configuracion del segundo sitio

```
sudo nano /etc/nginx/sites-available/prueba2.conf
```

```
GNU nano 7.2
server {
    listen 80;
    server_name prueba2.local;

    root /var/www/prueba2;
    index test.php index.php index.html;

    location / {
        try_files $uri $uri/ =404;
    }

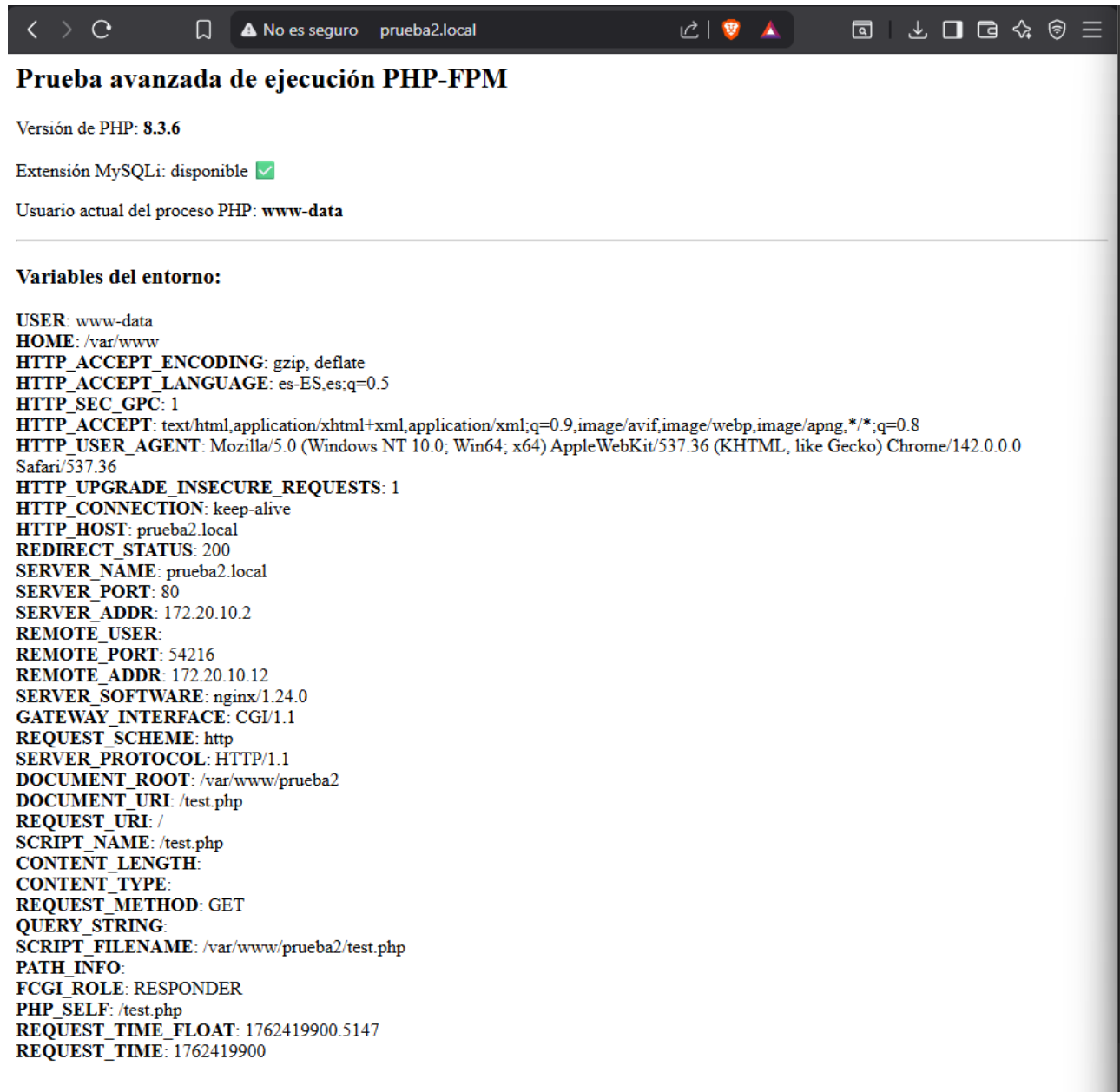
    location ~ /\.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php8.3-fpm.sock;
    }

    location ~ /\.ht {
        deny all;
    }
}
```

Y activamos el sitio

```
sudo ln -s /etc/nginx/sites-available/prueba2.conf /etc/nginx/sites-enabled/  
sudo systemctl reload nginx
```

Y probamos prueba2.local



Ahora voy a realizar la instalacion del wordpress en el LEMP

Accedemos a mysql y creamos la base de datos y el usuario de wordpress

```
jaime@server:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 29
Server version: 8.0.43-0ubuntu0.24.04.2 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> CREATE DATABASE wordpress_db;
Query OK, 1 row affected (0,07 sec)

mysql> CREATE USER 'wordpress_user'@'localhost' IDENTIFIED BY 'Patata1';
Query OK, 0 rows affected (0,13 sec)

mysql> GRANT ALL PRIVILEGES ON wordpress_db.* TO 'wordpress_user'@'localhost';
Query OK, 0 rows affected (0,01 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,01 sec)

mysql> EXIT;
Bye
```

Instalamos wordpress en el directorio tmp

```
curl -O https://wordpress.org/latest.tar.gz
```

```
tar -xzf latest.tar.gz
```

Configuramos los permisos

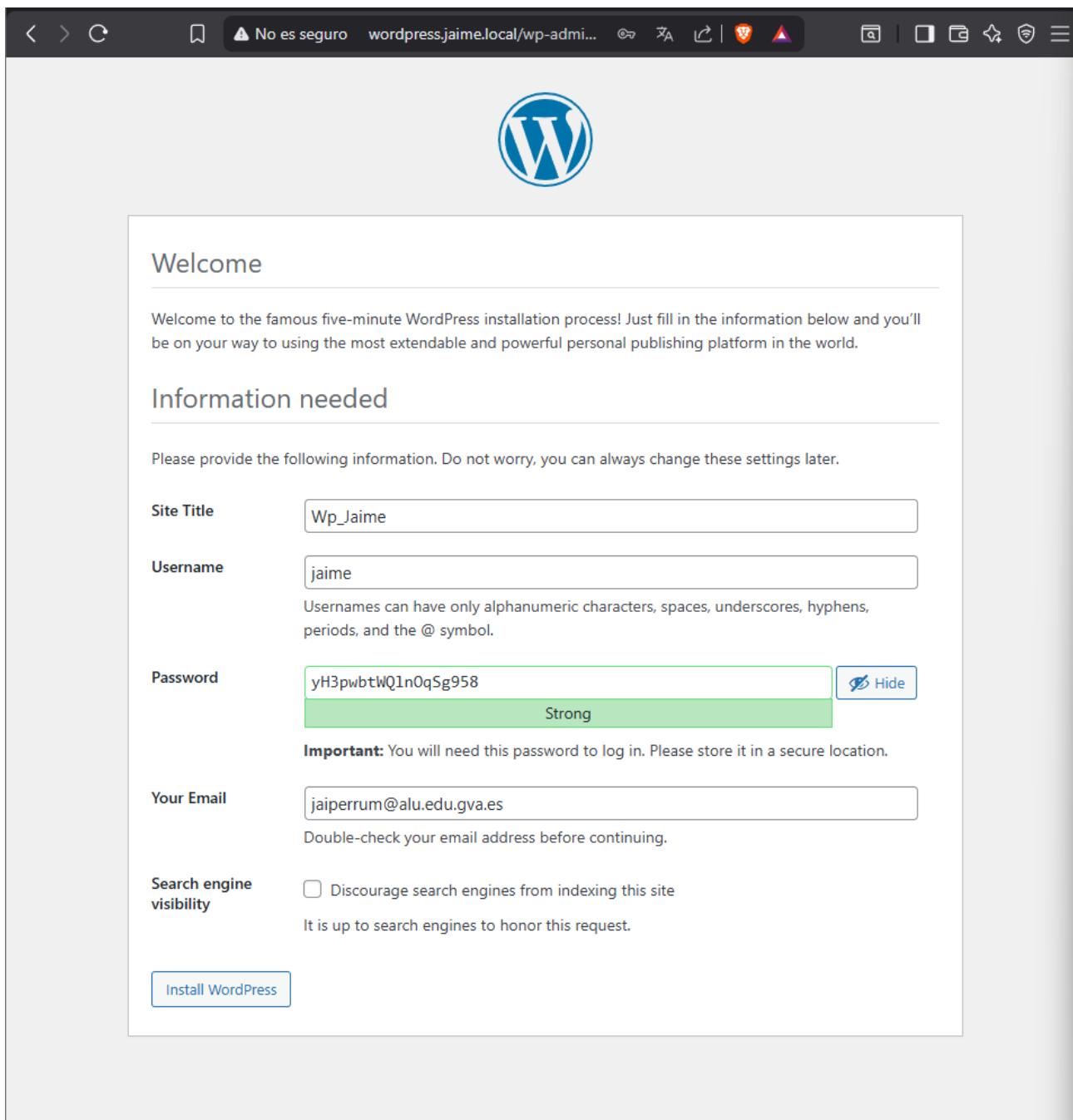
```
jaime@server:/tmp$ sudo chown -R www-data:www-data /var/www/wordpress.jaime.local
jaime@server:/tmp$ sudo chmod -R 755 /var/www/wordpress.jaime.local
jaime@server:/tmp$ |
```

Creamos el archivo de configuracion de nginx y activamos el sitio

```
sudo nano /etc/nginx/sites-available/wordpress.conf
```

```
sudo ln -s /etc/nginx/sites-available/wordpress.conf /etc/nginx/sites-enabled/
```

Accedemos a wordpress, configuramos la base de datos y instalamos



WordPress logo

Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Do not worry, you can always change these settings later.

Site Title

Username
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password [Hide](#)
Strong

Important: You will need this password to log in. Please store it in a secure location.

Your Email
Double-check your email address before continuing.

Search engine visibility ☐ Discourage search engines from indexing this site
It is up to search engines to honor this request.

[Install WordPress](#)