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Hello, World! Setting up WordPress on your Raspberry Pi.

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This site is hosted on a raspberry pi, and here is how I did it.

Prerequisites

First ssh into your pi and install ufw (uncomplicated firewall), make sure to allow port 22 and port 80 and deny everything else.

```
sudo apt-get update
sudo apt-get install ufw
sudo ufw default deny
sudo ufw allow 22
sudo ufw allow 80
sudo ufw enable
```

You may wish to allow some other ports depending on what else you have installed on your pi.

Installing Nginx and php5

Next install nginx (pronounced engine x) and php5

```
sudo apt-get install nginx php5-fpm php5-cgi php5-cli php5-common
```

and we're going to install WordPress to /var/www so first edit the default nginx site

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

and change the lines:

```
root /usr/share/nginx/www;
index index.html index.htm;
to
root /var/www;
index index.html index.htm index.php;
```

and change this line to

```
try_files $uri $uri/ /index.html;
```

to

```
try_files $uri $uri/ /index.php;
```

then also uncomment the php section like so

```
location ~ /\.php$ {
    fastcgi_split_path_info ^(.+\.(php|php5))(/.+)$; # NOTE: You should have
"cgi.fix_pathinfo = 0;" in php.ini
    # With php5-cgi alone:
    # fastcgi_pass 127.0.0.1:9000;
    # With php5-fpm:
    fastcgi_pass unix:/var/run/php5-fpm.sock;
```

```
fastcgi_index index.php;
include fastcgi_params;
}
```

Now we are going to install memcache to take the some of the stress off the SD card

```
sudo apt-get install memcached php5-memcache
sudo service php5-fpm restart
```

Install MYSQL and add a WordPress user and database

```
sudo apt-get install mysql-server php5-mysql
```

You will be prompted to create a root password. Make a secure one and don't forget it. Then run `mysql -u root -p`

Type in the mysql root user password you just created. Now we can create the WordPress database and user.

```
CREATE DATABASE `wordpress`;
GRANT ALL PRIVILEGES ON `wordpress`.* TO 'wordpress'@'localhost' IDENTIFIED
BY 'PUT_A_SUPER_SECRET_WORDPRESS_PASSWORD_HERE';
FLUSH PRIVILEGES;
EXIT
```

Congratulations! You've now setup everything ready for WordPress. Now we need to actually download and install WordPress. Navigate to your home directory and download WordPress like so.

```
cd
```

```
wget "http://wordpress.org/latest.zip"
```

now unzip it and move it to `/var/www`

```
unzip latest.zip
```

```
sudo mv wordpress /var/www
```

Now set the permissions and owner of `www`

```
sudo useradd www-data
```

```
sudo groupadd www-data
```

```
sudo usermod -g www-data www-data
```

```
sudo chmod 755 /var/www -R
```

```
sudo chown -R www-data:www-data /var/www
```

Now using your web browser navigate to `'http://yourIP'` to begin the WordPress wizard!

Once you have set WordPress up, install the plugins `'WC Total Cache'` and `'NGINX'` using the admin panel.