

# WordPress Installation Manual

**9346B**

**Group 4**

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## PREREQUISITES

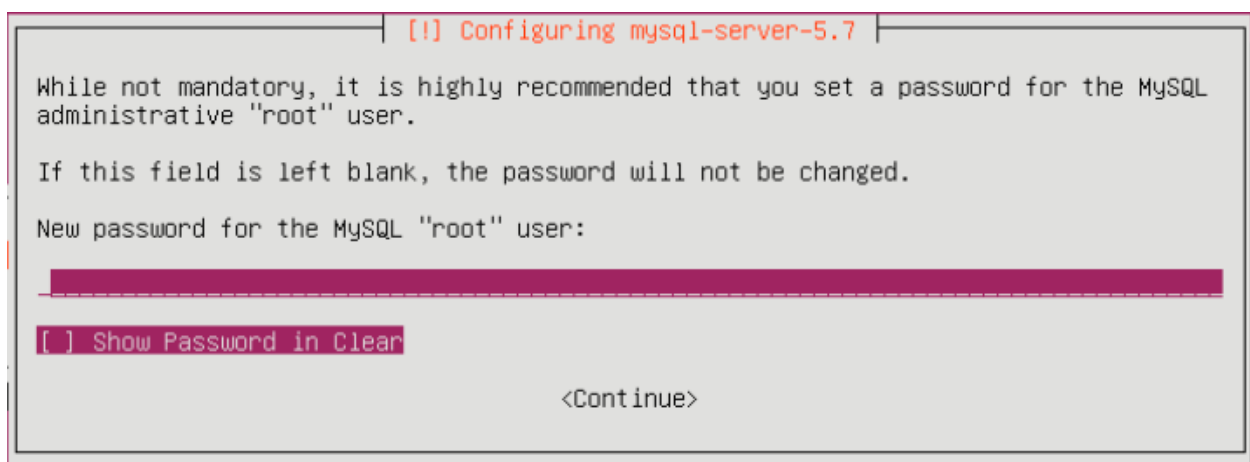
### LAMP (Linux, Apache, MySQL and PHP):

WordPress needed LAMP in order to function correctly, it will use the web server, a database and php.

To install LAMP server while setting up the Ubuntu server, mark the LAMP server as one of the needed software. See image below:



Then after that set a password for MySQL administrative "root user".



## CREATE A MySQL DATA BASE AND USER OF WordPress

First step is use MySQL to store site and user information. Then we need to create a database for WordPress.

To get started issue the command below:

```
webtech@webtech2018:~$ mysql -u root -p_
```

Now it is in MySQL command then create a database for the WordPress by typing the command below:

```
mysql> CREATE DATABASE wordpress DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;
```

Then after creating a database for the WordPress create a user for the database that will manage the site and then grant access to the database that we created. By issuing the command below:

```
mysql> GRANT ALL ON wordpress.* TO 'wordpressuser'@'localhost' IDENTIFIED BY '2018';
```

Then the recent changes that we've made must be saved by typing the command below:

```
mysql> FLUSH PRIVILEGES;
```

Now that the database is done. We can now exit out MySQL by typing the command below:

```
mysql> EXIT
```

## INSTALL ADDITIONAL PHP EXTENSIONS

Download and Install PHP extensions for the WordPress by issuing the command below:

```
webtech@webtech2018:~$ sudo apt-get update
webtech@webtech2018:~$ sudo apt-get install php-curl php-gd php-mbstring php-mcrypt php-xml php-xmlrpc
```

Then after that restart the apache by issuing the command below:

```
webtech@webtech2018:~$ sudo systemctl restart apache2
```

## CONFIGURE APACHE .htaccess OVERRIDES AND REWRITES

### Enable .htaccess Overrides

Then to enable .htaccess, Open the Configuration file of the primary Apache:

```
webtech@webtech2018:~$ sudo nano /etc/apache2/apache2.conf_
```

Then add this few lines to the primary apache configuration:

```
<Directory /var/www/html>  
    AllowOverride All  
</Directory>
```

### Enable mod\_rewrite

So that we can initialize the WordPress permalink feature type the command below:

```
webtech@webtech2018:~$ sudo a2enmod rewrite_
```

Then to implement the changes that we've made restart apache:

```
webtech@webtech2018:~$ service apache2 restart
```

## DOWNLOAD WORDPRESS

To download WordPress from their site:

```
webtech@webtech2018:~$ cd /tmp
```

```
webtech@webtech2018:/tmp$ tar xzvf latest.tar.gz
```

### Change premissions

Create a dummy .htaccess file and then set permission:

```
webtech@webtech2018:/tmp$ touch /tmp/wordpress/.htaccess  
webtech@webtech2018:/tmp$ chmod 660 /tmp/wordpress/.htaccess
```

Then copy the sample configuration file to the filename that WordPress reads:

```
webtech@webtech2018:/tmp$ cp /tmp/wordpress/wp-config-sample.php /tmp/wordpress/wp-config.php
```

Create an upgrade directory for the WordPress so that it will not prompt another permission issues.

```
webtech@webtech2018:/tmp$ mkdir /tmp/wordpress/wp-content/upgrade_
```

To make sure that our permission is maintained -a flag is added.

```
webtech@webtech2018:/tmp$ sudo cp -a /tmp/wordpress/. /var/www/html
```

## Configure WordPress config file

Then set up a reasonable file permission

```
webtech@webtech2018:/tmp$ sudo chown -R www-data:www-data /var/www/html_
```

In the wordpress installation set the setgid bit on every directory by typing the command:

```
webtech@webtech2018:/tmp$ sudo find /var/www/html -type d -exec chmod g+s {} \;
```

To enable plugins and use theme, grant access to the wp-content directory:

```
webtech@webtech2018:/tmp$ sudo chmod g+w /var/www/html/wp-content_
```

Then give a web server a write access to all of the content in the two directories:

```
webtech@webtech2018:/tmp$ sudo chmod -R g+w /var/www/html/wp-content/themes
webtech@webtech2018:/tmp$ sudo chmod -R g+w /var/www/html/wp-content/plugins
```

Grab secure values from the WordPress secret key generator:

```
webtech@webtech2018:/tmp$ curl -s https://api.wordpress.org/secret-key/1.1/salt/
```

Open the WordPress Configuration file:

```
webtech@webtech2018:~$ sudo nano /var/www/html/wp-config.php
```

Then delete these lines:

```
define('AUTH_KEY',          'put your unique phrase here');
define('SECURE_AUTH_KEY',   'put your unique phrase here');
define('LOGGED_IN_KEY',     'put your unique phrase here');
define('NONCE_KEY',        'put your unique phrase here');
define('AUTH_SALT',        'put your unique phrase here');
define('SECURE_AUTH_SALT',  'put your unique phrase here');
define('LOGGED_IN_SALT',    'put your unique phrase here');
define('NONCE_SALT',       'put your unique phrase here');
```

And paste here the generated code:

```
define('AUTH_KEY',          'MAS|WxKXts7J|RR T3D.[Sy-:,!7AHdzDU)-0 #f6`tvCF>L#gHWF%06JyP!@*U ');
define('SECURE_AUTH_KEY',   'uSRNqJdQT),tC;#bH(W,[pEmk[ZcV?j 5tTZm?nVT8,TL(kD@UN9|LE?9}4:H95o');
define('LOGGED_IN_KEY',     'a/V4+]k-_Yc]mI1/S++9n=FX)Shn8Ws2=YU_1g`6yP6DP*EA{<5L)=mxT&RHPzjt');
define('NONCE_KEY',        '%DG#qF}-sVobW|gT@6| )B!`YHka?/Er#0;T=2+orRe>*~^vd[7fL][f3VCk5+~');
define('AUTH_SALT',        '5N]BPKf%Sh [0{=SXtNm--/{+F( 8Rm;2.X;?QL$EI)NmtfO| QUa2vVAo+^|`[@');
define('SECURE_AUTH_SALT',  '*IrtKJd9,5FW:|RN):/wE/v@Jcg3=FDO3|yC|8Hov~k@97JY@:c?hk<k1`W1+kNI');
define('LOGGED_IN_SALT',    'kKZFSM~w_I)c><9X t %/yb?3|EMkm|Z^ip)xvomtJqYvf{-TC*HV`|+Ls;t/|*n');
define('NONCE_SALT',       '%y7AIMf3|4-8P3qBcC*&xW[TtZy]^UFWGbX|xPDY>BKY=PTK{Wl:tH6|anNw{AgK}');
```

Then Open /var/www/html/wp-config.php

And add these lines:

```
define('DB_NAME', 'wordpress');

/** MySQL database username */
define('DB_USER', 'wordpressuser');

/** MySQL database password */
define('DB_PASSWORD', '2018');

define('FS_METHOD', 'direct');
```

## Install WordPress on your Website Using a Web Browser

Navigate to the public ip address.



Next it will prompt to the main setup page and enter all the necessary information.