## WRITE UP

# Langkah-langkah Menginstall WordPress di Ubuntu Server

Tentu! Berikut adalah langkah-langkah untuk menginstal WordPress di Ubuntu Server, lengkap dengan penjelasan dan output dari setiap perintah yang dijalankan.

### Prasyarat

Sebelum menginstal WordPress, pastikan Anda telah menginstal komponen berikut:

Web Server (Apache atau Nginx)

PHP

Database (MySQL atau MariaDB)

Extensions PHP yang diperlukan oleh WordPress

Untuk panduan ini, kita akan menggunakan Apache sebagai web server dan MariaDB sebagai database.

# Langkah 1: Memperbarui Paket Sistem

Pertama, kita perlu memperbarui daftar paket dan menginstal pembaruan yang tersedia. sudo apt update && sudo apt upgrade -y

#### Output:

```
Setting up cryptsetup-initramfs (2:2.7.0-lubuntud.1) ..
update-initramfs: deferring update (trigger activated)
Setting up liblum2cm2.03:and6d (2.03.16-3ubuntu3.1) ...
Setting up dmeventd (2:1.02.185-3ubuntu3.1) ...
Mem-event service is a disabled or a static unit not running, not starting it.
Setting up lvm2 (2.03.16-3ubuntu3.1) ...
Processing triggers for dbus (1.14.10-4ubuntu4.1) ...
Processing triggers for dbus (1.14.10-4ubuntu8.4) ...
Processing triggers for debisantials (5.17build1) ...
Processing triggers for libs-bin (2.39-6ubuntu8.3) ...
Processing triggers for initramfs. (3.23.0-3ubuntu9) ...
Processing triggers for man-db (2.12.0-4ubuld2) ...
Processing triggers for initramfs-tools (0.142ubuntu25.2) ...
update-initramfs: Generating /boot/initrd.img-6.8.0-45-generic
Scanning candidates...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
/etc/needrestart/restart.d/systemd-manager
systemctl restart multipathd.service udisks2.service

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service

No containers need to be restarted.

User sessions running outdated binaries:
aliansah @ user manager service: systemd[902]

No VM guests are running outdated hypervisor (qemu) binaries on this
host.
```

## Langkah 2: Menginstal Apache

Instal Apache dengan perintah berikut:

sudo apt install apache2 -y

Output:

```
Inpacking libaprutil1-ldap:amd64 (1.6.3-1.lubuntu7) ...
Selecting previously unselected package liblua5.4-0:amd64.
Preparing to unpack .../4-liblua5.4-0_5.4.6-3build2_amd64.deb ...
Inpacking liblua5.4-0:amd64 (5.4.6-3build2) ...
Selecting previously unselected package apache2-bin.
Preparing to unpack .../5-apache2-bin_2.4.58-lubuntu8.4_amd64.deb ...
Inpacking apache2-bin (2.4.58-lubuntu8.4) ...
Selecting previously unselected package apache2-data.
Preparing to unpack .../6-apache2-data_2.4.58-lubuntu8.4_all.deb ...
Inpacking apache2-data_2.4.58-lubuntu8.4) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../7-apache2-utils_2.4.58-lubuntu8.4_amd64.deb ...
Inpacking apache2-utils (2.4.58-lubuntu8.4) ...
Selecting previously unselected package apache2.
Preparing to unpack .../8-apache2_4.58-lubuntu8.4_amd64.deb ...
Inpacking apache2 (2.4.58-lubuntu8.4) ...
Selecting previously unselected package sal-cert.
Preparing to unpack .../8-apache2_2.4.58-lubuntu8.4_amd64.deb ...
Inpacking apache2 (2.4.58-lubuntu8.4) ...
Selecting previously unselected package ssl-cert.
Preparing to unpack .../9-ssl-cert_1.1.2ubuntu1...
Setting up ssl-cert (1.1.2ubuntu1) ...
Setting up ssl-cert (1.1.2ubuntu1) ...
Setting up libapritid4:amd64 (1.7.2-3.lubuntu8.1) ...
Setting up libapritil164:amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-dap-amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-dab-sqlite3:amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-dab-sqlite3:amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-dab-sqlite3:amd64 (1.6.3-1.lubuntu7) ...
Setting up apache2-datils (2.4.58-lubuntu8.4) ...
```

# Langkah 3: Menginstal MariaDB

Sekarang, instal MariaDB untuk database:

sudo apt install mariadb-server -y

Output:

```
Setting up libencode-locale-perl (1.05-3) ...
Setting up libenappylv5:amd64 (1.1.10-lbuild1) ...
Setting up socat (1.8.0-0-ubuild3) ...
Setting up socat (1.8.0-0-ubuild3) ...
Setting up libenappylv5:amd64 (2.100-3) ...
Setting up libenappylv5:amd64 (2.100-3) ...
Setting up libenapperl (0.27-dbuild1) ...
Setting up py (1.8.5-2build1) ...
Setting up py (1.8.5-2build1) ...
Setting up py libenapperl (0.27-dbuild2) ...
Setting up liburing2:amd64 (2.5-lbuild2) ...
Setting up liburing2:amd64 (2.5-lbuild3) ...
Setting up liburing4:amd64 (1.643-dbuild3) ...
Setting up mariadb-client-core (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-server-core (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-server-core (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-server(1:10.11.8-obubutu0.24.04.1) ...
Setting up liburing-perl (4.63-1) ...
Setting up liburing-perl (4.63-1) ...
Setting up liburing-perl (4.05-1) ...
Setting up mariadb-server (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-server (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-plugin-provider-big (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-plugin-provider-big (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-plugin-provider-liburing4 (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-plugin-provider-liburing4 (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-plugin-provider-liburing4 (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-plugin-provider-liburing5 (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-setter (1:10.11.8-obubutu0.24.04.1) ...
Setting up mariadb-setter (1:10.11.8-obub
```

## Langkah 4: Mengamankan Instalasi MariaDB

Setelah menginstal MariaDB, jalankan skrip pengamanan:

sudo mysql secure installation

Ikuti petunjuk untuk mengatur kata sandi root dan menghapus pengguna anonim. Berikut adalah contoh output yang mungkin Anda lihat:

## Output:

```
aliansah@aliansah-server:-$ sudo 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] y
Enabled successfully!
Reloading privilege tables..

... Success!

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:
```

```
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] y
... Success!

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] y
... Success!

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] y
- Dropping test database...
- Success!

Removing privileges on test database...
- Success!

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

Reload privilege tables now? [Y/n] y
... Success!

Cleaning up...

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

Thanks for using MariaDB!
```

## Langkah 5: Menginstal PHP dan Extensions yang Diperlukan

Instal PHP dan beberapa extensions yang diperlukan oleh WordPress:

sudo apt install php libapache2-mod-php php-mysql php-xml php-mbstring php-curl php-zip -y

Output:

```
Creating config file /etc/php/8.3/mods-available/curl.ini with new version
Setting up php8.3-cli (8.3.6-0ubuntu0.24.04.2) ...
update-alternatives: using /usr/bin/phpas.3 to provide /usr/bin/phpar (phar) in auto mode
update-alternatives: using /usr/bin/phar.8.3 to provide /usr/bin/phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.phar8.3 to provide /usr/bin/phar.phar (phar.phar) in auto mode
Creating config file /etc/php/8.3/cli/php.ini with new version
Setting up php-mbstring (2:8.3+93ubuntu2) ...
Setting up php8.3-zip (8.3.6-0ubuntu0.24.04.2) ...
Creating config file /etc/php/8.3/mods-available/zip.ini with new version
Setting up libapache2-mod-php8.3 (8.3.6-0ubuntu0.24.04.2) ...

Creating config file /etc/php/8.3/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_switch_mpm Switch to prefork
apache2_switch_mpm Switch to prefork
apache2_switch_mpm Switch to prefork
spache2_switch_mpm Switch to prefork
spache2_lonvoke: Enable module php8.3
Setting up php-curl (2:8.3+93ubuntu2) ...
Setting up php8.3 (8.3.6-0ubuntu0.24.04.2) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu0.21.04.2) ...
Processing triggers for libc-bin (2.39-0ubuntu0.22.04.4.2) ...
Scanning processes ...
Scanning processes ...
Scanning processes ...
Scanning linux images ...
```

# Langkah 6: Menginstal WordPress

Unduh WordPress: Gunakan wget untuk mengunduh paket WordPress terbaru.

wget https://wordpress.org/latest.tar.gz

#### Output:

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.

aliansah@aliansah-server:~$ wget https://wordpress.org/latest.tar.gz
--2024-10-15 11:49:04-- https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 24640061 (23M) [application/octet-stream]
Saving to: 'latest.tar.gz'
latest.tar.gz 100%[==========] 23.50M 2.01MB/s in 16s
2024-10-15 11:49:21 (1.50 MB/s) - 'latest.tar.gz' saved [24640061/24640061]
```

Ekstrak File WordPress: Ekstrak file yang telah diunduh:

tar -xvzf latest.tar.gz

Output:

```
wordpress/mlrpc.php
wordpress/ymp-blog-header.php
wordpress/ymp-blog-header.php
wordpress/ymp-signup.php
wordpress/ymp-cnon.php
wordpress/ymp-cnon.php
wordpress/ymp-cnon.php
wordpress/ymp-cnofig-sample.php
wordpress/ymp-cnofig-sample.php
wordpress/ymp-cnofig-sample.php
wordpress/ymp-cnotent/themes/
wordpress/ymp-cnotent/
themes/
twentytwentythree/
patterns/
patterns/
patterns/
post-meta.php
wordpress/ymp-cnotent/
pordpress/
pordpress/ymp-cnotent/
themes/
twentytwentythree/
patterns/
patterns/
potterns/
potte
```

Pindahkan File ke Direktori Web: Pindahkan file WordPress ke direktori web Apache: sudo mv wordpress/\* /var/www/html/

Set Permission: Atur hak akses yang sesuai untuk direktori WordPress: sudo chown -R www-data:www-data /var/www/html/ sudo chmod -R 755 /var/www/html/

# Langkah 7: Membuat Database untuk WordPress

Masuk ke MariaDB untuk membuat database dan pengguna untuk WordPress:

sudo mysql -u root -p

Setelah masuk, jalankan perintah berikut:

```
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 41
Server version: 10.11.8-MariaDB-Oubuntu0.24.04.1 Ubuntu 24.04
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 wordpress;
Query OK, 1 row affected (0.000 sec)
MariaDB [(none)]> CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'lianli an';
Query OK, 0 rows affected (0.003 sec)
MariaDB [(none)]> GRANT ALL PRIVILEGES ON wordpress.* TO 'wpuser'@'local host';
Query OK, 0 rows affected (0.069 sec)
MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)
MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)
MariaDB [(none)]> EXIT
Bye
```

## Langkah 8: Mengonfigurasi WordPress

Salin File Konfigurasi: Salin file konfigurasi default WordPress.

cp /var/www/html/wp-config-sample.php /var/www/html/wp-config.php

Edit File Konfigurasi: Edit file wp-config.php untuk menambahkan detail database.

nano /var/www/html/wp-config.php

Gantilah bagian berikut dengan detail database Anda:

```
define('DB_NAME', 'wordpress');
define('DB_USER', 'wpuser');
define('DB_PASSWORD', 'kata_sandi_wpuser');
```

Langkah 9: Mengakses WordPress

Buka browser dan masukkan alamat IP server Anda atau http://your\_server\_ip. Anda akan melihat halaman pengaturan WordPress. Ikuti petunjuk untuk menyelesaikan instalasi. Maka outputnya akan seperti ini



# Apache2 Ubuntu Default Page

#### It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

#### **Configuration Overview**

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

Ini outputnya masih apache2 sedangkan yang kita inginkan adalah outputnya yaitu layanan dari wordpress nya. Maka lakukan cara dibawah ini

1. Hapus dulu semua file dan direktory di dalam direktory /var/www/html

Gunakan cara tersebut supaya lebih cepat dalam proses penghapusan file dan direktory

2. Kita download dulu wordpressnya menggunakan wget

```
aliansah@aliansah-server:~$ wget https://wordpress.org/latest.zip
--2024-10-15 12:00:16-- https://wordpress.org/latest.zip
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 26139871 (25M) [application/zip]
Saving to: 'latest.zip'

latest.zip 100%[===========] 24.93M 1.74MB/s in 42s
2024-10-15 12:00:59 (611 KB/s) - 'latest.zip' saved [26139871/26139871]
```

3. Jika sudah kita unzip file tersebut

```
aliansahgaliansah-server: $ unzip latest.zip
Archive: latest.zip
inFlating: wordpress/wh_blog-header.php
inFlating: wordpress/wh_blog-header.php
inFlating: wordpress/readme.html
inFlating: wordpress/mp-signup.php
inFlating: wordpress/mp-signup.php
inFlating: wordpress/mp-con.php lp.
inFlating: wordpress/mp-con.php lp.
inFlating: wordpress/mp-con.php
inFlating: wordpress/mp-con.php
inFlating: wordpress/wp-content/
inFlating: wordpress/mp-content/
creating: wordpress/mp-content/themes/
creating: wordpress/mp-content/themes/twentythree/
inFlating: wordpress/mp-content/themes/twentythree/
parts/
inFlating: wordpress/mp-content/themes/twentythree/
parts/footen.html
inFlating: wordpress/mp-content/themes/twentythree/
inFlating: wordpress/mp-c
```

Jika tidak bisa menggunakan perintah unzip, ini biasanya terjadi karena command unzip belum terinstall di ubuntu kita, maka kita perlu menginstallnya terlebih dahulu dengan cara sebagai berikut:

sudo apt-get install unzip

4. Selanjutnya kita coppy file wordpress yang sudah kita unzip tadi ke dalam direktory /var/www/html

```
aliansah@aliansah-server:~$ ls
latest.tar.gz latest.zip wordpress
aliansah@aliansah-server:~$ sudo cp -r wordpress /var/www/html
```

- 5. Setelah itu kita masuk ke directory /var/www/html/wordpress
- 6. Selanjuntya kita edit confignya menggunakan perintah sudo nano wp-config-sample.php

```
GNU nano 7.2

***

**The base configuration for WordPress

**

** The wp-config.php creation script uses this file during the installation.

** You don't have to use the website, you can copy this file to "wp-config.php"

** and fill in the values.

**

** This file contains the following configurations:

**

** Database settings

** Secret keys

** Database table prefix

** ABSPATH

**

** @link https://developer.wordpress.org/advanced-administration/wordpress/wp-config/

** @package WordPress

*//

/** Database settings - You can get this info from your web host ** //

/** The name of the database for WordPress */

define( 'OB_NAME', 'database_name_here' );

/** Database username */

define( 'OB_USER', 'username_here' );

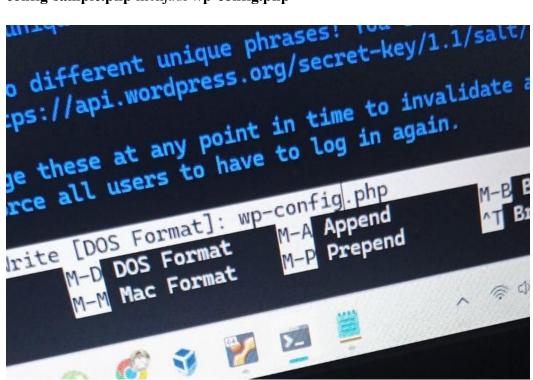
/** Database password */

define( 'OB_PASSWORD', 'password_here' );

/** Database hostname */
```

### Ganti sesuai dengan keinginan

Dan jangan lupa sebelum save config kita, kita rubah nama filenya yang **semula wp-config-sample.php** menjadi **wp-config.php** 



7. Langkah selanjutnya jalan perintah sudo nano /etc/apache2/sites-available/000-default.conf

```
CNU nano 7.2

*VirtualHost *:80

# The ServerMame directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerMame
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName wmw.example.com

ServerAdmin webmaster@localhost
DocumentRoot /var/wmw/html/wordpress

# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#Loglevel info ssl.warn

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/error.log
customLog $fapachez.log.DIR}/access.log combined

# For most configuration files from conf-available/, which are
# enabled or disabled at a global level, it is possible to
# include a line for only one particular virtual host. For example the
# following line enables the CGI configuration for this host only
# after it has been globally disabled with "a2disconf".
#Include conf-available/serve-cgi-bin.conf

*/VirtualHost>

Read 29 lines ]
```

Tambahkan pada DocumentRoot /var/www/html/wordlpress

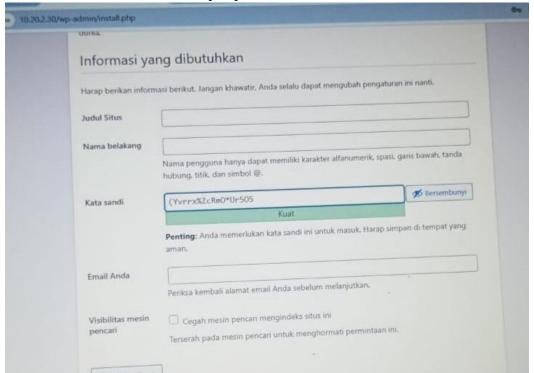
8. Setelah semua telah terkonfigurasi dengan benar, kita restart apache2 nya

```
aliansah@aliansah-server:/var/www/html/wordpress$ sudo systemctl restart apache2
```

## Langkah 10: Menyelesaikan Instalasi

Ikuti langkah-langkah di halaman instalasi WordPress untuk menyelesaikan pengaturan, termasuk memasukkan judul situs, nama pengguna, dan kata sandi admin.

1. Buka broweser dan ketikkan http://ipserver



Maka akan keluar output seperti pada gamba dan ini bisa di isikan sesuai dengan keinginan kalian



Dan ini adalah akhir jika semuanya sudah terkonfigurasi dengan benar

## Kesimpulan

Setelah mengikuti langkah-langkah di atas, Anda seharusnya sudah berhasil menginstal WordPress di server Ubuntu