

**LAPORAN PEMROSESAN PARALEL  
WORDPRESS**

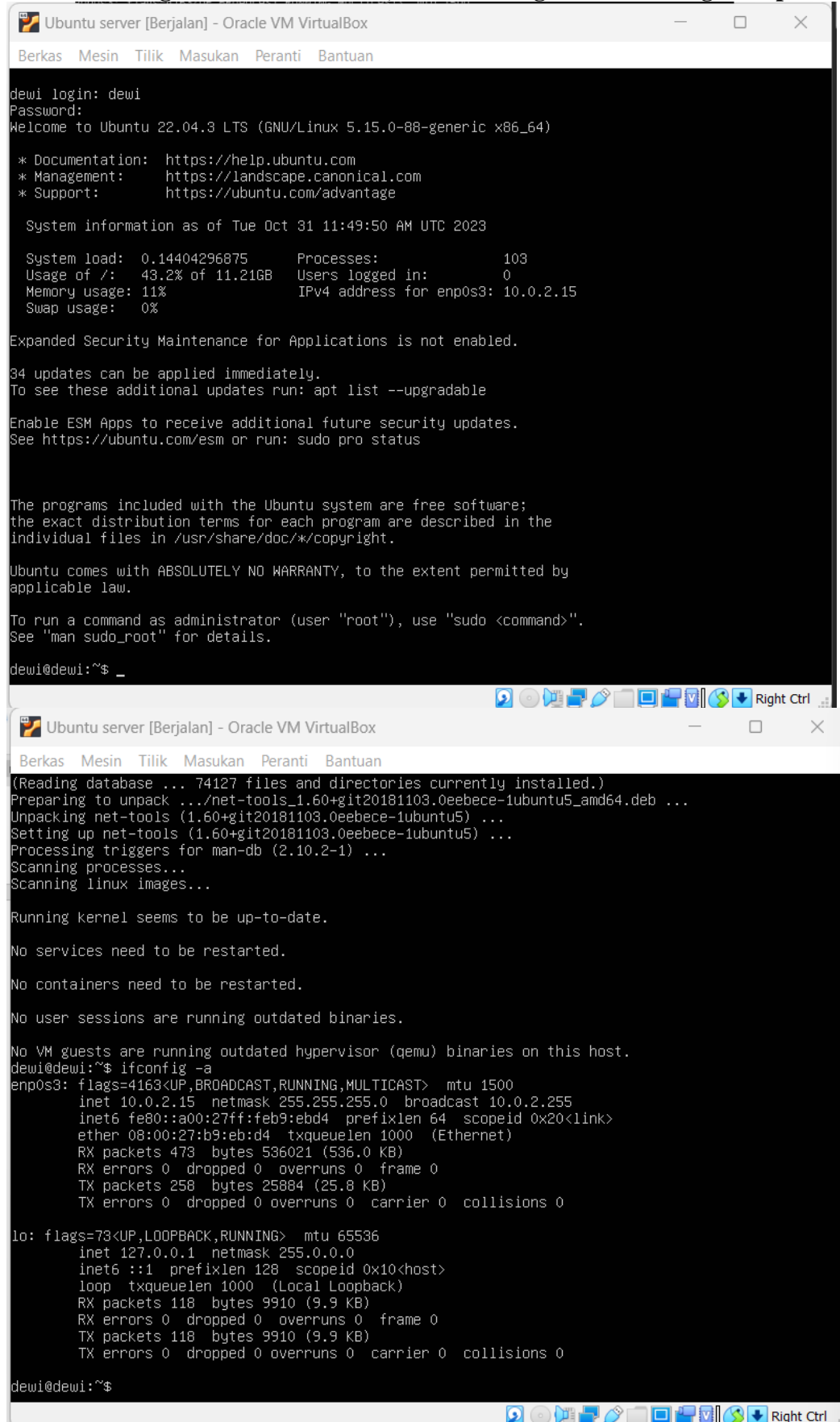


**Disusun  
Oleh:**

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**JURUSAN SISTEM KOMPUTER  
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2023**

## 1. Melakukan login di Ubuntu server, ketik ifconfig -a untuk mengecek ip kita



The image shows two screenshots of a terminal window running on an Ubuntu server within an Oracle VM VirtualBox. The first screenshot shows the login process and system information. The second screenshot shows the output of the 'ifconfig -a' command.

```
Ubuntu server [Berjalan] - Oracle VM VirtualBox
Berkas Mesin Tilik Masukan Peranti Bantuan

dewi login: dewi
Password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-88-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Tue Oct 31 11:49:50 AM UTC 2023

System load:  0.14404296875   Processes:            103
Usage of /:   43.2% of 11.21GB Users logged in:               0
Memory usage: 11%           IPv4 address for enp0s3: 10.0.2.15
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

34 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

dewi@dewi:~$ _
```

```
Ubuntu server [Berjalan] - Oracle VM VirtualBox
Berkas Mesin Tilik Masukan Peranti Bantuan

(Reading database ... 74127 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

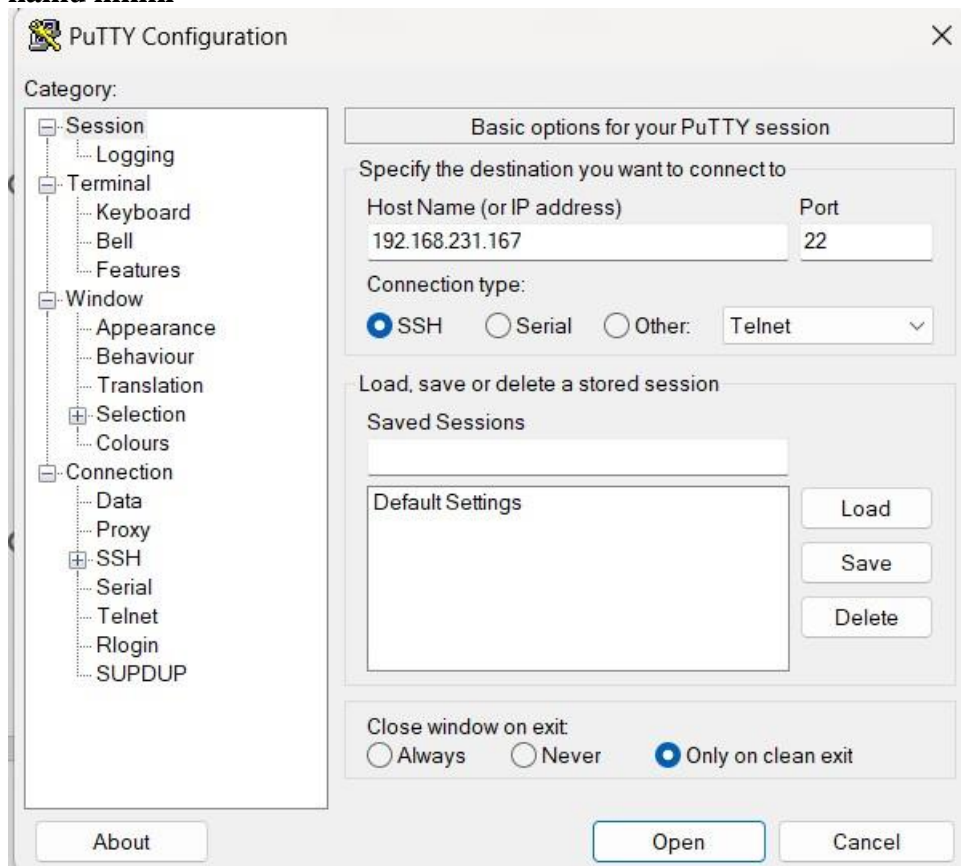
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
dewi@dewi:~$ ifconfig -a
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:feb9:ebd4 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b9:eb:d4 txqueuelen 1000 (Ethernet)
    RX packets 473 bytes 536021 (536.0 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 258 bytes 25884 (25.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 118 bytes 9910 (9.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 118 bytes 9910 (9.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

dewi@dewi:~$
```

2. Kemudian buka apk PuTTY, kemudian hubungkan atau masuk ke Ubuntu server dengan PuTTY SSH server serta masukan hostname / ip address yang kamu miliki



3. Login PuTTY dengan username dan password yang ada di Ubuntu server

```
dewi@dewi: ~  
login as: dewi  
dewi@192.168.231.167's password:  
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-88-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Tue Oct 31 12:42:40 PM UTC 2023  
  
System load:  0.0                Processes:            104  
Usage of /:   43.3% of 11.21GB   Users logged in:     1  
Memory usage: 12%                IPv4 address for enp0s3: 192.168.231.167  
Swap usage:   0%  
  
* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s  
just raised the bar for easy, resilient and secure K8s cluster deployment.  
  
https://ubuntu.com/engage/secure-kubernetes-at-the-edge  
  
Expanded Security Maintenance for Applications is not enabled.  
  
34 updates can be applied immediately.  
To see these additional updates run: apt list --upgradable
```

4. Untuk menginstal server web Apache, jalankan perintah berikut:

*sudo apt update*

*sudo apt install apache2*

```
dewi@dewi:~$ sudo apt update
[sudo] password for dewi:
Sorry, try again.
[sudo] password for dewi:
Hit:1 http://id.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://id.archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,148 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [245 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1,103 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [179 kB]
Fetched 2,904 kB in 3s (948 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
34 packages can be upgraded. Run 'apt list --upgradable' to see them.
dewi@dewi:~$

dewi@dewi:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap liblua5.3-0 mailcap mime-support ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser bzip2-doc
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support ssl-cert
0 upgraded, 13 newly installed, 0 to remove and 34 not upgraded.
Need to get 2,137 kB of archives.
After this operation, 8,505 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

5. Jika instalasi sudah selesai, aktifkan dan mulai Apache :

*sudo systemctl start apache2*

*sudo systemctl enable apache2*

```
dewi@dewi:~$ sudo systemctl start apache2
dewi@dewi:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
dewi@dewi:~$
```

6. Install PHP serta modul yang diperlukan untuk menjalankan bersama Apache :

*sudo apt install php libapache2-mod-php php-mysql*

```
dewi@dewi:~$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php8.1 php-common php8.1 php8.1-cli php8.1-common php8.1-mysql
  php8.1-opcache php8.1-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.1 php php-common php-mysql php8.1 php8.1-cli
  php8.1-common php8.1-mysql php8.1-opcache php8.1-readline
0 upgraded, 11 newly installed, 0 to remove and 34 not upgraded.
Need to get 5,265 kB of archives.
After this operation, 21.8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Abort.
```

Setelah instalasi dan PHP bekerja dengan baik bersama Apache :

*sudo systemctl restart apache2*

```
dewi@dewi:~$ sudo systemctl restart apache2
dewi@dewi:~$
```

## 7. Install database server (MySQL) :

Contoh penggunaan Mysql :

*sudo apt install mysql-server*

```
dewi@dewi: ~
dewi@dewi:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl
  libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl
  libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl
  liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
  mysql-client-core-8.0 mysql-common mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl mailx tinyca
The following NEW packages will be installed:
  libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl
  libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl
  libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl
  liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
  mysql-client-core-8.0 mysql-common mysql-server mysql-server-8.0 mysql-server-core-8.0
0 upgraded, 28 newly installed, 0 to remove and 34 not upgraded.
Need to get 29.6 MB of archives.
After this operation, 243 MB of additional disk space will be used.
```

Lalu setelah instalasi sudah selesai, amankan instalasi mysql :

*sudo mysql\_secure\_installation*

```
dewi@dewi:~$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.

VALIDATE PASSWORD COMPONENT can be used to test passwords
and improve security. It checks the strength of password
and allows the users to set only those passwords which are
secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No:

'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : no
... skipping.
By default, MySQL 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? (Press y|Y for Yes, any other key for No) : no
... skipping.
Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : yes
Success.

All done!
dewi@dewi:~$
```

## 8. Membuat database dan pengguna database

Log masuk ke mysql sebagai root :

*sudo mysql*

```
dewi@dewi:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
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>
```

Buat database baru dan pengguna database untuk WordPress. Gantilah ``nama_database``, ``nama_pengguna``, dan ``password_pengguna`` sesuai kebutuhan

```
dewi@dewi: ~
All done!
dewi@dewi:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
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 dewi_database;
Query OK, 1 row affected (0.00 sec)

mysql> CREATE USER 'dewi'@'localhost' IDENTIFIED BY 'dewikuyy_18';
Query OK, 0 rows affected (0.02 sec)

mysql> GRANT ALL PRIVILEGES ON dewi_database.* TO 'dewi'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql> EXIT;
Bye
dewi@dewi:~$
```

## 9. Unduh dan ekstrak arsip WordPress ke direktori web root. Gantilah ``nama_folder`` dengan nama folder yang dibuat

```
dewi@dewi:~$ cd /var/www/html
dewi@dewi:/var/www/html$ sudo wget https://wordpress.org/latest.tar.gz
--2023-10-31 13:22:13-- 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: 23465047 (22M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz      100%[=====>] 22.38M  1.87MB/s   in 19s

2023-10-31 13:22:33 (1.17 MB/s) - 'latest.tar.gz' saved [23465047/23465047]

dewi@dewi:/var/www/html$
dewi@dewi:/var/www/html$ sudo tar -xzf latest.tar.gz
```



```
dewi@dewi:/var/www/html$ sudo mv wordpress dewi_folder
dewi@dewi:/var/www/html$
```

## 10. Konfigurasi WordPress

Membuat salinan file konfigurasi WordPress:

```
sudo cp /var/www/html/nama_folder/wp-config-sample.php
/var/www/html/nama_folder/wp-config.php
```

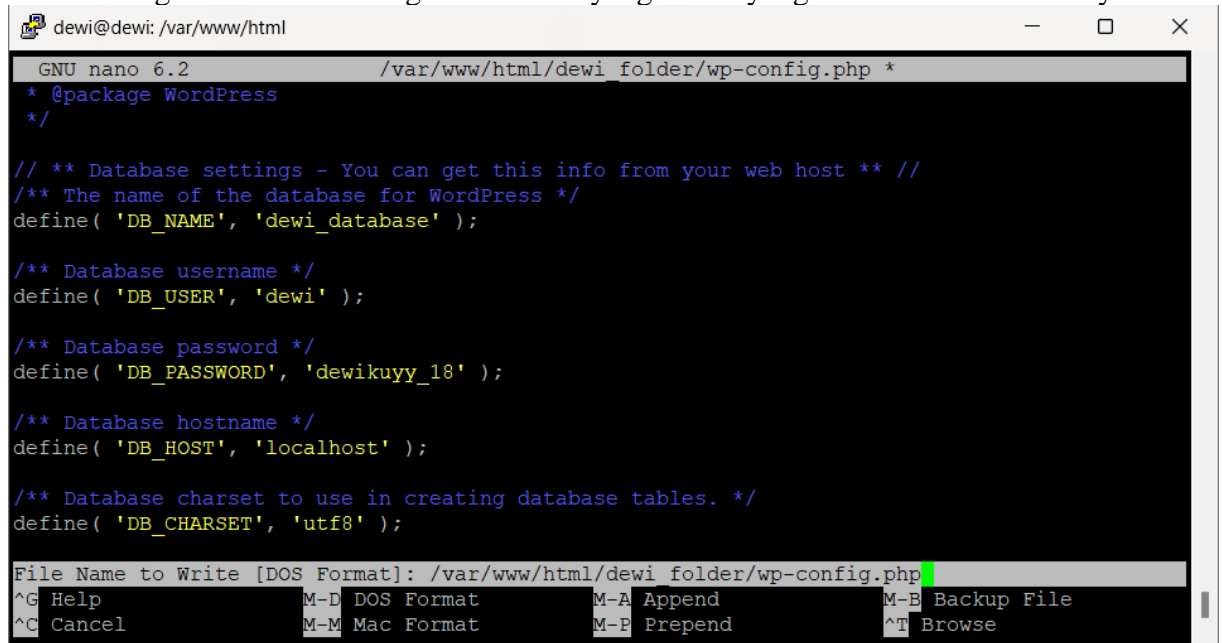
```
dewi@dewi:/var/www/html$ sudo cp /var/www/html/dewi_folder/wp-config-sample.php /var/www/html/dewi_folder/wp-config.php
dewi@dewi:/var/www/html$
```

Kemudian, edit file 'wp-config.php';

```
sudo nano /var/www/html/nama_folder/wp-config.php
```

```
dewi@dewi:/var/www/html$ sudo nano /var/www/html/dewi_folder/wp-config.php
dewi@dewi:/var/www/html$
```

Ganti konfigurasi database dengan informasi yang sesuai yang telah dibuat sebelumnya



```
dewi@dewi: /var/www/html
GNU nano 6.2 /var/www/html/dewi_folder/wp-config.php *
* @package WordPress
*/

// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'dewi_database' );

/** Database username */
define( 'DB_USER', 'dewi' );

/** Database password */
define( 'DB_PASSWORD', 'dewikuyy_18' );

/** Database hostname */
define( 'DB_HOST', 'localhost' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

File Name to Write [DOS Format]: /var/www/html/dewi_folder/wp-config.php
^G Help      M-D DOS Format  M-A Append     M-B Backup File
^C Cancel    M-M Mac Format  M-P Prepend    ^T Browse
```

## 11. Meng-setel hak akses

Pastikan Apache memiliki hak akses yang tepat ke folder WordPress :

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

```
dewi@dewi:/var/www/html$ sudo chown -R www-data:www-data /var/www/html/dewi_folder
dewi@dewi:/var/www/html$
```

## 12. Konfigurasi web server

Membuat konfigurasi server web Apache untuk mengarahkan permintaan ke WordPress. Buat file konfigurasi baru:

```
sudo nano /etc/apache2/sites-available/nama_domain.conf
```

```
dewi@dewi:/var/www/html$ sudo nano /etc/apache2/sites-available/192.168.231.167.conf
```

Isi konfigurasi server web:

```
GNU nano 6.2 /etc/apache2/sites-available/192.168.231.167.conf
<VirtualHost *:80>
    ServerAdmin admin@192.168.231.167
    DocumentRoot /var/www/html/dewi_folder
    ServerName 192.168.231.167
    ServerAlias www.192.168.231.167
    <Directory /var/www/html/dewi_folder>
        Options FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

### 13. Aktifkan konfigurasi dan restart Apache

Mengaktifkan konfigurasi situs dan restart Apache :

*sudo a2ensite nama\_domain.conf*

```
dewi@dewi:/var/www/html$ sudo a2ensite 192.168.231.167.conf
Enabling site 192.168.231.167.
To activate the new configuration, you need to run:
    systemctl reload apache2
dewi@dewi:/var/www/html$
```

*sudo systemctl restart apache2*

```
dewi@dewi:/var/www/html$ sudo systemctl restart apache2
dewi@dewi:/var/www/html$
```

### 14. Cek status keaktifan dari Apache2

```
~
~
lines 1-17/17 (END)
dewi@dewi:/var/www/html$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-10-31 13:49:31 UTC; 12min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 4238 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 4242 (apache2)
     Tasks: 55 (limit: 2221)
    Memory: 4.7M
       CPU: 62ms
    CGroup: /system.slice/apache2.service
           └─4242 /usr/sbin/apache2 -k start
             └─4243 /usr/sbin/apache2 -k start
               └─4244 /usr/sbin/apache2 -k start

Oct 31 13:49:31 dewi systemd[1]: Starting The Apache HTTP Server...
Oct 31 13:49:31 dewi apachectl[4241]: AH00558: apache2: Could not reliably determine the serv
Oct 31 13:49:31 dewi systemd[1]: Started The Apache HTTP Server.
lines 1-17/17 (END)
dewi@dewi:/var/www/html$
```



```
dewi@dewi:/var/www/html$ ls
dewi_folder index.html latest.tar.gz
dewi@dewi:/var/www/html$
```

## 15. Tampilan saat di sambung ke web site

