# LAPORAN PEMROSESAN PARALEL "WORDPRESS"



# **Disusun Oleh:**

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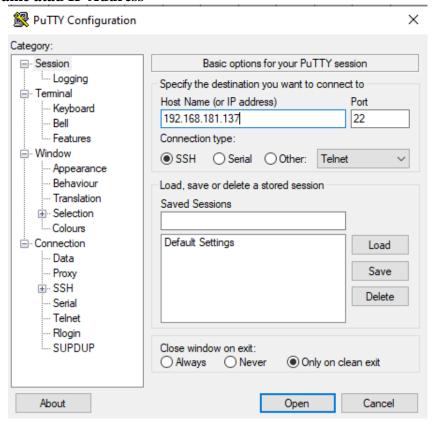
2023

1. Saat login ke ubuntu masukkan username dan password, lalu ketik ifconfig -a untuk mengecek IP

```
catrin@catrinserver:~$ ifconfig -a
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.181.137    netmask 255.255.255.0 broadcast 192.168.181.255
    inet6 fe80::20c:29ff:fec8:b0d4    prefixlen 64    scopeid 0x20<link>
        ether 00:0c:29:c8:b0:d4    txqueuelen 1000 (Ethernet)
        RX packets 3043    bytes 4275161 (4.2 MB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 1100 bytes 89462 (89.4 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 137 bytes 11274 (11.2 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 137 bytes 11274 (11.2 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2. Login ke Ubuntu Server dengan menggunakan Putty SSH server, lalu masukan Host Name atau IP Address



3. Setelah itu login ke putty dengan cara memasukkan username dan password

```
catrin@catrinserver: -
  login as: catrin
  catrin@192.168.181.137's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-78-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 07:17:18 AM UTC 2023
 System load: 0.3388671875
                                 Processes:
                                                          213
 Usage of /: 48.4% of 9.75GB Users logged in:
 Memory usage: 19%
                                 IPv4 address for ens33: 192.168.181.137
 Swap usage:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
```

4. Jalankan perintah dibawah ini untuk menginstal server web Apache sudo apt update sudo apt install apache2

```
catrin@catrinserver: ~
                                                                          \times
catrin@catrinserver:~$ sudo apt update
[sudo] password for catrin:
Hit: | http://id.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu jammy/main amd64 c-n-f Metadata [30.3
kB]
Get:6 http://id.archive.ubuntu.com/ubuntu jammy/restricted amd64 c-n-f Metadata
[488 B]
Get:7 http://id.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [2
86 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata
[8,372 B]
Get:9 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,1
46 kB]
Get:10 http://id.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [24
Get:ll http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metada
ta [16.1 kB]
Get:12 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packag
es [1,099 kB]
Get:13 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-
en [178 kB]
```

```
catrin@catrinserver: ~
                                                                         \times
atrin@catrinserver:~$ 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 libaprl libaprutill
 libaprutill-dbd-sqlite3 libaprutill-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 libaprl libaprutill
 libaprutill-dbd-sqlite3 libaprutill-ldap liblua5.3-0 mailcap mime-support
0 upgraded, 13 newly installed, 0 to remove and 62 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] y
Get:l http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprl amd64
1.7.0-8ubuntu0.22.04.1 [108 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutill a
md64 1.6.1-5ubuntu4.22.04.2 [92.8 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutill-d 🗸
```

#### 5. Setelah instalasinya selesai, lalu aktifkan dan mulai Apache

sudo systemctl start apache2

sudo systemctl enable apache2

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

**6. Instal PHP dan modul yang diperlukan untuk berjalan bersama Apache** sudo apt install php libapache2-mod-php php-mysql

catrin@catrinserver: ~ X catrin@catrinserver:~\$ 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 62 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 Get:l http://id.archive.ubuntu.com/ubuntu jammy/main amd64 php-common all 2:92ub untul [12.4 kB] Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-common amd64 8.1.2-lubuntu2.14 [1,127 kB] Get:3 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.l-opcach e amd64 8.1.2-lubuntu2.14 [365 kB] Get:4 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.l-readli ne amd64 8.1.2-lubuntu2.14 [13.6 kB]

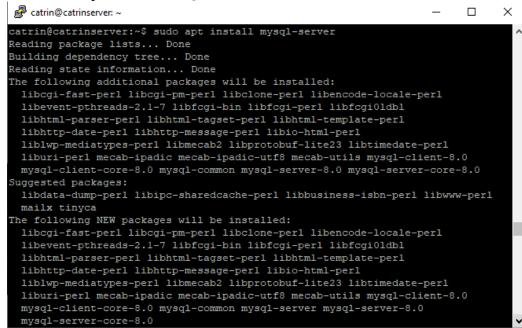
Setelah menyelesaikan proses instalasi, periksa agar PHP berjalan dengan baik bersama Apache

sudo systemctl restart apache2

```
catrin@catrinserver:~$ sudo systemctl restart apache2
catrin@catrinserver:~$
```

#### 7. Instal Database Server (MySQL)

sudo apt install mYSQL-server



Setelah selesai melakukan instalasi selesai, selanjutnya amankan instalasi mysql

sudo mysql secure installation [sudo] password for catrin: 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: y There are three levels of password validation policy: T.OW Length >= 8 MEDIUM Length >= 8, numeric, mixed case, and special characters STRONG Length >= 8, numeric, mixed case, special characters and dictionary Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: ^C catrin@catrinserver:~\$

## 8. Selanjutnya membuat Database dan Pengguna Database

Log masuk ke mysql sebagai root:

sudo mysql

```
catrin@catrinserver: ~
                                                                          catrin@catrinserver:~$ 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 catrin database;
Query OK, 1 row affected (0.02 \text{ sec})
mysql> CREATE USER 'catrin'@'localhost' IDENTIFIED BY '123Cett_';
Query OK, 0 rows affected (0.07 sec)
mysql> GRANT ALL PRIVILEGES ON catrin database.* TO 'catrin'@'localhost';
Query OK, 0 rows affected (0.02 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.02 sec)
```

Buat database baru dan pengguna database untuk WordPress. Ubah bagian `nama\_database`, `nama\_pengguna`, dan `password\_pengguna`

```
mysql> CREATE DATABASE catrin_database;
Query OK, 1 row affected (0.02 sec)

mysql> CREATE USER 'catrin'@'localhost' IDENTIFIED BY '123Cett_';
Query OK, 0 rows affected (0.07 sec)

mysql> GRANT ALL PRIVILEGES ON catrin_database.* TO 'catrin'@'localhost';
Query OK, 0 rows affected (0.02 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.02 sec)

mysql> EXIT

Bye
catrin@catrinserver:~$
```

#### 9. Instal WordPress:

Dwonload lalu ekstrak arsip WordPress ke dalam direktori web root. Dan ubahlah `nama\_folder` dengan nama folder yang diinginkan:

## 10. Konfigurasi pada WordPress

Membuat salinan file konfigurasi pada WordPress dan edit file `wp-config.php

```
catrin@catrinserver:/var/www/html$ sudo mv wordpress catrin_folder
catrin@catrinserver:/var/www/html$ sudo cp /var/www/html/catrin_folder/wp-config
-sample.php /var/www/html/catrin_folder/wp-config.php
```

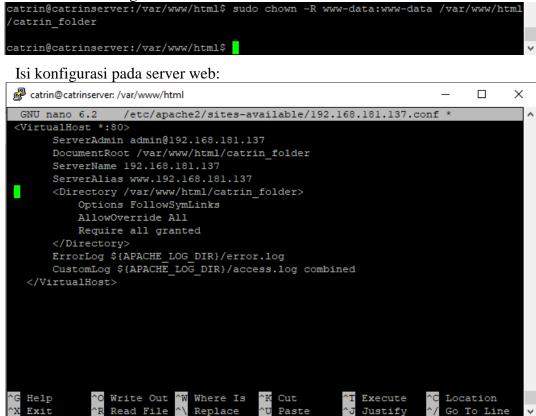
Sesuaikan konfigurasi database dengan informasi yang telah dibuat sebelumnya.

```
catrin@catrinserver: /var/www/html
                     /var/www/html/catrin folder/wp-config.php *
 GNU nano 6.2
define( 'DB_NAME', 'catrin_database');
define( 'DB_USER', 'catrin');
define ( 'DB PASSWORD', '123Cett ' );
define( 'DB HOST', 'localhost' );
 ** Database charset to use in creating database tables. */
define( 'DB CHARSET', 'utf8' );
define( 'DB COLLATE', '' );
G Help
             ^O Write Out ^W Where Is
                                       ^K Cut
                                                     ^T Execute
                                                                   °C Location
                                          Paste
                Read File
                             Replace
                                                        Justify
                                                                     Go To Line
```

#### 11. Atur Izin Akses

Pastikan Apache memiliki hak akses yang tepat ke folder WordPress.

Konfigurasikan server web Apache untuk mengalihkan permintaan ke WordPress dengan membuat file konfigurasi baru.



## 12. Aktifkan Konfigurasi dan Restart Apache

Aktifkan konfigurasi situs, lakukan restart pada Apache, serta cek status keaktifan Apache2

```
catrin@catrinserver:/var/www/html$ sudo a2ensite 192.168.181.137.conf
Enabling site 192.168.181.137.

To activate the new configuration, you need to run:
   systemctl reload apache2
catrin@catrinserver:/var/www/html$ sudo nano /etc/apache2/sites-available/192.16
8.181.137.conf
catrin@catrinserver:/var/www/html$ sudo a2ensite 192.168.181.137.conf
Enabling site 192.168.181.137.

To activate the new configuration, you need to run:
   systemctl reload apache2
catrin@catrinserver:/var/www/html$ sudo systemctl restart apache2
catrin@catrinserver:/var/www/html$ sudo systemctl status apache2
```

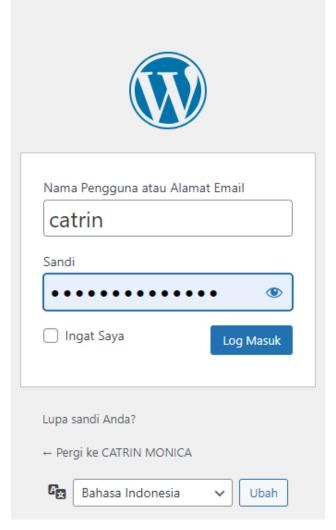
```
catrin@catrinserver: /var/www/html
                                                                           \times
 systemctl reload apache2
catrin@catrinserver:/var/www/html$ sudo systemctl restart apache2
catrin@catrinserver:/var/www/html$ sudo systemctl status apache2
 apache2.service - The Apache HTTP Server
    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese>
    Active: active (running) since Tue 2023-10-31 09:23:01 UTC; lmin 7s ago
       Docs: https://httpd.apache.org/docs/2.4/
   Process: 11792 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
  Main PID: 11796 (apache2)
     Tasks: 6 (limit: 2178)
    Memory: 10.4M
       CPU: 12.649s
     CGroup: /system.slice/apache2.service
             -11796 /usr/sbin/apache2 -k start
             -11798 /usr/sbin/apache2 -k start
              —11799 /usr/sbin/apache2 -k start
—11800 /usr/sbin/apache2 -k start
              -11801 /usr/sbin/apache2 -k start
             L11802 /usr/sbin/apache2 -k start
Oct 31 09:22:59 catrinserver systemd[1]: Starting The Apache HTTP Server...
Oct 31 09:23:01 catrinserver apachect1[11795]: AH00558: apache2: Could not reli>
   31 09:23:01 catrinserver systemd[1]: Started The Apache HTTP Server.
lines 1-20/20 (END)
catrin@catrinserver:/var/www/html$ ls
atrin_folder index.html latest.t
catrin@catrinserver:/var/www/html$
```

13.Kemudian ke laman web dan ketik sesuai dengan domain "http://192.168.181.137/wp-admin/install.php" maka tampilan akan berubah seperti ini

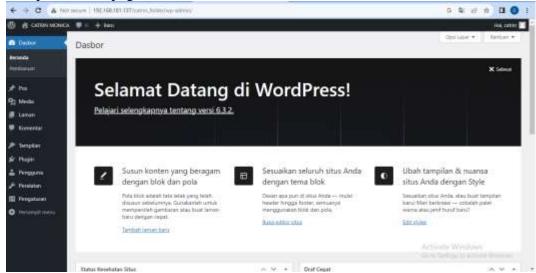




Selanjutnya masukkan judul situs, email, dan password. Setelah selesai coba login dengan menggunakan nama pengguna/email dan password yang telah diatur sebelumnya sehingga akan muncul tampilan berikut



Tampilan Homepage untuk Admin Server



Berikut tampilan saat mencoba untuk membuat halaman web yang akan ditampilkan pada saat pengunjung masuk

