

# **Laporan Pemrosesan Paralel**

## **“WordPress”**



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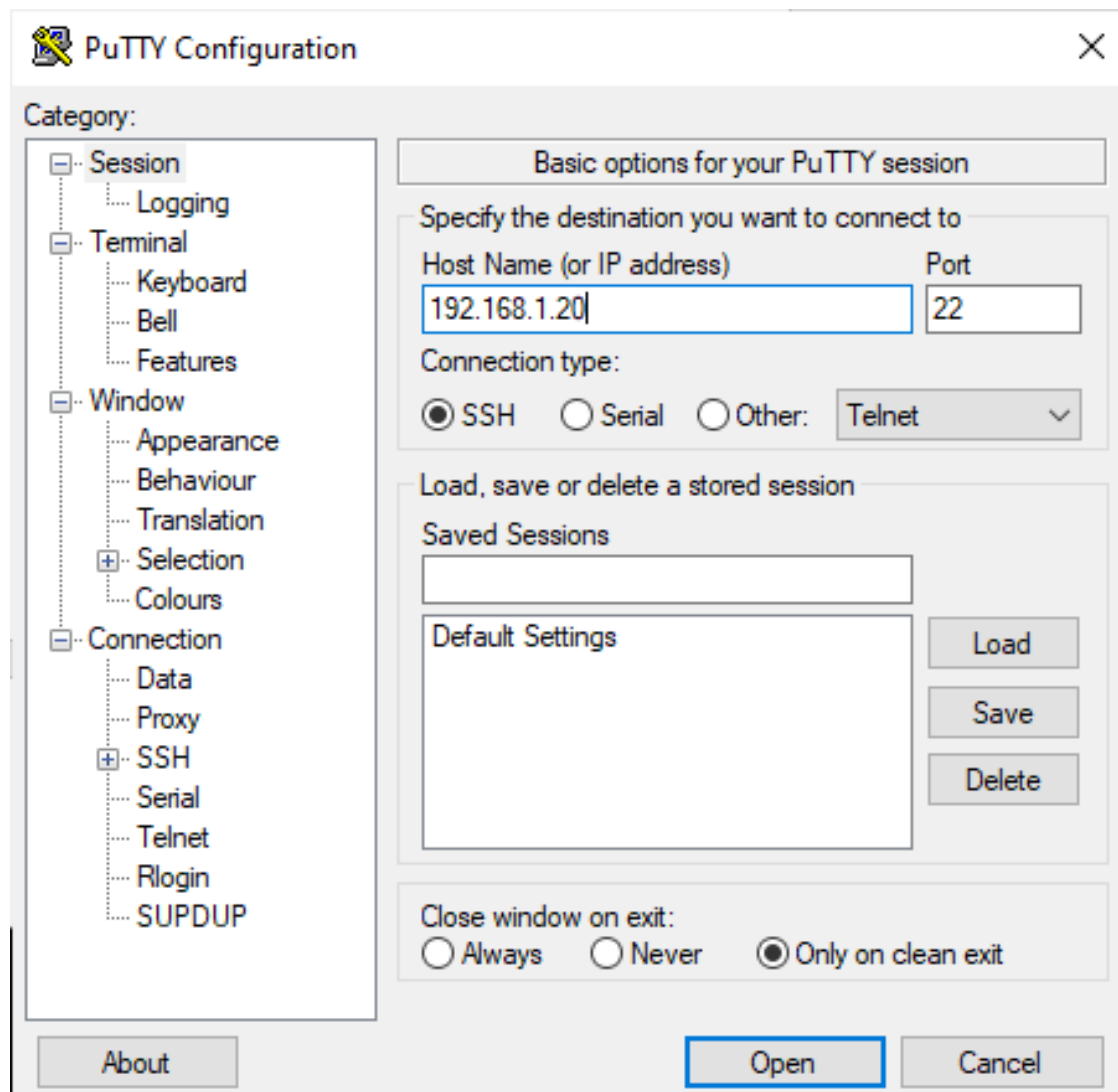
**PROGRAM STUDI SISTEM KOMPUTER**  
**FAKULTAS ILMU KOMPUTER**  
**UNIVERSITAS SRIWIJAYA**

## Langkah-langkahnya

1. Langkah pertama yang kita lakukan adalah login ke sistem Ubuntu, kita perlu memiliki akun pengguna dan kata sandi yang valid. Setelah login ke ubuntu, ketik **ip a** untuk mengecek ip.

```
sefiyah@sefiyah:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:51:35:f0 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.20/24 metric 100 brd 192.168.1.255 scope global dynamic enp0s3
        valid_lft 172721sec preferred_lft 172721sec
    inet6 fe80::a00:27ff:fe51:35f0/64 scope link
        valid_lft forever preferred_lft forever
sefiyah@sefiyah:~$
```

2. Masuk/Login ke Ubuntu Server menggunakan Putty SSH server, lalu masukan hostname/ip address. (Connected)



### 3. Login ke putty

```
sefiyah@sefiyah: ~  
* Support: https://ubuntu.com/advantage  
  
System information as of Mon Oct 30 06:47:25 AM UTC 2023  
  
System load: 0.0          Processes: 104  
Usage of /: 52.1% of 8.02GB Users logged in: 1  
Memory usage: 23%        IPv4 address for enp0s3: 192.168.43.238  
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  
  
Last login: Mon Oct 30 06:23:06 2023  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
sefiyah@sefiyah:~$
```

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

sudo apt update

sudo apt install apache2

```
sefiyah@sefiyah: ~  
Last login: Mon Oct 30 12:21:05 2023 from 192.168.1.5  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
sefiyah@sefiyah:~$ sudo apt update  
[sudo] password for sefiyah:  
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease  
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [115 kB]  
Get:3 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]  
Get:4 http://archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]  
Get:5 http://archive.ubuntu.com/ubuntu jammy/main Translation-en [6,564 B]  
Get:6 http://archive.ubuntu.com/ubuntu jammy/main amd64 c-n-f Metadata [30.3 kB]  
Get:7 http://archive.ubuntu.com/ubuntu jammy/restricted Translation-en [192 B]  
Get:8 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 c-n-f Metadata [489 B]  
Get:9 http://archive.ubuntu.com/ubuntu jammy/universe Translation-en [2,020 B]  
Get:10 http://archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [226 kB]  
Get:11 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [6,372 B]  
Get:12 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,107 kB]  
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [240 kB]  
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [16.1 kB]  
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1,037 kB]  
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [144 kB]  
Get:17 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [534 B]  
Get:18 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [596 kB]  
Get:19 http://archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [218 kB]  
Get:20 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.0 kB]  
Get:21 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.4 kB]  
Get:22 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]  
Get:23 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [64.2 kB]  
Get:24 http://archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]  
Get:25 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]  
Get:26 http://archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [114 B]  
Get:27 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [27.8 kB]  
Get:28 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [16.4 kB]  
Get:29 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [444 B]  
Get:30 http://archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [114 B]  
Get:31 http://archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [894 kB]  
Get:32 http://archive.ubuntu.com/ubuntu jammy-security/main Translation-en [189 kB]  
Get:33 http://archive.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [11.4 kB]  
Get:34 http://archive.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1,016 kB]  
Get:35 http://archive.ubuntu.com/ubuntu jammy-security/restricted Translation-en [144 kB]  
474 [34 Packages] 9 B [35 Translation-en 0 B/164 kB 0%]  
437 kB/s 20%
```

```
sefiyah@sefiyah: ~  
Get:40 http://archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [34.5 kB]  
Get:41 http://archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]  
Fetched 7,900 kB in 1s (712 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
62 packages can be upgraded. Run 'apt list --upgradable' to see them.  
sefiyah@sefiyah:~$ sudo apt install apache2  
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-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1  
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support  
  ssl-cert  
0 upgraded, 12 newly installed, 0 to remove and 62 not upgraded.  
Need to get 2,137 kB of archives.  
After this operation, 9,501 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapr1 amd64 1.7.0-Substun0.22.04.1 [109 kB]  
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1 amd64 1.4.1-Substun0.22.04.2 [92.8 kB]  
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.4.1-Substun0.22.04.2 [11.3 kB]  
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-ldap amd64 1.6.1-Substun0.22.04.2 [9,170 B]  
Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 liblua5.3-0 amd64 5.3.4-1build1 [140 kB]  
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-bin amd64 2.4.52-1ubuntu0.6 [1,345 kB]  
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-data all 2.4.52-1ubuntu0.6 [165 kB]  
Get:8 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-utils amd64 2.4.52-1ubuntu0.6 [89.1 kB]  
Get:9 http://archive.ubuntu.com/ubuntu jammy/main amd64 mailcap all 3.70ubuntu1 [23.8 kB]  
Get:10 http://archive.ubuntu.com/ubuntu jammy/main amd64 mime-support all 3.66 [3,498 B]  
Get:11 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ssl-cert amd64 2.4.52-1ubuntu0.6 [97.0 kB]  
Get:12 http://archive.ubuntu.com/ubuntu jammy/main amd64 bzip2 amd64 1.0.6-5build1 [34.8 kB]  
Get:13 http://archive.ubuntu.com/ubuntu jammy/main amd64 ssl-cert all 1.1.2 [17.4 kB]  
Fetched 2,137 kB in 1s (440 kB/s)  
Preconfiguring packages ...  
Selecting previously unselected package libapr1:amd64.  
Reading package lists... Done
```

5. Setelah instalasi selesai, aktifkan dan mulai Apache:

```
sudo systemctl start apache2
```

```
sudo systemctl enable apache2
```

```
sefiyah@sefiyah:~$ sudo systemctl start apache2
sefiyah@sefiyah:~$ 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
sefiyah@sefiyah:~$
```

6. Instal PHP dan modul yang diperlukan untuk berjalan bersama Apache:

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

**Setelah instalasi, pastikan PHP bekerja dengan Apache dengan baik:**

```
sudo systemctl restart apache2
```

```
sefiyah@sefiyah: ~
sefiyah@sefiyah:~$ 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
Get:1 http://id.archive.ubuntu.com/ubuntu jammy/main amd64 php-common all 2:92ubuntu1 [12.4 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-common amd64 8.1.2-1ubuntu2.14 [1,127 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-opcache amd64 8.1.2-1ubuntu2.14 [365 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-readline amd64 8.1.2-1ubuntu2.14 [13.6 kB]
sefiyah@sefiyah:~$ sudo systemctl restart apache2
sefiyah@sefiyah:~$
```

## 7. Instal Database Server (MySQL):

Berikut contoh penggunaan Mysql: `sudo apt install mariadb-server`

Setelah instalasi selesai, amankan instalasi mysql: `sudo mysql_secure_installation`

```
sefiyah@sefiyah:~$ sudo apt install mariadb-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  galera-4 libbgi-fast-perl libbgi-pm-perl libclone-perl libconfig-inifiles-perl libdaxctl libdbd-mysql-perl libdbi-perl libencode-locale-perl 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 libmariadb3 libmysqlclient21 libndctl6 libpam0 libsnappy1v5 libtimedate-perl liburi-perl liburing2 mariadb-client-10.6
  mariadb-client-core-10.6 mariadb-common mariadb-server-10.6 mariadb-server-core-10.6 mysql-common socat
Suggested packages:
  libmldbm-perl libnet-daemon-perl libsql-statement-perl libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl mailx mariadb-test
The following NEW packages will be installed:
  galera-4 libbgi-fast-perl libbgi-pm-perl libclone-perl libconfig-inifiles-perl libdaxctl libdbd-mysql-perl libdbi-perl libencode-locale-perl 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 libmariadb3 libmysqlclient21 libndctl6 libpam0 libsnappy1v5 libtimedate-perl liburi-perl liburing2 mariadb-client-10.6
  mariadb-client-core-10.6 mariadb-common mariadb-server mariadb-server-10.6 mariadb-server-core-10.6 mysql-common socat
3 upgraded, 35 newly installed, 0 to remove and 62 not upgraded.
Need to get 18,5 MB of archives.
After this operation, 164 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 mysql-common all 5.8+1.0.8 [7,212 B]
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 mariadb-common all 1:10.6.12-0ubuntu0.22.04.1 [16,4 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/universe amd64 galera-4 amd64 26.4.9-1build1 [720 kB]
debconf: [3 galera-4 164 kB/720 kB 23%]
```

## 8. Buat Database dan Pengguna Database Log masuk ke mysql sebagai root: `sudo mysql`

```
sefiyah@sefiyah:~$ 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] n
... skipping.

By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
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] n
... skipping.

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
```



```
sefiyah@sefiyah:~$ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34
Server version: 10.6.12-MariaDB-0ubuntu0.22.04.1 Ubuntu 22.04

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)]>
```

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

```
MariaDB [(none)]> CREATE DATABASE sefiyah_database;
Query OK, 1 row affected (0,001 sec)
```

```
MariaDB [(none)]> CREATE USER 'sefiyah'@'localhost' IDENTIFIED BY 'sefiyah';
Query OK, 0 rows affected (0,010 sec)
```

```
MariaDB [(none)]>
```

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON sefiyah_database.* TO 'sefiyah'@'localhost';
Query OK, 0 rows affected (0,002 sec)
```

```
MariaDB [(none)]>
```

```
MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,002 sec)
```

```
MariaDB [(none)]> EXIT;
Bye
sefiyah@sefiyah:~$
```

## 9. Instal WordPress

Unduh dan ekstrak arsip WordPress ke direktori web root. Gantilah `nama\_folder` dengan nama folder yang diinginkan:

```
sefiyah@sefiyah:~$ cd /var/www/html
sefiyah@sefiyah:/var/www/html$ sudo wget https://wordpress.org/latest.tar.gz
--2023-10-30 12:34:47-- 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  613KB/s  in 25s

2023-10-30 12:35:14 (908 KB/s) - 'latest.tar.gz' saved [23465047/23465047]

sefiyah@sefiyah:/var/www/html$
```



## 10. Setel Hak Akses:

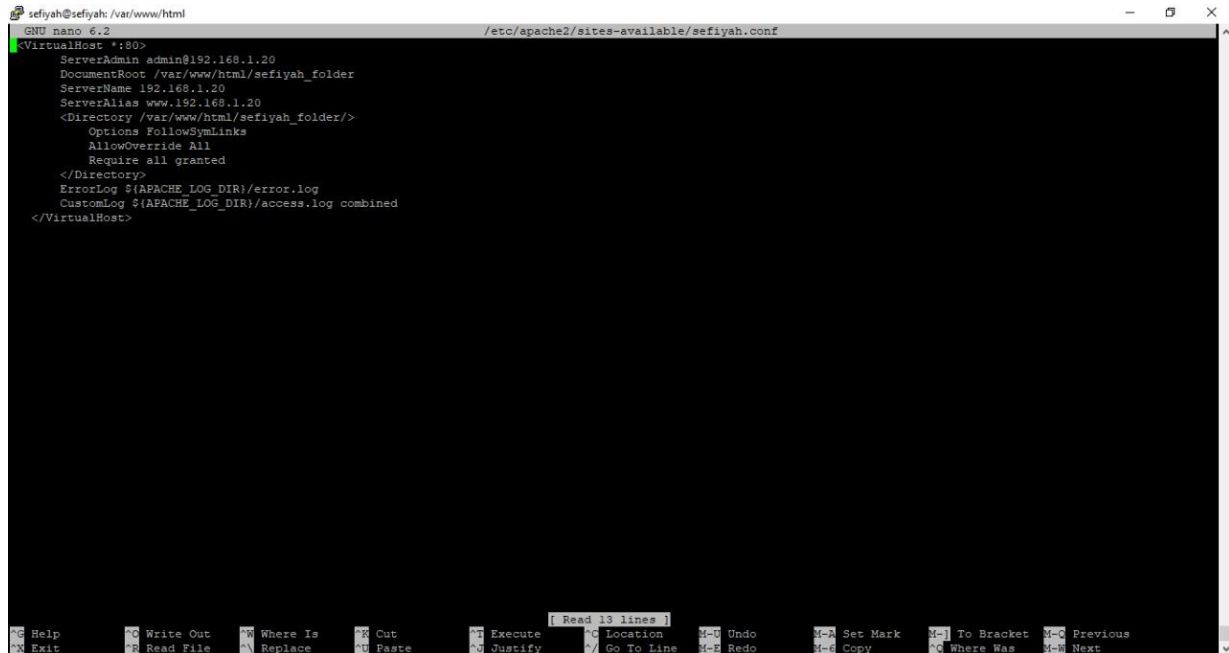
Pastikan Apache memiliki hak akses yang tepat ke folder WordPress:

```
sefiyah@sefiyah:/var/www/html$ sudo mv wordpress sefiyah_folder
sefiyah@sefiyah:/var/www/html$ sudo cp /var/www/html/sefiyah_folder/wp-config-sample.php /var/www/html/sefiyah_folder/wp-config.php
sefiyah@sefiyah:/var/www/html$ sudo nano /var/www/html/sefiyah_folder/wp-config.php
sefiyah@sefiyah:/var/www/html$ sudo chown -R www-data:www-data /var/www/html/sefiyah_folder
sefiyah@sefiyah:/var/www/html$ sudo nano /etc/apache2/sites-available/sefiyah.conf
```

## 11. Konfigurasi Web Server:

Buat konfigurasi server web Apache untuk mengarahkan permintaan ke WordPress.

Isi konfigurasi server web:



```
sefiyah@sefiyah:/var/www/html$ nano /etc/apache2/sites-available/sefiyah.conf
GNU nano 6.2 /etc/apache2/sites-available/sefiyah.conf
<VirtualHost *:80>
  ServerAdmin admin@192.168.1.20
  DocumentRoot /var/www/html/sefiyah_folder
  ServerName 192.168.1.20
  ServerAlias www.192.168.1.20
  <Directory /var/www/html/sefiyah_folder/>
    Options FollowSymLinks
    AllowOverride All
    Require all granted
  </Directory>
  ErrorLog ${APACHE_LOG_DIR}/error.log
  CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

## 12. Aktifkan Konfigurasi dan restart Apache:

Aktifkan konfigurasi situs dan restart Apache:

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

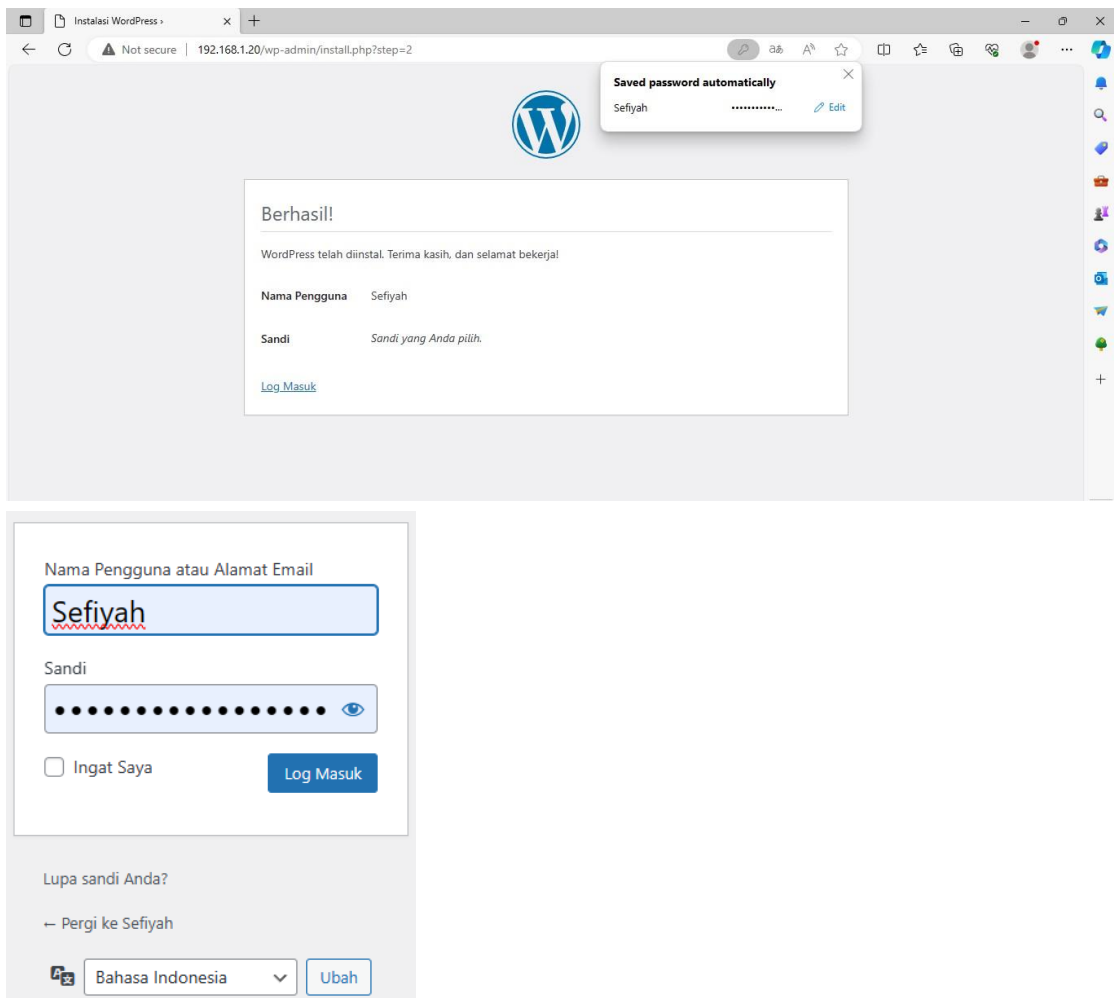


### 13. Cek status keaktifan apache2

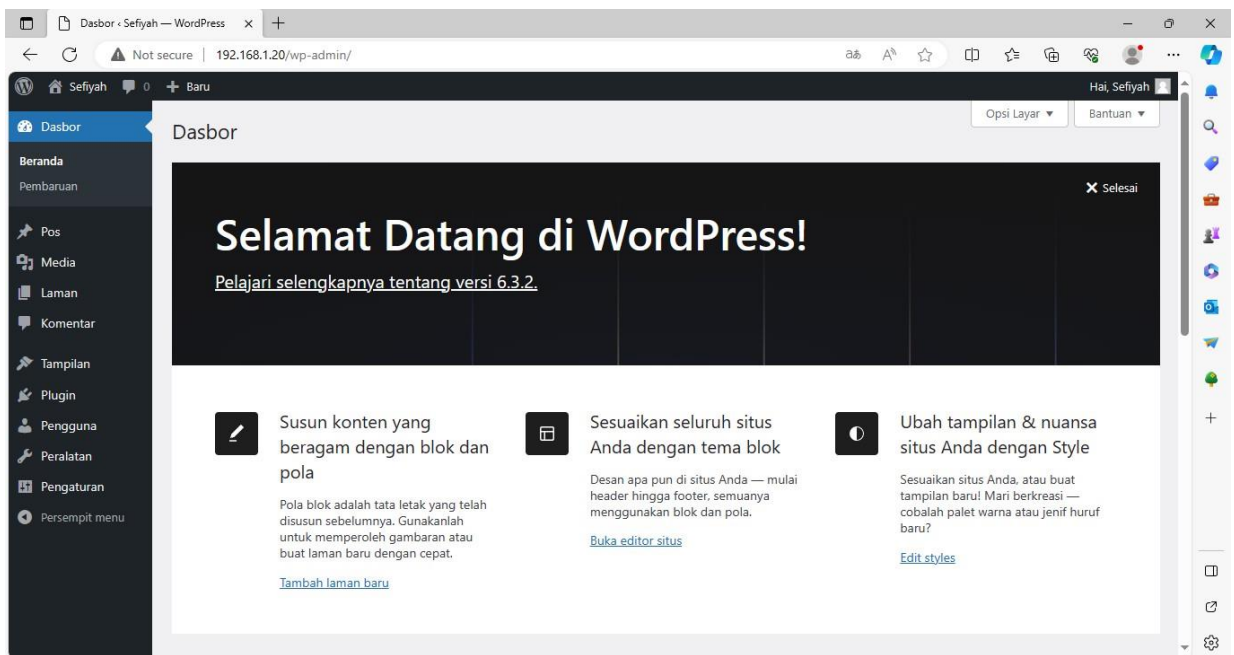
```
sefiyah@sefiyah: /var/www/html
sefiyah@sefiyah:/var/www/html$ sudo systemctl restart apache2
sefiyah@sefiyah:/var/www/html$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2023-10-30 07:52:12 UTC; 1min 34s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 11426 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
    Main PID: 11430 (apache2)
       Tasks: 6 (limit: 1013)
      Memory: 10.7M
         CPU: 51ms
    CGroup: /system.slice/apache2.service
           └─11430 /usr/sbin/apache2 -k start
             11431 /usr/sbin/apache2 -k start
             11432 /usr/sbin/apache2 -k start
             11433 /usr/sbin/apache2 -k start
             11434 /usr/sbin/apache2 -k start
             11435 /usr/sbin/apache2 -k start

Oct 30 07:52:12 sefiyah systemd[1]: Starting The Apache HTTP Server...
Oct 30 07:52:12 sefiyah apachectl[11429]: AH00112: Warning: DocumentRoot [/var/www/html/nama_fo]
Oct 30 07:52:12 sefiyah apachectl[11429]: AH00558: apache2: Could not reliably determine the se
Oct 30 07:52:12 sefiyah systemd[1]: Started The Apache HTTP Server.
lines 1-21/21 (END)
sefiyah@sefiyah:/var/www/html$ ls
index.html latest.tar.gz sefiyah_folder
sefiyah@sefiyah:/var/www/html$
```

14. Lalu ke web dan ketik sesuai domain “http://192.168.1.20/wp-admin/install.php” maka tampilan akan berubah seperti ini:



Kemudian langsung masuk ke admin page:



Berikut adalah tampilan Halaman Web anda pada saat pengunjung masuk:

