

LAPORAN PEMROSESAN PARALEL
“ **WORDPRESS** “



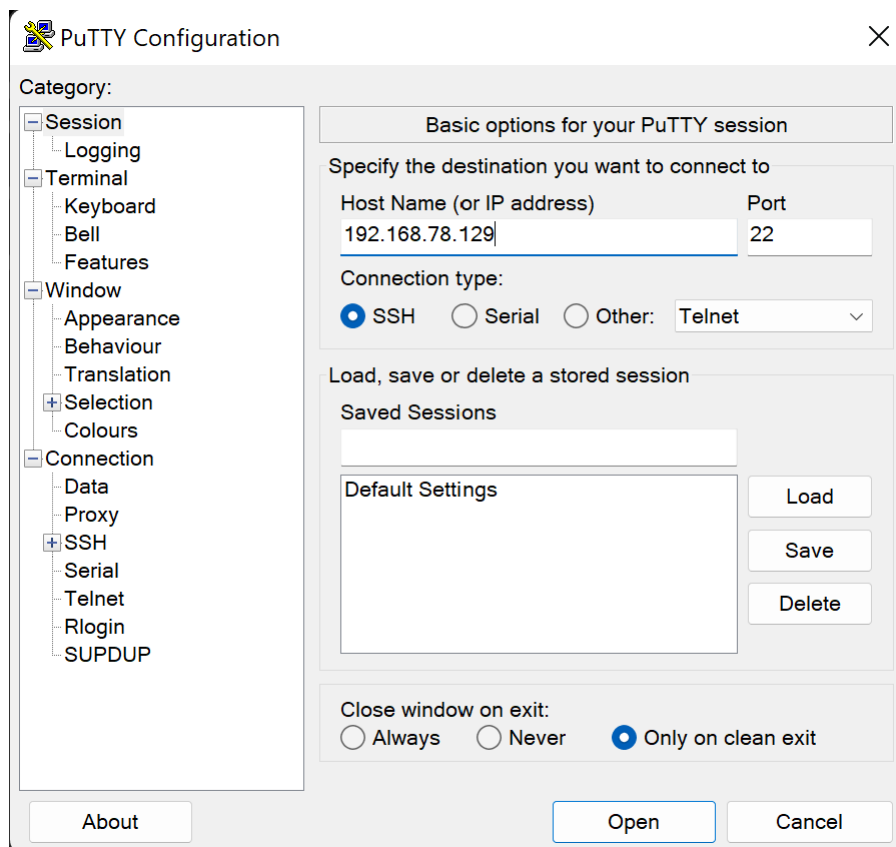
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FAKULTAS ILMU KOMPUTER
JURUSAN SISTEM KOMPUTER
UNIVERSITAS SRIWIJAYA
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1. Login ke ubuntu dan ketik “ip a” untuk mengecek ip

```
sayyid_fadhil@serversayyid:~$ 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: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:b5:d4:2b brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.78.129/24 metric 100 brd 192.168.78.255 scope global dynamic ens33
        valid_lft 1601sec preferred_lft 1601sec
    inet6 fe80::20c:29ff:feb5:d42b/64 scope link
        valid_lft forever preferred_lft forever
sayyid_fadhil@serversayyid:~$
```

2. Login ke ubuntu server menggunakan Putty SSH server, lalu masukan ip address



3. Login ke putty

```
sayyid_fadhil@serversayyid: ~  
login as: sayyid_fadhil  
sayyid_fadhil@192.168.78.129'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 02:50:03 PM UTC 2023  
  
System load:  0.04638671875      Processes:            210  
Usage of /:   47.4% of 9.75GB    Users logged in:     1  
Memory usage: 19%               IPv4 address for ens33: 192.168.78.129  
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  
  
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your  
Internet connection or proxy settings  
  
Last login: Tue Oct 31 14:44:33 2023  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
sayyid_fadhil@serversayyid:~$
```

4. Instal Apache

Untuk menginstal server web Apache, jalankan perintah berikut :

- sudo apt update
- sudo apt install apache2

```
sayyid_fadhil@serversayyid:~$ sudo apt update  
[sudo] password for sayyid_fadhil:  
Hit:1 http://id.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Hit:4 http://id.archive.ubuntu.com/ubuntu jammy-security InRelease  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
34 packages can be upgraded. Run 'apt list --upgradable' to see them.  
sayyid_fadhil@serversayyid:~$
```

```
sayyid_fadhil@serversayyid:~$ 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.
```

Setelah instalasi selesai, aktifkan dan mulai Apache :

- `sudo systemctl start apache2`
- `sudo systemctl enable apache2`

```
sayyid_fadhil@serversayyid:~$ sudo systemctl start apache2
sayyid_fadhil@serversayyid:~$ 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
sayyid_fadhil@serversayyid:~$
```

5. Instal PHP dan Modulnya

Instal PHP dan modul yang diperlukan untuk berjalan bersama Apache:

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

```
sayyid_fadhil@serversayyid:~$ 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.
```

Setelah instalasi, pastikan PHP bekerja dengan Apache dengan baik:

- `sudo systemctl restart apache2`

```
sayyid_fadhil@serversayyid:~$ sudo systemctl restart apache2
sayyid_fadhil@serversayyid:~$
```

6. Instal Database Server (MySQL atau MariaDB)

Berikut contoh penggunaan mysql :

- sudo apt install mysql-server

```
sayyid_fadhil@serversayyid:~$ 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 tinyc
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.
```

Setelah instalasi selesai, amankan instalasi mysql:

- sudo mysql_secure_installation

```
sayyid_fadhil@serversayyid:~$ 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: y

There are three levels of password validation policy:

LOW      Length >= 8
MEDIUM  Length >= 8, numeric, mixed case, and special characters
STRONG Length >= 8, numeric, mixed case, special characters and dictionary
        file

Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: ^C
sayyid_fadhil@serversayyid:~$
```

7. Buat Database dan Pengguna Database

Log masuk ke mysql sebagai root :

- `sudo mysql`

```
sayyid_fadhil@serversayyid:~$ 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.

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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 :

```
mysql> CREATE DATABASE sayyid_database;
Query OK, 1 row affected (0.00 sec)

mysql> CREATE USER 'sayyid'@'localhost' IDENTIFIED BY 'Fadhil291103baenah_';
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT ALL PRIVILEGES ON sayyid_database.* TO 'sayyid'@'localhost';
Query OK, 0 rows affected (0.01 sec)

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

mysql> EXIT;
Bye
sayyid_fadhil@serversayyid:~$
```

8. Instal WordPress

Unduh dan ekstrak arsip WordPress ke direktori web root. Gantilah nama_folder dengan nama folder yang Anda inginkan:

- `cd /var/www/html`
- `sudo wget https://wordpress.org/latest.tar.gz`
- `sudo tar -xzf latest.tar.gz`
- `sudo mv wordpress nama_folder`

```
sayyid_fadhil@serversayyid:~$ cd /var/www/html
sayyid_fadhil@serversayyid:/var/www/html$ sudo wget https://wordpress.org/latest
.tar.gz
--2023-10-31 17:22:22-- 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.2'

latest.tar.gz.2      100%[=====>] 22.38M  6.64MB/s   in 4.9s
2023-10-31 17:22:35 (4.52 MB/s) - 'latest.tar.gz.2' saved [23465047/23465047]

sayyid_fadhil@serversayyid:/var/www/html$
```

```
sayyid_fadhil@serversayyid:/var/www/html$ sudo mv wordpress sayyid_folder
```

9. Konfigurasi WordPress

Buat salinan file konfigurasi WordPress:

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

```
sayyid_fadhil@serversayyid:/var/www/html$ sudo cp /var/www/html/sayyid_folder/wp-config-sample.php /var/www/html/sayyid_folder/wp-config.php
```

Selanjutnya, edit file wp-config.php:

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

```
sayyid_fadhil@serversayyid:/var/www/html$ sudo nano /var/www/html/sayyid_folder/wp-config.php
sayyid_fadhil@serversayyid:/var/www/html$
```

Ganti konfigurasi database dengan informasi yang sesuai yang telah dibuat sebelumnya :

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

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

/** Database password */
define( 'DB_PASSWORD', 'Fadhil291103baenah_' );

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

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

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );

/**#@+
 * Authentication unique keys and salts.
 */
```

10. 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`

```
sayyid_fadhil@serversayyid:/var/www/html$ sudo chown -R www-data:www-data /var/www/html/sayyid_folder
sayyid_fadhil@serversayyid:/var/www/html$
```

11. Konfigurasi Web Server

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

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

```
sayyid_fadhil@serversayyid:/var/www/html$ sudo nano /etc/apache2/sites-available/192.168.78.129.conf
sayyid_fadhil@serversayyid:/var/www/html$
```

Isi konfigurasi server web :

```
GNU nano 6.2 /etc/apache2/sites-available/192.168.78.129.conf *
<VirtualHost *:80>
    ServerAdmin admin@192.168.78.129
    DocumentRoot /var/www/html/sayyid_folder
    ServerName 192.168.78.129
    ServerAlias www.192.168.78.129
    <Directory /var/www/html/sayyid_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:

- `sudo a2ensite nama_domain.conf`
- `sudo systemctl restart apache2`

```
sayyid_fadhil@serversayyid:/var/www/html$ sudo a2ensite 192.168.78.129.conf
Enabling site 192.168.78.129.
To activate the new configuration, you need to run:
    systemctl reload apache2
sayyid_fadhil@serversayyid:/var/www/html$
```

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


13. Cek status keaktifan apache2

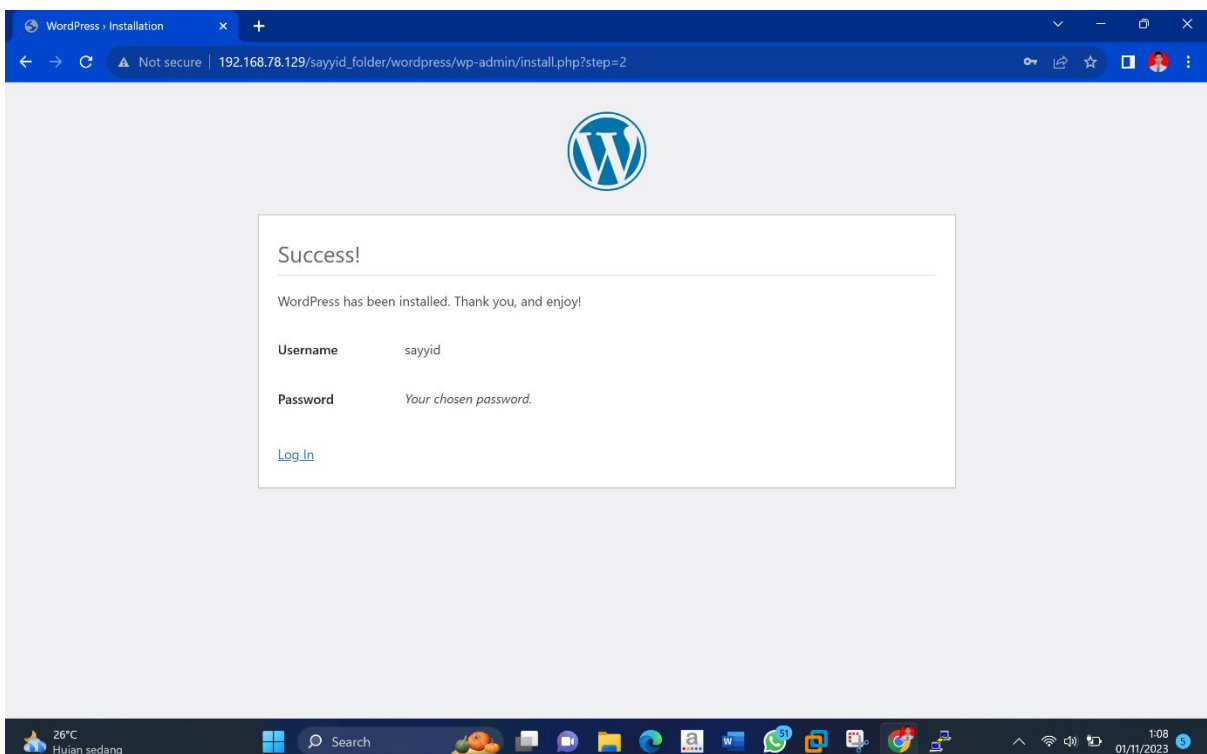
```
sayyid_fadhil@serversayyid:/var/www/html$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-10-31 15:51:03 UTC; 1min 9s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 11664 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 11668 (apache2)
    Tasks: 6 (limit: 2178)
   Memory: 10.3M
      CPU: 73ms
   CGroup: /system.slice/apache2.service
           └─11668 /usr/sbin/apache2 -k start
             └─11669 /usr/sbin/apache2 -k start
               └─11670 /usr/sbin/apache2 -k start
                 └─11671 /usr/sbin/apache2 -k start
                   └─11672 /usr/sbin/apache2 -k start
                     └─11673 /usr/sbin/apache2 -k start

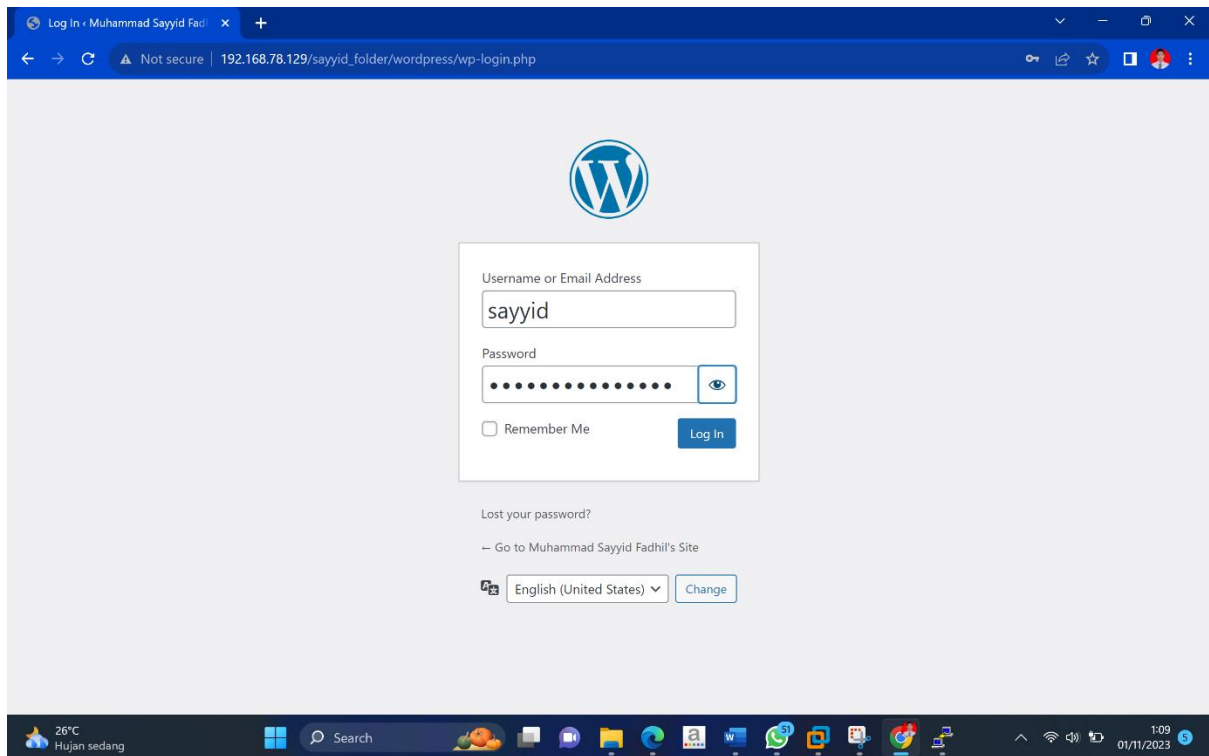
Oct 31 15:50:38 serversayyid systemd[1]: Starting The Apache HTTP Server...
```

```
sayyid_fadhil@serversayyid:/var/www/html$ ls
index.html latest.tar.gz sayyid_folder
sayyid_fadhil@serversayyid:/var/www/html$
```

14. Lalu ke web dan ketik sesuai domain dan nama folder

“http://192.168.78.129/sayyid_folder/wordpress/wp-admin/” maka tampilan akan berubah seperti ini :





Ini adalah tampilan Homepage untuk Admin Server :

