

Tugas Pemrosesan Paralel



Oleh :

Nama : Keisyah Sabinatullah Qur'aini

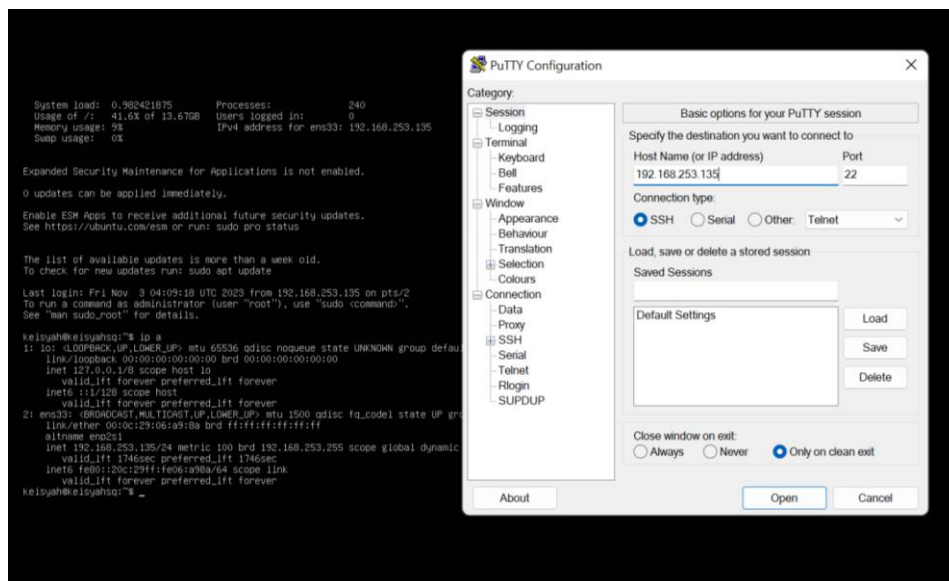
NIM : 09011182126011

Kelas : SK 5 A Indralaya

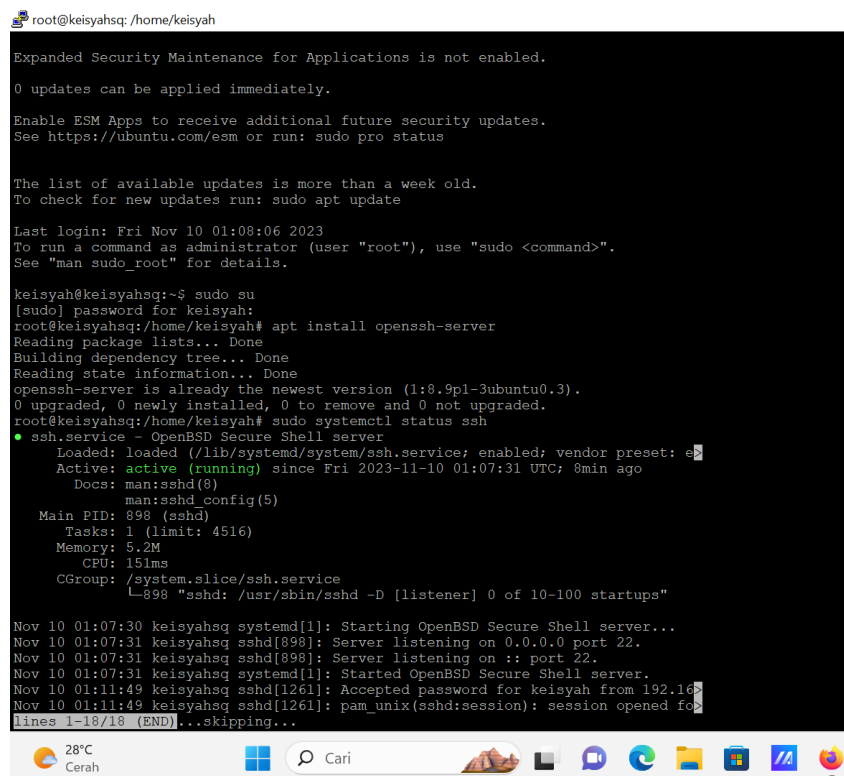
MK : Pemrosesan Paralel

**Fakultas Ilmu Komputer
Program Studi Sistem Komputer
Universitas Sriwijaya
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1. Login pada ubuntu server dan putty dengan menggunakan ip



2. Login Putty



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

```
keisyah@keisyahsq: ~  
keisyah@keisyahsq:~$ 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 69 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:1 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapr1 amd64  
  1.7.0-8ubuntu0.22.04.1 [108 kB]  
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1 a  
  md64 1.6.1-5ubuntu4.22.04.2 [92.8 kB]  
Get:3 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-d
```

4. Setelah instalasi selesai, aktifkan dan mulai Apache:

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

5. 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`

```
keisyah@keisyahsq:~$ 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 69 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
```

6. Instal Database Server (MySQL):

```
keisyah@keisyahsq: ~  
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.  
keisyah@keisyahsq:~$ sudo systemctl restart apache2  
keisyah@keisyahsq:~$ 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 libcgi-fast-perl libcgi-pm-perl libclone-perl  
  libconfig-inifiles-perl libdaxctl1 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 libpmem1  
  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 libcgi-fast-perl libcgi-pm-perl libclone-perl  
  libconfig-inifiles-perl libdaxctl1 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 libpmem1  
  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  
0 upgraded, 35 newly installed, 0 to remove and 69 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
```

7. Buat Database dan Pengguna Database Log masuk ke mysql sebagai root: sudomysql

```
keisyah@keisyahsq: ~  
Change the root password? [Y/n] y  
New password:  
Re-enter new password:  
Password updated successfully!  
Reloading privilege tables..  
... Success!  
  
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] 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
```

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

```
keisyah@keisyahsq:~$ bash
keisyah@keisyahsq:~$ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 44
Server version: 10.6.12-MariaDB-Oubuntu0.22.04.1 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)]> CREATE DATABASE keisyahsq_database;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> CREATE USER 'keisyahsq'@'localhost' IDENTIFIED BY 'keisyah123';
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON keisyahsq_database.* TO 'keisyahsq'@'localhost';
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

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

8. Instal WordPress:

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

```
keisyah@keisyahsq:~$ bash
keisyah@keisyahsq:~$ cd /var/www/html
keisyah@keisyahsq:/var/www/html$ sudo wget https://wordpress.org/latest.tar.gz
--2023-11-10 02:08:44-- 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: 24479162 (23M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz      100%[=====>]  23.34M  2.35MB/s   in 32s
2023-11-10 02:09:19 (736 KB/s) - 'latest.tar.gz' saved [24479162/24479162]

keisyah@keisyahsq:/var/www/html$
```

9. Konfigurasi Wordpress

```
keisyah@keisyahsq:/var/www/html$ sudo mv wordpress keisyah_folder
keisyah@keisyahsq:/var/www/html$ sudo cp /var/www/html/keisyah_folder/wp-config-sample.php /var/www/html/keisyah_folder/wp-config.php
keisyah@keisyahsq:/var/www/html$ sudo nano /var/www/html/keisyah_folder/wp-config.php
```

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', 'keisyahsq_database' );

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

/** Database password */
define( 'DB_PASSWORD', 'keisyah123' );

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

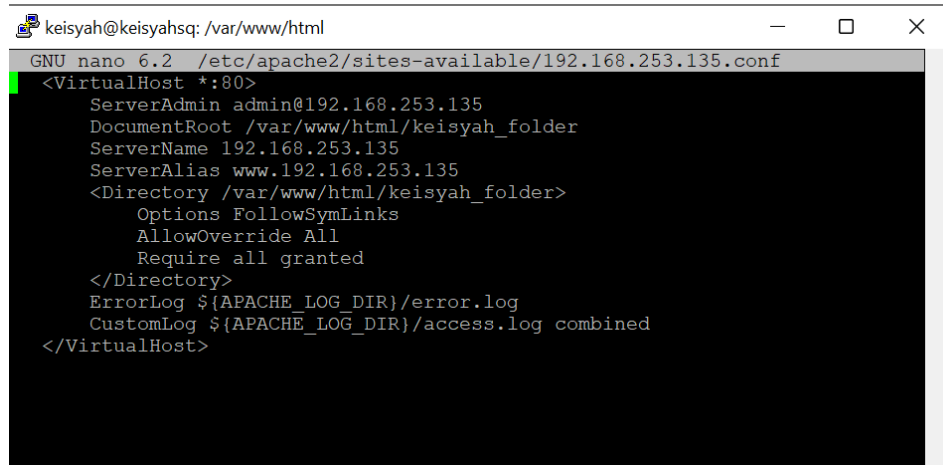
/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

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

10. **Konfigurasi Web Server: Buat konfigurasi server web Apache untuk mengarahkan permintaan ke WordPress. Buat file konfigurasi baru:**

```
keisyah@keisyahsq:/var/www/html$ sudo chown -R www-data /var/www/html/keisyah_folder
keisyah@keisyahsq:/var/www/html$ sudo nano /etc/apache2/sites-available/192.168.253.135.conf
```

Isi konfigurasi :

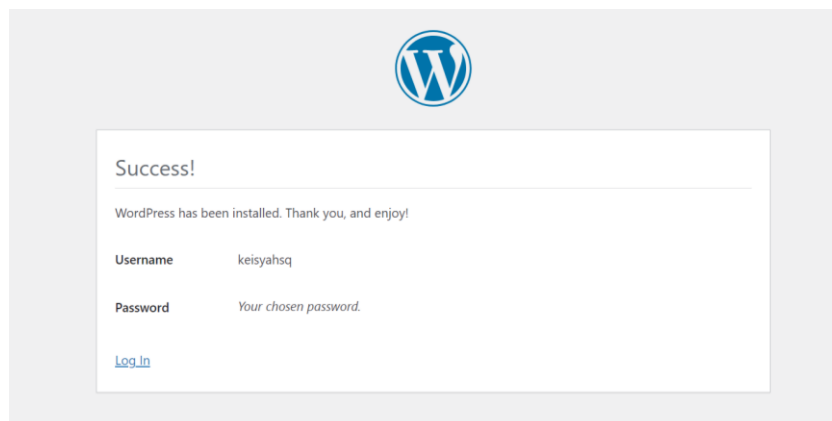


```
keisyah@keisyahsq: /var/www/html
GNU nano 6.2 /etc/apache2/sites-available/192.168.253.135.conf
<VirtualHost *:80>
    ServerAdmin admin@192.168.253.135
    DocumentRoot /var/www/html/keisyah_folder
    ServerName 192.168.253.135
    ServerAlias www.192.168.253.135
    <Directory /var/www/html/keisyah_folder>
        Options FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

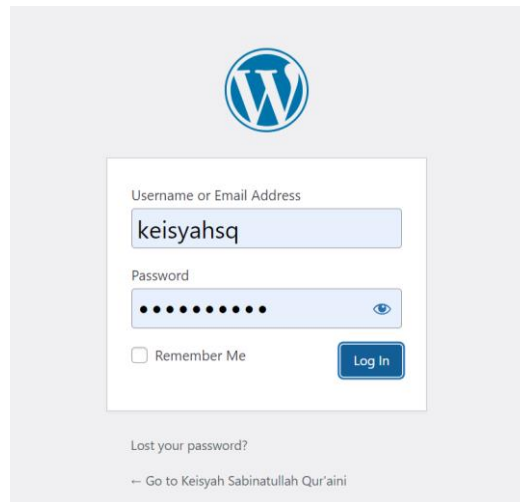
11. **Aktifkan Konfigurasi dan restart Apache: Aktifkan konfigurasi situs dan restart Apache:**

```
keisyah@keisyahsq:/var/www/html$ bash
keisyah@keisyahsq:/var/www/html$ sudo a2ensite 192.168.253.135.conf
Enabling site 192.168.253.135.
To activate the new configuration, you need to run:
    systemctl reload apache2
keisyah@keisyahsq:/var/www/html$ sudo systemctl restart apache2
keisyah@keisyahsq:/var/www/html$
```

12. **Lalu ke web dan ketik sesuai domain “http://192.168.253.135/wp-admin/install.php” maka tampilan akan berubah seperti ini:**



Kemudian langsung masuk ke admin page:



Inilah tampilan dari hasil wordpress yang dibuat :

