

Tugas Pemrosesan Paralel “WordPress”



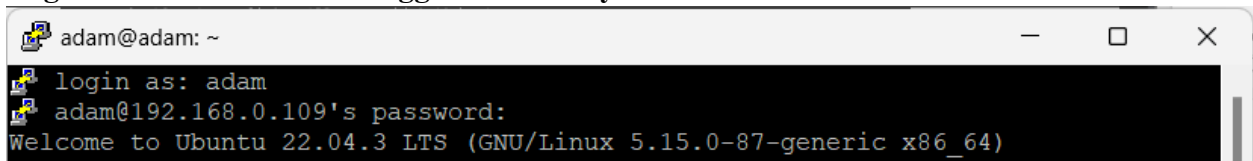
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2023**

1. Login ke Ubuntu, lalu ketik `ip a` untuk mengecek IP

```
adam@adam:~$ 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:29:13:52:1b brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.0.109/24 metric 100 brd 192.168.0.255 scope global dynamic ens33
        valid_lft 86377sec preferred_lft 86377sec
    inet6 fe80::20c:29ff:fe13:521b/64 scope link
        valid_lft forever preferred_lft forever
adam@adam:~$ _
```

2. Login ke Ubuntu server menggunakan Putty SSH



The screenshot shows a terminal window titled 'adam@adam: ~'. The user has logged in as 'adam' to the IP address '192.168.0.109'. The terminal displays the Ubuntu 22.04.3 LTS welcome message and the kernel version 'GNU/Linux 5.15.0-87-generic x86_64'.

3. Menginstall server web Apache menggunakan perintah berikut

`sudo apt update`

```
adam@adam:~$ sudo apt update
Hit:1 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-updates/main amd64 Packages [1,104 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [240 kB]
```

`sudo apt install apache2`

```
adam@adam:~$ 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 19 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]
```

4. Setelah instalasi selesai, aktifkan dan mulai Apache menggunakan perintah berikut

```
sudo systemctl start apache2
```

```
sudo systemctl enable apache2
```

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

5. Install PHP dan modul yang diperlukan untuk berjalan bersama Apache

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

```
adam@adam:~$ 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 19 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]
```

Setelah instalasi, pastikan PHP bekerja dengan Apache dengan baik

```
sudo systemctl restart apache2
```

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

6. Install Database Server (MySQL)

```
sudo apt install mariadb-server
```

```
adam@adam:~$ sudo apt install mariadb-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libevent-pthreads-2.1-7 libmecab2 libprotobuf-lite23 mecab-ipadic
  mecab-ipadic-utf8 mecab-utils
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
```

Setelah instalasi selesai, amankan instalasi mysql

```
sudo mysql_secure_installation
```

```
adam@adam:~$ 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):
```

```
All done!  If you've completed all of the above steps, your MariaDB
installation should now be secure.
```

```
Thanks for using MariaDB!
adam@adam:~$
```

7. Buat Database dan Pengguna Database

Masuk ke mySQL sebagai root

```
sudo mysql
```

```
adam@adam:~$ 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`

```
CREATE DATABASE nama_database;
```

```
MariaDB [(none)]> CREATE DATABASE adam_database;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]>
```

```
CREATE USER 'nama_pengguna'@'localhost' IDENTIFIED BY
'password_pengguna';
```

```
MariaDB [(none)]> CREATE USER 'adam'@'localhost' IDENTIFIED BY 'katasandi7';
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]>
```

```
GRANT ALL PRIVILEGES ON nama_database.*  
TO 'nama_pengguna'@'localhost';
```

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON adam_database.* TO 'adam'@'localhost';  
Query OK, 0 rows affected (0.002 sec)  
MariaDB [(none)]>
```

```
FLUSH PRIVILEGES;
```

```
MariaDB [(none)]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.002 sec)  
MariaDB [(none)]>
```

```
EXIT;
```

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

8. Install WordPress

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

```
cd /var/www/html
```

```
adam@adam:~$ cd /var/www/html  
adam@adam:/var/www/html$
```

```
sudo wget https://wordpress.org/latest.tar.gz
```

```
adam@adam:/var/www/html$ sudo wget https://wordpress.org/latest.tar.gz  
--2023-10-30 01:54:54-- 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      5%[>                ] 1.19M  501KB/s
```

```
sudo tar -xzf latest.tar.gz
```

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

```
sudo mv wordpress nama_folder
```

```
adam@adam:/var/www/html$ sudo mv wordpress adam  
adam@adam:/var/www/html$
```

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
```

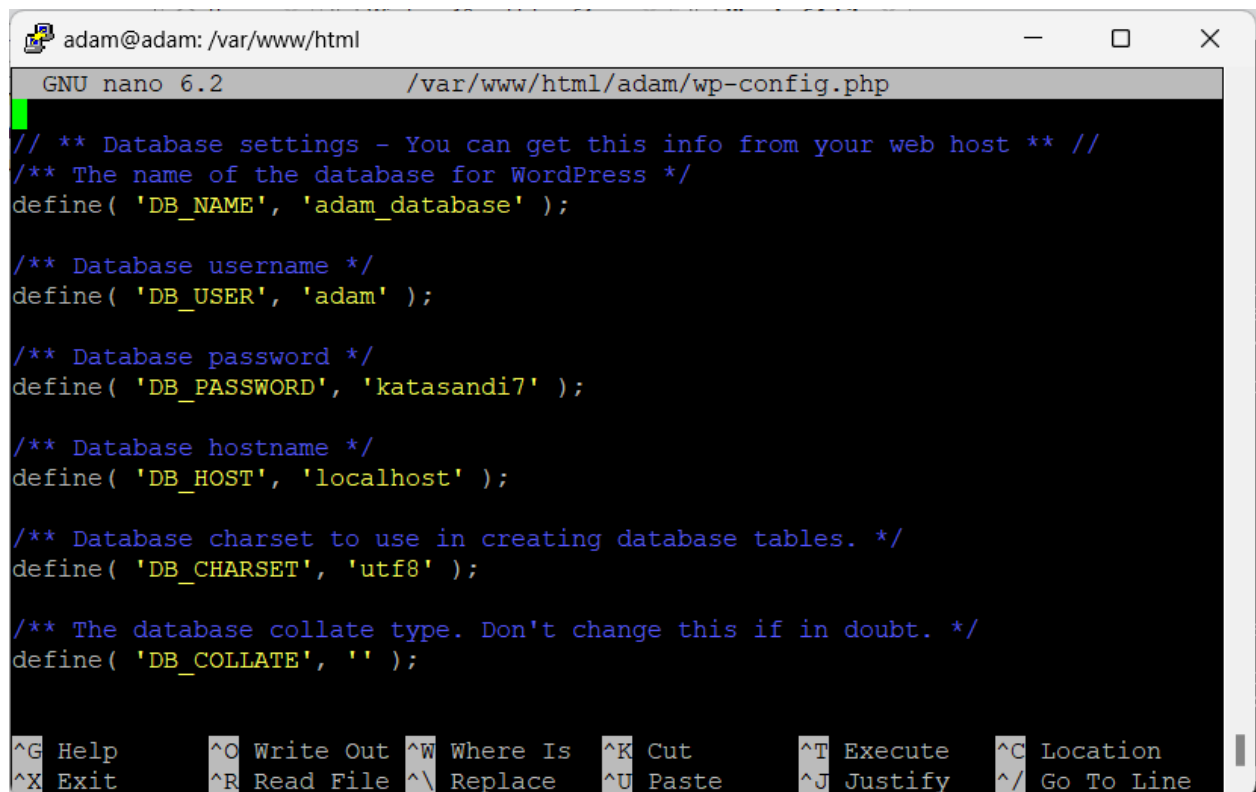
```
adam@adam:/var/www/html$ sudo cp /var/www/html/adam/wp-config-sample.php /var/www/html/adam/wp-config.php  
adam@adam:/var/www/html$
```

Selanjutnya, edit file `wp-config.php`

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

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

Ganti konfigurasi database dengan informasi yang sesuai yang telah dibuat sebelumnya



```
adam@adam: /var/www/html  
GNU nano 6.2 /var/www/html/adam/wp-config.php  
// ** Database settings - You can get this info from your web host ** //  
/** The name of the database for WordPress */  
define( 'DB_NAME', 'adam_database' );  
  
/** Database username */  
define( 'DB_USER', 'adam' );  
  
/** Database password */  
define( 'DB_PASSWORD', 'katasandi7' );  
  
/** 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', '' );  
  
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location  
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^/ Go To Line
```

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
```

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

11. Konfigurasi Web Server

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

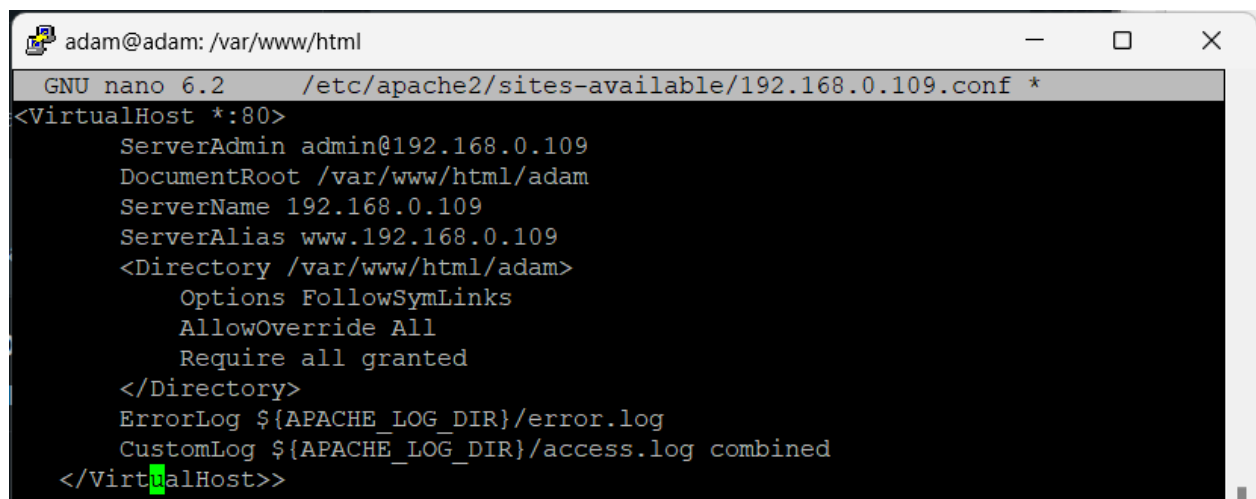
```
sudo nano /etc/apache2/sites-available/nama_domain.conf
```

```
adam@adam:/var/www/html$ sudo nano /etc/apache2/sites-available/192.168.0.109.conf
```

Isi konfigurasi server web:

```
<VirtualHost *:80>

    ServerAdmin admin@nama_domain
    DocumentRoot /var/www/html/nama_folder
    ServerName nama_domain
    ServerAlias www.nama_domain
    <Directory /var/www/html/nama_folder>
        Options FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```



```
adam@adam: /var/www/html
GNU nano 6.2 /etc/apache2/sites-available/192.168.0.109.conf *
<VirtualHost *:80>
    ServerAdmin admin@192.168.0.109
    DocumentRoot /var/www/html/adam
    ServerName 192.168.0.109
    ServerAlias www.192.168.0.109
    <Directory /var/www/html/adam>
        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

```
sudo a2ensite nama_domain.conf
```

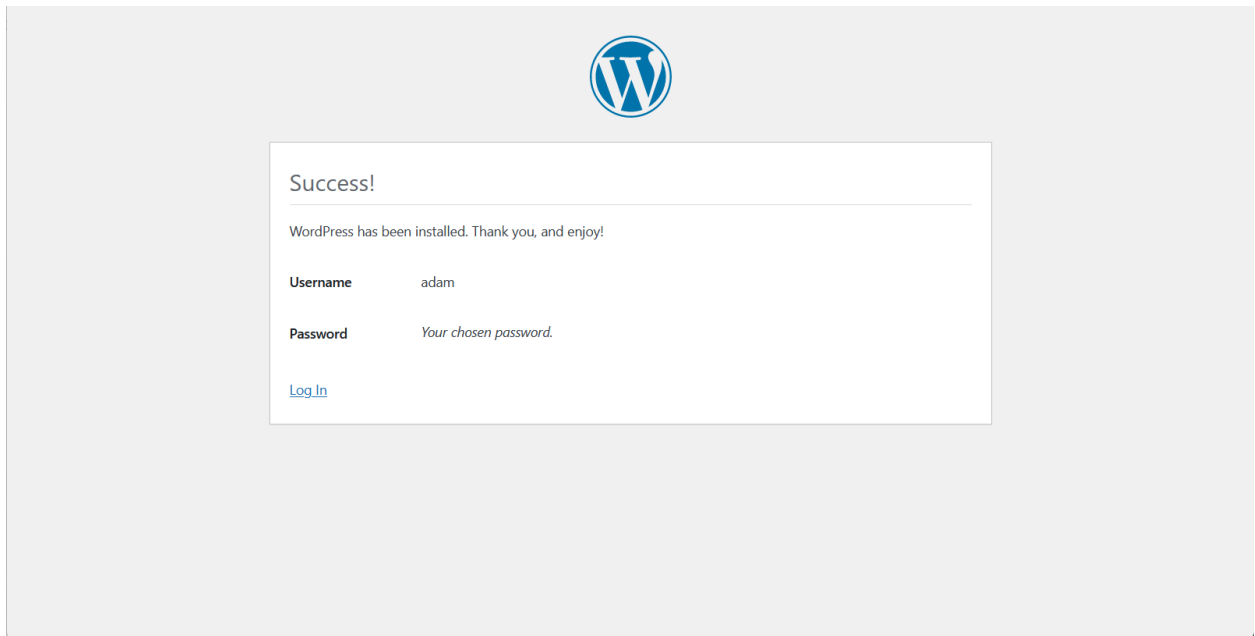
```
adam@adam:/var/www/html$ sudo a2ensite 192.168.0.109.conf
Enabling site 192.168.0.109.
To activate the new configuration, you need to run:
    systemctl reload apache2
adam@adam:/var/www/html$
```

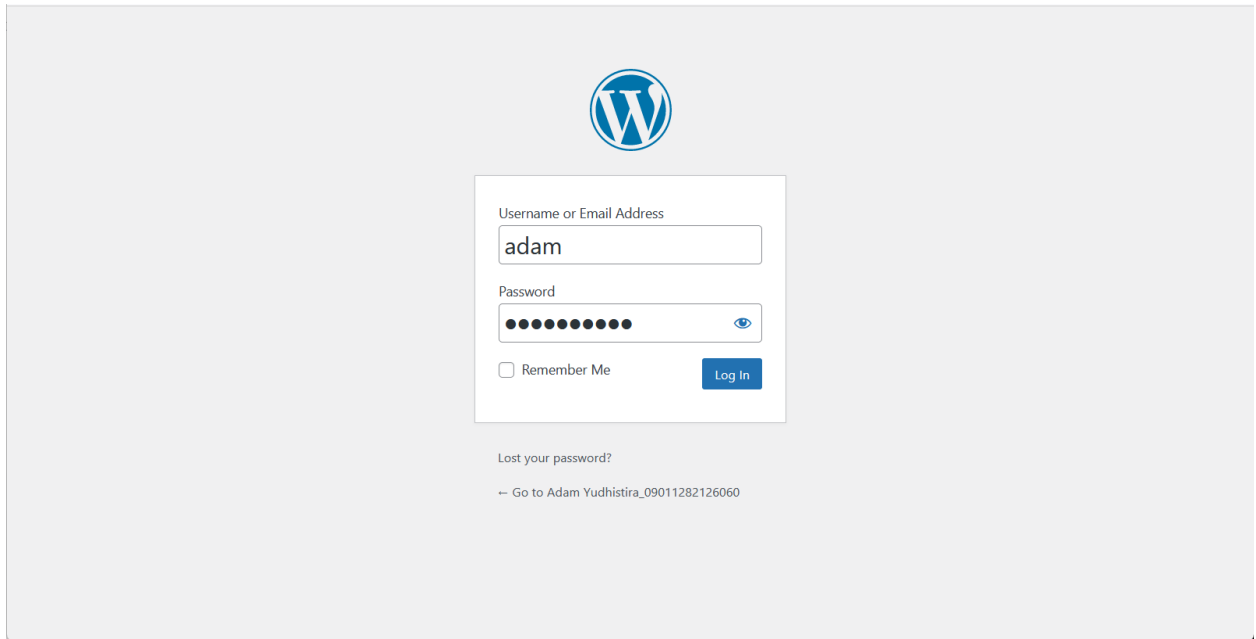
Restart

```
sudo systemctl restart apache2
```

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

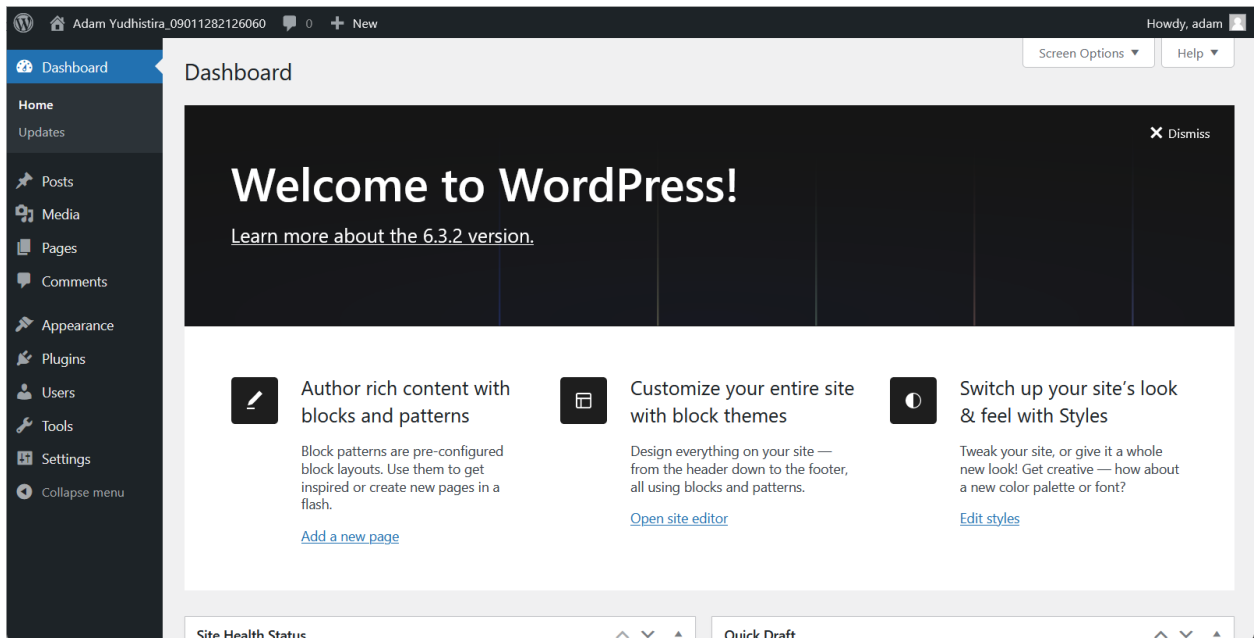
13. Lalu ke web dan ketik sesuai domain “<http://192.168.0.109/wp-admin/install.php>” maka tampilan akan berubah seperti ini:





The image shows the WordPress login page. At the top center is the WordPress logo. Below it is a login form with two input fields: 'Username or Email Address' containing the text 'adam' and 'Password' with masked characters. Below the password field is a checkbox for 'Remember Me' and a blue 'Log In' button. Under the form, there is a link for 'Lost your password?' and a text link that says 'Go to Adam Yudhistira_09011282126060'.

Ini adalah tampilan Homepage untuk Admin Server:



The image shows the WordPress Admin Dashboard. The top header bar includes the WordPress logo, the user name 'Adam Yudhistira_09011282126060', a notification icon, a '+ New' button, and a 'Howdy, adam' greeting. The left sidebar contains a menu with 'Dashboard' (highlighted), 'Home', 'Updates', 'Posts', 'Media', 'Pages', 'Comments', 'Appearance', 'Plugins', 'Users', 'Tools', 'Settings', and 'Collapse menu'. The main content area is titled 'Dashboard' and features a large 'Welcome to WordPress!' banner with a link to 'Learn more about the 6.3.2 version.' Below the banner are three cards: 'Author rich content with blocks and patterns' with a link to 'Add a new page', 'Customize your entire site with block themes' with a link to 'Open site editor', and 'Switch up your site's look & feel with Styles' with a link to 'Edit styles'. At the bottom, there are two status boxes: 'Site Health Status' and 'Quick Draft'.