# Tugas Laporan Pemrosesan Paralel "Akses Wordpress pada Ubuntu Desktop dan Server melalui PuTTY"



Nama : M. Reihan Alif Albatino D

NIM : 09011282126038

**Jurusan**: Sistem Komputer

Dosen : Ahmad Heryanto, S.Kom, M.T.

Adi Hermansyah, S.Kom., M.T.

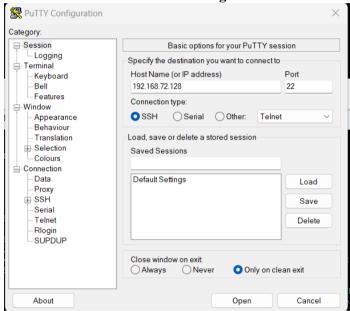
Jurusan Sistem Komputer Fakultas Ilmu Komputer Universitas Sriwijaya

### A. Akses Wordpress pada Ubuntu Server Melalui PuTTY

1. Membuka Ubuntu Server lalu mengetikkan ip a untuk melihat IP perangkat.

```
root@reihanserver:~# 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 brd 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:a8:8b:65 brd ff:ff:ff:ff
    altname enp2s1
    inet 192.168.72.128/24 metric 100 brd 192.168.72.255 scope global dynamic ens33
        valid_lft 1781sec preferred_lft 1781sec
    inet6 fe80::20c:29ff:fea8:8b65/64 scope link
        valid_lft forever preferred_lft forever
root@reihanserver:~#
```

2. Lalu Buka PuTTY untuk dihubungkan ke Ubuntu melalui IP Address.



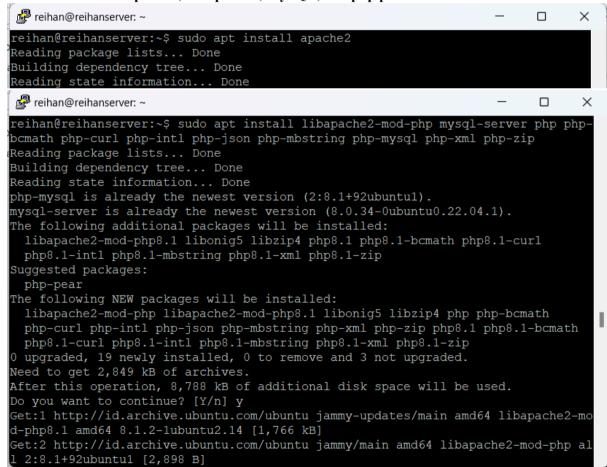
3. Melakukan login pada PuTTY yang telah terhubung.

```
reihan@reihanserver: ~
                                                                          ×
login as: reihan
R reihan@192.168.72.128's password:
 Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-87-generic x86 64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
  Management:
 * Support:
                  https://ubuntu.com/advantage
  System information as of Mon Oct 30 01:03:56 AM UTC 2023
  System load: 0.0166015625
  Usage of /: 42.0% of 13.67GB
                                   Users logged in:
                                   IPv4 address for ens33: 192.168.72.128
  Memory usage: 38%
  Swap usage:
 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.
  https://ubuntu.com/engage/secure-kubernetes-at-the-edge
Expanded Security Maintenance for Applications is not enabled.
 updates can be applied immediately.
```

4. Melakukan update pada Ubuntu Server

```
reihan@reihanserver: ~
                                                                         ×
Last login: Mon Oct 30 01:03:56 2023 from 192.168.72.1
reihan@reihanserver:~$ sudo apt update
[sudo] password for reihan:
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 [1,1
04 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages
[995 kB]
Fetched 2,437 kB in 3s (905 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
3 packages can be upgraded. Run 'apt list --upgradable' to see them.
reihan@reihanserver:~$ 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 libapr1 libaprutil1
```

5. Melakukan install Apache2, Libapache2, MySQL, dan php pada Ubuntu Server



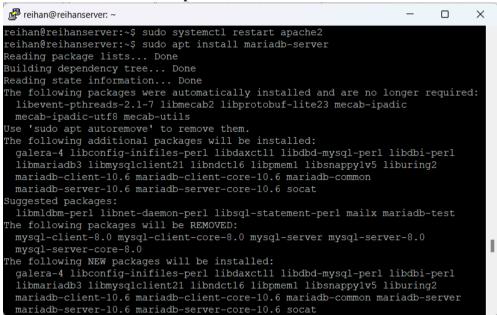
### 6. Memulai dan mengaktifkan Apache2 di Ubuntu Server

\$ sudo systemctl start apache2

\$ sudo systemctl enable apache2

```
reihan@reihanserver:~$ sudo systemctl start apache2
reihan@reihanserver:~$ 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
reihan@reihanserver:~$
```

7. Melakukan install MariaDB pada Ubuntu Server



## 8. Menyimpan installasi pada MariaDB

```
$ sudo mysql secure installation
 reihan@reihanserver: ~
                                                                         ×
Disallow root login remotely? [Y/n] n
 ... skipping.
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] n
 ... skipping.
Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.
Reload privilege tables now? [Y/n] y
Cleaning up...
All done! If you've completed all of the above steps, your MariaDB
installation should now be secure.
Thanks for using MariaDB!
 eihan@reihanserver:~$ sudo mysgl secure installation
```

### 9. Membuka dan mengakses database (MariaDB)

\$ sudo mysql

```
reihan@reihanserver: ~
                                                                         П
                                                                               ×
 .. skipping.
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
installation should now be secure.
Thanks for using MariaDB!
reihan@reihanserver:~$ sudo mysql
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 38
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)]>
```

### 10. Membuat database, username, password, dan hak akses

\$ CREATE DATABASE reihan database;

```
MariaDB [(none)]> create database reihan_database
    -> ;
Query OK, 1 row affected (0.000 sec)
$ CREATE USER 'reihan'@'localhost' IDENTIFIED BY 'sarden123';
```

MariaDB [(none)]> CREATE USER 'reihan'@'localhost' IDENTIFIED BY 'sarden123'; Ouery OK, 0 rows affected (0.008 sec)

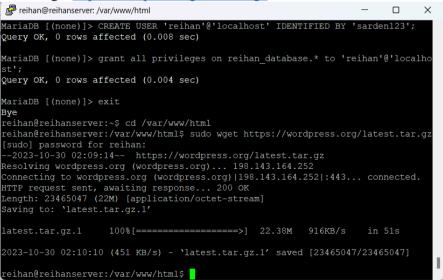
\$ Grant all privileges on reihan database.\* to 'reihan'@'localhost';

MariaDB [(none)]> grant all privileges on reihan\_database.\* to 'reihan'@'localho
st';
Query OK, 0 rows affected (0.004 sec)

### 11. Melakukan installasi Wordpress pada Ubuntu Server dan melakukan konfigurasi

\$ cd /var/www/html

\$ sudo wget <a href="https://wordpress.org/latest.tar.gz">https://wordpress.org/latest.tar.gz</a>



### \$ sudo tar -xzvf latest.tar.gz

```
reihan@reihanserver: /var/www/html
                                                                                                                       X
  ordpress/wp-admin/js/custom-background.js
wordpress/wp-admin/js/custom-background.js
wordpress/wp-admin/js/color-picker.min.js
wordpress/wp-admin/js/auth-app.js
wordpress/wp-admin/js/code-editor.js
wordpress/wp-admin/js/common.js
wordpress/wp-admin/js/set-post-thumbnail.min.js
wordpress/wp-admin/js/postbox.min.js
wordpress/wp-admin/js/color-picker.js
wordpress/wp-admin/js/password-strength-meter.js
wordpress/wp-admin/js/customize-nav-menus.js
wordpress/wp-admin/js/editor-expand.js
wordpress/wp-admin/js/code-editor.min.js
wordpress/wp-admin/js/set-post-thumbnail.js
 wordpress/wp-admin/options-permalink.php
wordpress/wp-admin/widgets.php
wordpress/wp-admin/setup-config.php
wordpress/wp-admin/install.php
wordpress/wp-admin/admin-header.php
wordpress/wp-admin/post-new.php
wordpress/wp-admin/themes.php
 wordpress/wp-admin/options-reading.php
 wordpress/wp-trackback.php
 wordpress/wp-comments-post.php
  eihan@reihanserver:/var/www/html$ sudo tar -xzvf latest.tar.gz
```

### \$ sudo mv wordpress Reihan

```
reihan@reihanserver:/var/www/html$ sudo mv wordpress reihan reihan@reihanserver:/var/www/html$
```

### Membuat salinan

\$ sudo cp /var/www/html/reihan/wp-config-sample.php /var/www/html/reihan/wp-config.php

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

Mengubah isi file konfigurasi dengan menulis nama database, username, password, dan localhost yg benar

\$ sudo nano /var/www/html/reihan/wp-config.php

```
reihan@reihanserver:/var/www/html$ sudo nano /var/www/html/reihan/wp-config.php
reihan@reihanserver: /var/www/html
                                                                         ×
                         /var/www/html/reihan/wp-config.php
  @link https://wordpress.org/documentation/article/editing-wp-config-php/
define( 'DB NAME', 'reihan database' );
define( 'DB USER', 'reihan' );
               Write Out ^W Where Is
                                       ^K Cut
  Help
                                                       Execute
                                                                    Location
                Read File
                                          Paste
                             Replace
```

Memberi hak akses folder ke user

\$ sudo chown -R

reihan@reihanserver:/var/www/html\$ sudo chown -R www-data:www-data /var/www/html /reihan

Membuat dan mengisi konfigurasi pada server web

\$ sudo nano /etc/apache2/sites-available/192.168.72.128.conf

```
reihan@reihanserver:~$ cd /var/www/html
reihan@reihanserver:/var/www/html$ sudo nano /etc/apache2/sites-available/192.16
8.72.128.conf
reihan@reihanserver: /var/www/html
 GNU nano 6.2
                  /etc/apache2/sites-available/192.168.72.128.conf
VirtualHost *:80>
      ServerAdmin admin@192.168.72.128
       DocumentRoot /var/www/html/reihan
       ServerName 192.168.72.128
       ServerAlias www.192.168.72.128
       <Directory /var/www/html/reihan>
           Options FollowSymLinks
           AllowOverride All
           Require all granted
       </Directory>
       ErrorLog ${APACHE LOG DIR}/error.log
       CustomLog ${APACHE LOG DIR}/access.log combined
   </VirtualHost>
                                [ Read 13 lines ]
                                        ^K
             ^O Write Out ^W Where Is
  Help
                                                        Execute
                                                                      Location
                                           Cut
  Exit
                Read File
                                           Paste
                                                        Justify
                             Replace
                                                                      Go To Line
```

Mengaktifkan konfigurasi

\$ sudo a2ensite 192.168.72.128.conf

```
reihan@reihanserver:/var/www/html$ sudo a2ensite 192.168.72.128.conf
Enabling site 192.168.72.128.
To activate the new configuration, you need to run:
systemctl reload apache2
```

Melakukan restart dan mengecek status Apache2

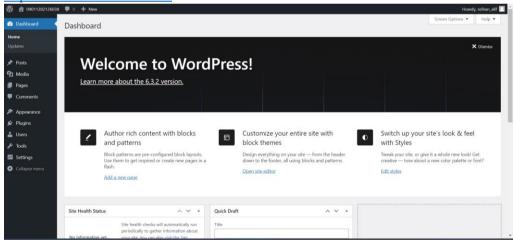
\$ sudo systemctl restart apache2

\$ sudo systemctl status apache2

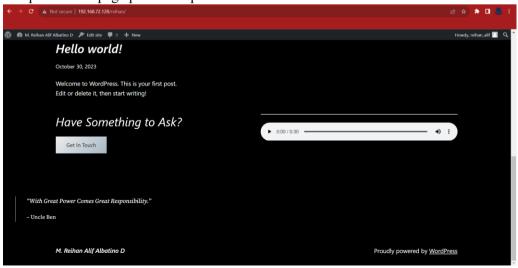
```
reihan@reihanserver: /var/www/html
                                                                                             П
                                                                                                  ×
 eihan@reihanserver:/var/www/html$ sudo systemctl restart apache2
 eihan@reihanserver:/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 Mon 2023-10-30 02:40:20 UTC; 1min 5s ago
        Docs: https://httpd.apache.org/docs/2.4/
     Process: 11509 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
    Main PID: 11513 (apache2)
      Memory: 13.1M
CPU: 60ms
      CGroup: /system.slice/apache2.service
                 -11513 /usr/sbin/apache2 -k start
-11514 /usr/sbin/apache2 -k start
                  -11515 /usr/sbin/apache2 -k start
-11516 /usr/sbin/apache2 -k start
                  -11517 /usr/sbin/apache2 -k start
                 L11518 /usr/sbin/apache2 -k start
Oct 30 02:40:03 reihanserver systemd[1]: Starting The Apache HTTP Server...
Oct 30 02:40:20 reihanserver apachect1[11512]: AH00558: apache2: Could not relipoct 30 02:40:20 reihanserver systemd[1]: Started The Apache HTTP Server.
lines 1-20/20 (END)
reihan@reihanserver:/var/www/html$
```

# 12. Membuka dan mengakses wordpress yang telah dibuat dan dikonfigurasi pada laman pencarian

Membuat akun wordpress lalu login agar bisa masuk ke laman dashboard http://192.168.72.128/reihan



Tampilan Homepage pada wordpress

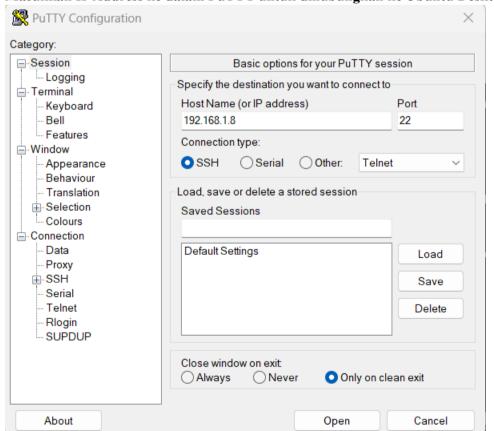


### B. Menghubungkan PuTTY ke Ubuntu Desktop melalui IP Address

1. Membuka Ubuntu Desktop lalu mengetikkan ip a untuk melihat IP Address perangkat.

```
reihan@reihan-virtual-machine: ~
     Edit View Search Terminal Help
reihan@reihan-virtual-machine:~$ ip a
l: lo: <LOOPBACK,UP,LOWER UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t 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: ens160: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 qdisc fq codel state UP gr
oup default glen 1000
    link/ether 00:0c:29:f7:e7:e2 brd ff:ff:ff:ff:ff
    altname enp3s0
    inet 192.168.1.8/24 brd 192.168.1.255 scope global dynamic noprefixroute ens
160
       valid lft 86379sec preferred lft 86379sec
    inet6 2001:448a:10e8:1454:46a5:7d49:9c8e:3315/64 scope global temporary dyna
mic
       valid lft 328sec preferred lft 328sec
    inet6 2001:448a:10e8:1454:c480:dacf:ee48:5eec/64 scope global dynamic mngtmp
addr noprefixroute
       valid lft 328sec preferred lft 328sec
    inet6 fe80::6c7b:4d66:55ba:2ae3/64 scope link noprefixroute
       valid lft forever preferred lft forever
 eihan@reihan-virtual-machine:~$
```

2. Masukkan IP Address ke dalam PuTTY untuk dihubungkan ke Ubuntu Desktop



3. Login dan masukkan password untuk mengakses Ubuntu Desktop di PuTTY