

CARA INSTALL SIMPEL V202601 KEPK PADA APACHE2, PHP8.3, MARIADB.11.8(LTS) DI SERVER UBUNTU 26.04 (LTS)

Masuk melalui terminal ubuntu 26.04,

PERSIAPAN INSTALASI

Cek versi Ubuntu

```
# lsb_release -a
```

```
Distributor ID: Ubuntu
Description: Ubuntu 26.04.1 LTS
Release: 24.06
Codename: noble
```

Install Midnight Commander di Ubuntu

```
# apt install mc
```

INSTALL APACHE2

```
# sudo apt update
# sudo apt install apache2
# sudo ufw app list
# sudo ufw allow 'Apache'
# sudo ufw status
# sudo systemctl status apache2
# sudo systemctl enable apache2
# sudo nano /etc/apache2/apache2.conf
  --setting apache2.conf---
  <Directory />
    Options FollowSymLinks
    AllowOverride All
    Require all granted
  </Directory>

  --dan--
  <Directory /var/www/>
    Options Indexes FollowSymLinks
    AllowOverride All
    Require all granted
  </Directory>

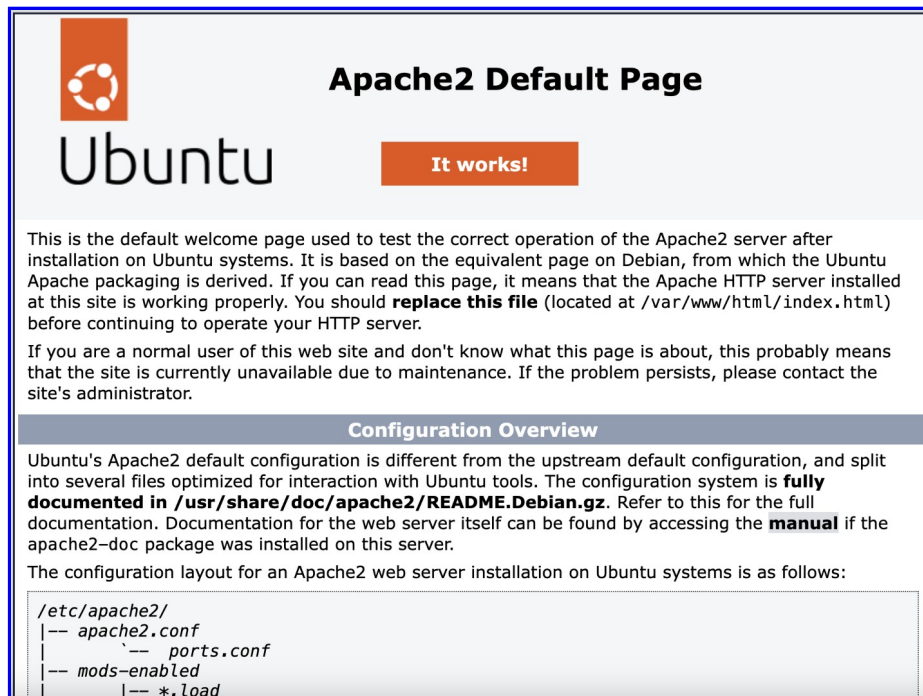
# sudo systemctl restart apache2
# sudo systemctl status apache2
# sudo nano /etc/apache2/mods-enabled/dir.conf
  --tambahkan index.php setelah DirectoryIndex---
  /etc/apache2/mods-enabled/dir.conf

  <IfModule mod_dir.c>
    DirectoryIndex index.php index.html index.cgi index.pl
    index.xhtml index.htm
  </IfModule>
```

simpan dalam nano, dengan **Ctrl** dan tekan huruf **o** kemudian Enter
untuk keluar dari nano maka tekan **Ctrl** dan huruf **x**

```
# sudo systemctl restart apache2
```

Buka di browser (mozilla atau Chrome), misal <http://192.168.1.10/> atau <http://localhost>



INSTALL PHP 8.3

```
# sudo apt -y install software-properties-common
# sudo add-apt-repository ppa:ondrej/php
```

```
LC_ALL=C.UTF-8 add-apt-repository ppa:ondrej/php
More info: https://launchpad.net/~ondrej/+archive/ubuntu/php
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
```

```
# sudo apt-get update
# sudo apt -y install php8.3
--install packages extention php8.3--
# sudo apt install php8.3-mysql libapache2-mod-php8.3 php8.3-curl
    php8.3-cgi php8.3-xsl php8.3-mbstring php8.3-gd php8.3-zip php8.3-cli
    php8.3-dom php8.3-xml
--cek php8.3--
# php -v
--buat file phpinfo.php untuk cek php8.3 dan extention yang terinstall--
# sudo nano /var/www/html/phpinfo.php
--ketikkan script berikut pada file phpinfo.php--
```

```
<?php
phpinfo();
?>
```

simpan dalam nano, dengan **Ctrl** dan tekan huruf **o** kemudian Enter untuk keluar dari nano maka tekan **Ctrl** dan huruf **x**

```
--Lakukan setting pada php.ini--
```

```
# sudo nano /etc/php/8.3/apache2/php.ini
--setting php.ini pada php8.3---
max_execution_time = 0
memory_limit = 512M -atau lebih besar lagi--
upload_max_filesize = 50M
max_file_uploads = 200
extension=curl
extension=gd --diaktifkan/dihilangkan tanda ;--
date.timezone = Asia/Jakarta --dihilangkan tanda ; di isi
Asia/Jakarta--
```

```
# sudo systemctl restart apache2
```

Buka di browser (mozilla atau Chrome) phpinfo.php, misal
<http://192.168.1.10/phpinfo.php>

PHP Version 8.2.26	
System	Linux adminpk24 6.8.0-49-generic #49-Ubuntu SMP PREEMPT_DYNAMIC Mon Nov 4 02:06:24 UTC 2024 x86_64
Build Date	Nov 25 2024 18:10:24
Build System	Linux
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.2/apache2
Loaded Configuration File	/etc/php/8.2/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/8.2/apache2/conf.d
Additional .ini files parsed	/etc/php/8.2/apache2/conf.d/10-mysqld.ini, /etc/php/8.2/apache2/conf.d/10-opcache.ini, /etc/php/8.2/apache2/conf.d/10-pdo.ini, /etc/php/8.2/apache2/conf.d/15-xml.ini, /etc/php/8.2/apache2/conf.d/20-calendar.ini, /etc/php/8.2/apache2/conf.d/20-ctype.ini, /etc/php/8.2/apache2/conf.d/20-curl.ini, /etc/php/8.2/apache2/conf.d/20-dom.ini, /etc/php/8.2/apache2/conf.d/20-exif.ini, /etc/php/8.2/apache2/conf.d/20-fileinfo.ini, /etc/php/8.2/apache2/conf.d/20-ftp.ini, /etc/php/8.2/apache2/conf.d/20-gd.ini, /etc/php/8.2/apache2/conf.d/20-gettext.ini, /etc/php/8.2/apache2/conf.d/20-iconv.ini, /etc/php/8.2/apache2/conf.d/20-mbstring.ini, /etc/php/8.2/apache2/conf.d/20-mysqli.ini, /etc/php/8.2/apache2/conf.d/20-pdo_mysql.ini, /etc/php/8.2/apache2/conf.d/20-phar.ini, /etc/php/8.2/apache2/conf.d/20-posix.ini, /etc/php/8.2/apache2/conf.d/20-readline.ini, /etc/php/8.2/apache2/conf.d/20-sockets.ini, /etc/php/8.2/apache2/conf.d/20-sysmsg.ini, /etc/php/8.2/apache2/conf.d/20-syssem.ini, /etc/php/8.2/apache2/conf.d/20-sysvshm.ini, /etc/php/8.2/apache2/conf.d/20-tokenizer.ini, /etc/php/8.2/apache2/conf.d/20-xmlreader.ini, /etc/php/8.2/apache2/conf.d/20-xmlwriter.ini, /etc/php/8.2/apache2/conf.d/20-xsl.ini, /etc/php/8.2/apache2/conf.d/20-zip.ini
PHP API	20220829
PHP Extension	20220829
Zend Extension	420220829
Zend Extension Build	API420220829.NTS
PHP Extension Build	API20220829.NTS
Debug Build	no
Thread Safety	disabled

Installing MariaDB 11.8 (LTS)

Install paket pendukung

```
# sudo apt install -y curl gnupg2 ca-certificates
```

Tambahkan Repository MariaDB 11.8

```
# sudo mkdir -p /etc/apt/keyrings
```

```
# curl -fsSL https://mariadb.org/mariadb_release_signing_key.asc | \
sudo gpg --dearmor -o /etc/apt/keyrings/mariadb-keyring.gpg
```

Buat File Repository

```
# sudo nano /etc/apt/sources.list.d/mariadb.list
```

isikan dengan :

```
# deb [signed-by=/etc/apt/keyrings/mariadb-keyring.gpg]
https://mirror.mariadb.org/repo/11.8/ubuntu noble main
```

```
# sudo apt update
```

--kalau di temukan permintaan upgrade lakukan--

```
# sudo apt upgrade
```

```
# sudo apt -y install mariadb-server mariadb-client
```

cek mariaDB

```
# mariadb -V
```

```
mariadb from 11.8.8-MariaDB, client 15.2 for debian-linux-gnu (x86_64)  
using EditLine wrapper
```

```
# sudo mariadb-secure-installation
```

```
Enter current password for root (enter for none): Enter
```

```
OK, successfully used password, moving on...
```

```
Switch to unix_socket authentication [Y/n] y
```

```
Enabled successfully!
```

```
Reloading privilege tables..
```

```
... Success!
```

```
Change the root password? [Y/n] y
```

```
New password:
```

```
Re-enter new password:
```

```
Password updated successfully!
```

```
Reloading privilege tables..
```

```
... Success!
```

```
Remove anonymous users? [Y/n] y
```

```
... Success!
```

```
Disallow root login remotely? [Y/n] y
```

```
... Success!
```

```
Remove test database and access to it? [Y/n] y
```

```
- Dropping test database...
```

```
... Success!
```

```
- Removing privileges on test database...
```

```
... Success!
```

```
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.
```

```
# sudo systemctl is-enabled mariadb
```

```
# sudo systemctl status mariadb
```

Installing PHPMYADMIN 5.2.3

phpmyadmin versi 5.2.3 support terhadap php8.3

Download phpMyAdmin 5.2.x All Languages di direktori webserver
masuk ke direktori webserver

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

Download phpMyAdmin 5.2.3 Terbaru dalam folder tersebut.

```
# sudo wget
```

```
https://files.phpmyadmin.net/phpMyAdmin/5.2.3/phpMyAdmin-5.2.3-all-languages.zip
```

Ekstrak

```
# unzip phpMyAdmin-5.2.3-all-languages.zip
```

Rename Folder

```
# sudo mv phpMyAdmin-5.2.3-all-languages phpmyadmin
```

Hapus file download awal

```
# sudo rm phpMyAdmin-5.2.3-all-languages.zip
```

Buat Konfigurasi phpMyAdmin

masuk ke folder

```
# cd /var/www/html/phpmyadmin
```

Salin file konfigurasi

```
# sudo cp config.sampel.inc.php config.inc.php
```

Generate Blowfish Secret

```
# openssl rand -base64 32
```

Edit Konfigurasi

```
# sudo nano config.inc.php
```

cari

```
# $cfg['blowfish_secret'] = '';
```

ganti dengan hasil generate dari perintah openssl rand -base64 32

```
# $cfg['blowfish_secret'] = 'ISI_DENGAN_STRING_HASIL_GENERATE';
```

Buat Folder Temporary

```
# sudo mkdir -p /var/www/html/phpmyadmin/tmp
```

```
# sudo chmod 777 /var/www/html/phpmyadmin/tmp
```

Tambahkan pada config.inc.php

```
# $cfg['TempDir'] = '/var/www/html/phpmyadmin/tmp';
```

Atur Hak Akses

```
# sudo chown -R www-data:www-data /var/www/html/phpmyadmin
```

```
# sudo find /var/www/html/phpmyadmin -type d -exec chmod 755 {} \;
```

```
# sudo find /var/www/html/phpmyadmin -type f -exec chmod 644 {} \;
```

Konfigurasi pada Apache2

```
# sudo nano /etc/apache2/conf-available/phpmyadmin.conf
```

```
--masukkan script ini/isi dengan ini --
```

```
Alias /phpmyadmin /var/www/html/phpmyadmin
```

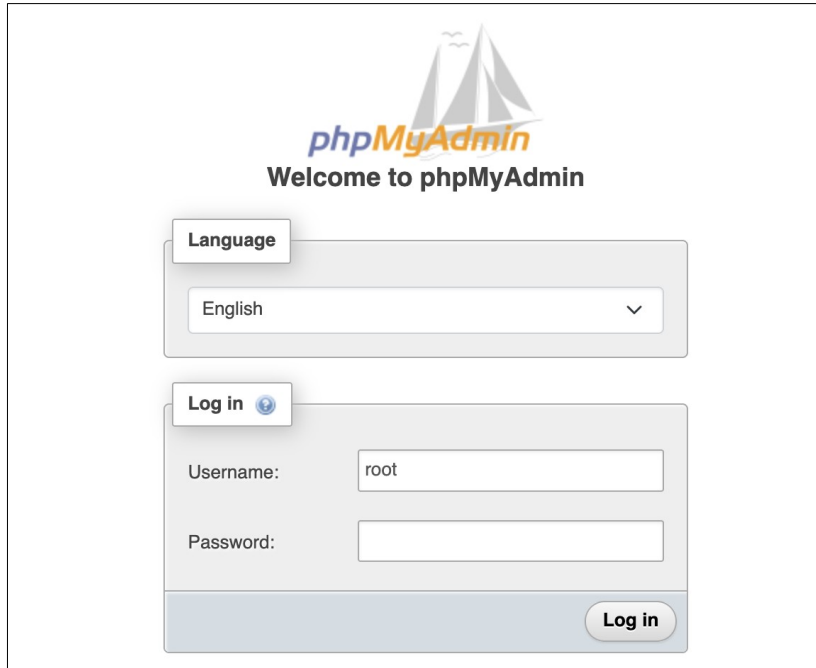
```
<Directory /var/www/html/phpmyadmin>  
    Options Indexes FollowSymLinks  
    DirectoryIndex index.php  
    AllowOverride All  
    Require all granted  
</Directory>
```

simpan dalam nano, dengan **Ctrl** dan tekan huruf **o** kemudian Enter untuk keluar dari nano maka tekan **Ctrl** dan huruf **x**

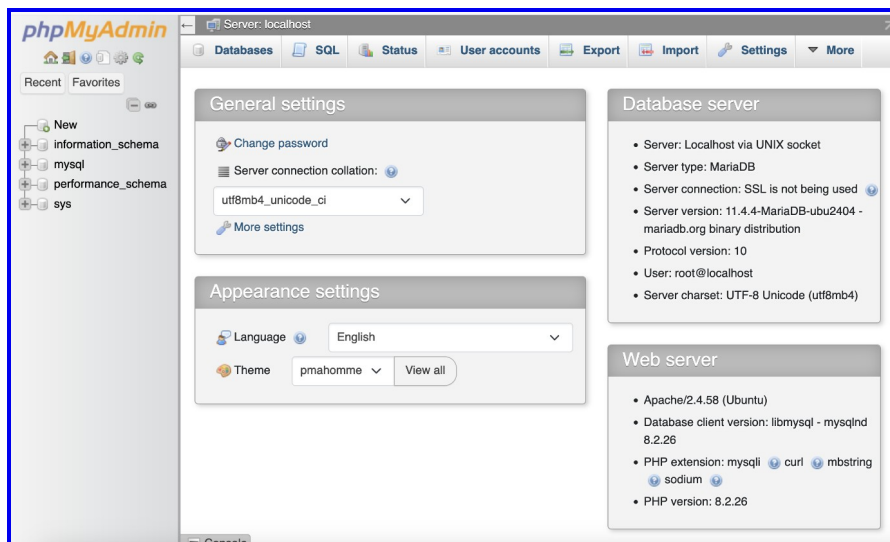
Aktifkan konfigurasi

```
# sudo a2enconf phpmyadmin  
# sudo systemctl restart apache2
```

Buka phpmyadmin pada alamat IP kita, misal 192.168.1.10/phpmyadmin



setelah login, akan kita bisa membuat database baru dan terbentuk database phpmyadmin



PERSIAPAN INSTALASI SIMPEL V202601

Instalasi composer di server Ubuntu 26.04

Masuk ke direktori sementara

```
# cd ~
```

Download Installer dari direktori /tmp

```
# curl -sS https://getcomposer.org/installer -o /tmp/composer-setup.php
```

Verifikasi Installer

Ambil Hash resmi

```
# HASH=`curl -sS https://composer.github.io/installer.sig`
```

Verifikasi

```
# php -r "if (hash_file('SHA384', '/tmp/composer-setup.php') === '$HASH') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP_EOL;"
```

```
Installer verified
```

Install Composer Global

```
# sudo php /tmp/composer-setup.php \
  --install-dir=/usr/local/bin \
  --filename=composer
```

```
All settings correct for using Composer
```

```
Downloading...
```

```
Composer (version 2.8.3) successfully installed to:
/usr/local/bin/composer
```

```
Use it: php /usr/local/bin/composer
```

```
# composer --version
```

```
Composer version 2.8.3 2024-11-17 13:13:04
```

```
Composer version 2.8.3 2024-11-17 13:13:04
```

```
Usage:
```

```
command [options] [arguments]
```

Hapus Installer

```
# rm composer-setup.php
```

Untuk Memperbarui Composer di kemudian hari

```
# composer self-update
```

Composer ini untuk instalasi phpspreadsheet di dalam folder
/var/www/html/simpel di server Ubuntu 26.04

Installing SIMPEL-V202601

```
--aktifkan modul mod_rewrite--
```

```
# sudo a2enmod rewrite
```

```
# sudo systemctl restart apache2
```

*--Upload simpel-v202601.zip ke server ubuntu 26.04--
biasanya upload di home dalam bentuk .zip (simpel-v202601.zip)*

*masuk ke terminal server ubuntu 26.04
masuk sudo su*

```
# unzip simpel-v202601.zip -d /var/www/html/  
# sudo chown -R www-data:www-data /var/www/html/simpel  
# find /var/www/html/simpel -type d -exec chmod 755 {} \  
# find /var/www/html/simpel -type f -exec chmod 644 {} \  
# chmod 775 /var/www/html/simpel/uploads/
```

Instalasi phpspreadsheet

*masuk ke folder simpel
cd /var/www/html/simpel*

*Pastikan terdapat file composer.json
ls*

*Jika belum ada lakukan perintah
composer init*

Install phpSpreadsheet

*Ketik perintah: composer require phpoffice/phpspreadsheet
composer require phpoffice/phpspreadsheet*

*Tunggu selesai proses install. Jika sudah selesai maka akan ada folder
vendor, file composer.json, file composer.lock*

Ketika install phpspreadsheet muncul error seperti berikut:

```
[RuntimeException]  
require-dev.mikey179/vfsStream is invalid, it should not contain uppercase characters. Please use mikey179/vfsstream instead.
```

Cara menanganinya adalah dengan cara buka file composer.json, di dalam folder /var/www/html/simpel/composer.json, buka dengan nano /var/www/html/simpel/composer.json cari file "mikey179/vfsStream" dan ganti menjadi "mikey179/vfsstream" simpan dalam nano, dengan **Ctrl** dan tekan huruf **o** kemudian Enter untuk keluar dari nano maka tekan **Ctrl** dan huruf **x**

```

root@simepk23:/var/www/html/sim-epk-kep# composer require phpoffice/phpspreadsheet
Do not run Composer as root/super user! See https://getcomposer.org/root for details
Continue as root/super user [yes]? yes
Cannot use phppoffice/phpspreadsheet's latest version 3.3.0 as it requires ext-dom * which is missing from your platform.
Cannot use phppoffice/phpspreadsheet 3.3.0 as it requires ext-simplexml * which is missing from your platform.
Cannot use phppoffice/phpspreadsheet 3.3.0 as it requires ext-xml * which is missing from your platform.
Cannot use phppoffice/phpspreadsheet 3.3.0 as it requires ext-xmlreader * which is missing from your platform.
Cannot use phppoffice/phpspreadsheet 3.3.0 as it requires ext-xmlwriter * which is missing from your platform.
Cannot use phppoffice/phpspreadsheet 3.3.0 as it requires ext-zip * which is missing from your platform.
Cannot use phppoffice/phpspreadsheet 1.14.1 as it requires php ^7.2 which is not satisfied by your platform.

In PackageDiscoveryTrait.php line 325:

Package phppoffice/phpspreadsheet has requirements incompatible with your PHP version, PHP extensions and Composer version:
- phppoffice/phpspreadsheet 3.3.0 requires ext-dom * but it is not present.
- phppoffice/phpspreadsheet 3.3.0 requires ext-simplexml * but it is not present.
- phppoffice/phpspreadsheet 3.3.0 requires ext-xml * but it is not present.
- phppoffice/phpspreadsheet 3.3.0 requires ext-xmlreader * but it is not present.
- phppoffice/phpspreadsheet 3.3.0 requires ext-xmlwriter * but it is not present.
- phppoffice/phpspreadsheet 3.3.0 requires ext-zip * but it is not present.

```

Hal ini disebabkan karena php-dom, php-xml, php-zip belum terinstall/aktif. Silakan install/aktifkan terlebih dahulu.

Selesai install phpspreadsheet di folder /var/www/html/simpel

Import Database SIMPEL-V202601 ke mysql/mariaDB.

Database.sql tersedia di dalam folder simpel

```
# mysql -u root -p simpelv202601 <
/var/www/html/simpel/simpelv202601.sql
```

setting koneksi database di /application/config/database.php

```
# sudo nano /application/config/database.php
```

```

--sesuaikan dengan username, password dan nama databasanya--
$db['default'] = array(
    'dsn' => '',
    'hostname' => 'localhost',
    'username' => 'root',
    'password' => 'password_mysql',
    'database' => 'simpelv202601',
    'dbdriver' => 'mysqli',

```

Buka web browser dengan ip publik yang ada

http:ip-public/simpel

kemudian seting virtualhost untuk server tersebut dengan mengalihkan melalui seting DNS zone dari cpanel website induk misalnya website-poltekkes.ac.id seting di dalam cpanelnya di bagian DNS Zone, dengan masukkan ip publik dari server sim-epk-kep (misalnya ip publik nya server sim-epk-kep adalah 103.100.87.100) dengan pemberian nama pada DNS zone nama link website misalnya simpel.website-poltekkes.ac.id

masuk ke terminal server ubuntu 26.04

```
buat simpel.conf di etc/apache2/sites-available
```

```
# sudo nano simpel.conf /etc/apache2/sites-available
```

Akan terbentuk file baru dengan nama simepk.conf

```

<VirtualHost *:80>
    ServerAdmin admin@simpel.website-poltekkes.ac.id

```

```
ServerName simpel.website-poltekkes.ac.id
ServerAlias simpel.website-poltekkes.ac.id
DocumentRoot /var/www/html/simpel
<Directory /var/www/html/simpel>
    Options -Indexes +FollowSymLinks
    AllowOverride All
</Directory>
ErrorLog ${APACHE_LOG_DIR}/simpel-error.log
CustomLog ${APACHE_LOG_DIR}/simpel-access.log combined
</VirtualHost>
# sudo a2ensite simpel.conf
# sudo systemctl restart apache2
```

kemudian seting di /etc/hosts

```
127.0.0.1        simpel.website-poltekkes.ac.id
127.0.0.1        localhost
10.10.20.61     adminsimpel202601
```

```
# The following lines are desirable for IPv6 capable hosts
::1            localhost ip6-localhost ip6-loopback
ff02::1       ip6-allnodes
ff02::2       ip6-allrouters
```

```
# sudo systemctl restart apache2
```

buka website dengan nama url simpel.website-poltekkes.ac.id

Tue, June 16

Sistem Informasi Penilaian CPL

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TENTANG KAMI
Simpel adalah lembaga independen yang bertugas meninjau, memberikan persetujuan, dan memantau pelaksanaan penelitian kesehatan di Indonesia agar sesuai dengan prinsip-

KONTAK
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BERITA TERKINI

Installing ssl dengan certbot di Ubuntu 26.04

Tahapan ini setelah server di seting virtualhost dari simpel yang di arahkan DNS nya ke IP server

```
# sudo apt install certbot python3-certbot-apache
```

```
# sudo certbot -apache
```

Output

```
Saving debug log to /var/log/letsencrypt/letsencrypt.log
```

```
Enter email address (used for urgent renewal and security notices)
```

```
(Enter 'c' to cancel): simpel@website-poltekkes.ac.id --email simpel--
```

```
-----  
Please read the Terms of Service at
```

```
https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf. You must  
agree in order to register with the ACME server at
```

```
https://acme-v02.api.letsencrypt.org/directory  
-----
```

```
(Y)es/(N)o: Y
```

```
-----  
Would you be willing to share your email address with the Electronic Frontier  
Foundation, a founding partner of the Let's Encrypt project and the non-profit  
organization that develops Certbot? We'd like to send you email about our work  
encrypting the web, EFF news, campaigns, and ways to support digital freedom.  
-----
```

```
(Y)es/(N)o: N
```

```
Which names would you like to activate HTTPS for?
```

```
-----  
1: simpel.website-poltekkes.ac.id
```

```
2: www.simpel.website-poltekkes.ac.id  
-----
```

```
Select the appropriate numbers separated by commas and/or spaces, or leave input  
blank to select all options shown (Enter 'c' to cancel): --enter--
```

Output

```
Successfully received certificate.
```

```
Certificate is saved at: /etc/letsencrypt/live/your_domain/fullchain.pem
```

```
Key is saved at: /etc/letsencrypt/live/your_domain/privkey.pem
```

```
This certificate expires on 2022-07-10.
```

```
These files will be updated when the certificate renews.
```

```
Certbot has set up a scheduled task to automatically renew this certificate in  
the background.
```

Deploying certificate

```
Successfully deployed certificate for your_domain to /etc/apache2/sites-  
available/your_domain-le-ssl.conf
```

```
Successfully deployed certificate for www.your_domain.com to /etc/apache2/sites-  
available/your_domain-le-ssl.conf
```

```
Congratulations! You have successfully enabled HTTPS on https://your_domain and  
https://www.your_domain.com  
-----
```

```
If you like Certbot, please consider supporting our work by:
```

```
* Donating to ISRG / Let's Encrypt: https://letsencrypt.org/donate
```

```
* Donating to EFF: https://eff.org/donate-le  
-----
```

Kita akses website dengan <https://simpel.website-poltekkes.ac.id>