1. **Instalasi Apache**

* Unduh: <https://httpd.apache.org/download.cgi> <https://www.apachelounge.com/download/#google_vignette>
* Ekstrak, pindahkan ke **c:/Apache24**, buka file **c:/Apache24/conf/httpd.conf**
  + Define SRVROOT "c:/Apache24"
  + ServerRoot "${SRVROOT}"
  + Listen 8081
  + ServerName localhost:8081
* Buka CMD, **C:\Apache24\bin** jalankan **httpd.exe**
* Buka browser **localhost:8081**
* **Ctrl + c** untuk stop

1. **Instalasi PHP**

* <https://www.php.net/downloads> versi zip TS
* Ekstrak **C:\PHP**
* Tambahkan path **Environment Variable**, **System Variable**, **C:\PHP**
* buka file **c:/Apache24/conf/httpd.conf**

<IfModule dir\_module>

DirectoryIndex index.php index.html

</IfModule>

# PHP8 module

PHPIniDir "C:/php"

LoadModule php\_module "C:/PHP/php8apache2\_4.dll"

AddType application/x-httpd-php .php

* **php.ini-development** jadi **php.ini**, buka pagar extension jika diperlukan
* **C:\Apache24\htdocs** buat file .php

1. **Instalasi MariaDB atau MySQL**

* Unduh <https://mariadb.org/download/> atau MySQL <https://dev.mysql.com/downloads/>
* Install
* User root, password maria, port 3307
* C:\Program Files\MariaDB 11.3\bin>mysql -u root -p

1. **Instalasi phpMyAdmin**

* Unduh <https://www.phpmyadmin.net/downloads/>
* Ekstrak C:\Apache24\htdocs\phpmyadmin
* **config.sample.inc.php** jadi **config.inc.php**

/\* Server parameters \*/

$cfg['Servers'][$i]['host'] = 'localhost:3307';

$cfg['Servers'][$i]['compress'] = false;

$cfg['Servers'][$i]['AllowNoPassword'] = false;

$cfg['Servers'][$i]['user'] = 'root';

$cfg['Servers'][$i]['password'] = 'maria';

* **php.ini**

extension=mysqli