**ubuntu18.04 安裝 MYSQL** (硬碟：30GB)

**安裝**

1. $ sudo apt-get update
2. $ sudo apt-get install mysql-server
3. $ sudo mysql\_secure\_installation => 會問要不要提升root密碼強度：No

**檢查**

* **方法一）**$ mysql -version
* **方法二）**$ systemctl status mysql.service => 如果服務未運行：$ sudo systemctl start mysql
* **方法三）**$ sudo mysqladmin -p -u root version

**登入**

* $ sudo mysql -u root -p

**使用**

* SHOW DATABASES;
* CREATE DATABASE `dbname`;
* USE `資料庫`;
* CREATE TABLE `users` (

`userid` tinyint SIGNED NOT NULL PRIMARY KEY AUTO\_INCREMENT,

`username` varchar(50)

);

* SHOW CREATE TABLE `users`;　　=> 顯示表格是怎麼被建立的
* INSERT INTO `users` (`username`) VALUES ('Bob');
* CREATE USER 'dbuser'@'localhost' IDENTIFIED BY'test1234';
* GRANT ALL ON `dbname`.\* TO 'dbuser'@'localhost' IDENTIFIED BY'test1234';

**ubuntu18.04 安裝 phpMyAdmin**

1. **Nginx（Web Server）**
2. $ sudo apt-get install nginx -y
3. $ sudo systemctl status nginx
4. 在瀏覽器輸入：http://127.0.0.1
5. **PHP**
6. 安裝PHP執行環境

$ sudo apt install php-cli -y

1. 安裝FPM(FastCGI Process Manager) >>> FastCGI類似API

$ sudo apt-get install php-fpm php-cgi php-mysql php-common php-pear php-mbstring -y

1. 安裝socat

$ sudo apt install socat -y

1. 判斷FPM有沒有正常工作

$ echo /dev/null | sudo socat unix:/var/run/php/php7.2-fpm.sock - && echo "Working!" || echo "Not working!"

1. 新增info.php

$ sudo gedit /var/www/html/info.php

1. 修改PHP設定檔

$ sudo gedit /etc/php/7.2/fpm/php.ini

cgi.fix\_pathinfo=0 並取消註解

1. 重啟php-fpm

$ sudo systemctl restart php7.2-fpm

1. 改設定檔

$ sudo gedit /etc/nginx/sites-available/default

root /var/www/html;

# Add index.php to the list if you are using PHP

index index.html index.php index.htm index.nginx-debian.html;

server\_name \_;

location / {

# First attempt to serve request as file, then

# as directory, then fall back to displaying a 404.

try\_files $uri $uri/ /index.php?q=$uri&$args;

#try\_files $uri $uri/ =404;

}

# pass PHP scripts to FastCGI server

#

location ~ \.php$ {

include snippets/fastcgi-php.conf;

#

# # With php-fpm (or other unix sockets):

fastcgi\_pass unix:/var/run/php/php7.2-fpm.sock;

# # With php-cgi (or other tcp sockets):

# fastcgi\_pass 127.0.0.1:9000;

}

1. 重啟nginx

$ sudo systemctl reload nginx

1. 驗證設定檔格式是否有錯

$ sudo nginx -t

1. 創建網頁要呈現的內容以便等等驗證

$ sudo gedit /var/www/html/info.php

<?php

phpinfo();

?>

$ sudo gedit /var/www/html/index.php

<?php

// -----DB config-----

$dbms = 'mysql';

$dbhost = 'localhost';

$dbname = 'testdb';

$dbuser = 'dbuser';

$dbpwd = 'test1234';

// -------------------

$dsn = "$dbms:host=$dbhost;dbname=$dbname";

$db = new PDO($dsn, $dbuser, $dbpwd);

// -------------------

header('Content-Type: text/plain');

$userid = isset($\_GET['userid']) ? (int)$\_GET['userid'] : 1;

$statement = $db->prepare('SELECT \* FROM `users` WHERE `userid` = :userid');

$statement->execute(array(

':userid' => $userid

));

$row = $statement->fetch(PDO::FETCH\_ASSOC);

if (is\_array($row)) {

echo $row['username'];

} else {

echo 'Empty result!';

}

?>

1. **phpMyAdmin**
2. 安裝phpMyAdmin

$ sudo apt install phpmyadmin –y

1. 編輯Nginx設定檔以新增phpMyAdmin的區塊

$sudo gedit /etc/nginx/sites-available/default

server\_name \_;

location / {

# First attempt to serve request as file, then

# as directory, then fall back to displaying a 404.

try\_files $uri $uri/ /index.php?q=$uri&$args;

#try\_files $uri $uri/ =404;

}

# pass PHP scripts to FastCGI server

#

location ~ \.php$ {

include snippets/fastcgi-php.conf;

#

# # With php-fpm (or other unix sockets):

fastcgi\_pass unix:/var/run/php/php7.2-fpm.sock;

# # With php-cgi (or other tcp sockets):

# fastcgi\_pass 127.0.0.1:9000;

}

# deny access to .htaccess files, if Apache's document root

# concurs with nginx's one

#

#location ~ /\.ht {

# deny all;

#}

location = /phpmyadmin {

return 301 /phpmyadmin/;

}

location ^~ /phpmyadmin/ {

root /usr/share;

allow 127.0.0.1;

deny all;

fastcgi\_read\_timeout 1440s;

fastcgi\_send\_timeout 1440s;

if ($uri ~ \.php$) {

fastcgi\_pass unix:/run/php/php7.2-fpm.sock;

}

include fastcgi.conf;

}

}

1. 重啟nginx

$ sudo systemctl reload nginx

1. 驗證設定檔格式是否有錯

$ sudo nginx –t

1. 在瀏覽器開啟：<http://localhost/phpmyadmin/>
2. 登入

Username : phpmyadmin

Password : 剛剛設的

1. 新增使用者

$ mysql -uroot -p

mysql> CREATE USER 'dbuser'@'localhost' IDENTIFIED BY'test1234';

mysql> GRANT ALL ON `phpmyadmin`.\* TO 'dbuser'@'localhost' IDENTIFIED BY'test1234';

之後就可以用dbuser登入phpmyadmin