

2026 CakePHP-Day2

CakePHP 部署

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CakePHP Requirements

1. HTTP 伺服器

例如：**Apache**。建議使用 `mod_rewrite`，但不是必須的。你也可以選擇使用 `nginx` 或 `Microsoft IIS`。

2. 最低 PHP 版本為 8.2 (支援 8.5)

3. 必須安裝以下 PHP 擴充套件：

- `mbstring` 擴充套件
- `intl` 擴充套件
- `SimpleXML` 擴充套件
- `PDO` 擴充套件

4. 資料庫引擎

雖然 `CakePHP` 並不要求必須使用資料庫引擎，但我們認為大多數應用程式都會使用資料庫。`CakePHP` 支援多種資料庫引擎：

- **MySQL (5.7 或更高版本)**
- `MariaDB ( 10.1 或更高版本 )`
- `PostgreSQL ( 9.6 或更高版本 )`
- `Microsoft SQL Server ( 2012 或更高版本 )`
- `SQLite ( 3.8.9 更高版本 )`
- `Oracle 資料庫 ( 透過 Oracle Database 的社群驅動套件支援 )`

CakePHP Compose

準備檔案

- Dockerfile
- compose.yaml
- .env
- CMS/DB/cake_cms.sql

CakePHP Compose

執行命令

- 建立 Container
 - `docker compose up --build`
- 開啟新的終端機
 - `docker exec -it CakePHP-php8.5-apache2 bash`
 - `composer self-update && composer create-project --prefer-dist cakephp/app:5.* my_app_name`
- 等待三至五分鐘，將 CakePHP 基本結構下載完成後使用以下命令（使用 docker 開發不需要）
 - `cd my_app_name`
 - `bin/cake server -p 8080`

Web Sever

```
Welcome to CakePHP v5.1.4 Console
```

```
-----  
App : src
```

```
Path: /var/www/html/CMS/src/
```

```
DocumentRoot: /var/www/html/CMS/webroot
```

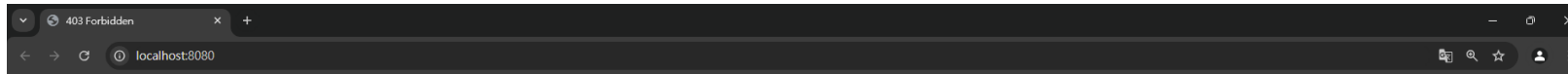
```
Ini Path:  
-----
```

```
built-in server is running in http://localhost:8080/
```

```
You can exit with `CTRL-C`
```

```
[Tue Dec 24 11:14:49 2024] PHP 8.3.15 Development Server (http://localhost:8080) started
```

Web Sever



Forbidden

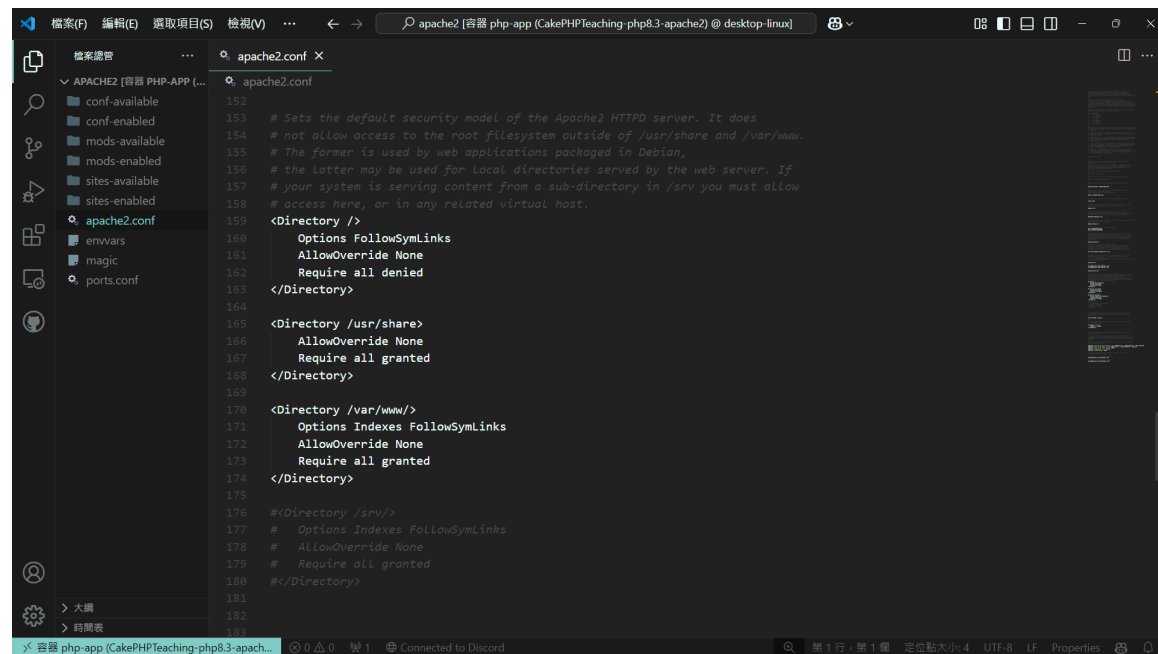
You don't have permission to access this resource.

Apache/2.4.62 (Debian) Server at localhost Port 8080

Apache Override Permissions

- F1 >Dev Containers: Attach To Running Container
- 選擇 CakePHP-php8.4-apache2
- 進入 /etc/apache2，開啟 apache2.conf
- 若不小心切換到錯誤的工作區，使用快捷鍵 **Ctrl + KF** 來關閉資料夾
 - 說明：Ctrl + KF 是先同時按 Ctrl 鍵和 K 鍵，放開後再按 F 鍵。

一般而言，composer 會幫我們將權限設定好，不需要手動更改設定



```
152
153 # Sets the default security model of the Apache2 HTTPD server. It does
154 # not allow access to the root filesystem outside of /usr/share and /var/www.
155 # The former is used by web applications packaged in Debian,
156 # the latter may be used for local directories served by the web server. If
157 # your system is serving content from a sub-directory in /srv you must allow
158 # access here, or in any related virtual host.
159 <Directory />
160     Options FollowSymLinks
161     AllowOverride None
162     Require all denied
163 </Directory>
164
165 <Directory /usr/share>
166     AllowOverride None
167     Require all granted
168 </Directory>
169
170 <Directory /var/www/>
171     Options Indexes FollowSymLinks
172     AllowOverride None
173     Require all granted
174 </Directory>
175
176 #<Directory /srv/>
177 #     Options Indexes FollowSymLinks
178 #     AllowOverride None
179 #     Require all granted
180 #</Directory>
181
182
183
```

Apache Override Permissions

```
<Directory /var/www/>  
    Options Indexes FollowSymLinks  
    AllowOverride None  
    Require all granted  
</Directory>
```

```
<Directory /var/www/html>  
    Options Indexes FollowSymLinks  
    AllowOverride All  
    Require all granted  
</Directory>
```

```
#<Directory /srv/>  
#    Options Indexes FollowSymLinks  
#    AllowOverride None  
#    Require all granted  
#</Directory>
```

apache2.conf

Apache Override Permissions

重啟 Apache

- `docker restart CakePHP-php8.5-apache2`



CakePHP Compose

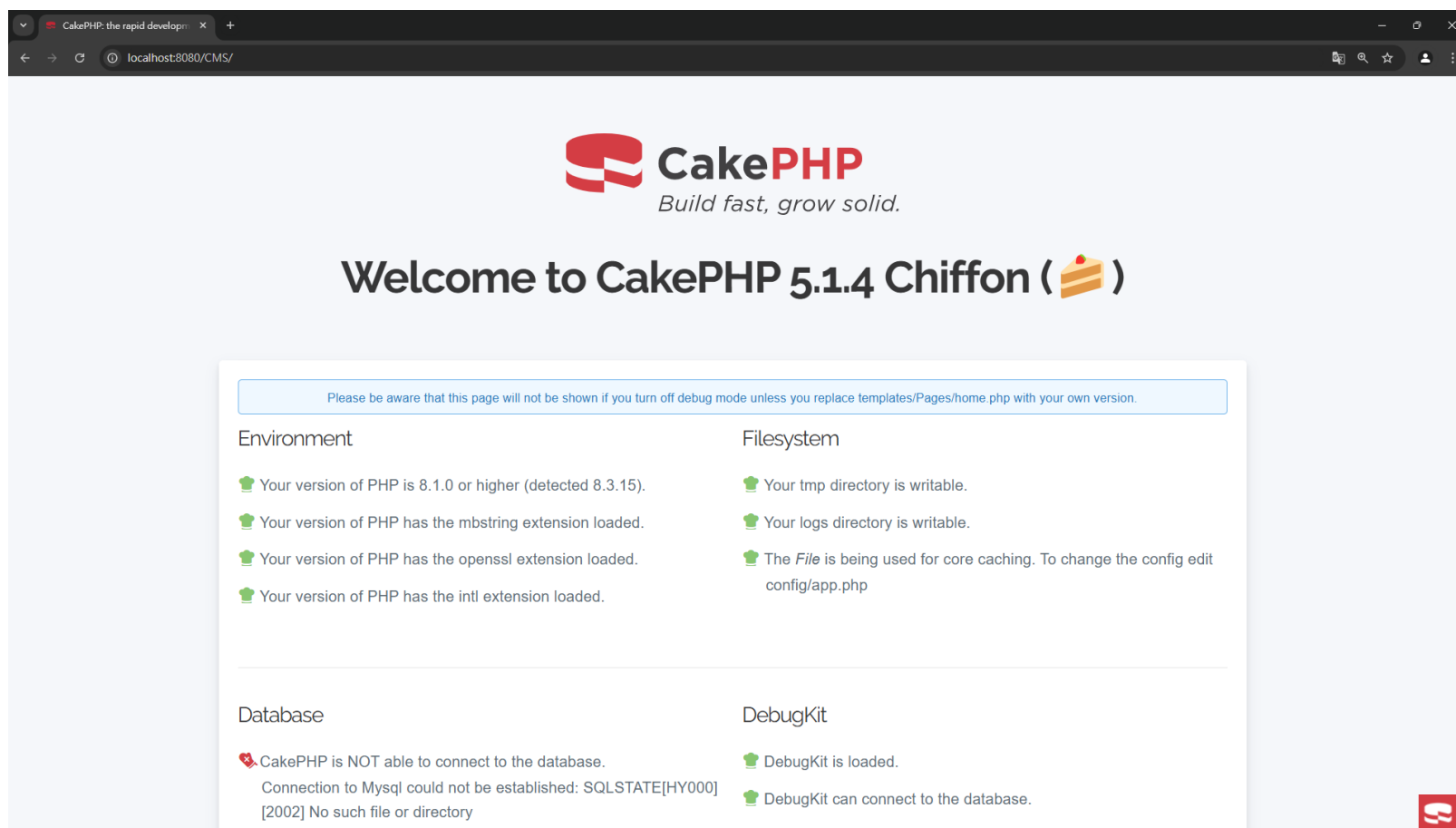
- 修改 Dockerfile
- 將 apache2.conf 複製至專案資料夾

```
# ...  
# 上面還有其他程式碼  
# 設置權限與擁有者  
RUN chmod -R 755 /var/www/html  
RUN chown -R www-data:www-data  
/var/www/html  
  
# Apache配置  
# COPY ./apache2.conf /etc/apache2/  
  
# 啟動 Apache 並保持在前台  
CMD ["apachectl", "-D", "FOREGROUND"]
```

Dockerfile

CakePHP Check Page

- 點擊 CMS 進入 CakePHP 檢查頁面



CakePHP Database Configuration

- 你會發現網頁伺服器無法連接到 MySQL 資料庫

Database



CakePHP is NOT able to connect to the database.

Connection to Mysql could not be established: SQLSTATE[HY000]

[2002] No such file or directory

CakePHP Database Configuration

- 開啟 CMS/CMS/config/app_local.php
- 修改 default 內的資料庫設定
- 此部分應與 .env 檔案中所設定的值一致
- 儲存後重新整理瀏覽器

Database

 CakePHP is able to connect to the database.

```
app_local.php
// ...
// 上面還有其他程式碼
'Datasources' => [
    'default' => [
        'host' => 'mysql:3306',
        'username' => 'CakePHP-User',
        'password' => 'CakePHP-Password',
        'database' => 'CakePHP-DB',
        'url' => env(
            'DATABASE_URL',
            null
        ),
    ],
// 下面還有其他程式碼
// ...
```