

# 伺服器安裝：如何 Deploy Laravel — Apache 及環境設定

單元 13

- 本單元將示範使用如何將 Laravel 部署到正式執行環境，範例將使用虛擬機器進行示範

# 安裝 Ubuntu Server

- <http://www.ubuntu.com/download/server>
- 可選擇：
  - 實體電腦安裝
  - Virtual Box, VMware, Parallel Desktop 虛擬機器安裝
  - 使用免費或付費空間

# 更改 APT Mirror

- `sudo nano /etc/apt/sources.list`
- 加入下列兩行後存檔
  - `deb http://free.nchc.org.tw/ubuntu/ xenial main`
  - `deb-src http://free.nchc.org.tw/ubuntu/ xenial main`

# 安裝相依套件

- `sudo apt-get update`
- `sudo apt-get install php7.0 php7.0-mysql  
mysql-client mysql-server php-mbstring php-  
xml git vim zip unzip apache2 libapache2-mod-  
php7.0`

# 安裝 Composer

```
php -r "copy('https://getcomposer.org/installer',  
'composer-setup.php');"
```

```
php -r "if (hash_file('SHA384', 'composer-setup.php') ===  
'e115a8dc7871f15d853148a7fbac7da27d6c0030b848d9b  
3dc09e2a0388afed865e6a3d6b3c0fad45c48e2b5fc1196ae  
' ) { echo 'Installer verified'; } else { echo 'Installer corrupt';  
unlink('composer-setup.php'); } echo PHP_EOL;"
```

```
php composer-setup.php
```

```
php -r "unlink('composer-setup.php');"
```

# Global Composer

- `sudo mv composer.phar /usr/bin/composer`
- 或可在 `.bashrc` 內設定 `alias composer = php ~/composer.phar`

# 下載並測試專案

- `cd /var/www`
- `git clone [專案 git repo]`
- `cd [專案名稱]`
- `composer install`
- `cp .env.example .env`
- `# 新增 MySQL User 並編輯 .env`
- `php artisan key:gen`
- `php artisan serve --host=0.0.0.0`



# 我不能用公開 repo

- Remote
  - `mkdir ~/repo && cd ~/repo`
  - `git init --bare [專案名稱].git`
- Local (對 remote 有 SSH access)
  - `git remote add deploy [user]@[server]:/home/[user]/repo/[專案名稱].git`
  - `git push -u deploy master`

- github 網址變成 /home/[user]/repo/[專案名稱].git
- 可以直接 clone

# 撰寫 Apache 設定檔

- `cd /etc/apache2/sites-available`
- `sudo mv 000-default.conf localhost.conf`
- `sudo nano localhost.conf`

```
<VirtualHost *:80>
```

```
    ServerName localhost [或你的域名]
```

```
    ServerAdmin [Email]
```

```
    DocumentRoot /var/www/Project/public
```

```
<Directory "/var/www/Project/public">
```

```
    AllowOverride All
```

```
</Directory>
```












```
    ErrorLog ${APACHE_LOG_DIR}/[專案名稱]-error.log
```

```
    CustomLog ${APACHE_LOG_DIR}/[專案名稱]-access.log combined
```

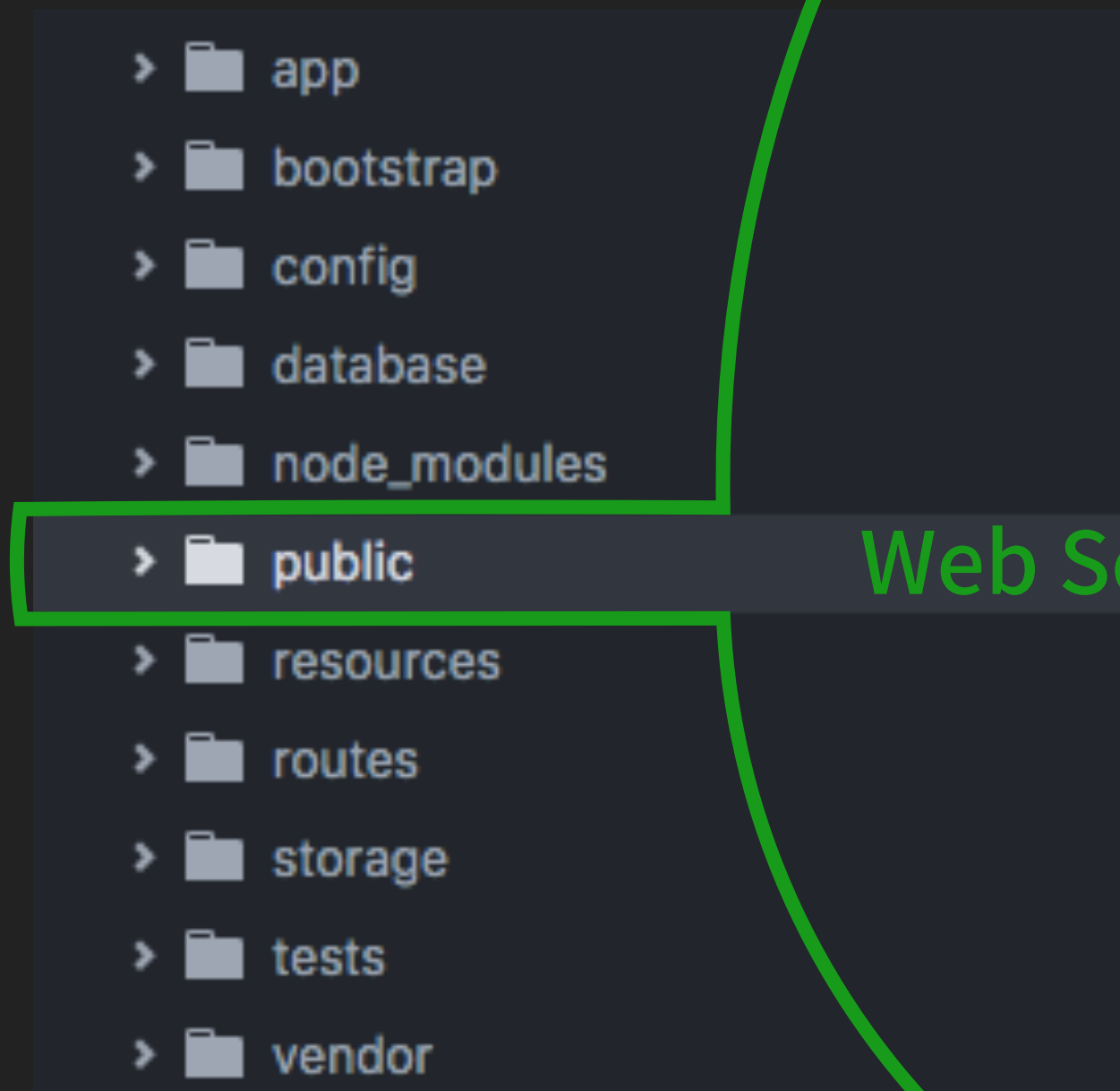
```
</VirtualHost>
```

Document Root 必須  
位於 /public

# Laravel 進入點

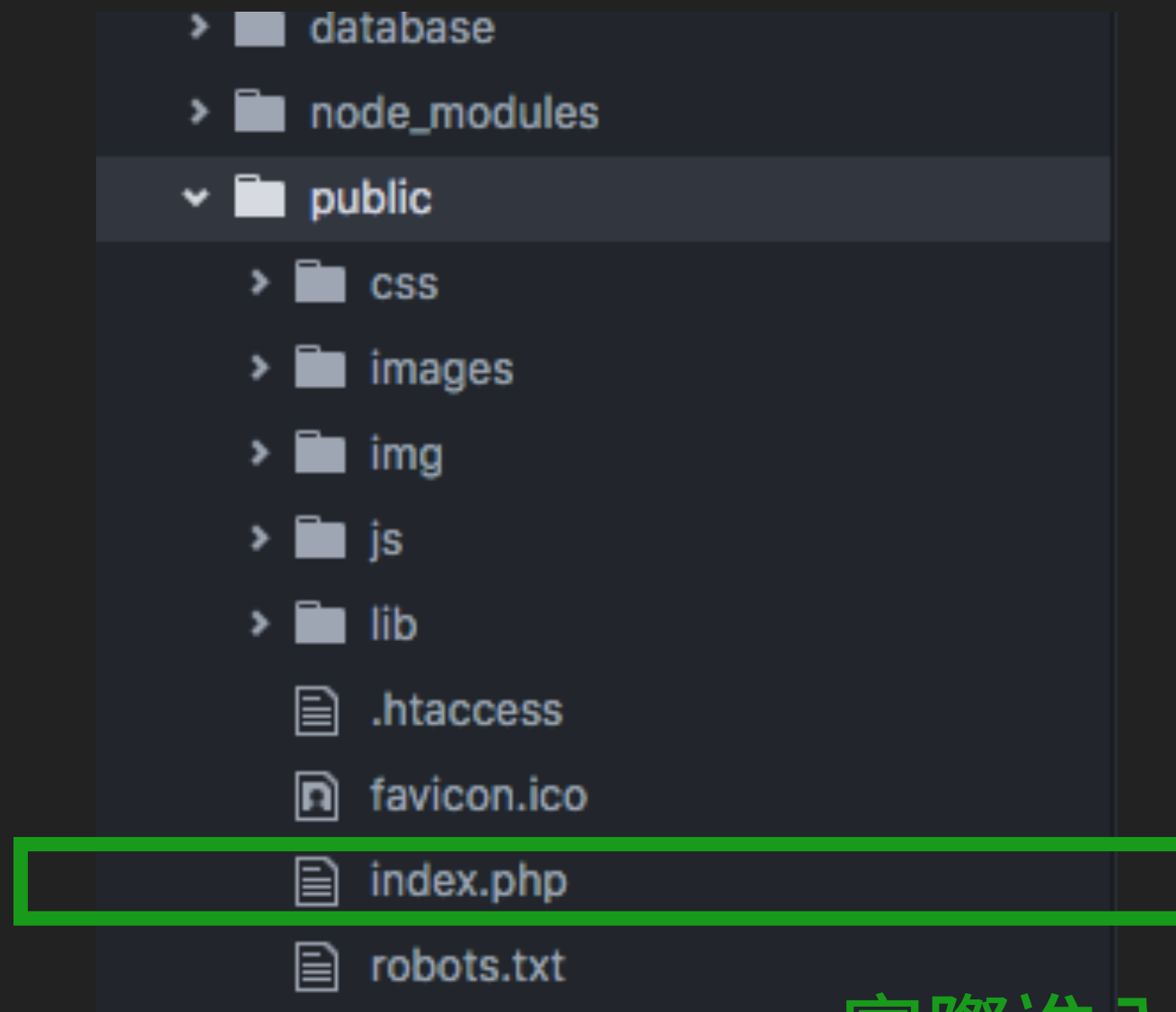
- ›  app
- ›  bootstrap
- ›  config
- ›  database
- ›  node\_modules
- ›  **public**
- ›  resources
- ›  routes
- ›  storage
- ›  tests
- ›  vendor

# Laravel 進入點



Web Server Root

# Laravel 進入點



實際進入點



# Laravel 進入點



# 重新啟動 apache

- `sudo service apache2 restart`

# 修改權限

- `cd /var/www/[專案名稱]`
- 如果發生權限錯誤
  - `sudo chown -R www-data:www-data .`
- or
  - `sudo chmod -R 777 storage`

# Apache Rewrite

- `sudo a2enmod rewrite`

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## 結束