

# RPI建置過程

資工三A 4070E003 唐靖凱

# I. 安裝APACHE2套件

```
4070E003@raspberrypi: ~  
4070E003@raspberrypi:~ $ sudo apt update -y  
Hit:1 http://archive.raspberrypi.org/debian buster InRelease  
Hit:2 http://raspbian.raspberrypi.org/raspbian buster InRelease  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
1 package can be upgraded. Run 'apt list --upgradable' to see it.  
4070E003@raspberrypi:~ $ sudo apt update  
Hit:1 http://raspbian.raspberrypi.org/raspbian buster InRelease  
Hit:2 http://archive.raspberrypi.org/debian buster InRelease  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
1 package can be upgraded. Run 'apt list --upgradable' to see it.  
4070E003@raspberrypi:~ $ sudo apt full-upgrade  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
Calculating upgrade... Done  
The following NEW packages will be installed:  
  pi-printer-support  
The following packages will be upgraded:  
  raspberrypi-ui-mods  
1 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 325 kB of archives.  
After this operation, 10.2 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://archive.raspberrypi.org/debian buster/main armhf pi-printer-support all 1.0 [2,184 B]  
Get:2 http://archive.raspberrypi.org/debian buster/main armhf raspberrypi-ui-mods armhf 1.20201210 [322 kB]  
Fetched 325 kB in 2s (195 kB/s)  
Reading changelogs... Done  
Selecting previously unselected package pi-printer-support.  
(Reading database ... 99252 files and directories currently installed.)  
Preparing to unpack .../pi-printer-support_1.0_all.deb ...  
Unpacking pi-printer-support (1.0) ...  
Preparing to unpack .../raspberrypi-ui-mods_1.20201210_armhf.deb ...  
Unpacking raspberrypi-ui-mods (1.20201210) over (1.20201126) ...  
Setting up raspberrypi-ui-mods (1.20201210) ...  
Setting up pi-printer-support (1.0) ...  
Processing triggers for shared-mime-info (1.10-1) ...  
4070E003@raspberrypi:~ $
```

## 2. 啟動APACHE2套件

```
4070E003@raspberrypi: ~  
4070E003@raspberrypi:~ $ sudo apt install apache2 -y  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
apache2 is already the newest version (2.4.38-3+deb10u4).  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
4070E003@raspberrypi:~ $ sudo systemctl enable apache2  
Synchronizing state of apache2.service with SysV service script with /lib/sys  
temd/systemd-sysv-install.  
Executing: /lib/systemd/systemd-sysv-install enable apache2  
4070E003@raspberrypi:~ $
```

# 3.測試網頁



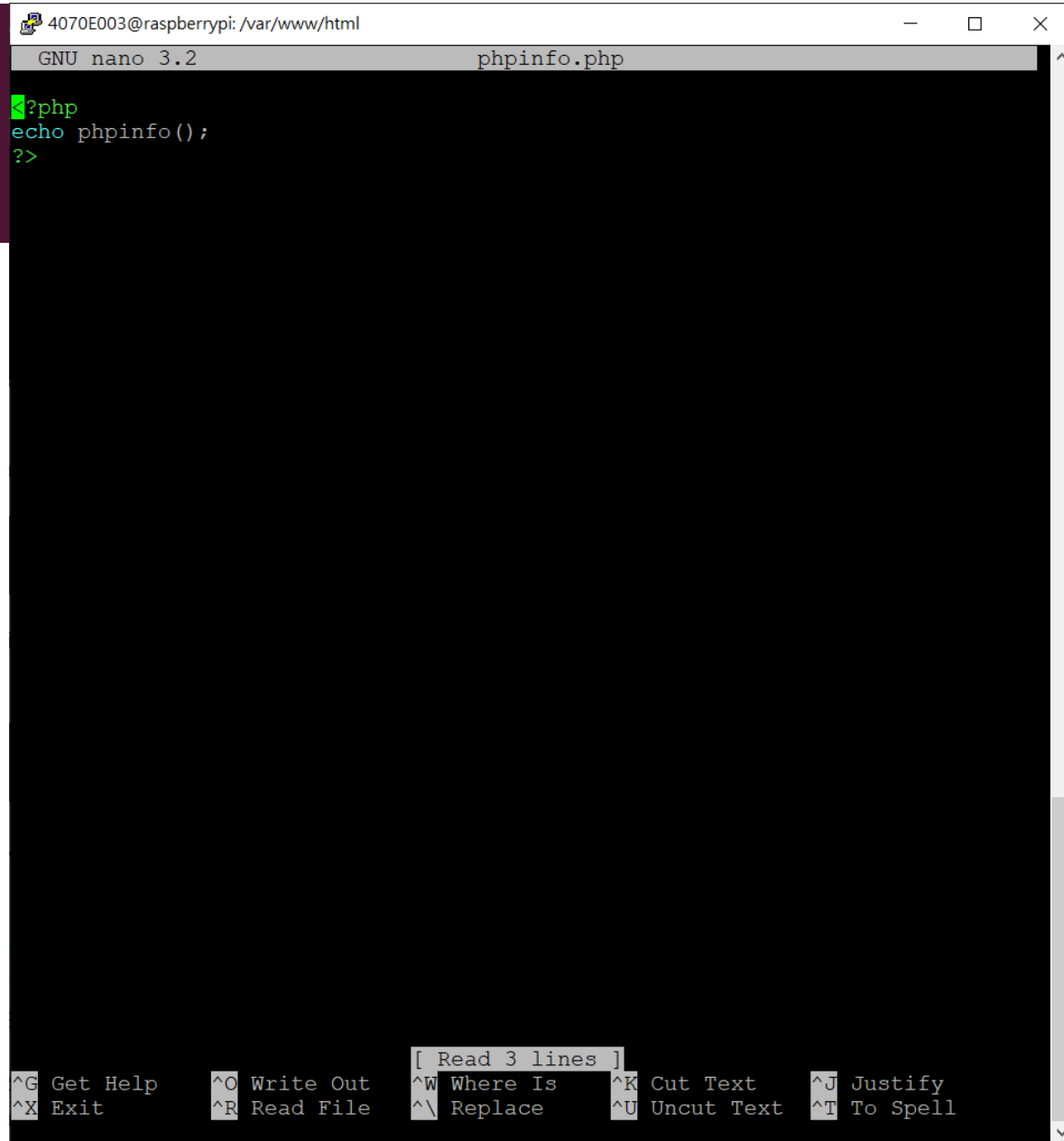
## 4.安裝PHP與APACHE2套件

```
4070E003@raspberrypi: ~  
4070E003@raspberrypi:~ $ sudo apt install php libapache2-mod-php -y  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
php is already the newest version (2:7.3+69).  
The following NEW packages will be installed:  
  libapache2-mod-php  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 6,120 B of archives.  
After this operation, 16.4 kB of additional disk space will be used.  
Get:1 http://mirror.ossplanet.net/raspbian/raspbian buster/main armhf libapac  
he2-mod-php all 2:7.3+69 [6,120 B]  
Fetched 6,120 B in 1s (6,964 B/s)  
Selecting previously unselected package libapache2-mod-php.  
(Reading database ... 99256 files and directories currently installed.)  
Preparing to unpack .../libapache2-mod-php_2%3a7.3+69_all.deb ...  
Unpacking libapache2-mod-php (2:7.3+69) ...  
Setting up libapache2-mod-php (2:7.3+69) ...  
4070E003@raspberrypi:~ $
```

## 5.進入HTML路徑、列出當前檔案、加入PI群組

```
4070E003@raspberrypi: /var/www/html
4070E003@raspberrypi:~ $ cd /var/www/html
4070E003@raspberrypi:/var/www/html $ ls /var/www/ -la
total 12
drwxr-xr-x  3 root root 4096 Dec  2 21:41 .
drwxr-xr-x 12 root root 4096 Dec  2 21:41 ..
drwxr-xr-x  2 root root 4096 Dec 18 16:31 html
4070E003@raspberrypi:/var/www/html $ groups pi
pi : pi adm dialout cdrom sudo audio video plugdev games users input netdev s
pi i2c gpio lpadmin
4070E003@raspberrypi:/var/www/html $
```

## 6. 撰寫PHP程式碼



```
4070E003@raspberrypi: /var/www/html
GNU nano 3.2 phpinfo.php
<?php
echo phpinfo();
?>
```

[ Read 3 lines ]

<b>^G</b> Get Help	<b>^O</b> Write Out	<b>^W</b> Where Is	<b>^K</b> Cut Text	<b>^J</b> Justify
<b>^X</b> Exit	<b>^R</b> Read File	<b>^_</b> Replace	<b>^U</b> Uncut Text	<b>^T</b> To Spell

## 7.PHP測試網頁

