### Linux 作業系統實務雙講師課程實作成果

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# FTP&MAIL 實作過程與結果

#### 1.vsftpd

```
翼 c4070E021 [執行中] - Oracle VM VirtualBox
 檔案 機器 檢視 輸入 裝置 說明
CentOS Linux 7 (Core)
Kernel 3.10.0-957.5.1.el7.x86_64 on an x86_64
Hint: Num Lock on
4070e021 login: root
Password:
Last login: Mon Nov 25 22:55:12 on tty1
Troot04070e021 ~1# dnf info vsftpd
Last metadata expiration check: 0:25:00 ago on Mon 25 Nov 2019 10:36:56 PM EST.
Installed Packages
              : vsftpd
Name
Version
                3.0.2
Release
              : 25.e17
              : x86_64
Arch
Size
                353 k
Source
                ∪sftpd-3.0.2-25.e17.src.rpm
Repo
                OSystem
                base
From repo
Summary
                Very Secure Ftp Daemon
URL
                https://security.appspot.com/vsftpd.html
                GPLv2 with exceptions
License
              : vsftpd is a Very Secure FTP daemon. It was written completely from
Description
              : scratch.
[root@4070e021 ~]#
```

#### 2.編輯/etc/sudoers

```
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 檔案 機器 檢視 輸入 裝置 說明
 GNU nano 2.3.1
                                      File: /etc/sudoers
                MACHINE=COMMANDS
##
        user
## The COMMANDS section may have other options added to it.
## Allow root to run any commands anywhere
root ALL=(ALL) ALL
## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# xsys all = networking, software, services, storage, delegating, processes, locate, drivers
## Allows people in group wheel to run all commands
#xwheel ALL=(ALL)
                       ALL
## Same thing without a password
/whee! ALL=(ALL) NUPASSWD: ALL
## Allows members of the users group to mount and unmount the
## cdrom as root
# //users ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom
## Allows members of the users group to shutdown this system
# zusers localhost=/sbin/shutdown -h now
## Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
#includedir /etc/sudoers.d
```

#### 3. 將 user 加入 wheel 群組

```
CentOS Linux 7 (Core)
Kernel 3.10.0-957.5.1.el7.x86_64 on an x86_64
Hint: Num Lock on
4070e021 login: root
Password:
Last login: Mon Nov 25 23:05:44 on tty1
[root04070e021 to group wheel
Adding user 4070e021 to group wheel
[root04070e021 ~]#
```

## 4.安裝 vsftpd

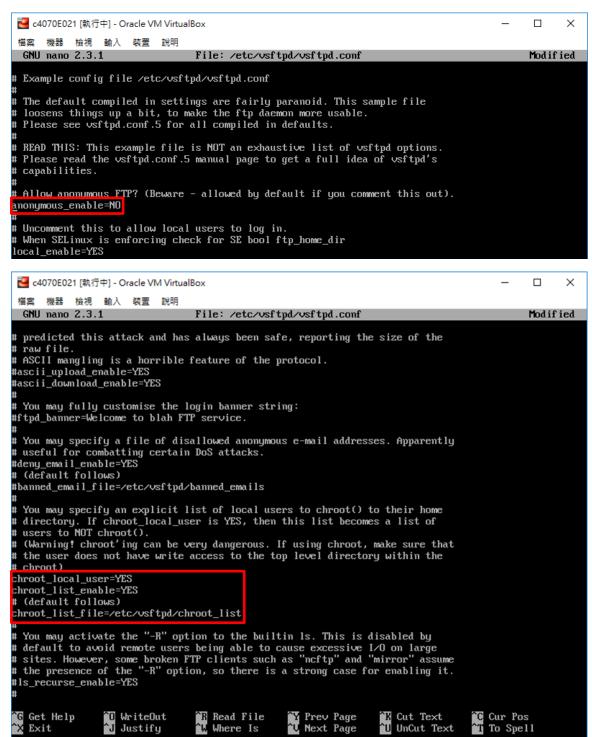
```
C4070E021 [執行中] - Oracle VM VirtualBox
檔案 機器 檢視 輸入 裝置 說明
CentOS Linux 7 (Core)
Kernel 3.10.0-957.5.1.el7.x86_64 on an x86_64
Hint: Num Lock on
4070e021 login: root
Password:
Last login: Mon Nov 25 23:86:53 on tty1
Iroot04070e021 "I# sudo dnf -y install vsftpd
Last metadata expiration check: 8:31:00 ago on Mon 25 Nov 2019 18:36:56 PM EST.
Package vsftpd-3.0.2-25.el7.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
Iroot04070e021 "I# _
```

### 5. 啟動 vsftpd

```
| CentOS Linux 7 (Core)
| Kernel 3.18.8-957.5.1.el7.x86_64 on an x86_64 |
| Hint: Num Lock on |
| 4870e021 login: root |
| Password: |
| Last login: Mon Nov 25 23:87:34 on tty1 |
| Iroot04870e021 "]# sudo systemctl start vsftpd |
| Iroot04870e021 "]# systemctl status vsftpd |
| Iroot04870e021 systemslice/vsftpd.service |
| Iroot04870e021 systemslice/vsftpd /etc/vsftpd ftp daemon...
| Iroot04870e021 "]# |
| Iroot04870e021 |
| Iroot04870e021 "]# |
| Iroot04870e021 |
| Ir
```

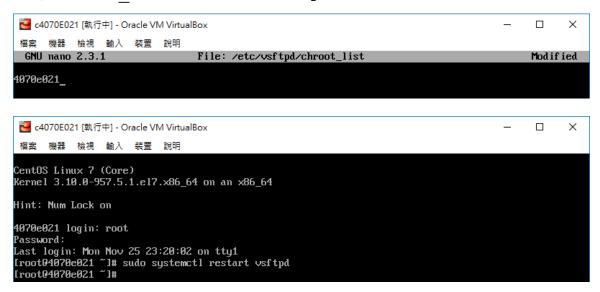
#### 6.測試 FTP server

## 7.編輯 vsftpd.conf



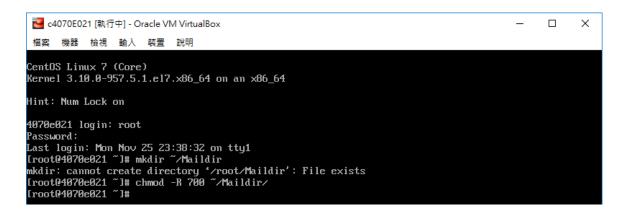
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8.編輯 chroot list 重新啟動 vsftpd

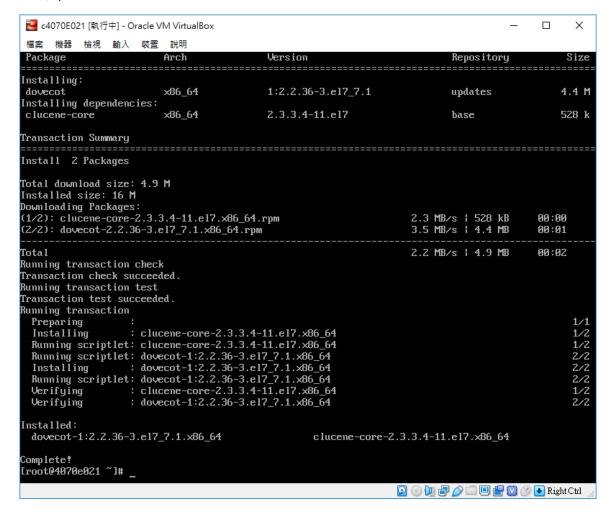


- 9.測試 FTP server
- 10.編輯/etc/ main.cf

### 11. 建立收信資料夾



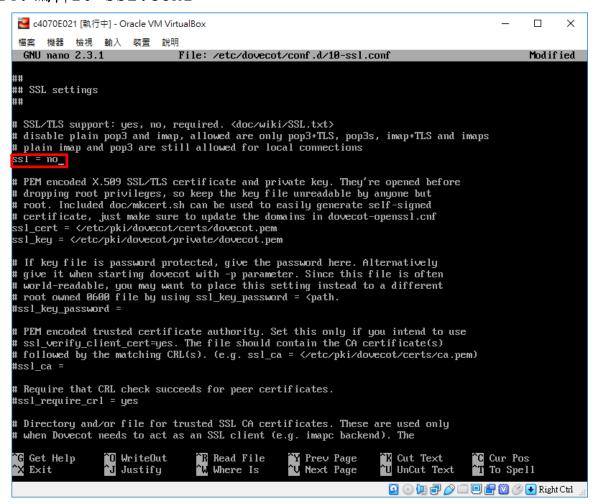
#### 12. 安裝 dovecot



#### 13. 編輯 dovecot.conf

```
翼 c4070E021 [執行中] - Oracle VM VirtualBox
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  檔案 機器 檢視 輸入 裝置 說明
   GNU nano 2.3.1
                                                            File: /etc/dovecot/dovecot.conf
                                                                                                                                                                                Mod if ied
## Dovecot configuration file
   If you're in a hurry, see http://wiki2.dovecot.org/QuickConfiguration
    "dovecomf -n" command gives a clean output of the changed settings. Use it
    instead of copy&pasting files when posting to the Dovecot mailing list.
   '#' character and everything after it is treated as comments. Extra spaces and tabs are ignored. If you want to use either of these explicitly, put the value inside quotes, eg.: key = "# char and trailing whitespace "
# Most (but not all) settings can be overridden by different protocols and/or
# source/destination IPs by placing the settings inside sections, for example:
# protocol imap { }, local 127.0.0.1 { }, remote 10.0.0.0/8 { }
# Default values are shown for each setting, it's not required to uncomment # those. These are exceptions to this though: No sections (e.g. namespace {}) # or plugin settings are added by default, they're listed only as examples. # Paths are also just examples with the real defaults being based on configure # options. The paths listed here are for configure --prefix=/usr # --sysconfdir=/etc --localstatedir=/var
 # Protocols we want to be serving.
protocols = pop3
```

### 14. 編輯10-ssl.conf



#### 15. 編輯10-auth.conf

```
☑ c4070E021 [執行中] - Oracle VM VirtualBox

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                                                                                                    檔案 機器 檢視 輸入 裝置 說明
 GNU nano 2.3.1
                               File: /etc/dovecot/conf.d/10-auth.conf
                                                                                                   Mod if ied
 Time to delay before replying to failed authentications.
#auth_failure_delay = 2 secs
# Require a valid SSL client certificate or the authentication fails.
#auth_ssl_require_client_cert = no
 Take the username from client's SSL certificate, using X509_NAME_get_text_by_NID() which returns the subject's DN's
# CommonName.
#auth_ssl_username_from_cert = no
 Space separated list of wanted authentication mechanisms:
   plain login digest-md5 cram-md5 ntlm rpa apop anonymous gssapi otp skey
t yss-spnego
t NOTF: See also disable_plaintext_auth setting.
auth_mechanisms = plain login
```

#### 16. 編輯10-mail.conf

```
🌌 c4070E021 [執行中] - Oracle VM VirtualBox
                                                                                                                                   ×
 檔案 機器 檢視 輸入 裝置 說明
  GNU nano 2.3.1
                                         File: /etc/dovecot/conf.d/10-mail.conf
                                                                                                                                   Mod if ied
## Mailbox locations and namespaces
# Location for users' mailboxes. The default is empty, which means that Dovecot
# tries to find the mailboxes automatically. This won't work if the user
# doesn't yet have any mail, so you should explicitly tell Dovecot the full
  location.
# If you're using mbox, giving a path to the INBOX file (eg. /var/mail/%u)
# isn't enough. You'll also need to tell Dovecot where the other mailboxes are
# kept. This is called the "root mail directory", and it must be the first
  path given in the mail_location setting.
  There are a few special variables you can use, eg.:
     zu - username
     %n - user part in user@domain, same as %u if there's no domain
     %d - domain part in user@domain, empty if there's no domain
     ×h - home directory
   See doc/wiki/Variables.txt for full list. Some examples:
     mail_location = maildir:~/Maildir
     mail_location = mbox:"/mail:1NBOX=/var/mail//u
mail_location = mbox:/var/mail//d/x1n/xn:INDEX=/var/indexes//d//x1n/xn
   \langle doc/wiki/MailLocation.txt \rangle
 nail_location = maildir:~/Maildir
```

# 17.啟動 postfix, dovecot

- 18. 新增 email account
- 19. 寫信寄出給自己
- 20. Maildir 資料夾內容
- 21. 收信