

FTP Server(vsftpd)

Chapter 05

主講人：宜蘭區網中心 陳建宏
電子郵件：joechen@niu.edu.tw

大綱

- vsftpd 簡介
- 系統環境
- vsftpd Server 安裝
- vsftpd Server 設定檔
- 建立FTP 使用者
- IPv6 FTP Server 測試
- 參考資料

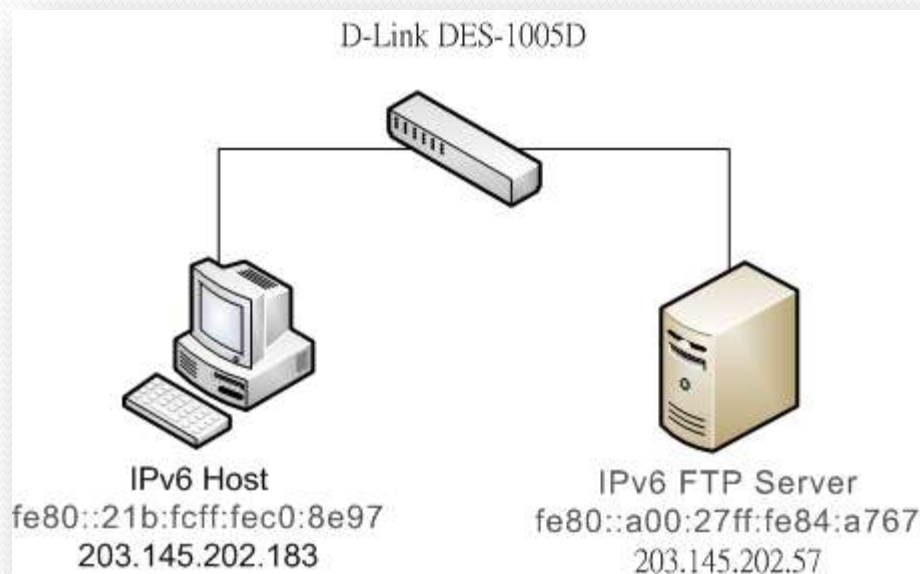
vsftpd 簡介

- vsftpd全名為 Very Secure FTP Daemon，是以安全性的角度去設計的一個 FTP Server。
- 提供了完善的安全性，容易上手的特性也使它逐漸成為一個常用的 FTP Server。
- 以下將示範如何架起一個 IPv6 的 FTP Server。

系統環境

- 系統環境：
 - IPv6 FTP Server: CentOS 5.3
 - IPv6 Host: Windows XP
 - Switch : D-Link DES-1005D

- 系統架構圖：



vsftpd Server 安裝

- 在命令列使用yum安裝vsftpd
 - #yum install vsftpd

```
[root@localhost ~]# yum install vsftpd_
```

vsftpd Server 安裝

- 安裝完成之畫面

```
Transaction Summary
=====
Install      0 Package(s)
Update       1 Package(s)
Remove       0 Package(s)

Total download size: 139 k
Is this ok [y/N]: y
Downloading Packages:
vsftpd-2.0.5-12.el5_3.1.i386.rpm                | 139 kB    00:00
warning: rpmts_HdrFromFdno: Header U3 DSA signature: NOKEY, key ID e8562897
Importing GPG key 0xE8562897 "CentOS-5 Key (CentOS 5 Official Signing Key) <cent
os-5-key@centos.org>" from /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-5
Is this ok [y/N]: y
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Updating      : vsftpd                [1/2]
  Cleanup       : vsftpd                [2/2]

Updated: vsftpd.i386 0:2.0.5-12.el5_3.1
Complete!
[root@localhost ~]# _
```

vsftpd Server 設定檔

- 位置：/etc/vsftpd/vsftpd.conf
- 修改設定檔
 - #vim /etc/vsftpd/vsftpd.conf

```
[root@localhost ~]# vim /etc/vsftpd/vsftpd.conf _
```

vsftpd Server 設定檔

- 將裡面的 `listen=YES` 註解、`#listen_ipv6=YES` 反註解，如下圖

```
# users to NOT chroot().
#chroot_list_enable=YES
# (default follows)
#chroot_list_file=/etc/vsftpd/chroot_list
#
# You may activate the "-R" option to the builtin ls. This is disabled by
# default to avoid remote users being able to cause excessive I/O on large
# sites. However, some broken FTP clients such as "ncftp" and "mirror" assume
# the presence of the "-R" option, so there is a strong case for enabling it.
#ls_recurse_enable=YES
#
# When "listen" directive is enabled, vsftpd runs in standalone mode and
# listens on IPv4 sockets. This directive cannot be used in conjunction
# with the listen_ipv6 directive.
#listen=YES
#
# This directive enables listening on IPv6 sockets. To listen on IPv4 and IPv6
# sockets, you must run two copies of vsftpd with two configuration files.
# Make sure, that one of the listen options is commented !!
listen_ipv6=YES
pam_service_name=vsftpd
userlist_enable=YES
tcp_wrappers=YES
"/etc/vsftpd/vsftpd.conf" 116L, 4397C                               116,1                               Bot
```

設定檔畫面

vsftpd Server 設定檔

- 重新啟動vsftpd以便生效
 - `#/etc/init.d/vsftpd restart`

```
[root@localhost ~]# /etc/init.d/vsftpd restart
Shutting down vsftpd:                [ OK ]
Starting vsftpd for vsftpd:          [ OK ]
[root@localhost ~]#
```

建立FTP使用者

- 建立一個新的 user : ftpuser , 並設定其密碼
 - #adduser ftpuser

```
[root@localhost mail]# adduser ftpuser
[root@localhost mail]# passwd ftpuser
Changing password for user ftpuser.
New UNIX password:
BAD PASSWORD: it is WAY too short
Retype new UNIX password:
passwd: all authentication tokens updated successfully.
```

- 將該使用者之家目錄加上x(執行)權限
 - #chmod u+x /home/ftpuser

建立FTP使用者

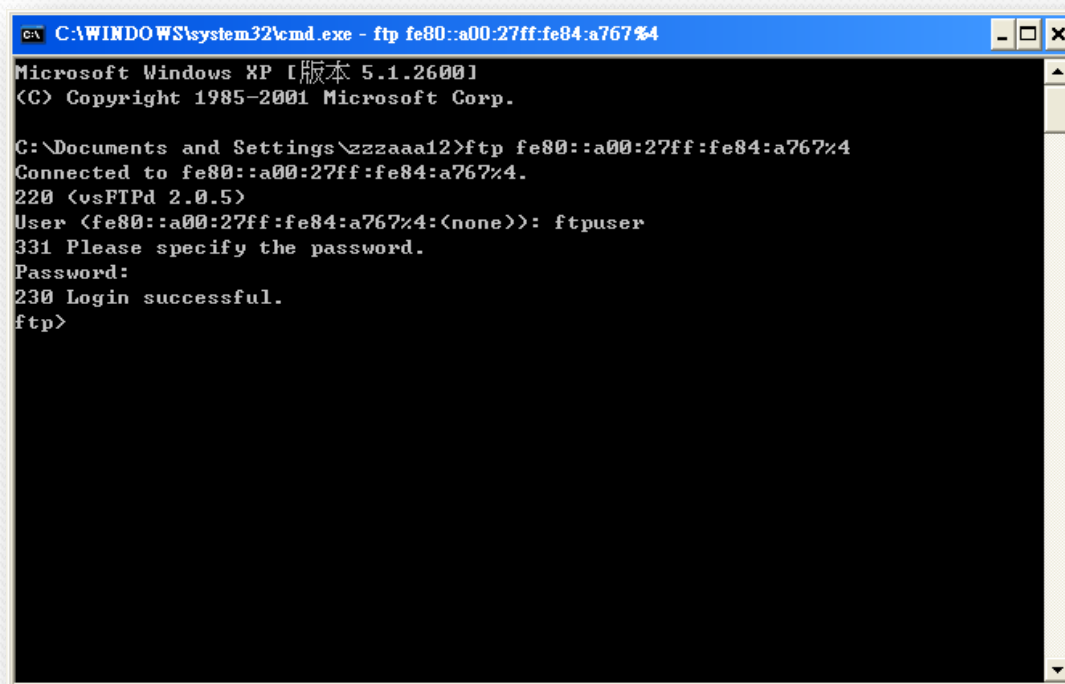
- 利用 `ls -al` 指令查詢權限設定前後的變化

```
[root@localhost ~]# cd /home/
[root@localhost home]# ls -al
total 28
drwxr-xr-x  4 root    root    4096 Aug  4 04:34 .
drwxr-xr-x 23 root    root    4096 Aug  4 04:00 ..
drw-----  3 ftpuser ftpuser 4096 Aug  4 04:34 ftpuser
drwx-----  3 za      za      4096 Aug  3 15:01 za
[root@localhost home]# chmod u+x ftpuser
[root@localhost home]# ls -al
total 28
drwxr-xr-x  4 root    root    4096 Aug  4 04:34 .
drwxr-xr-x 23 root    root    4096 Aug  4 04:00 ..
drwx-----  3 ftpuser ftpuser 4096 Aug  4 04:34 ftpuser
drwx-----  3 za      za      4096 Aug  3 15:01 za
[root@localhost home]# _
```

使用者的權限從 `drw-----` 變成了 `drwx-----`

IPv6 FTP Server 測試

- 利用 XP 內建的 ftp 程式直接連線到Server 端的 port 21 做測試



```
C:\WINDOWS\system32\cmd.exe - ftp fe80::a00:27ff:fe84:a767%4
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\zzzaaa12>ftp fe80::a00:27ff:fe84:a767%4
Connected to fe80::a00:27ff:fe84:a767%4.
220 (vsFTPd 2.0.5)
User (fe80::a00:27ff:fe84:a767%4:(none>): ftpuser
331 Please specify the password.
Password:
230 Login successful.
ftp>
```

順利透過IPv6連線到FTP Server

參考資料

- http://linux.vbird.org/linux_server/0410vsftpd.php



END