

Web Server (Apache)

Chapter 03

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

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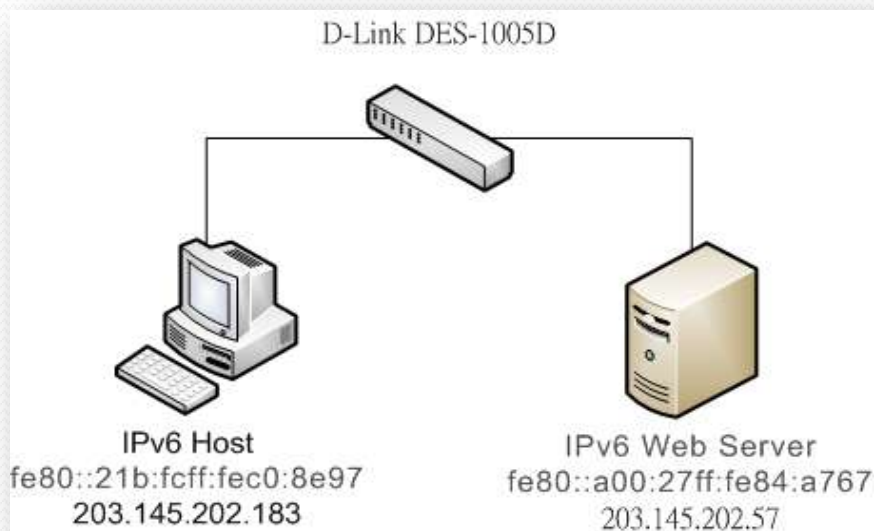
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Apache 簡介

- Apache 是 Unix-like OS 中最常見的 Web Server，目前 Apache2 已經直接預設支援 IPv6/IPv4 的 Dual Stack 運作，在 CentOS5.3 的 Apache 2.2.3-22 也是如此
- 以下示範如何安裝一個支援 IPv6 的 Web Server

系統環境

- 系統環境：
 - IPv6 Web Server: CentOS 5.3
 - IPv6 Host: Windows XP
 - Switch : D-Link DES-1005D
 - Browser: Internet Explorer 8.0
- 系統架構圖：



Apache Server 安裝

- 在命令列使用yum安裝Apache
 - #yum install httpd

```
[root@localhost ~]# yum install httpd
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: centos.cs.nctu.edu.tw
 * updates: centos.ustc.edu.cn
 * addons: centos.cs.nctu.edu.tw
 * extras: centos.cs.nctu.edu.tw
base                               | 1.1 kB      00:00
updates                            | 951 B       00:00
primary.xml.gz                     | 263 kB      00:34
updates                             400/400
addons                              | 951 B       00:00
extras                              | 1.1 kB      00:00
Setting up Install Process
Parsing package install arguments
-
```

Apache Server 安裝

- 安裝完成畫面

```
Package Arch Version Repository Size
-----
Installing:
httpd i386 2.2.3-22.el5.centos.2 updates 1.2 M

Transaction Summary
-----
Install 1 Package(s)
Update 0 Package(s)
Remove 0 Package(s)

Total download size: 1.2 M
Is this ok [y/N]: y
Downloading Packages:
httpd-2.2.3-22.el5.centos.2.i386.rpm | 1.2 MB 02:38
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
Installing : httpd [1/1]

Installed: httpd.i386 0:2.2.3-22.el5.centos.2
Complete!
[root@localhost ~]# _
```

Apache Server 設定檔

- 位置：/etc/httpd/conf/httpd.conf
- Apache 預設已支援IPv4/IPv6雙協定運行

```
# Listen: Allows you to bind Apache to specific IP addresses and/or
# ports, in addition to the default. See also the <VirtualHost>
# directive.
#
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses (0.0.0.0)
#
#Listen 12.34.56.78:80
Listen 80

#
# Dynamic Shared Object (DSO) Support
#
# To be able to use the functionality of a module which was built as a DSO you
# have to place corresponding 'LoadModule' lines at this location so the
# directives contained in it are actually available _before_ they are used.
# Statically compiled modules (those listed by 'httpd -l') do not need
# to be loaded here.
#
# Example:
# LoadModule foo_module modules/mod_foo.so
#
LoadModule auth_basic_module modules/mod_auth_basic.so
LoadModule auth_digest_module modules/mod_auth_digest.so
```

149,1 12%

設定檔畫面

IPv6 Web Server 測試

- 位址設定
 - Server: fe80::a00:27ff:fe84:a767
 - Host: fe80::21b:fcff:fec0:8e97
- Host端介面
 - 使用ipconfig得知介面為%11

```
C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\zzzaaa12>ipconfig

Windows IP Configuration

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . : 
    Autoconfiguration IP Address. . . : 169.254.150.63
    Subnet Mask . . . . . : 255.255.0.0
    IP Address. . . . . : fe80::a00:27ff:fe00:4045%10
    Default Gateway . . . . . : 

Ethernet adapter 區域連線:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 203.145.202.183
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 2001:e10:1440:1:79b5:8324:4f0f:5172
    IP Address. . . . . : 2001:e10:1440:1:21b:fcff:fec0:8e97
    IP Address. . . . . : fe80::21b:fcff:fec0:8e97%11
    Default Gateway . . . . . : 203.145.202.254
                                fe80::20a:8aff:fef0:d370%11

Tunnel adapter Teredo Tunneling Pseudo-Interface:
```


IPv6 Web Server 測試

- 如下圖，成功以IPv6位址連接到Server



參考資料

- http://linux.vbird.org/linux_server/0360apache.php



END