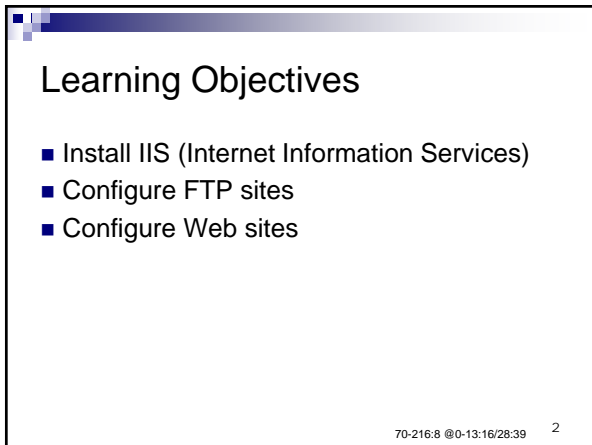


Configuring Internet-related services

(November 30, 2016)

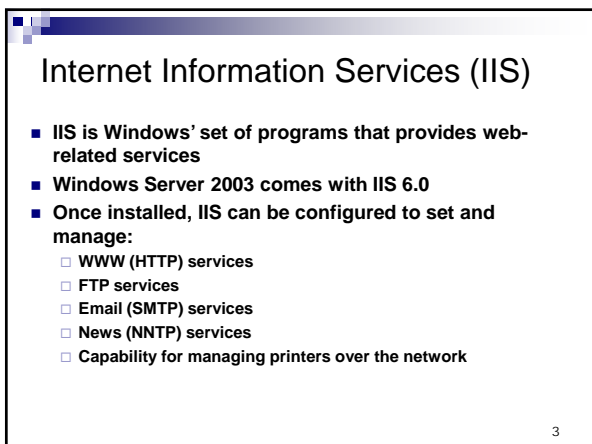
© Abdou Illia, Fall 2016 1



Learning Objectives

- Install IIS (Internet Information Services)
- Configure FTP sites
- Configure Web sites

70-216.8 @0-13:16/28:39 2



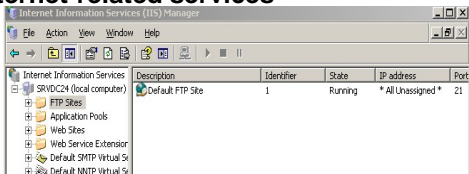
Internet Information Services (IIS)

- IIS is Windows' set of programs that provides web-related services
- Windows Server 2003 comes with IIS 6.0
- Once installed, IIS can be configured to set and manage:
 - WWW (HTTP) services
 - FTP services
 - Email (SMTP) services
 - News (NNTP) services
 - Capability for managing printers over the network

3

Installing & Configuring IIS

- Unlike previous versions, IIS 6.0 is not automatically installed.
- Add or Remove Prog. is used to install IIS
- After IIS is installed, the IIS Manager can be used to configure and manage all Internet-related services



4

Hands-on 1: Install IIS Manager

- Use Add or Remove Programs to install IIS with the following components available in Application Server/IIS:
 - Common files
 - FTP service
 - IIS Manager
 - Internet printing
 - NNTP service
 - SMTP service
 - WWW service

5

Configuring the Default FTP site 1

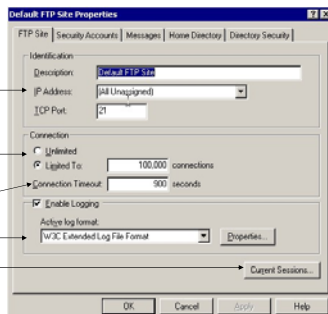
Can decide which IP address to use for the FTP server if you have multiple NICs or multiple IP addresses assigned to your single NIC.

Can limit the number of concurrent connections to your FTP server.

Can decide how much inactive time is allowed.

Can keep track of connections to your FTP server.

Can check who are currently connected

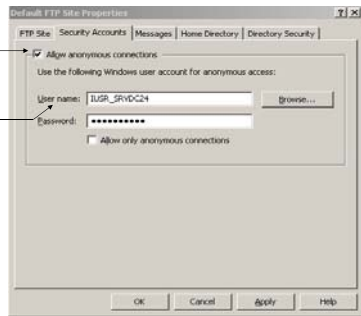


6

Configuring the Default FTP site 2

Having anonymous connections could be more secure for users because they avoid the risk to have their password intercepted.

Default username for anonymous connections



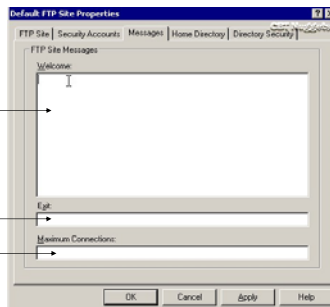
7

Configuring the Default FTP site 3

Can type in a Welcome message that will appear to users when they connect to your FTP server.

Can type in an Exit message that will appear to users when they log off.

Can have message that will appear to users who will try to connect to your FTP server after the maximum number of connections is reached.



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Configuring the Default FTP site 4

Directory where the FTP files are located. Any file put in that directory will be available to users

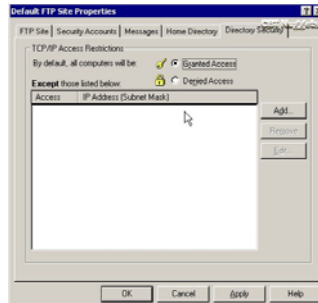
You can set the permissions for users. You can let them to download files from the server (Read), upload files to the server (Write).



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Configuring the Default FTP site 5

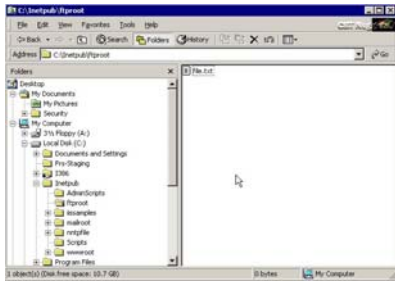
Can decide which computers are granted or denied access to your FTP server.



10

Making files available for download

- After configuring the FTP site, files have to be copied to the FTP Site directory for users to download.



11

Transferring files with commands

- After configuring the FTP site, users can connect to the FTP server and transfer files using the command prompt

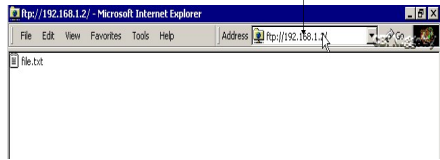
```
C:\WINNTSRV\System32>cmd.exe
Microsoft Windows [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>ftp 192.168.1.2
Connected to 192.168.1.2.
220 dcnuget Microsoft FTP Service (Version 5.0).
User (192.168.1.2:(none)): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 Welcome to our FTP Server.
230 Anonymous user logged in.
ftp>dir
200 PORT command successful.
150 Opening ASCII mode data connection for /bin/ls.
11-07-00 01:31PM           15 File.txt
226 Transfer complete.
ftp> 49 bytes received in 0.00Seconds 49000.00Kbytes/sec.
ftp>exit
Invalid command.
ftp>bye
221 Goodbye
C:\>
```

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Transferring files using a web browser

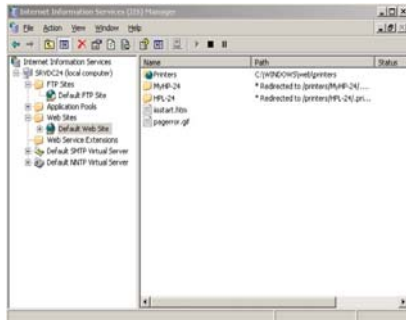
- After configuring the FTP site, users can connect to the FTP server and transfer files using their web browser



13

Configuring a web site 1

- When IIS is installed, a default Web site is created.



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Configuring the Default web site 2

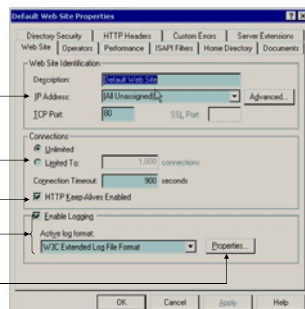
If you have multiple IP addresses, you can create a Web site with a different name (Description) for each IP address.

Can limit the number of concurrent connections to your www server.

Can allow your clients to maintain their connection to your Web server instead of a new connection for each request.

Can keep track of connections to your www server.

You can see & modify the log file options

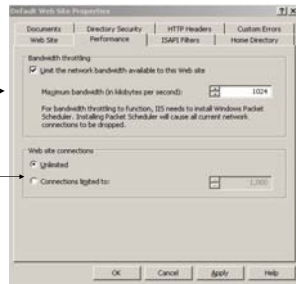


15

Configuring the Default web site 3

Can limit the amount of bandwidth used by your server.

Can tune the performance of your Web server based on the number of visitors. Should make it as close as the actual situation so that the Web server uses just the amount of resources required to operate properly.

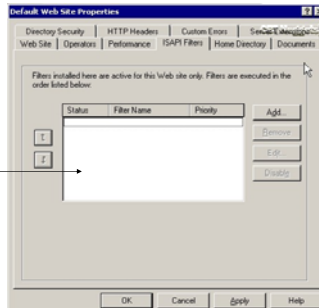


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Configuring the Default web site 4

ISAPI filters are programs that will execute in response to HTTP requests.

Can decide what filter to use



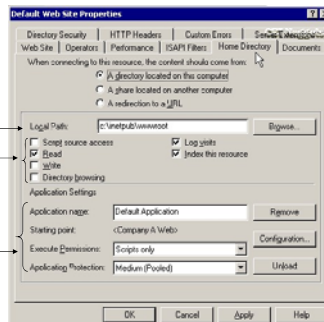
17

Configuring the Default web site 5

Directory where the Web server files are located

Can decide what level of access for visitors.

Can decide what settings for any IIS Web-based applications.

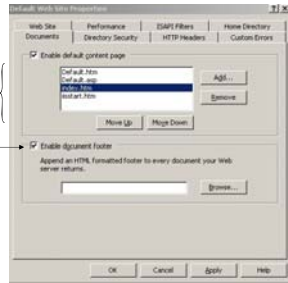


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Configuring the Default web site 6

Can enable and specify default Web pages

Can configure your Web server to automatically append a footer to every document your Web server returns. The footer file should not be a complete HTML document. It should include only HTML tags that are necessary to format the appearance and function of your footer content.



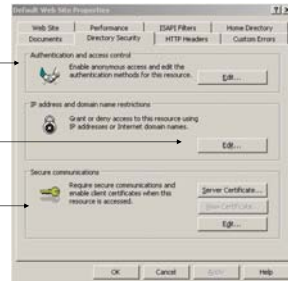
19

Configuring the Default web site 7

Can authorize Anonymous access (default) using the IUSR account or allow access to users with user accounts in the domain.

Can restrict access to specific IP or range of IP addresses.

Can require secure communications with certificate use for the website.



20

Configuring the Default web site 8

Can decide whether or not to send information (like content expiration date or some custom commands) in the HTTP header to the web browser.

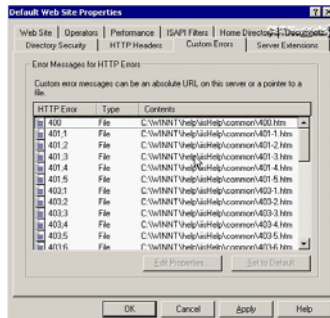
Can set ratings for your Web site users



21

Configuring the Default web site 9

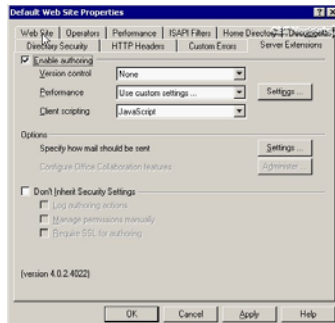
Can configure the server to specify custom error messages



22

Configuring the Default web site 10

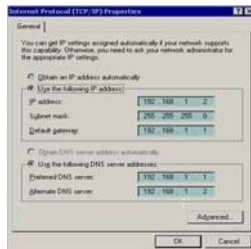
Server Extensions are related to FrontPage server extensions. You can allow people to use FrontPage to edit the Web site



23

Adding virtual IP addresses

1. Access your local network adapter's properties



2. Click the Advanced button, and add two additional IP addresses.

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