

IIS 7.0 - FTP Publishing Service - Part 2: Configuration

This article will cover different configuration scenarios for the new FTP Publishing Service for IIS 7.0.



IIS 7.0 - FTP Publishing Service - Part 1: Installation

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This article will cover different configuration scenarios for the new FTP Publishing Service for IIS 7.0. The prerequisites for this article are that the FTP Publishing Service is already installed on Windows Server 2008. Part 1 of this series saw how to download and install this new version of the FTP Publishing Service. The next section will introduce you to two main configuration topics:

1. How to configure a new FTP site
2. How to add FTP Publishing to an existing website

Both of these topics will involve FTP configuration using GUI and command line management tools.

Using FTP may differ slightly, this difference depends on the use case and the requirements for FTP in the organization. Therefore, I will show you some of these different scenarios.

Configure a new FTP site

There are many ways to configure a new FTP site with IIS 7.0 and the new FTP Publishing Service, you can change or add an FTP site directly in the xml configuration files or by using a script.

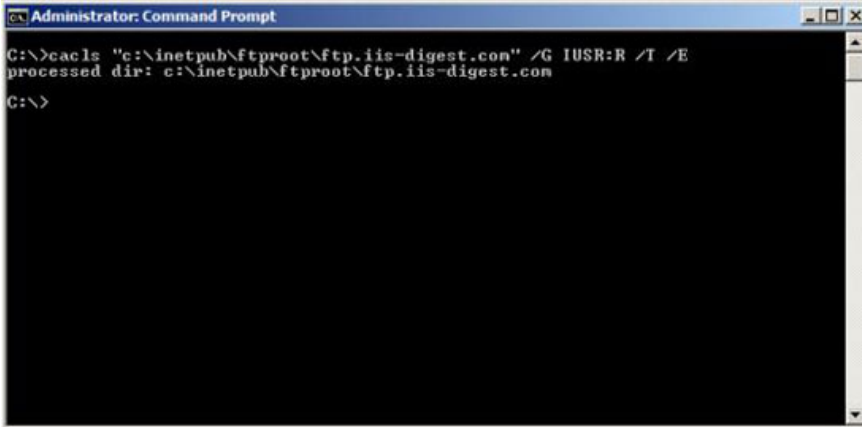
The first part of this section will introduce FTP configuration 'how to use the GUI' using the IIS Manager tool and in part two will introduce configuring FTP using the command line interface. Both ways give the same result, which is a new FTP site.

Create a new folder

A new folder needs to be prepared for FTP Publishing. Now you can easily create a folder before continuing with the FTP configuration. Make sure the directory is configured with the correct permissions. The directory used in this example is: '*D: Inetpubftprootftp.iis-digest.com*'.

1. Create folder *D: Inetpubftprootftp.iis-digest.com*
2. Set the directory permissions using the `cacls` command through the command prompt:

CACLS "C: inetpubftprootftp.iis-digest.com" /G IUSR: R / T / E



```
Administrator: Command Prompt
C:\>cacls "c:\inetpub\ftproot\ftp.iis-digest.com" /G IUSR:R /T /E
processed dir: c:\inetpub\ftproot\ftp.iis-digest.com
C:\>
```

Figure A: Command prompt window and cacls command

The above command changes the permissions on the *ftp.iis-digest.com* directory and adds the read and execute permissions for the IUSR account.

IUSR user is a new account in Windows Server 2008 that is used for IIS 7.0, replacing the old *IUSR_machinename* account that was *included* with Windows Server 2003 and IIS 6.0 previously.

FTP configuration

1. Start IIS Manager at **Start - Administrative Tools - Internet Information Service (IIS) Manager** .
2. In IIS Manager, under Sites, click **Add FTP Site** .

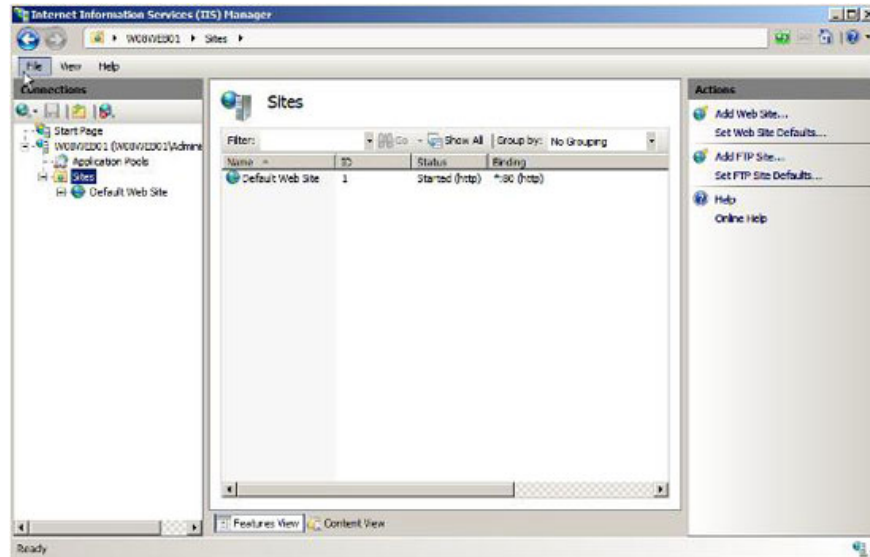


Figure B: Adding FTP Site .

3. Add FTP Site Wizard to be called and in the first dialog box, enter the **FTP Site** name and physical path, created earlier:

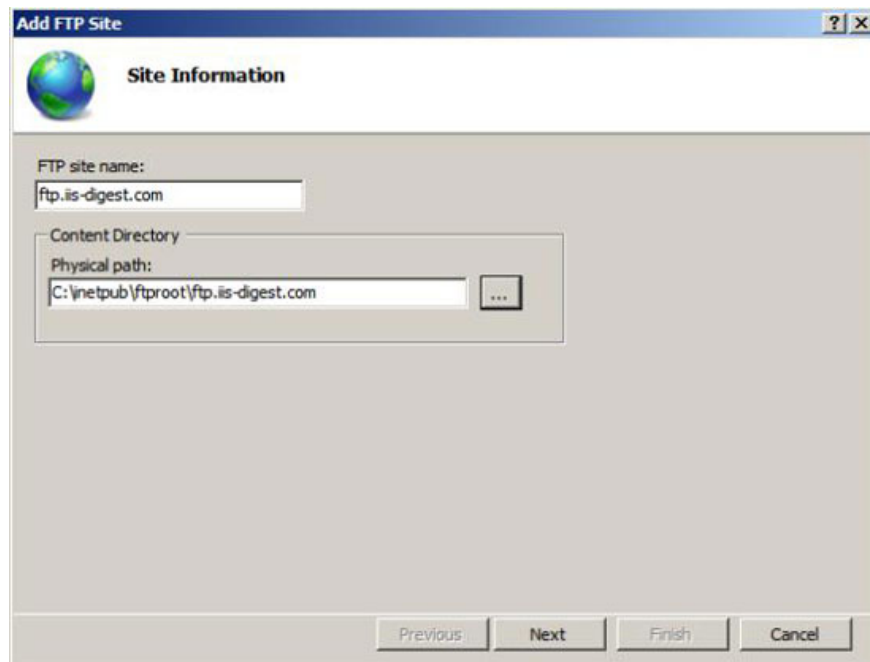


Figure C: Add FTP Site Wizard - enter the site information

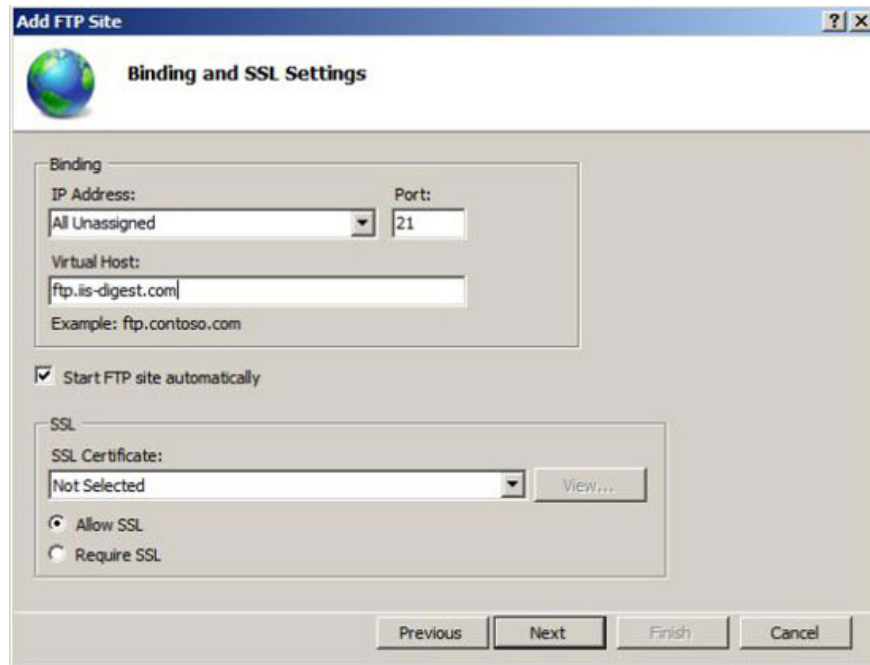


Figure D: Add FTP Site Wizard - Enter Binding and SSL settings

4. Enter the IP address information for the FTP Site and pair the port, using the default port 21. In case you know that you are working and if your application may need to use another port instead of this default port, you can change it here.

5. There is a new problem with FTP Publishing Service that it supports virtual host naming, which is similar to using host headers on a website. A virtual host (virtual host) like *ftp.iis-digest.com* means that it allows multiple FTP sites to be configured on an IP address and there are no conflicts with the connection.

6. SSL is also a new feature supported by FTP Publishing Service, by combining SSL and FTP, the server will provide FTPS support. By selecting an SSL certificate during the configuration process, the FTP Site will be provided as a secure site, so all traffic will be encrypted. Since there is no SSL certificate for this FTP site, the above example will be 'Allow SSL'.

7. Set up anonymous authentication to provide anonymous access to the new ftp site used as an example in this article.

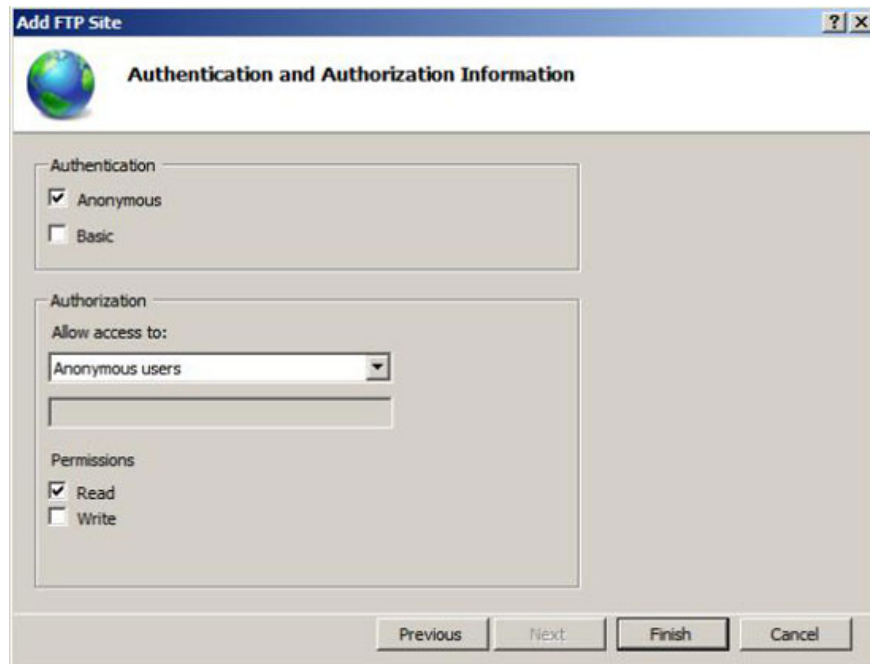


Figure E: Add FTP Site Wizard - Set up authentication and permissions information

8. Add the permissions settings used for this ftp site, set it to ' *Anonymous users* ' and Read (only) terms.
9. The new ftp site has been configured and can be seen in IIS Manager

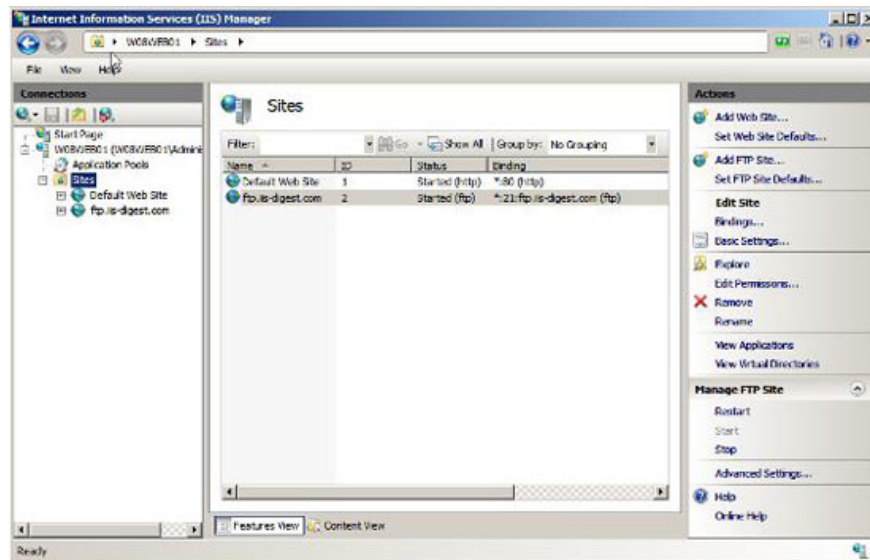


Figure F: IIS Manager - the image of the new ftp site

10. Check the new FTP site: in this example we log into the test site *ftp.iis-digest.com* with an anonymous user. With FTP 7 using virtual headers, the login needs to be formatted like this: '*ftp.iis-digest.com / anonymous*':

```
Administrator: Command Prompt - ftp ftp.iis-digest.com
C:\>ftp ftp.iis-digest.com
Connected to ftp.iis-digest.com.
220 Microsoft FTP Service
User (ftp.iis-digest.com:(none)): ftp.iis-digest.com:anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
ftp> dir
200 PORT command successful.
125 Data connection already open; Transfer starting.
03-31-08 12:01AM <DIR>          aspnet_client
03-30-08 11:33PM             609 iisstart.htm
03-30-08 11:33PM          184946 welcome.png
226 Transfer complete.
ftp: 159 bytes received in 0.00Seconds 159000.00Kbytes/sec.
ftp>
```

Figure G: Command prompt window - ftp connection test

There are many ways to configure users for an ftp site in a secure way and it is not recommended to use anonymous authentication levels in production. The FTP protection issue will be covered in the next part of this series.

Configure the new FTP site with script and command line

With IIS 7.0 and the new FTP 7, you can completely script and automate a lot of management operations of IIS and FTP. This section will show you how to perform the creation and configuration of the new FTP site using the command line and script.

Using the new command line tool AppCMD.exe, the command and parameters for creating a new FTP site are:

```
appcmd add site /name:"ftp.iis-digest.com ftpsite" /bindings:ftp://ftp.iis-digest.com:21 /physicalpath:"c:\inetpub\ftproot\ftp.iis-digest.com" /ftpServer.security.ssl.dataChannelPolicy:SslAllow "
```

```
Administrator: Command Prompt
C:\Windows\System32\inetsrv>appcmd add site /name:"ftp.iis-digest.com ftpsite" /
bindings:ftp://ftp.iis-digest.com:21 /physicalpath:"c:\inetpub\ftproot\ftp.iis-d
igest.com"
SITE object "ftp.iis-digest.com ftpsite" added
APP object "ftp.iis-digest.com ftpsite/" added
UDIR object "ftp.iis-digest.com ftpsite/" added
C:\Windows\System32\inetsrv>_
```

Figure H: Command prompt window - using appcmd management tool

Also, it can be done using new PowerShell and PowerShell Provider for IIS 7.0. You need to install PowerShell 1.0 on Windows Server 2008 with the new PowerShell Provider for IIS 7.0. PowerShell Provider can be

downloaded from www.iis.net. Both need to be installed to provide connectivity and commands to manage IIS 7.0 and FTP 7 using PowerShell.

There is also a more programmable interface for IIS 7.0 management, the interface is Microsoft.Web.Administration. For more information about this interface, please look at the official IIS website (www.iis.net), in this article we will not mention it.

Add FTP Publishing to an existing website

With IIS 7.0 and the new FTP Publishing Service, it is possible to add FTP to an existing website directly from within IIS Manager. This is a great new feature in IIS. This means that in existing hosting environments, it will be much easier to add FTP access to a website running on the web server.

With the new FTP Publishing Service, you can easily publish an FTP to an existing website and this can be done directly from within IIS Manager. In the example below, an FTP site will be added to the default website.

1. Open ' Sites ' and find the website you want to add the FTP function to, in this example, the site name is ' **Default Web Site** '
2. Check the website (Default Web Site) and click or from the Action panel, select ' **Add FTP Publishing .** ':

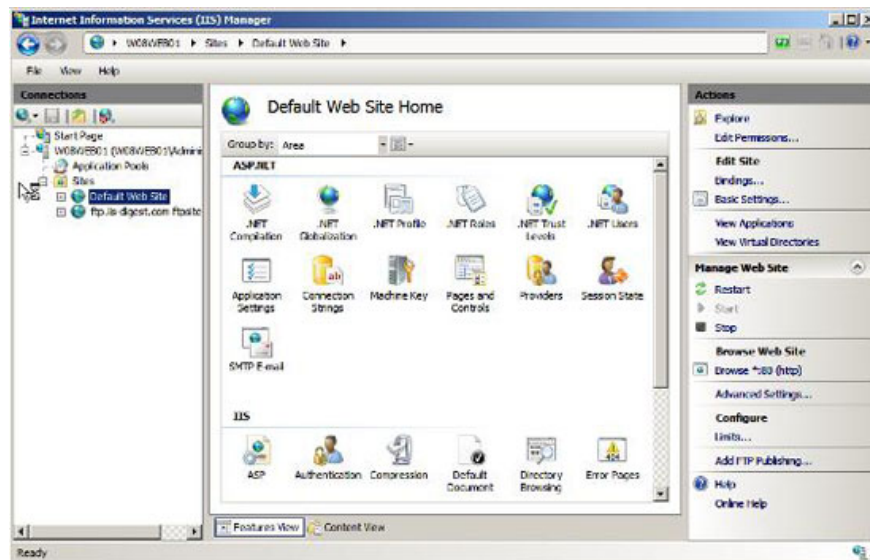


Figure I: IIS Manager - Select Add FTP Publishing .

3. An Add FTP Publishing Wizard dialog box will appear with the first page as ' **Binding and SSL Settings** ':

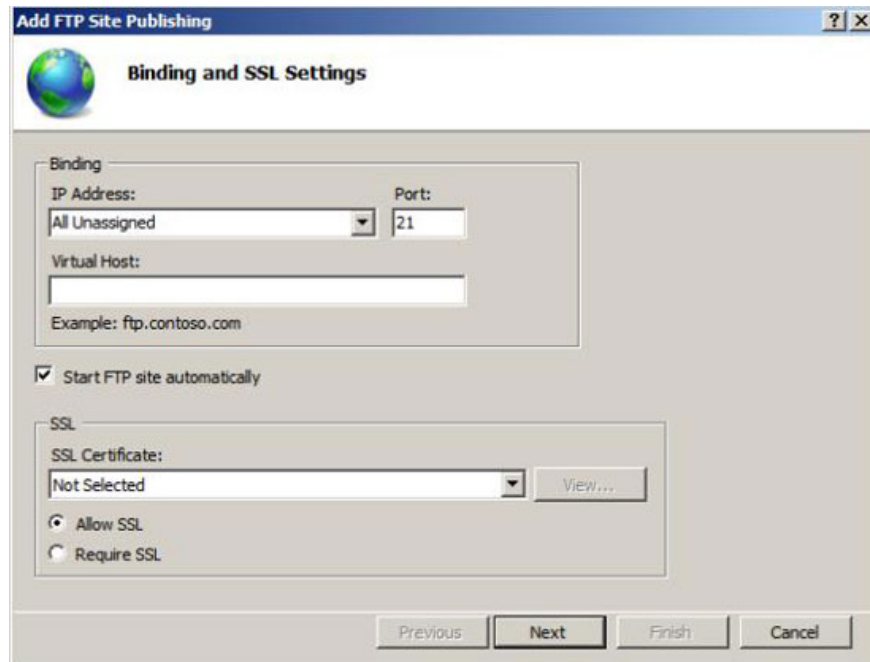


Figure J: Add FTP Site Wizard - Enter Binding and SSL settings

4. **IP Address** : Select the IP address for your new FTP site, where you can select ' **All Unassigned** ' or enter the IP address, or choose from the drop-down menu. In this example we used ' **All Unassigned** '.

5. **Port** : The default FTP port is Port 21, which is also the port used in this example.

6. **Virtual Name** : It is possible to use the host header for the FTP site as we know from the host header on the website and from the first example. In this example, it will be left blank, which means that it will respond to the IP address.

7. Select ' **Allow SSL** ' because there is no SSL certificate to add to the ftp site.

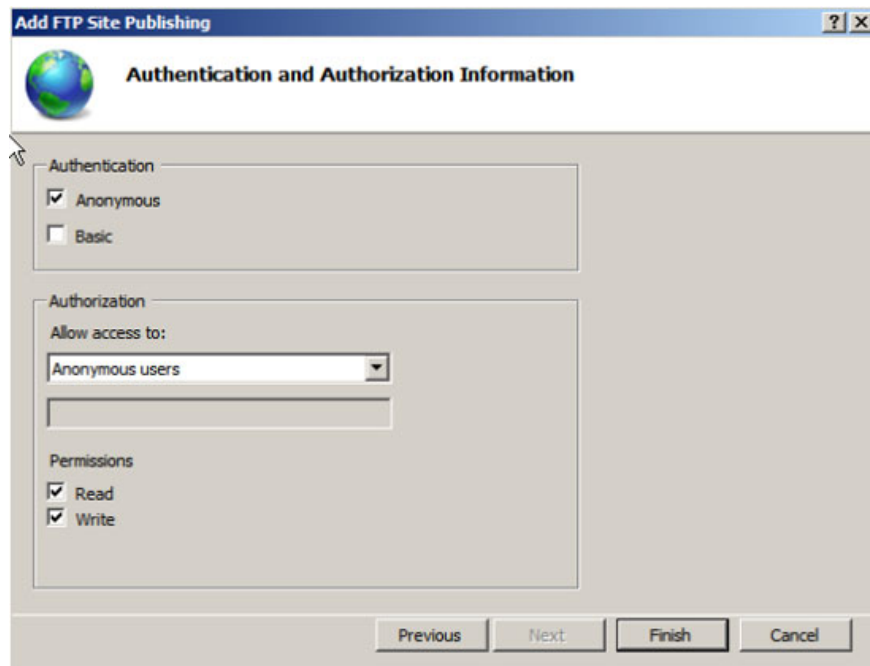


Figure K: Add FTP Site Wizard - Enter authentication and permissions

8. Select Basic or Anonymous authentication method for your ftp site, do not use anonymous. However, in this example we put anonymously because it is just a test site.

FTP is currently added to the existing Default web site. Check the ftp connection by connecting to the IP address or with the server using localhost.

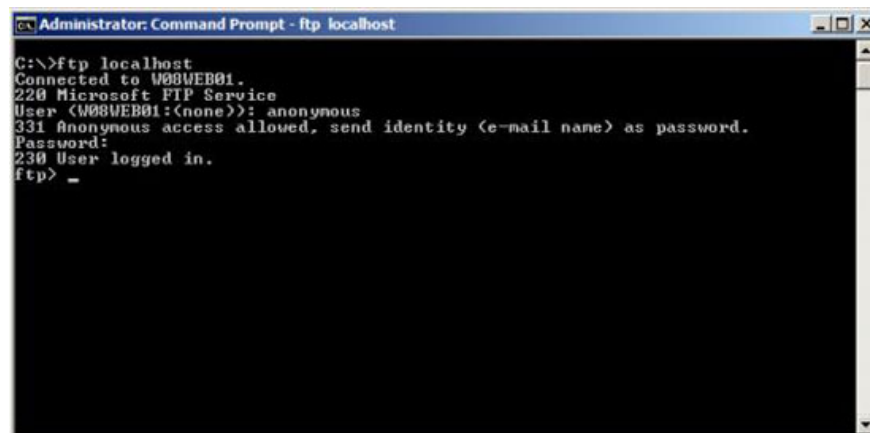


Figure L: Check the FTP connection

Conclude

This article showed you how to configure a new FTP site and how to add FTP Publishing to an existing website. Configuration is done using IIS Manager and is also shown that it can be done via the new command line interface appcmd.exe.

In Part 3 and the last part of this series, we will introduce you to FTP security and how to secure the FTP Publishing Service.

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