# Lab - Exploring FTP

### **Objectives**

Part 1: Use FTP from a Command Prompt

Part 2: Download an FTP File Using WS\_FTP LE

Part 3: Use FTP in a Browser

### **Background / Scenario**

The File Transfer Protocol (FTP) is part of the TCP/IP suite. FTP is used to transfer files from one network device to another network device. Windows includes an FTP client application that you can execute from the command prompt. There are also free graphical user interface (GUI) versions of FTP that you can download. The GUI versions are easier to use than typing from a command prompt. FTP is frequently used for the transfer of files that may be too large for attachment with an email.

When using FTP, one computer is normally the server and the other computer is the client. When accessing the server from the client, you need to provide a username and password. Some FTP servers have a user named **anonymous**. You can access these types of sites by simply typing "anonymous" for the user, without a password. Usually, the site administrator has files that can be copied but does not allow files to be posted with the anonymous user.

In this lab, you will learn how to use anonymous FTP from the Windows command-line C:\> prompt. You will also use the GUI-based FTP program, WS\_FTP LE. Finally, you will use an anonymous FTP in a browser.

#### **Required Resources**

1 PC (Windows 7, Vista, or XP with access to the command prompt and Internet access and WS\_FTP LE installed)

## Part 1: Use FTP from a Command Prompt

- a. Click the **Windows Start** button, type **cmd** in the search field, and press Enter to open a command window.
- b. At the C:\> prompt type ftp ftp.cdc.gov. At the prompt that says User (ftp.cdc.gov:(none)): type anonymous. For the password, do not type anything. Press Enter to be logged in as an anonymous user.

```
Microsoft Windows [Version 6.1.7600]
Copyright <c> 2009 Microsoft Corporation. All rights reserved.
C:\Users\User1>ftp ftp.cdc.gov
Connected to ftp.cdc.gov.
220 Microsoft FTP Service
User <ftp.cdc.gov:<none>>: anonymous
331 Anonymous access allowed, send identity <e-mail name> as password.
Password:
230 Anonymous user logged in.
ftp>______
```

Notice that the  $C: \$  prompt has been replaced with the ftp> prompt. Type **Is** to list the files and directories. At the time that this lab was authored, there was a Readme file.

ftp> ls			
200 PORT command successful.			
150 Opening ASCII mode data connection	for	file	list.
aspnet_client			
քսե			
Readme			

c. At the prompt, type **get Readme**. This downloads the file to your local computer from the anonymous FTP server that the Center for Disease Control has setup. The file will be copied into the directory shown in the C:\> prompt (C:\Users\User1 in this case).



d. Type quit to leave FTP and return to the C:\> prompt. Type more Readme to see the contents of the document.

ftp> quit 221	
C:\Users\User1>more Readme	
Welcome to the Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry FTP server. Information maintained on this server is in the public domain and is available at anytime for your use CDC/ATSDR requests that you provide a valid e-mail address when responding t the FTP server's password prompt.	
FTP POLICY	
CDC/ATSDR's file structure is designed to make information easily accessible for faster response. All FTP directories and sub-directories should contain the following files:	
README.TXT Contains general information and Disclaimer text. (ASCII)	

e. What is a drawback of using the FTP from the command line?

## Part 2: Download an FTP File Using WS\_FTP LE

In Part 2, you will download a file using WS\_FTP LE (a free FTP transfer tool).

a. Start **WS\_FTP LE**. If the Ipswitch WS\_FTP LE window displays, click **Next** to continue and skip to step c. Otherwise, click the **Open a Remote Connection** link.



b. Click Create Site....

🙆 Site Manager	<b>X</b>
🎉 Sites	<u>C</u> onnect
	Create Site
	Create <u>F</u> older
	<u>E</u> dit
	<u>R</u> ename
	Delete
	Close
	Help
Sites	

c. In the Site Name field, type Center for Disease Control and click Next to continue.

Connection Wizard	
	Site Name The Site Name is a label that helps you identify this site in the future. For Example: • My Auction Site • My Personal Web Site This name will appear when you click Connect at the top left.
	< <u>B</u> ack <u>Next</u> > Cancel

d. Click the **Connection Type** drop-down list, select **FTP** (the default connection type), and click **Next**.

Connection Wizard		×
FTP	Connection Type WS_FTP allows you to connect to different types of servers. NOTE: If the information provided by your ISP or server administrator does not mention the server type, select FTP. More About Connection Types	*
	Connection Type: FTP	
	< Back Next > Cance	el

e. In the Server Address field, type <u>ftp.cdc.gov</u>, and click Next.

Connection Wizard		×
	Server Address	^
	Every FTP server has a unique address known as the Server Address or Host Address.	
	For Example: mywebpages.comcast.net ftp.hometown.aol.com	
	Enter the server address provided by your Internet Service Provider (ISP) or your FTP server administrator.	
	Server Address: ftp.cdc.gov	÷
	< <u>B</u> ack <u>N</u> ext > Cance	el

f. In the User Name field, type anonymous, and leave the password field blank. Click Next.

Connection Wizard	
	User Name and Password FTP servers require a user name and password. Enter the user name and password provided by your Internet Service Provider (ISP) or the FTP server administrator. NOTE: Entering a password below is not required. If you choose to enter a password, WS_FTP will safely save that password for future connections to this site.
	User Name:
	Password:
	< <u>B</u> ack <u>N</u> ext > Cancel

g. Click Finish.



h. When the Login Information Missing dialog box displays, click **OK**. Do not type a password in the **Password** field.

🔐 Login	×
Login Information Missing WS_FTP needs login information in order to start the connection process. Enter the missing login information below. Enable the Save login information option to update and save your site login information.	*
, ∐serName	
anonymous	
Password	
✓ Save login information	
OK Cancel	

i. You are now anonymously connected to the Center for Disease Control FTP site.



- j. On the WS\_FTP LE toolbar menu under My Computer, click **New Folder** to create a folder on your local **C:\** drive.
- k. In the Make Directory dialog box name the folder as CDC and click OK.

**Note:** If the folder already exists, you can use the same folder or create another folder with a different name. If using the same CDC folder, you can replace the existing Readme file with the downloaded Readme file.

G Make directory	×
Create Directory	*
Enter a name for the new directory.	
	÷
CDC	
OK Cancel Help	

I. After the directory is created, in the My Computer tab page, double-click the directory to open it.

Ipswitch WS_FTP LE				
<sup>:</sup> <u>C</u> onnections <u>V</u> iew <u>T</u> ools <u>H</u> elp				
Connect Disconnect Options Views	Local Search 👳			
Address ftp://ftp.cdc.gov/		anonymous <u>P</u> asswor	d ••••	•••• Connect to
My Computer	$\triangleleft \triangleright \times$	Center for Disease Contro	bl	4
📕 🖬 c:\	역 🔄 Jp Folders 👳	🗾 / 💽 🔮 Up	Folders	Cancel Transfer Mod
Browse New Folder View Edit Execute fil	le Refresh 📮	Browse New Folder Vie	w Edit	Execute file Refresh
Name Size Type Modifie	ed 🛕 👝	Name	Size	Type Modified
Image: Security of the	011 9:45 AM E SOURCE 2011 2:19 2011 11:2	aspnet_client Jupub W3c		Folder 2/15/2012 9:40 Folder 2/26/2013 10:1 Folder 5/19/2010 11:4
Apache-Subver File f 6/4/20	012 2:06 PM	🔊 .change.dir	128	DIR 5/8/1995 11:00
Apps File f 12/14/	/2010 1:3	Marka Sage	107 1 K P	MES 5/8/199511:00
Config Msi File f 2/25/2	2013 9:01	Siteinfo	383	Binar 5/13/1999 11:5
in the fill 2/20/2	2011 12:1 👻	💽 up.htm	0	Firef 5/17/2005 6:52

m. Drag the file **Readme** from the right side of the application (the remote CDC FTP server) into the CDC folder on to the local **C:\** drive.

Ipswitch WS_FTP LE			
<sup>;</sup> <u>C</u> onnections <u>V</u> iew <u>T</u> ools <u>H</u> elp			
Connect Disconnect Options Views Local Search			
Address ftp://ftp.cdc.gov/	UserID anonymous Password     Connect to URL		
My Computer d b ×	Center for Disease Control		
C:\CDC	Up Folders Cancel Transfer Mode		
Browse New Folder View Edit Execute file Refresh	Browse New Folder View Edit Execute file Refresh		
Name Size Type Modified Att	Name Size Type Modified		
Readme 1 KB Binar 2/26/2013 3:01 A	Image: System of the		
۰	۰ III ۲		
1 object(s) - 1 KB ✔ Connected to ftp.cdc.gov 1 object(s) selected - 1 KB			

n. Double-click the **Readme** file in the C:\CDC folder on your local C:\ drive. If prompted for an application to open the document, choose any word processing software. You should see a message that looks something like this:

Welcome to the Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry FTP server. Information maintained on this server is in the public domain and is available at anytime for your use.

- o. Which was easier, using FTP from the cmd prompt, or using WS\_FTP LE?
- p. Click **Disconnect** to disconnect from the <u>ftp.cdc.gov</u> site when finished.
- q. The remote site will be removed from the saved list of FTP sites. In the Ipswitch WS\_FTP LE window, click the **Open a Remote Connection** link. Select the **Center for Disease Control** site, and click **Delete** to remove the FTP site. Click **Yes** to confirm the deletion. Click **Close** to exit the Site Manager.
- r. Remove the C:\CDC folder.

### Part 3: Use FTP in a Browser

It is possible to use a browser as an anonymous FTP client.

a. In a browser, type <u>ftp://ftp.cdc.gov/</u>.



b. Click the Readme file.



Welcome to the Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry FTP server. Information maintained on this server is in the public domain and is available at anytime for your use. CDC/ATSDR requests that you provide a valid e-mail address when responding to the FTP server's password prompt.

#### Reflection

- 1. Which FTP method was easiest to use?
- 2. Was there any advantage to using FTP from the command prompt or using WS\_FTP LE?