

Transfer files using a File Transfer Protocol (FTP) solution

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Have you ever wondered how companies move large amounts of files across the internet in a secure manner?

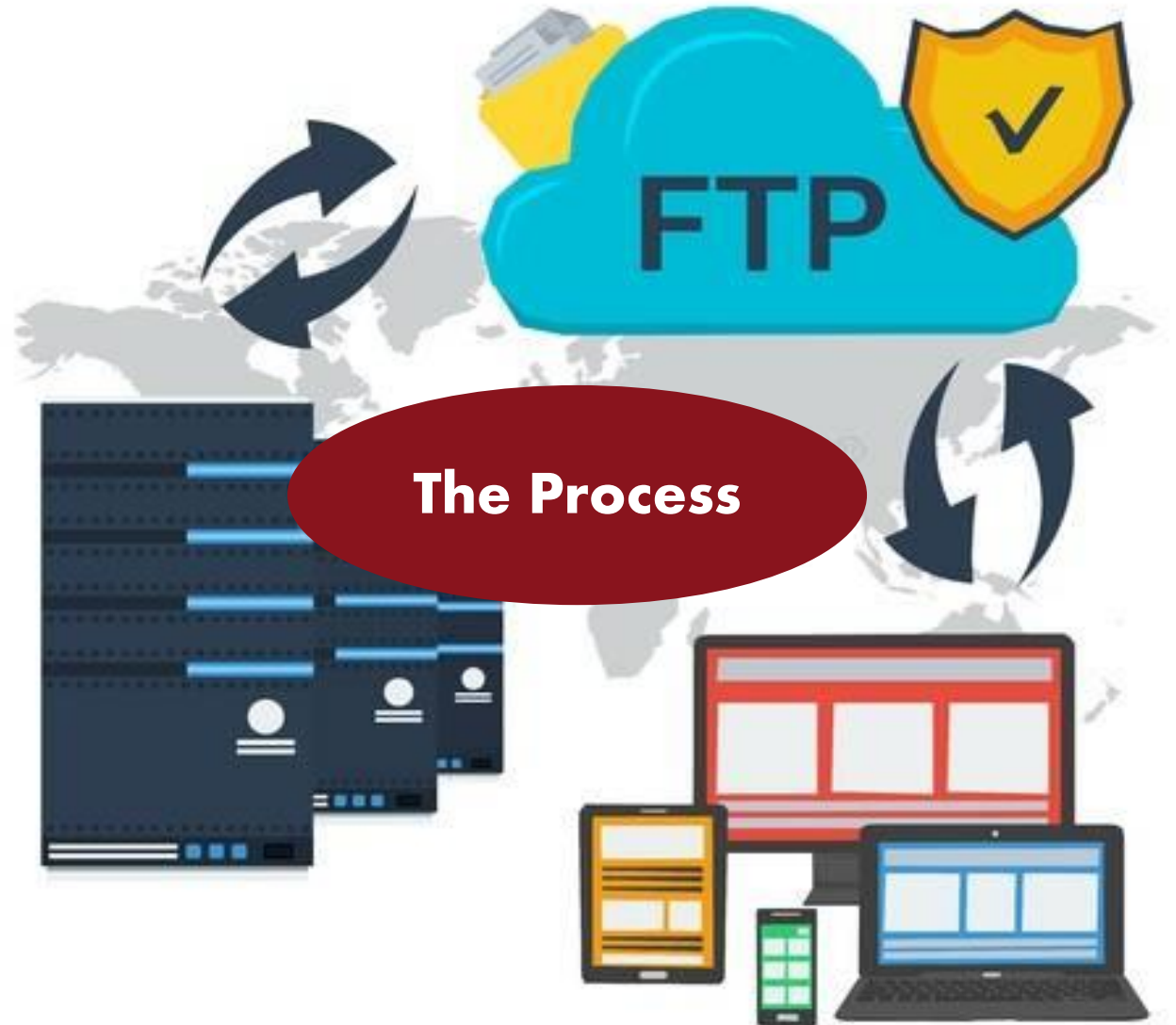
Have you ever been in a situation where you needed to move a massive amount of files and emailing was not a viable solution?

Objectives

- Explain what is FTP
- Determine why you would use FTP.
- Selecting and downloading FTP solution
- Explain how to connecting to an FTP server
- Show how to move and transfer files

What is FTP

The process of moving files from computer to server or from server to computer



Terminology and Acronyms

Terms	Definition
FTP client/solution	¹ a software utility that establishes a connection between a host computer and a remote server, typically an FTP server.
Port	² is a way to identify a specific process to which an Internet or other network message is to be forwarded when it arrives at a server.
Protocol	a common set of rules and instructions that each computer follows Example protocols include PPP, TCP/IP, SLIP, HTTP, and FTP
Local Machine	refers to the computer that a user is currently using on a computer network
Server	a Computer or device on a network that manages network resources.
Host	Unique location of server also identified by IP number or address
Opensource	original source code is made freely available and may be redistributed and modified.

¹ <https://www.techopedia.com/definition/7336/file-transfer-protocol-client-ftp-client>

² searchnetworking.techtarget.com/definition/port-number

Terminology and Acronyms

Acronyms

FTP	File Transfer Protocol
SFTP	Secure File Transfer Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
IDE's	Integrated Development Environment

Use cases for FTP

Primary way of uploading a website

Can be used in Business- to-Business where companies offer access to their files to another company.

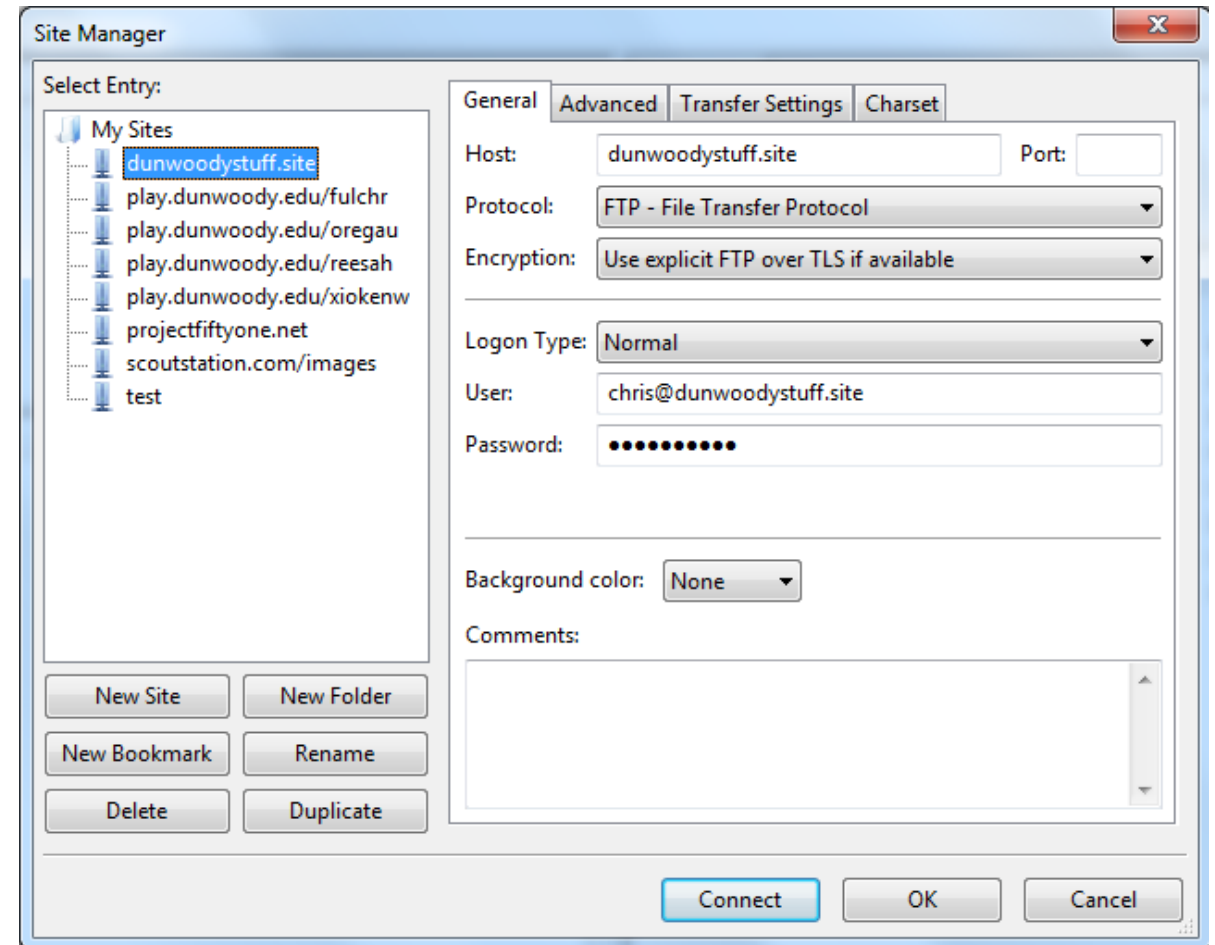
Moving large amounts of data such as archives, video/images or large applications.

Acquiring and Downloading FTP solution

- Most are free (opensource) stand-alone solutions
- FTP capabilities are built into text-editors and IDE's
- List of opensource FTP solutions
 - Filezilla - <https://filezilla-project.org/>
 - CoreFTP - <http://www.coreftp.com/>
 - SmartFTP - <https://www.smartftp.com/>
- Determine system requirements and download appropriate solution

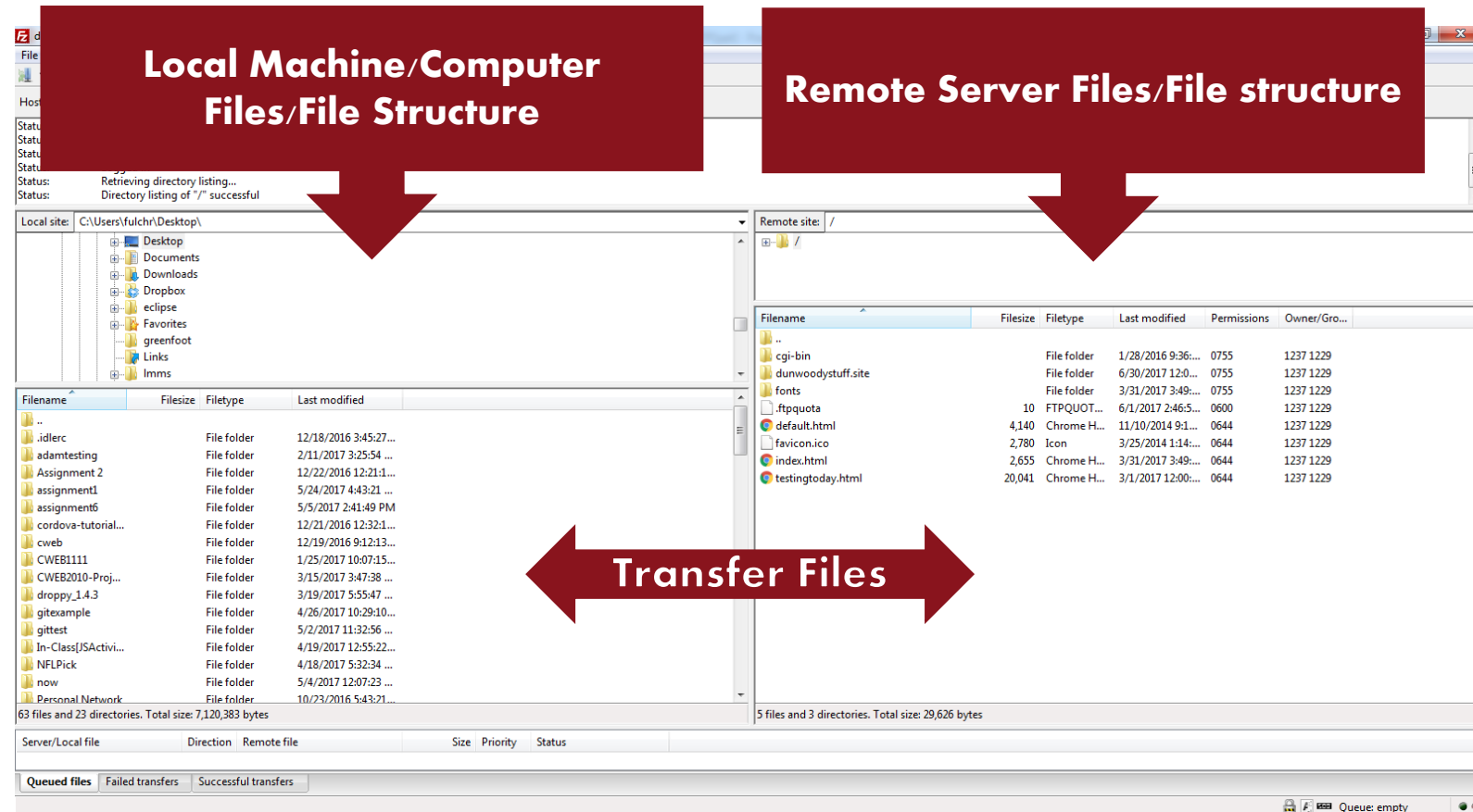
Establishing A Connection to Remote Server

- FTP account and credentials created
- Create a connection instance
- Input Credentials
- Test Connection for success
- Navigate file structure and select files
- Move and transfer files to server



Move and Transfer Files

- Navigate file structure and select files
- Move and transfer files to server
- Make sure files have completely transferred and close connection



Learning Activity

- Handout 1 – FTP Demonstration
- Student volunteer
- Complete group grid based on the steps taken
- Student credentials
 - Username: studentdemo@dunwoodystuff.site
 - Password: **studentdemo

Review and Assessment

- Can someone explain the basic functionality of FTP?
- Why is FTP used?
- What are the steps to connecting to remote server and transferring files?
- What must you have before you can create a connection?

Check-in

- Areas of that need to be better explained
- Posted Note Questions

Additional Resources

- Various ports –
<http://www.pearsonitcertification.com/articles/article.aspx?p=1868080>
- FTP for beginners -
https://www.wired.com/2010/02/ftp_for_beginners/