

FTP Tutorial

Course: Computer Networks (CS - 307) **Instructor:** Mr Ibrahim Nadir **Fall 2019**
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Introduction

FTP is short for “File Transfer Protocol”, it is an application layer protocol based on RFC 959. It is used for file transfer, using this a client can remove, download, delete, or upload files on a server. It works over TCP, which connection oriented protocol. FTP is older than HTTP but it is still being used to transfer some files like in building a website, to download new applications, via web browsers. HTTP also works with FTP to deliver files.

FTP and HTTP both are part of the application layer that combines communication protocols and interface methods. Here we will see how they are different. You can use HTTP to view websites and the FTP just for transferring files. The client for HTTP is the browser (Chrome, Opera, etc.) and for the FTP is the command-line. Both can be used to admin a website, but HTTP is more popular. Just in some cases, the FTP can be more appropriate. It is believed that FTP is more efficient for larger files, while the HTTP is better for smaller. FTP doesn't send meta-data, just binary and the HTTP uses pipelining to organize the transfer of multiple files.

Tools

To experiment with FTP following list of tools and user applications is provided.

- 1- FileZilla
- 2- Web Browser (Any – Chrome, Firefox or Edge etc.)
- 3- FTP Server

Experimentation

Here preliminary introduction to tools is provided.

1. Accessing FTP using Web Browser (as FTP Client)

Open Web Browser, and type FTP server address in address bar as “ftp://<server-address>”. If server is password protected you will be prompted for credentials.

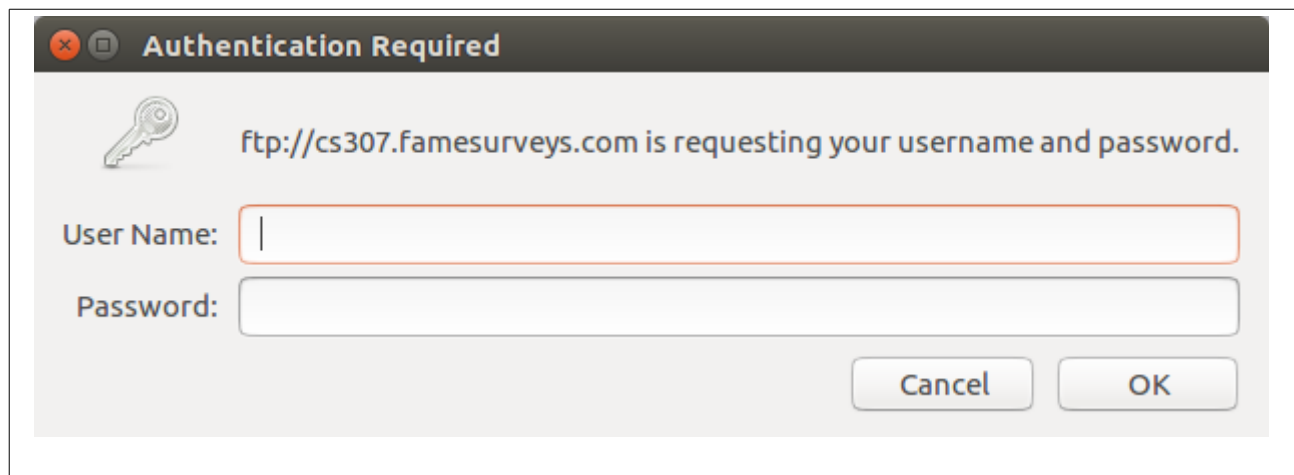
For this tutorial:-

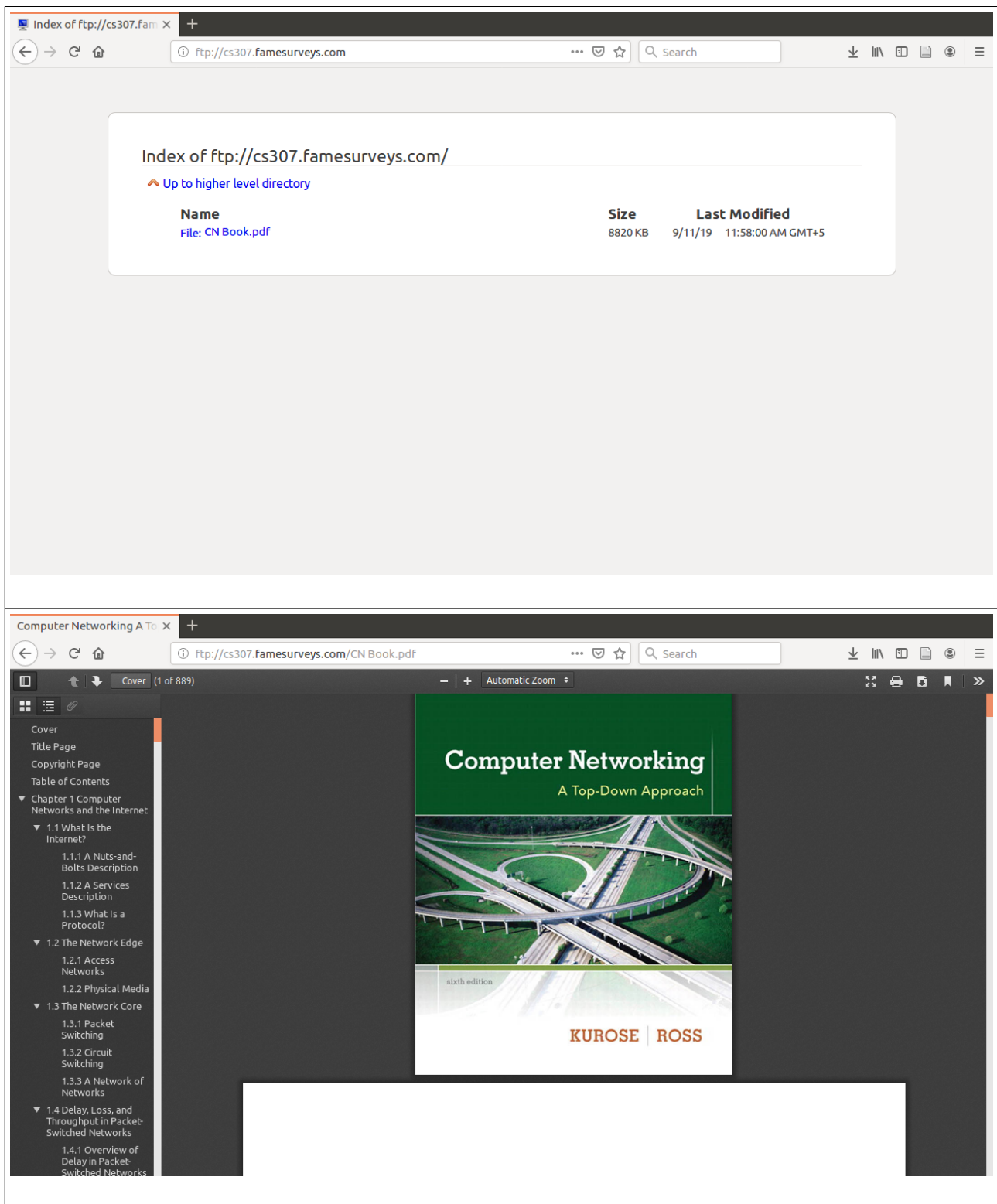
FTP Server Address: <ftp://cs307.famesurveys.com/>

User name: cs307

Password: Bvte50!0XMbrpjgj

Important: This FTP server is available freely for educational purpose, avoid abusive use.





2- FileZilla

It is a FTP client open source application available for all Linux, Windows and OS X etc. See the connection procedure and sequence of commands issued in attached screenshots.

Download from here: <https://filezilla-project.org/>

FileZilla - The free FTP client

https://filezilla-project.org

FileZilla

The free FTP solution

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Overview

Welcome to the homepage of FileZilla®, the free FTP solution. The FileZilla Client not only supports FTP, but also FTP over TLS (FTPS) and SFTP. It is open source software distributed free of charge under the terms of the GNU General Public License.

We are also offering FileZilla Pro, with additional protocol support for WebDAV, Amazon S3, Backblaze B2, Dropbox, Microsoft OneDrive, Google Drive, Microsoft Azure Blob and File Storage, and Google Cloud Storage.

Last but not least, FileZilla Server is a free open source FTP and FTPS Server.

Support is available through our forums, the wiki and the bug and feature request trackers.

In addition, you will find documentation on how to compile FileZilla and nightly builds for multiple platforms in the development section.

Quick download links

Download FileZilla Client

Download FileZilla Server

News

2019-08-15 - FileZilla Client 3.44.2 released

Bugfixes and minor changes

MSW: Fixed a crash if using predefined sites through defaults.xml

Fixes to protocol selection glitches in the Site Manager

Increase maximum length of response lines when using FTP

2019-08-09 - FileZilla Client 3.44.1 released

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Clubhouse

Local site: cs307.famesurveys.com

Remote site: /

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Filesize

Filetype

Last modified

Directory

11/09/2019 11:...

0.1 MB

pdf file

15/04/2018 10:...

Selected 1 file. Total size: 9.1 MB

Server/Local file

Directory

Remote file

Size

Priority

Status

Queued files

Failed transfers

Successful transfers (1)

Queue: empty

Response: 200 Type set to I.

Command: PASV

Response: 227 Entering Passive Mode (37,187,76,99,226,216).

Command: LIST

Response: 150 Opening BINARY mode data connection.

Response: 226 Transfer complete.

Command: PASV

Response: 227 Entering Passive Mode (37,187,76,99,227,35).

Command: STOR DNS Tutorial.pdf

Response: 550 The process cannot access the file because it is being used by another process.

Error: Critical file transfer error

Transfers Finished

All transfers have finished. 1 file could not be transferred.

3- FTP Server

Use the FileZilla FTP server (an application) to setup your own FTP server on Windows machines.