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Assignment - II

Title- study of HTTP, HTTPS, FTP

Problem statement -

study and Analysis the performance of HTTP, HTTPS and FTP protocol using packet traces tool.

Prerequisite -

Transport layers - Protocols, Roles
FTP, HTTP, HTTPS.

Learning Objectives -

students will be able to

study and analysis performance of
HTTP, HTTPS, FTP.

Theory -

FTP file Transfer protocol

FTP provides a mechanism for single or multiple file transfers between computer systems when written in lowercase as 'ftp', it is also the name of the client software used to access the FTP server running on remote

The FTP package provides all the ^{host} tools needed to look at files and directories, change to others directories and transfer text and binary files from one system to another.

Teacher's Signature

FTP uses TCP to actually move the file.
 HTTP types Text Transfer Protocol.

HTTP is the command and control protocol used to manage communications between a web browser and a webserver.

When you access a webpage on the Internet, HTTP is the mechanism that opens the related documents when you select a link.

A client submits HTTP request to the server. The server returns a response to the client. The response contains status information about the request and also requested content.

HTTPS: Hyper Text Transfer Protocol secure.

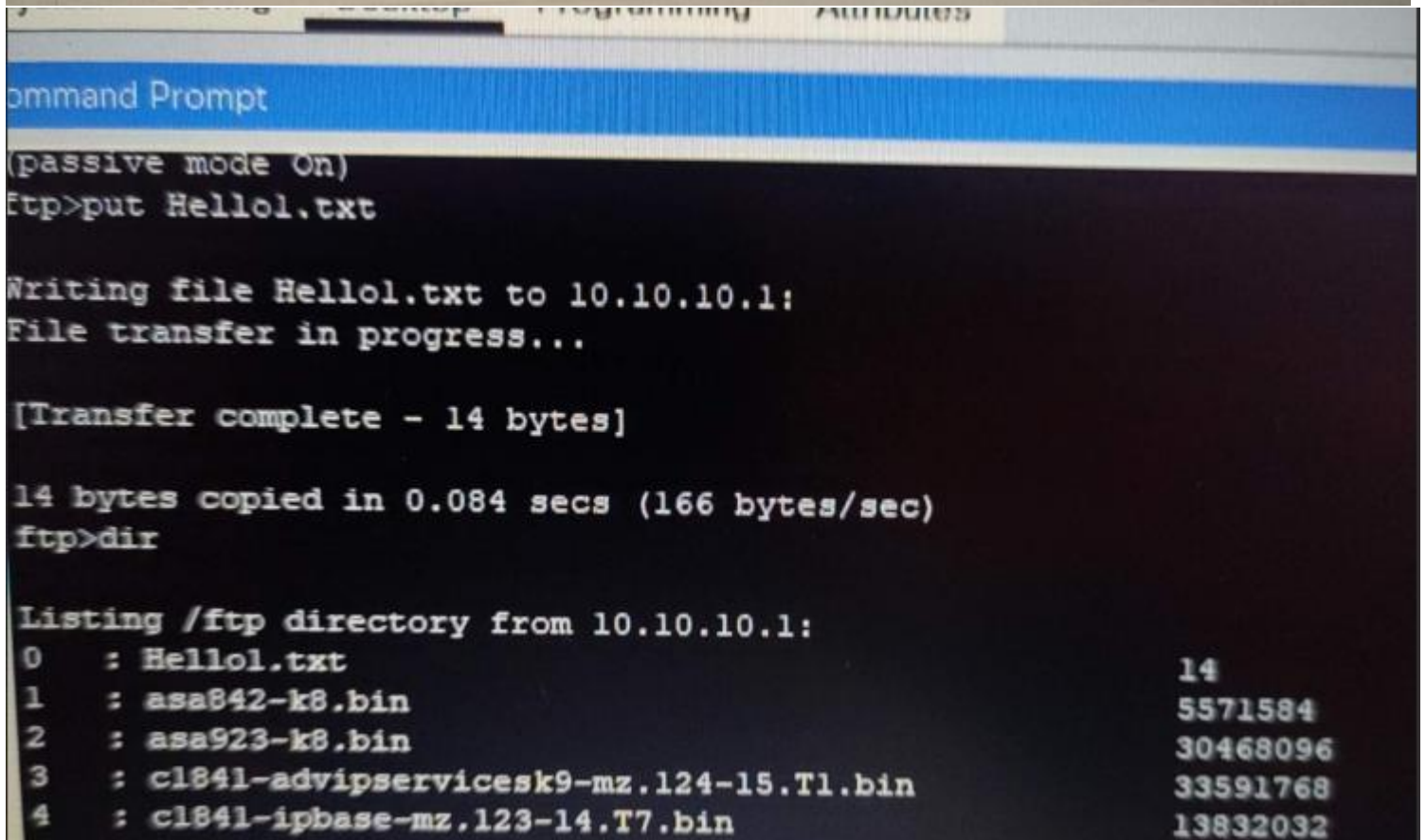
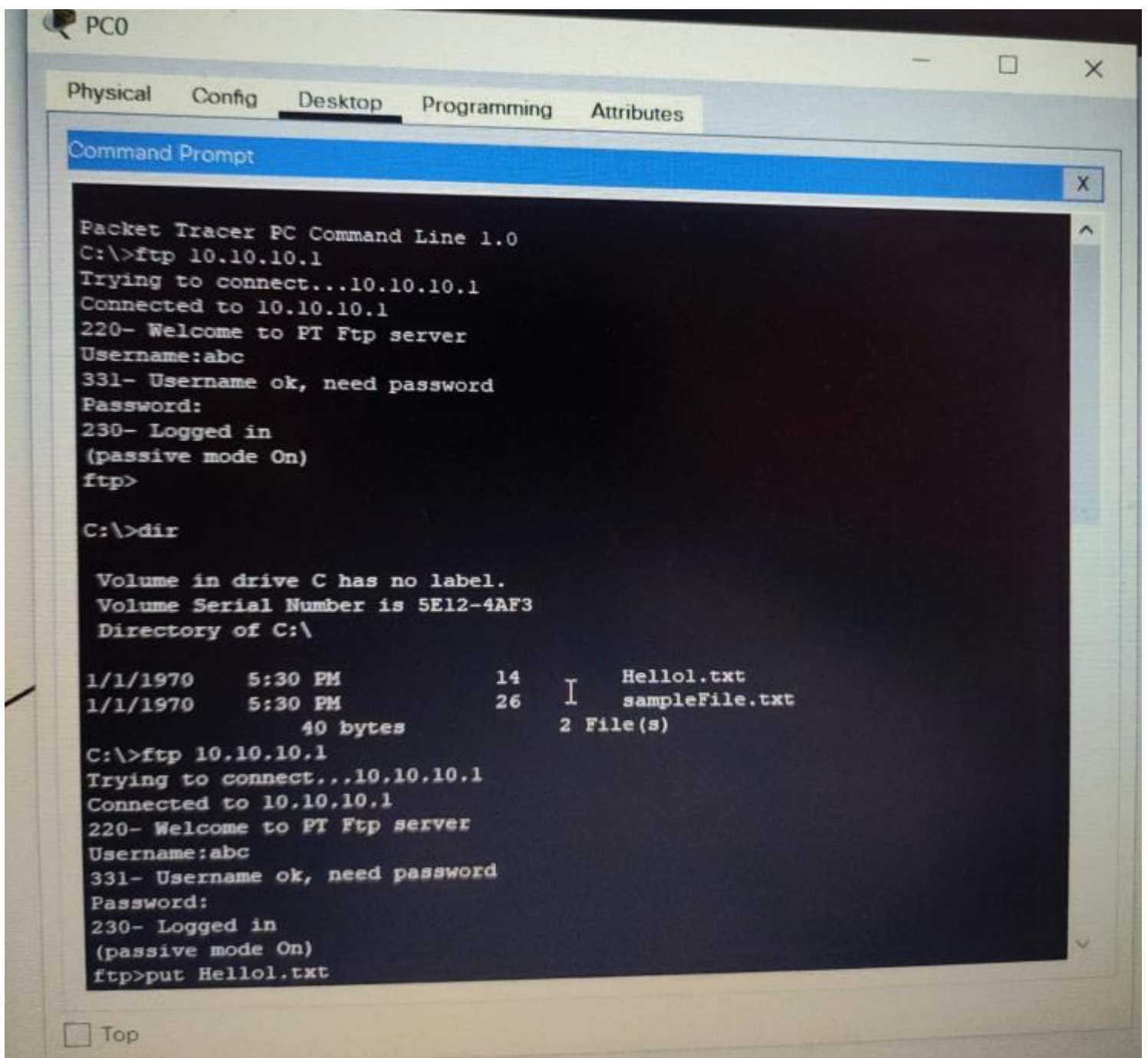
HTTPS is a secure version of HTTP that provides a variety of security mechanisms to the transactions b/w a browser of server. HTTPS allows browsers and servers to sign, authenticate and encrypt an HTTP message.

Port Range for common services and applications:

Port Number	Application
20	FTP - Data
21	FTP - Control commands
80	HTTP

Conclusion - Successfully studied and analysed the performance of HTTP, HTTPS and FTP protocol using Packet Tracer.

Teacher's Signature _____



Packet Tracer PC Command Line 1.0

C:\>ftp 10.10.10.1

Trying to connect...10.10.10.1

Connected to 10.10.10.1

220- Welcome to PT Ftp server

Username:abc

331- Username ok, need password

Password:

230- Logged in

(passive mode On)

ftp>get Hello1.txt

Reading file Hello1.txt from 10.10.10.1:

File transfer in progress...

[Transfer complete - 14 bytes]

14 bytes copied in 0.01 secs (1400 bytes/sec)

ftp>

C:\>dir

Volume in drive C has no label.

Volume Serial Number is 5E12-4AF3

Directory of C:\

1/1/1970	5:30 PM	14	Hello1.txt
1/1/1970	5:30 PM	26	sampleFile.txt
	40 bytes	2	File(s)

C:\>

Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.

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Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.008	--	PC0	HTTP
	0.009	--	PC0	HTTP
	0.010	PC0	Switch0	HTTP
	0.011	Switch0	Router0	HTTP
	0.012	Router0	Server0	HTTP

Reset Simulation ☒ Constant Delay

Captured to:
0.012 s

Play Controls



Event List Filters - Visible Events
HTTP, HTTPS

Edit Filters

Show All/None

