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Date :	Page No :
/ / 20	

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Assignment No. 11 (C3)

DOJ :- 03-12-2021

Title :- Study of HTTP, HTTPS and FTP protocol.

Problem statement :-

Study and analyze the performance of HTTP, HTTPS and FTP protocol using packet tracer tool -

Objectives :-

(i) To study and analyze the performance of HTTP, HTTPS and FTP protocol -

Learning Outcomes :-

After completion of the assignment, students will be able to understand the concepts of HTTP, HTTPS and FTP protocols.

Prerequisites :-

Transport Layer : protocols, Roles.
FTP, HTTP, HTTPS.

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 host.

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

FTP uses TCP to move the files.

HTTP (Hypertext Transfer Protocol)

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

When we 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 (Hypertext Transfer Protocol Secure)

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

Port Range for common services and applications

<u>Port Number</u>	<u>Application</u>
20	FTP - Data
21	FTP - Control Commands
80	HTTP

CONCLUSION :-

Successfully studied and analyzed the performance of HTTP, HTTPS and FTP protocol using packet Tracer.

OUTPUT :-



