

Assignment-11

Shubham
Chemate
31118

Title: Study of HTTP, HTTPS, FTP

Problem Statement:

Study & analyze the performance of HTTP, HTTPS & FTP protocol using packet tracer tool.

Prerequisite:

Transport layer: Protocols & Roles

FTP, HTTP, HTTPS

Learning Objectives:

Students will be able to study & analyze performance of HTTP, HTTPS, FTP.

Theory:

FTP file transfer Protocol:

FTP provides a mechanism for single/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 & directories, change to others directories, & transfer text & binary files from one system to another.

FTP use TCP to actually move the files.

HTTP:

- It is Hyper Text Transfer Protocol
- It is command & control protocol used to manage communications between a web browser & a web server
- When in access of 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 & also requested content.

HTTPS:

- It is Hyper Text Transfer Protocol Secure
 - It is secure version of HTTP that provides a variety of security mechanisms to the transaction b/w a browser & server. HTTPS allows browsers & servers to sign, authenticate & encrypt an HTTP message.
- Port range for common services & applications

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

Conclusion: Successfully studied & analysed the performance of HTTP, HTTPS & FTP protocols



PICT, PUNE

using packet tracer tool.



