Lab 6

Title: Setup Web Server

Objective:

a) To understand about functionality of a web server

b) To understand different features of windows web server.

Software requirements

| SN	Software	Specification
1.	VMWare or VirtualBox	-
2.	Windows OS	Windows 10
3.	Windows Server	2016/2019

Related theory

A **web server** is computer software and underlying hardware that accepts requests via HTTP, the network protocol created to distribute web pages or its secure variant HTTPS. A user agent, commonly a web browser or web crawler, initiates communication by making a request for a specific resource using HTTP, and the server responds with the content of that resource or an error message. The server can also accept and store resources sent from the user agent if configured to do so.

A server can be a single computer, or even an embedded system such as a router with a built-in configuration interface, but high-traffic websites typically run web servers on fleets of computers designed to handle large numbers of requests for documents, multimedia files and interactive scripts. A resource sent from a web server can be a preexisting file available to the server, or it can be generated at the time of the request by another program that communicates with the server program. The former is often faster and more easily cached for repeated requests, while the latter supports a broader range of applications. Websites that serve generated content usually incorporate stored files whenever possible.

Internet Information Services (IIS) for Windows Server is a flexible, secure and manageable Web server for hosting anything on the Web. From media streaming to web applications, IIS's scalable and open architecture is ready to handle the most demanding tasks.
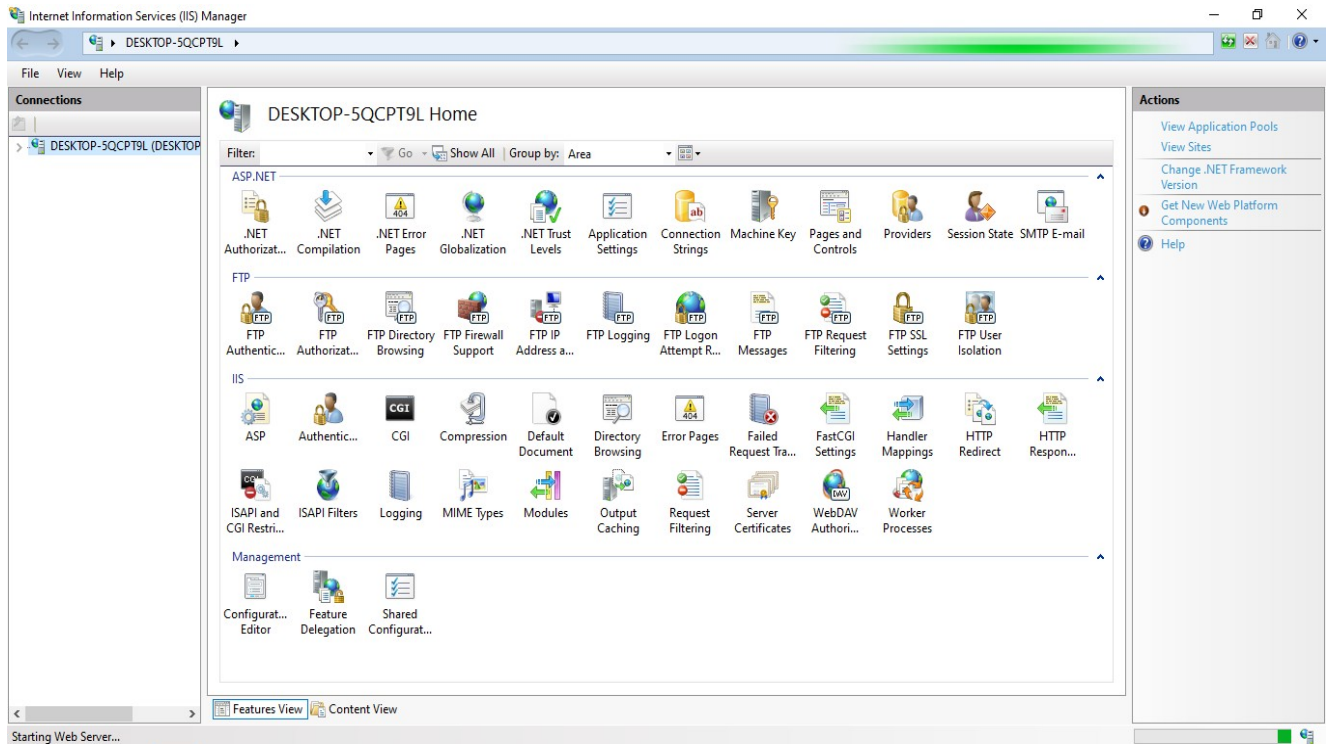
Procedure

1. Open Windows Server.
2. Click on Add role and features.
3. Select Web server to install.
4. After installation, click on IIS option.
5. Add web page in the web server, provide ip address and domain name.
6. Open browser and access the web page using domain name or ip address.

Observation:
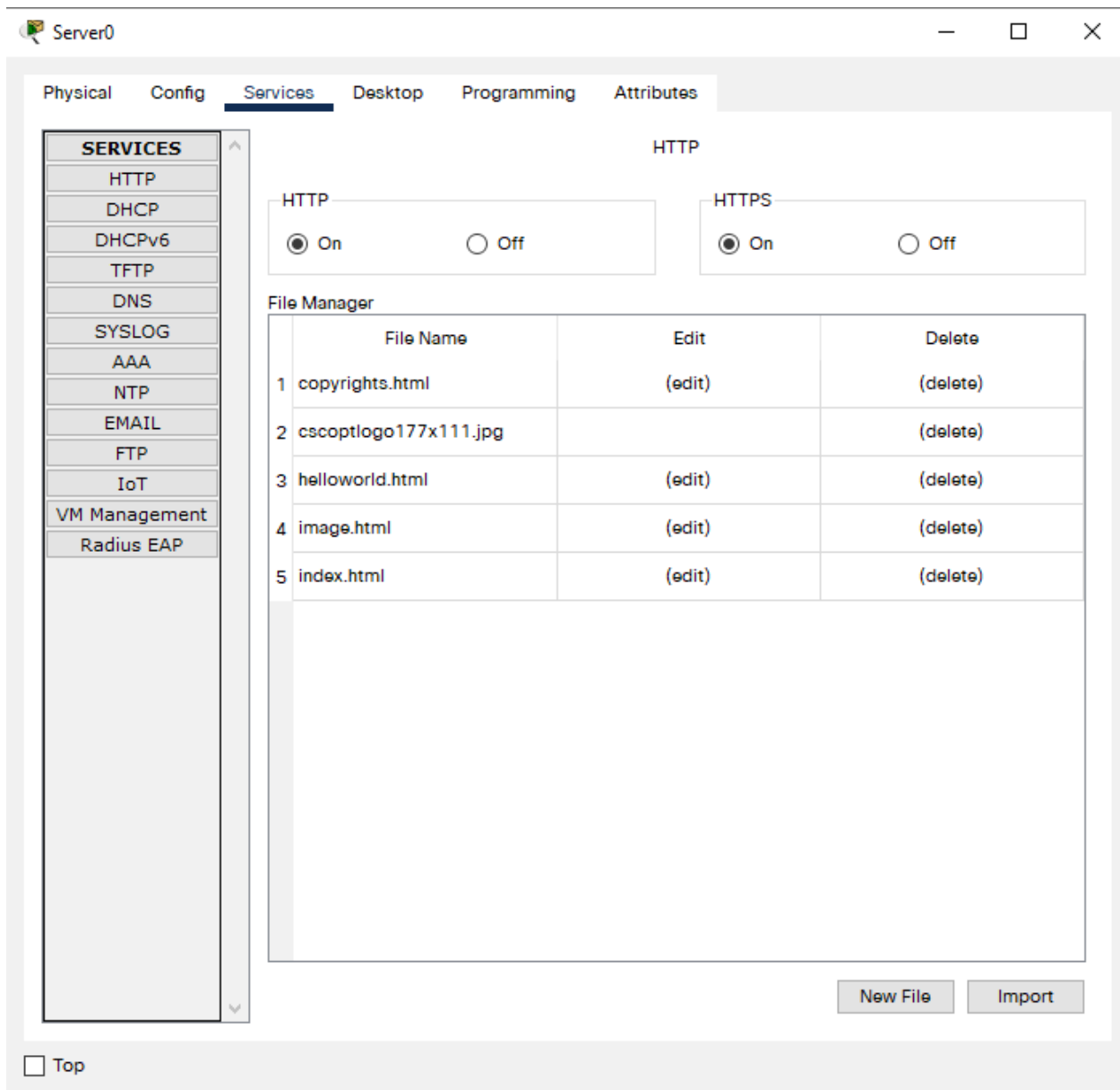
In packet tracer, we can add server then in services we can add different protocols as we need like HTTP and/or HTTPS for web hosting with site's to be displayed shown. The server's address can also be kept from config tab. This server can be used in dhcp process too.

Conclusion:

Hence, Server was created in packet tracer