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CLASS : BVOC (First year) Sem 2

TITLE : Setup a new web server 2022

INSTRUCTOR NAME : Shubham sir

INTRODUCTION

Web server building is the activity of developing, constructing, and hosting the back-end framework which will process the requests from the client across the internet. A web server is a computer program or system, which processes incoming requests, serves web pages, and controls the communication between the clients. Web servers also serve APIs, for the client's communication and employ encryption, authentication, and vulnerability protection for safety. Performance optimizations like caching, load balancing, and asynchronous processing help scale applications efficiently.

SERVER

A web server is a software or hardware system that processes requests from client-like web browsers and delivers them with web content like HTML pages, images and other resources. When you enter a web address in your browser, a request is directed to the web server that hosts the website and the Web server returns the required content to your browser.

SERVICES

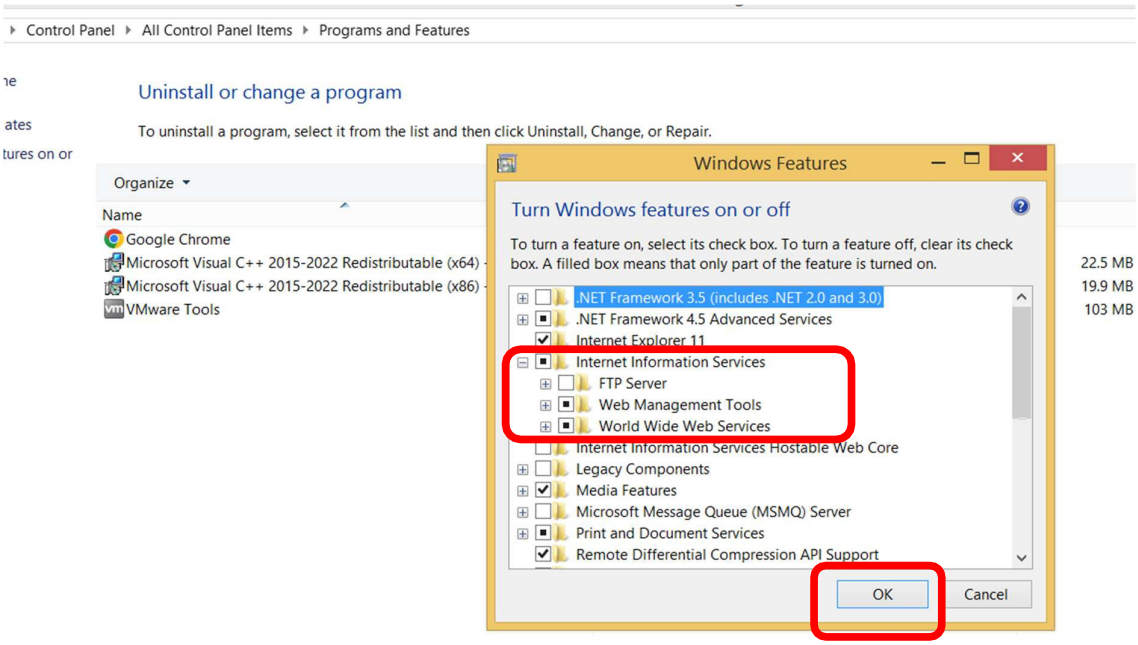
HTTP/HTTPS Service (Web Hosting) HTTPS and HTTPS are used to transfer information between the server and client software. The server accepts incoming HTTP/HTTPS requests and delivers web pages, pictures video segments and other material. HTTPS offers a secure connection employing SSL/TLS certificates with SSL to the client for secure data transfer between server and client.

CLIENTS

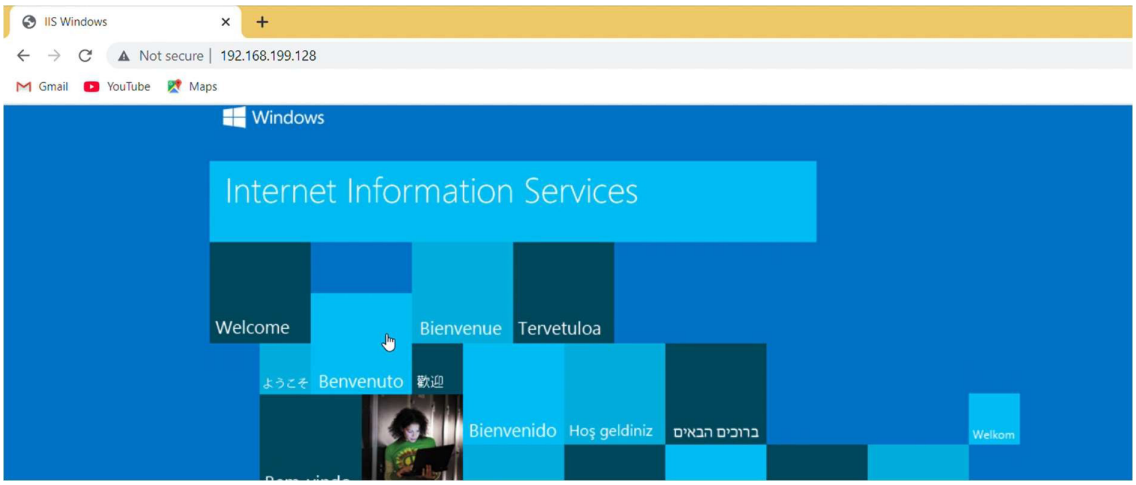
A Client in computing refers to a device, application, or system that makes requests for services or resources from a server across a network. It may be the web browser such as Chrome or Firefox making requests for web pages, mobile apps retrieving data from a server, or software programs communicating with remote services using APIs.

Result And Screenshots

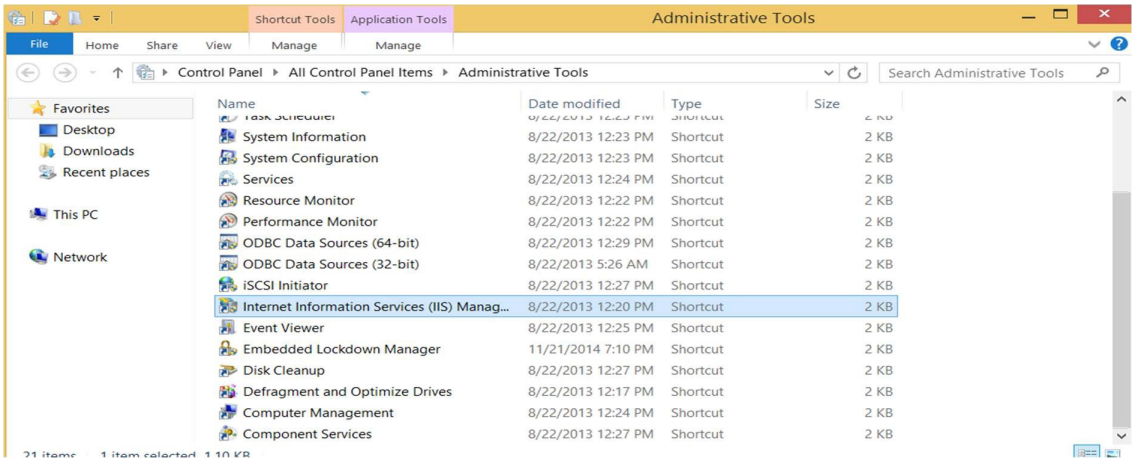
1) Firstly, we have to install **internet information services (IIS)** in windows 8.



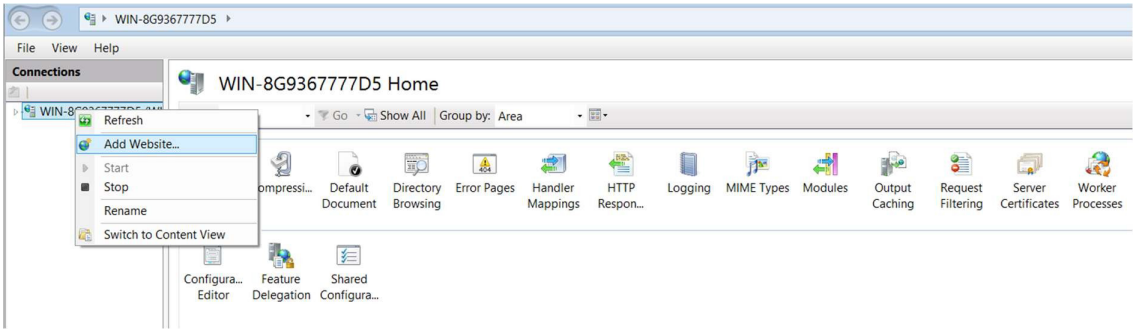
2) When Activate IIS And Enter Your Ip Address This Out Will Show.



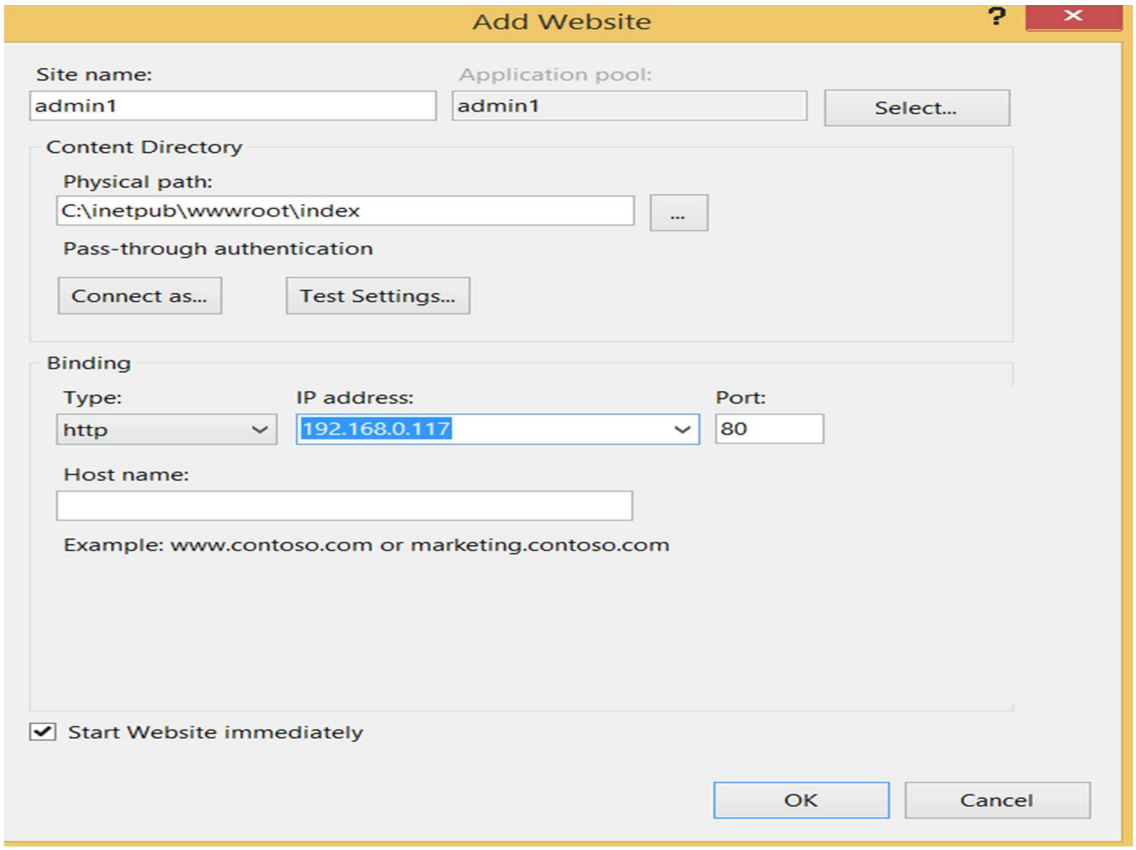
2) After installing go to control panel →Administrative tools→ select IIS manager.



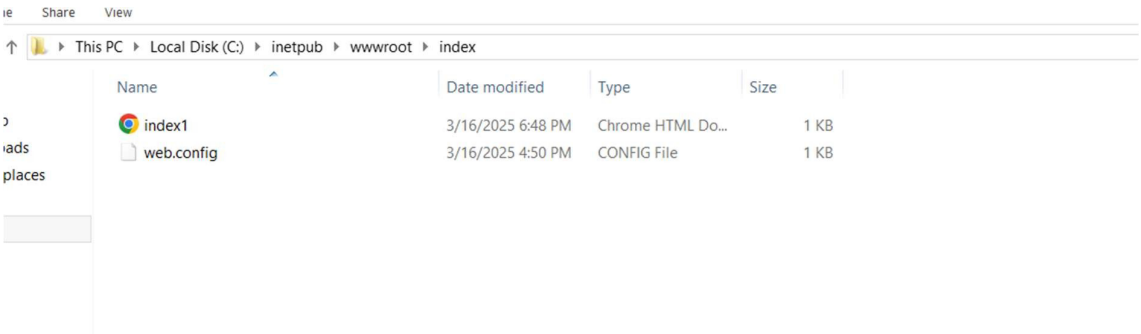
3) Selecting the IIS manager will redirect you to the manager interface and the in the connection panel we have to select the Add Website section.



4) Add your web site name and the path which you want to save your directory also select the ip address and the port which host website.



5) Now you have to create a html file which is saved in the path that you used to create the website.

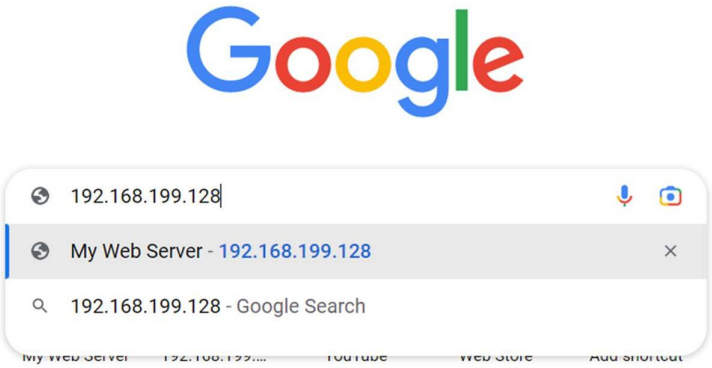


index1 - Notepad

File Edit Format View Help

```
<!DOCTYPE html>
<html>
<head>
    <title>Welcome to My Website</title>
</head>
<body>
    <h1>ADMIN!</h1>
    <p>MAYANK HIRAPARA HELLO TO YOUR FIRST WEBSITE ON IIS.</p>
</body>
</html>
```

6) Go to your browser and search for your ip address



TOOLS USED

1) windows 8.1

2) Windows 11(host)

3) Vmware

4) Firefox browser

CONCLUSION

Web server development is the central need for developing web applications that enable clients to interact with servers in an efficient manner. The platform enables efficient communication channels to set up between servers and users. The use of appropriate security mechanisms results in the creation of secure web servers which are also scalable. A well-designed web server facilitates scalability as well as the creation of complete security and peak performance levels. optimal performance. security features like encryption and authentication safeguard confidential information.