



Installing Internet Information Services

PROJECT REPORT SUBMITTED FOR SKLII ORIENTED COURSE:

20IT4607:: EHTICAL HACKING

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KANURU, VIJAYAWADA-7

ACADEMIC YEAR

(2021-22)

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1. Problem Statement

Install IIS on your Windows computer.

Description: To create a Web site, you need to install IIS on your Windows computer. Although IIS is deployed on a server in a production environment, preproduction Web development and testing are typically done on workstations. IIS 5.1 is available in Windows XP Professional, IIS 7 is available in Vista (Business, Ultimate, and Enterprise editions), and IIS 7.5 is available in Windows 7 (Professional, Ultimate, and Enterprise). Because IIS isn't installed by default, in this activity, you install it and use your Web browser to check that it was installed correctly

2. Introduction

The term "IIS" stands for Internet Information Services, which is a general-purpose webserver that runs on the Windows operating system. The IIS accepts and responds to the client's computer requests and enables them to share and deliver information across the LAN (or Local Area Network) such as a corporate intranet and the WAN (or Wide Area Network) the internet. It hosts the application, websites, and other standard services needed by users and allows developers to make websites, applications and virtual directories to share with their users. A web server provides the users with information in several different forms, such as File exchanges as a download, uploads, Images files, HTML pages, and text documents. The web servers are commonly used as a portal for sophisticated and highly interactive websites, applications that tie middleware and back-end applications together to make enterprise-grade-systems. For example, AWS enables media services such as Netflix to provide real-time streaming content. Amazon web services also enable public cloud administration all through the web servers. Generally, the IIS is also compared with the Apache, which is also a kind of web server that is freely available for everyone. We can simply say that both works the same except that the apache web server can be used almost on any operating system such as Windows, Linux, and Mac, While the IIS is only available for windows. Additionally, the IIS has the security features, which makes it a more secure and efficient option than the Apache.

3. Description

Modern web servers can provide far more functionality for a business and its users. Web servers are often used as portals for sophisticated, highly interactive, web-based applications that tie enterprise middleware and back-end applications together to create enterprise-class systems. For example, Amazon Web Services allows users to administer public cloud resources through a web-based portal. Meanwhile, streaming media services, such as Spotify for music and Netflix for movies, deliver real-time streaming content through web servers.

Security:

To ensure a website is secure, organizations need to take security measures to protect the web server from security breaches. Companies can use features built into IIS to harden the IIS.

Some of the ways to harden Windows IIS include:

- Ensure the Windows operating system is updated with all security patches.
- Disable any features of IIS not in use to reduce potential attacks.
- Use firewalls to ensure the server is only receiving valid packets.
- Control which IP addresses and domains can access the web server.
- Use URL authorization to apply rules for specific requests, such as dealing with particular URLs. A company can use URL authorization to only authorize certain users to view the requested pages.
- Use logging to view the visitors accessing the web server.

4.How IIS works

IIS works through a variety of standard languages and protocols. HTML is used to create elements such as text, buttons, image placements, direct interactions/behaviors and hyperlinks. The Hypertext Transfer Protocol is the basic communication protocol used to exchange information between web servers and users. HTTPS -- HTTP over Secure Sockets Layer (SSL) - uses Transport layer Security or SSL to encrypt the communication for added data security. The File Transfer Protocol (FTP), or its secure variant, FTPS, can transfer files.

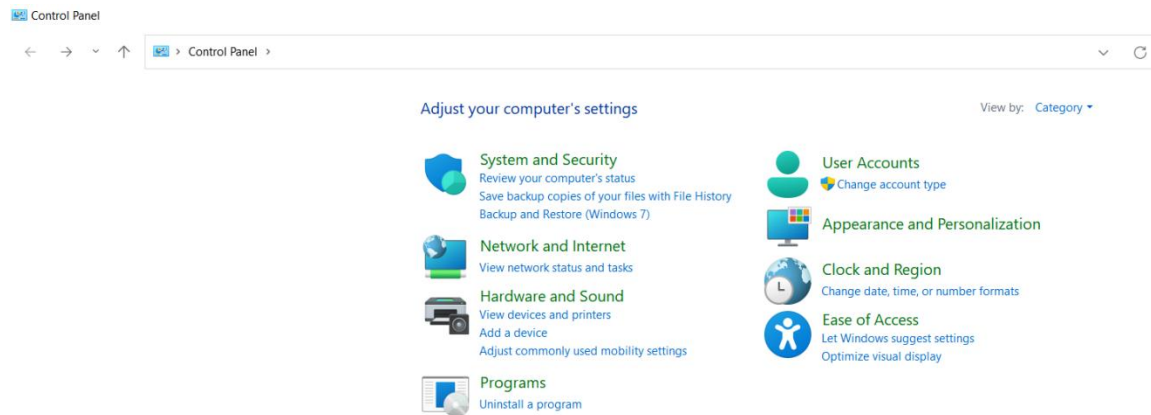
Additional supported protocols include the Simple Mail Transfer Protocol (SMTP), to send and receive email, and the Network News Transfer Protocol, to deliver articles on USENET

5. Installing IIS in Windows

IIS or Internet Information Services is available in most editions of Windows, though disabled by default. manually. This article explains how to install IIS on a Windows 10 machine.

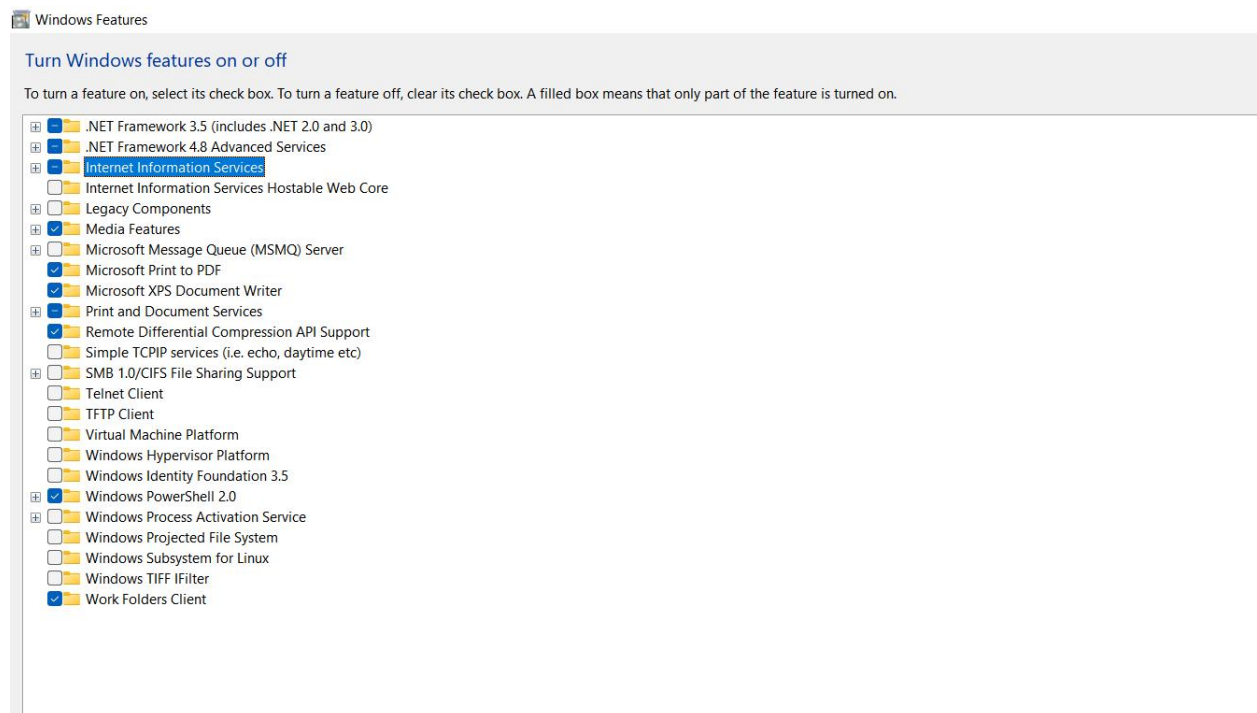
To enable IIS on a Windows 10 computer, do the following:

- 1.Open the Start menu.
2. Open the Control panel app.

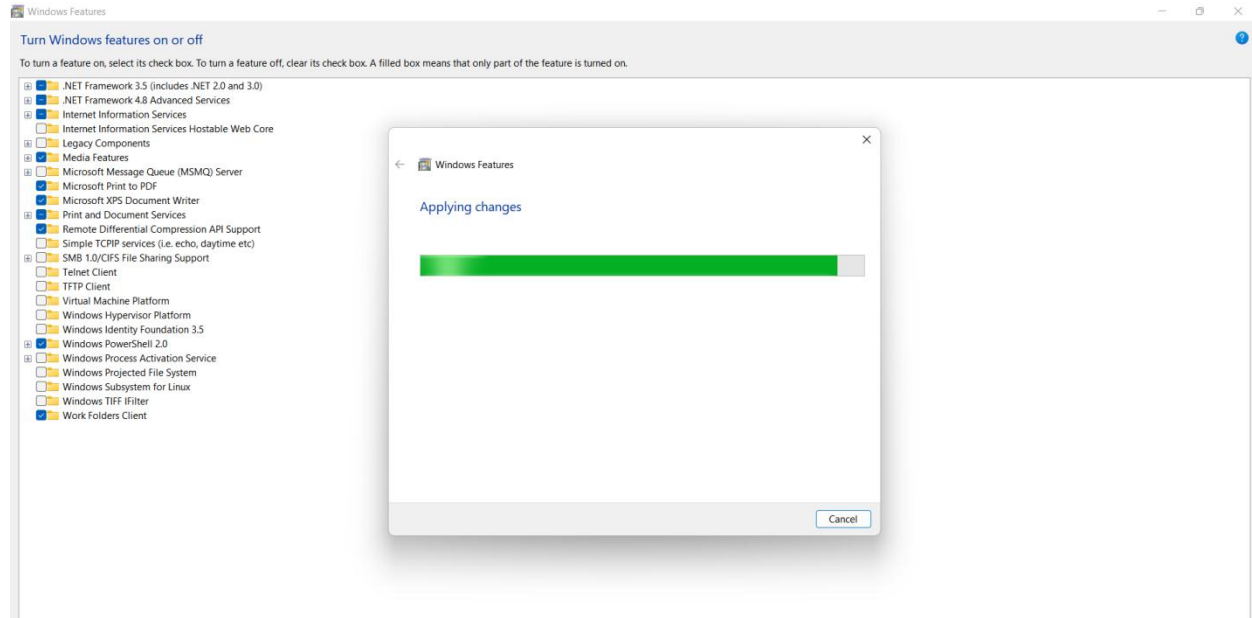


3. Go to Programs → In programs and features → Select Turn Windows features on and off.

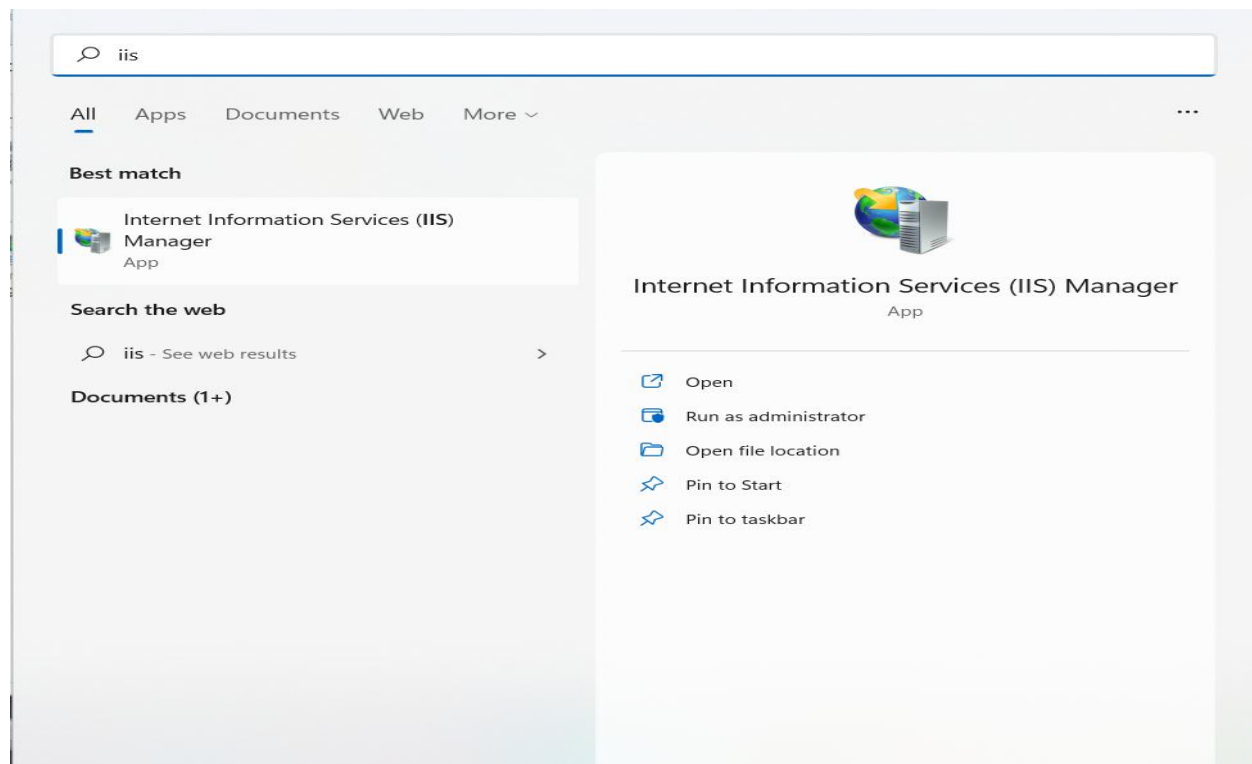
4. Then the below Window will open and Click on Internet Information Services Option and Then select Ok option .



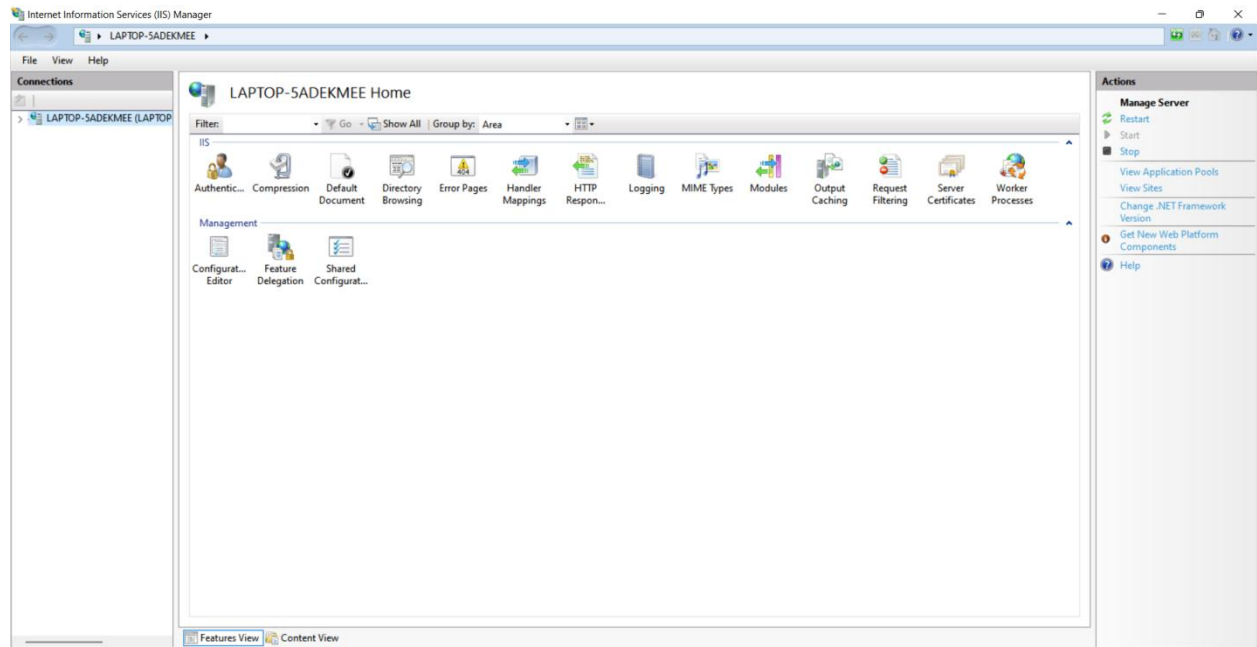
5. After selecting Ok. Just Wait for the installation to complete and hit Close.



6. Our Installation is completed. After Installation Just go to Start and Search for IIS.



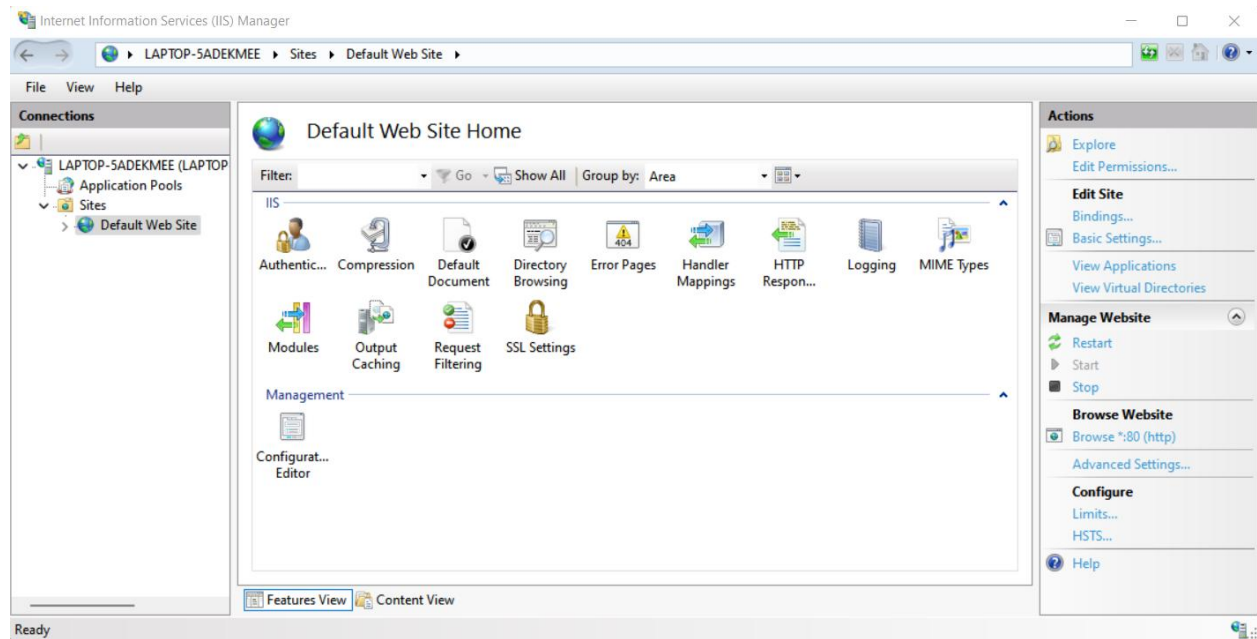
7. This is how the Internet Information Panel looks like.



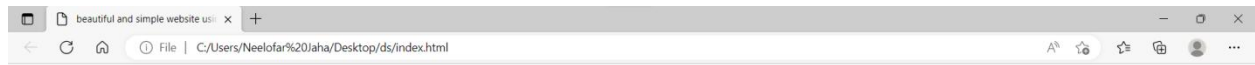
6.Using Web browser to check that it was installed correctly by considering an example.

For this we need to create a Html page.

1.First go to ISS and Click on Stop option there.



2.I have created a simple Html page and named it as index.html. This is how the webpage looks like.

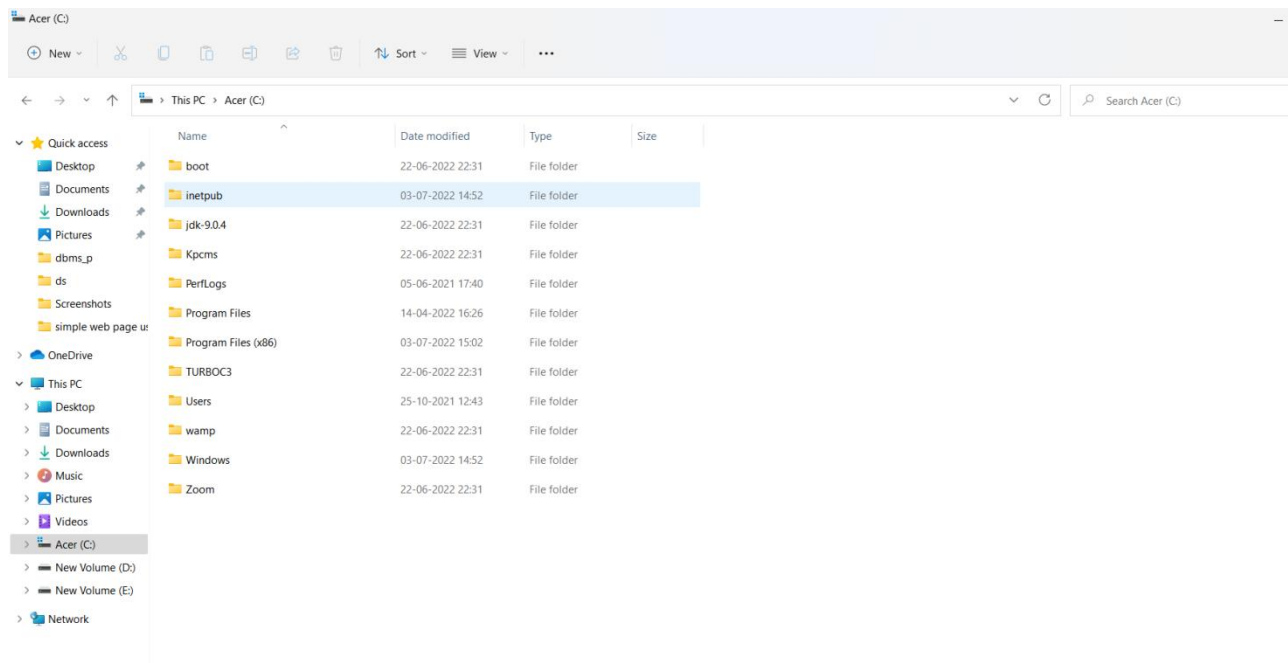


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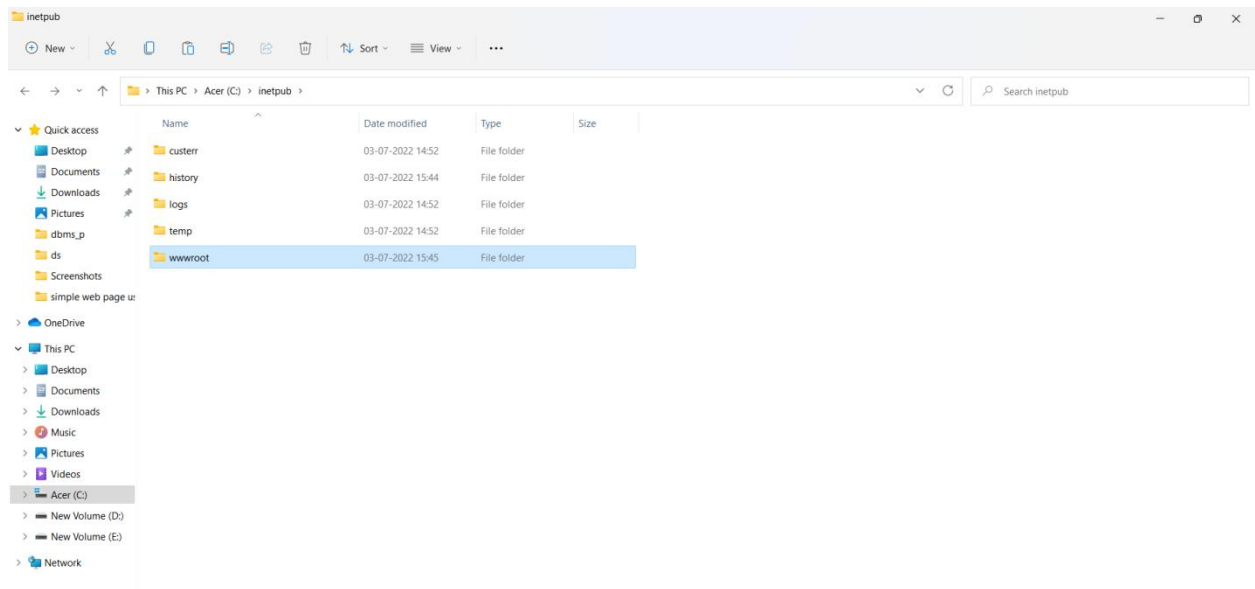
BEAUTIFUL AND SIMPLE WEB PAGE

USING HTML

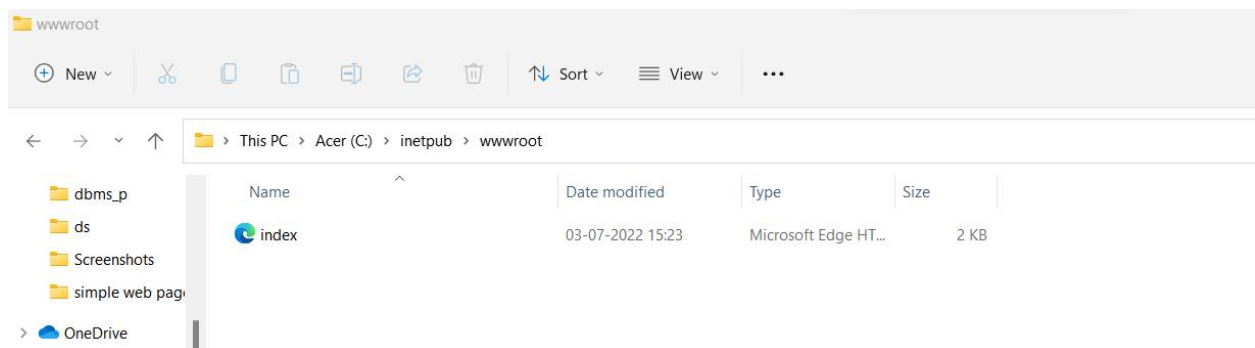
3 .Now copy your Html file index and Go to your Pc→select C Drive→ Click on the option Inerpub.



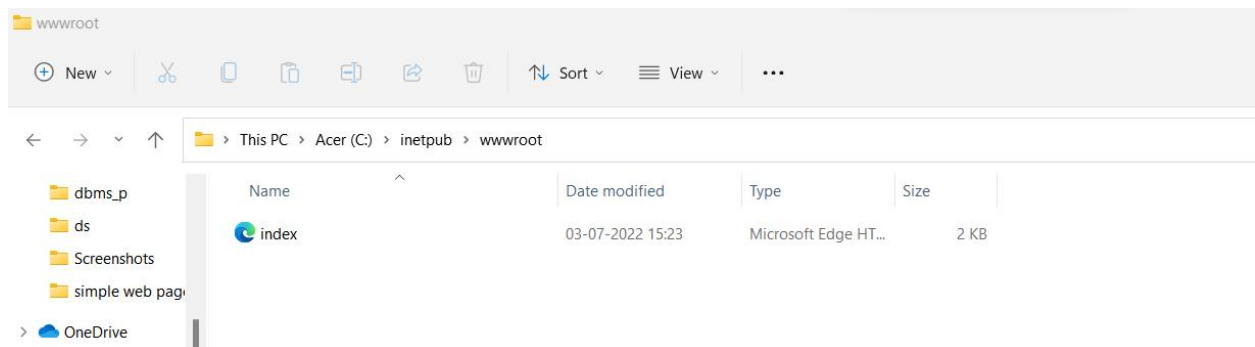
4.After that Click on the option called wwwroot.



5 .Inside wwwroot clear all the files and place your Html index file .



6.Now again go to Internet Information Services and click on start option.



7.Go to Command Prompt and get the Ip Address of your PC.

```
cmd Select Command Prompt
Microsoft Windows [Version 10.0.22000.739]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Weelofar Jaha>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 4:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : www.tendawifi.com
    Link-local IPv6 Address . . . . . : fe80::1958:c197:f840:1a96%4
    IPv4 Address. . . . . : 192.168.0.104
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :
```

8.Now Go to Web Browser and type your PC's Ip address. The created Html page will be displayed.

← → ↻ ⚠ Not secure | 192.168.0.104

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BEAUTIFUL AND SIMPLE WEB PAGE

USING HTML

7.Conclusion

This guide has outlined the step-by-step process for planning an IIS 7.0 infrastructure. By proceeding from step to step, major decisions regarding the IIS 7.0 infrastructure were revealed and explained. The guide has explained how to record choices of location, implementation method, server platform, server resources, and fault tolerance and make them available to infrastructure planners.

Using the information recorded from the steps completed in this guide, the organization can effectively deploy an IIS infrastructure with assurance that it is properly planned and prepared for a successful deployment.

8.References

<https://www.javatpoint.com/what-is-iis>

<https://www.youtube.com/watch?v=EsaQMkKHGfk>

[https://www.techtarget.com/searchwindowsserver/definition/IIS#:~:text=Internet%20Information%20Services%20\(IIS\)%20is,and%20returns%20the%20appropriate%20response.](https://www.techtarget.com/searchwindowsserver/definition/IIS#:~:text=Internet%20Information%20Services%20(IIS)%20is,and%20returns%20the%20appropriate%20response.)