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Introduction

Websites is a important factor in modern day communication services, and deployment and management of a static website is an essential skill for IT professionals. In this workshop, we utilized the Internet Information Services (IIS) feature to set up a static website, ensuring it is accessible locally on the server.

Windows server 2022 is designed to perform various cloud based services like, website hosting, file storage, and others. Microsoft first launched windows server as Windows NT 3.1 in 1993. In this age of fast pace evolving technology, Microsoft has update the windows server from command line interface to graphical user interface and various protocol. Windows server is well build operating system having reliable security , VMware service, resources sharing, wide range of application support, data integrity, hardware compability, etc. In the workshop we performed static webhosting in our local system, using our own personal computer running windows server 2022 inside UTM, which provides virtual enviroment within our system.

Windows server is well build and secure for hosting websites delivering efficient and scalable enviroment in the network system. Using Internet Information Services (IIS), it enables the hosting of static content such as HTML files, images, and CSS with ease. Internet Information System in windows server is GUI based managing tool that delivers convenient configurating system to user for access management to network configuration. Another important feature that windows server come along is with wide range of protocols enchaning seamless connectiona and flexible connection, active directory for hierarchiry based adminstration feature.

Internet Information Service known as IIS is a reliable web server platform developed by Microsoft, It supports delivering and hosting web applications, static websites, and other content efficiently. IIS is included as a feature in Windows Server, making it an excellent choice for businesses and individuals looking to host internal or external websites. This workshop focuses on understanding, how to configure Windows Server 2022 for web hosting, install necessary server roles, and deploy a static website accessible through a custom hostname. Participants were guided step-by-step through the process, ensuring they gained a clear understanding of each configuration element. (Microsoft, 2024)

Objectives

In this log the first goal was to configure the server and host a static website, free template from Free CSS. Server was setup as mysite.local including role-based installation process and its implications for hosting websites.

- We configure windows server from server manager.
- Role based installation process.
- Configured website.
- Practical web hosting imitation.

Tools Requirements Concept

Hardware Requirements

- Personal Computer, windows laptop devices preferred
- 64GB storage recommended.
- 8GB ram recommended.
- 1.4Ghz 64bit processor

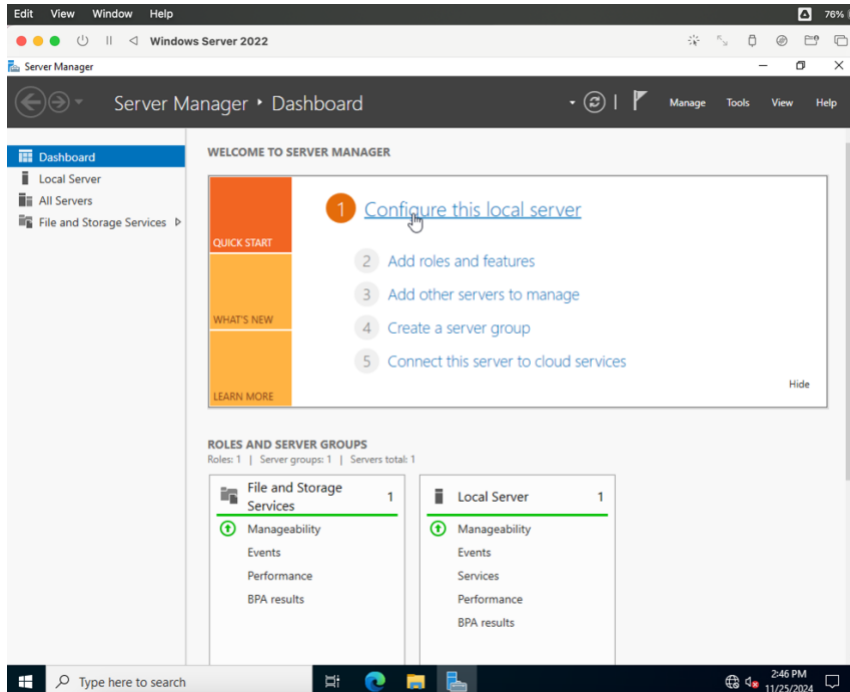
Software Requirements

- Operating system, windows 10 recommended.
- Updated drivers software
- Virtualization software Vmware, Vmbox, Parallel Desktop, UTM
- Windows Server 2022 evaluation with desktop experience.

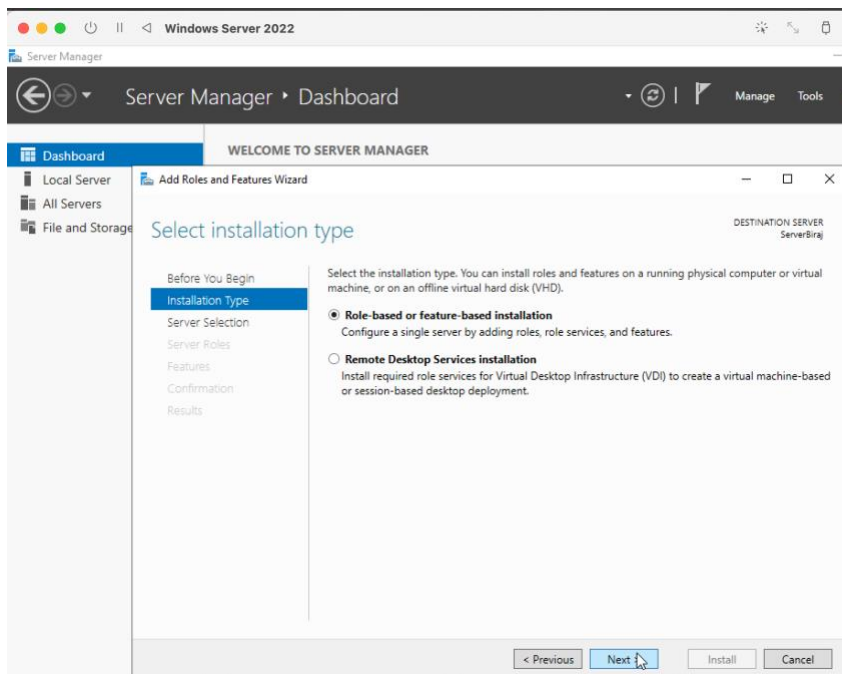
Concept

- Virtualization technology
- Emulation of Windows Server into local machine
- Server Manager
- Internet Information System
- HTML, CSS basic.

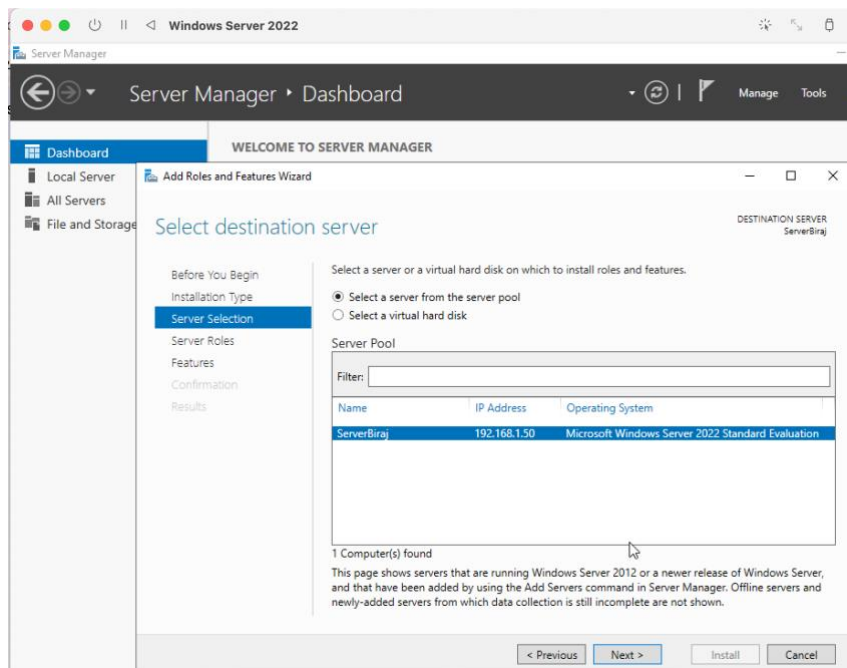
Steps to Replicate



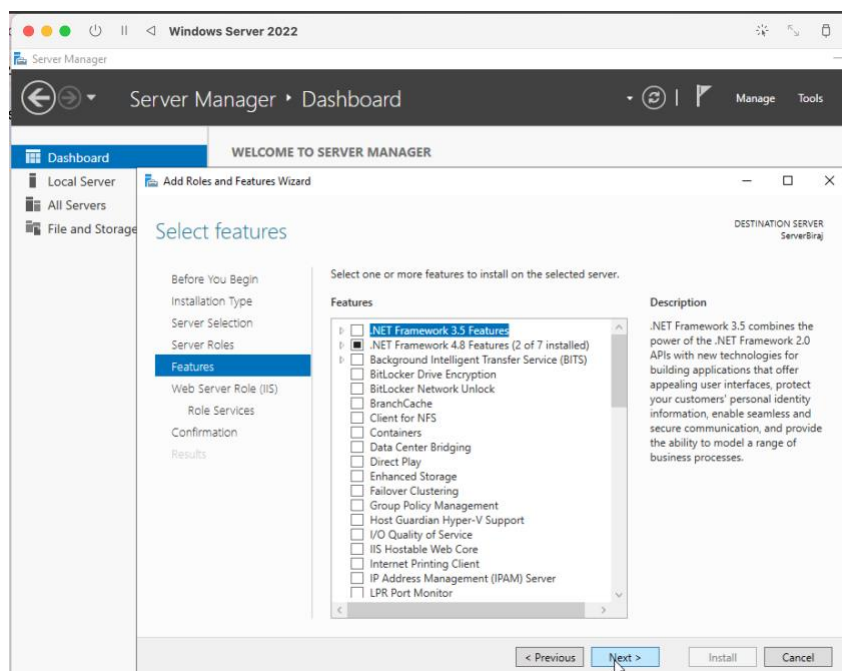
Step 1: Open the local server configuration from server dashboard settings



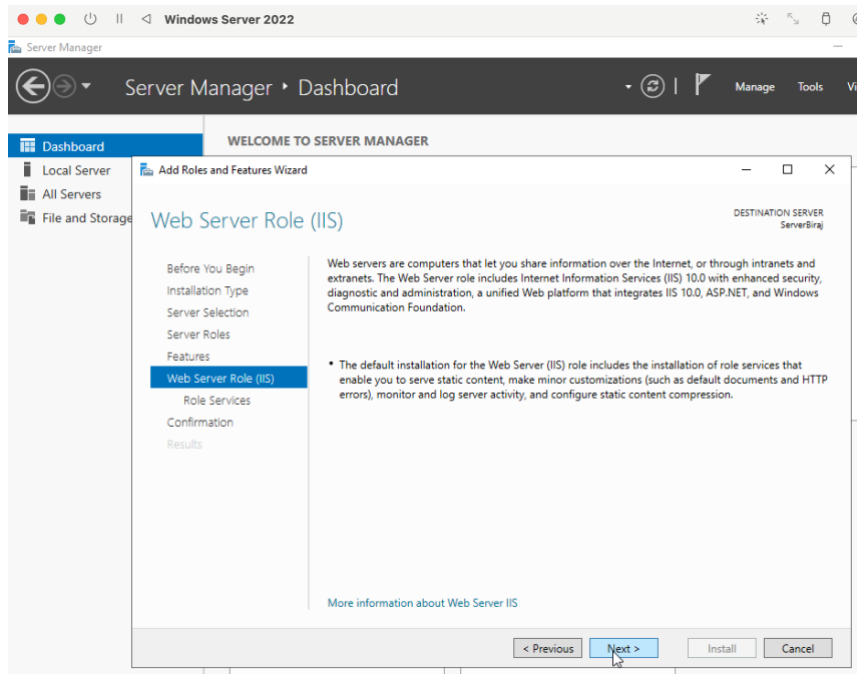
Step 2: Select Role based or Feature based installation



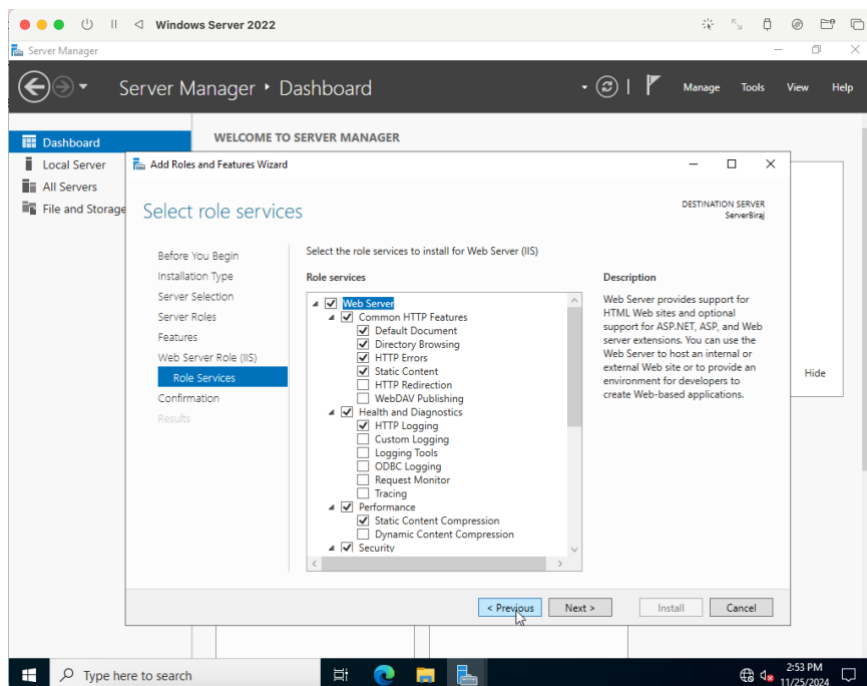
Step 3: select the server you created from server pool



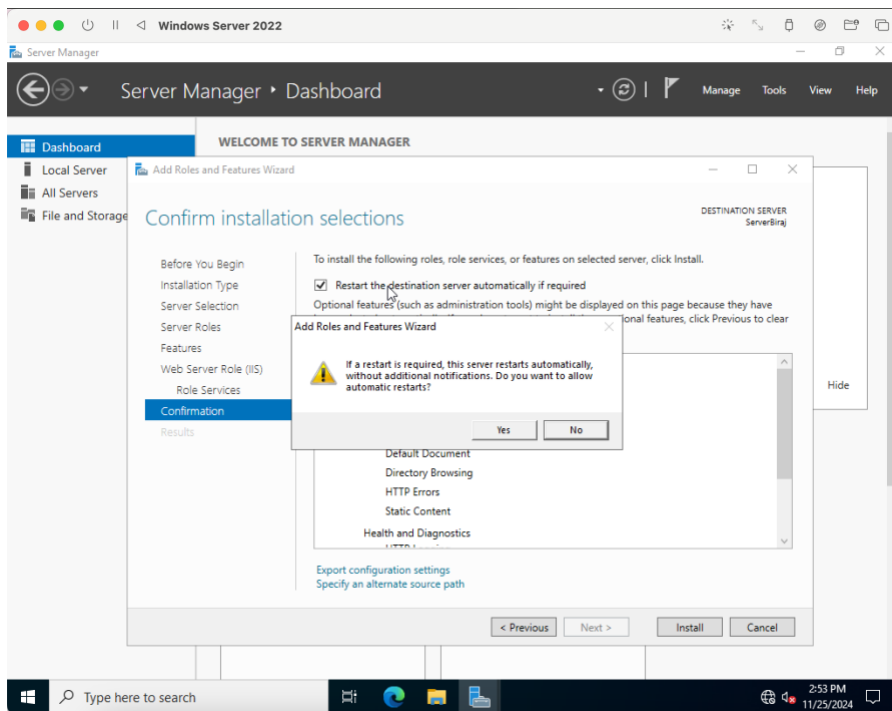
Step 4: Install Microsoft's .Net Framework 4.8



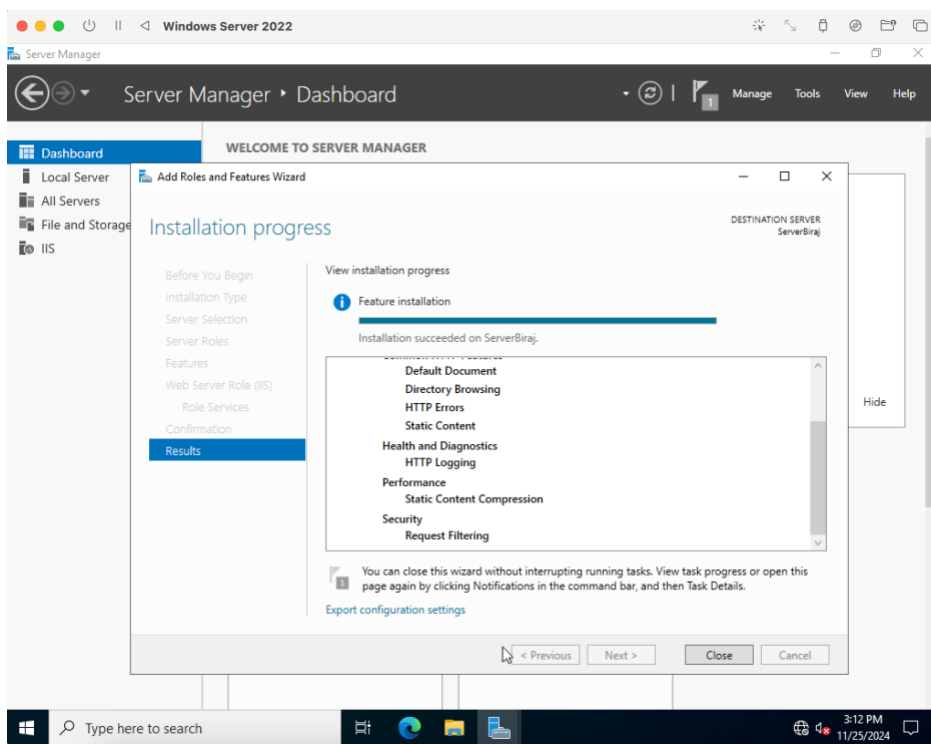
Step 5: Install Web Server Role: Internet Information System (IIS)



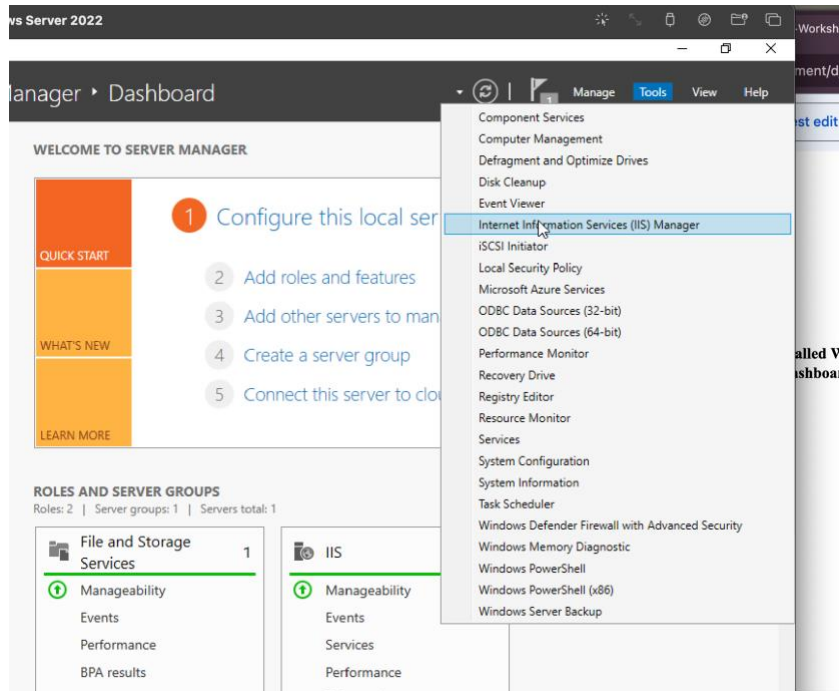
Step 6: Install web server service, provides HTML and other web hosting service support and extension



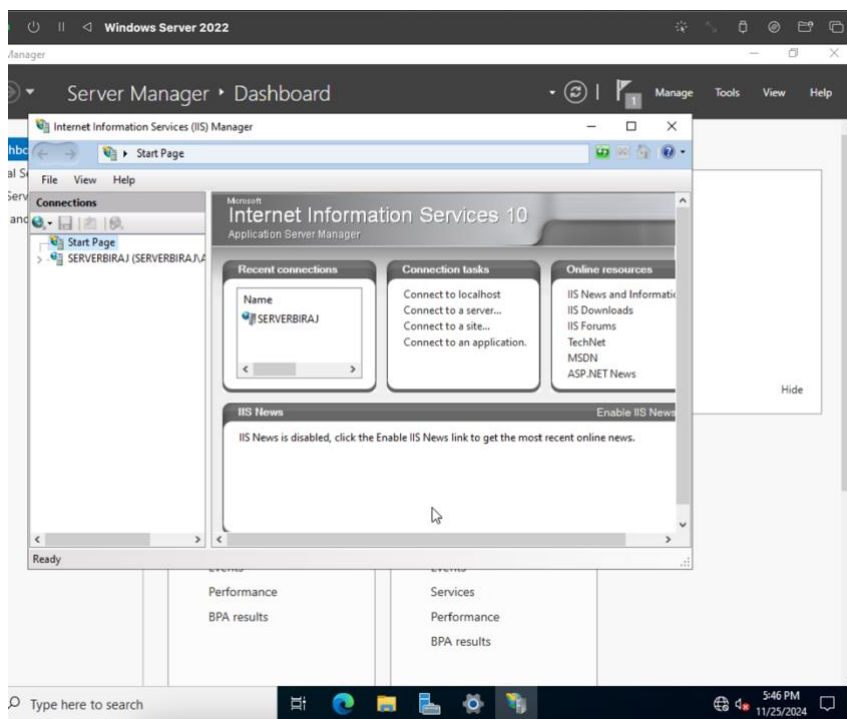
Step 8: check the restart after the process completed for fresh startup after the services installation



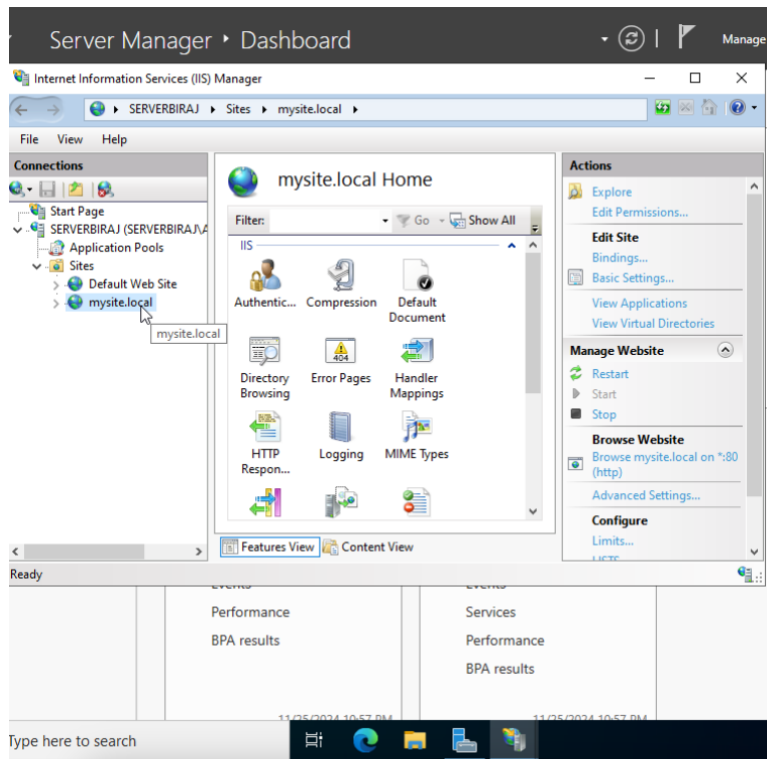
Step 7: click the close button after the successful installation of services and let the system restart



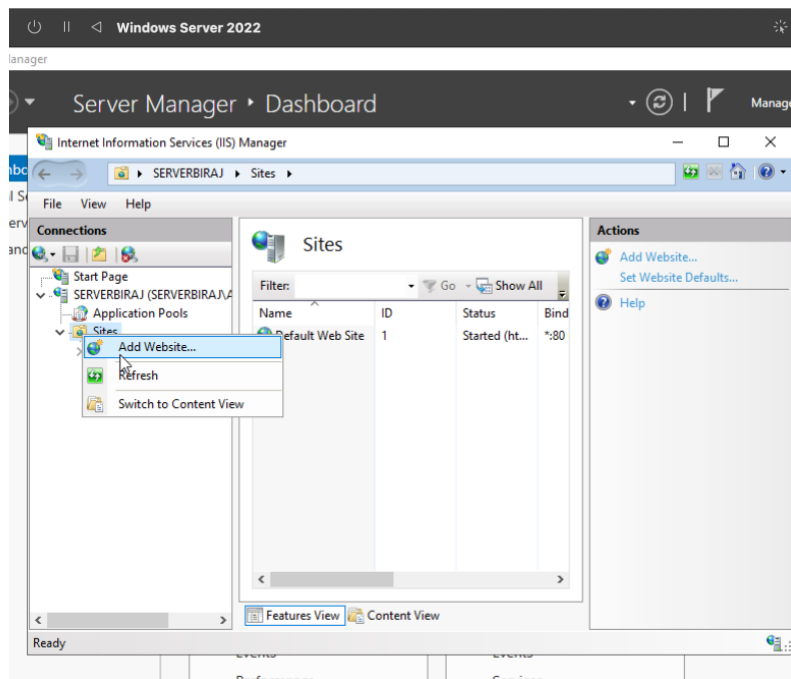
Step 10: from Tools menu select Internet Information Service Manager



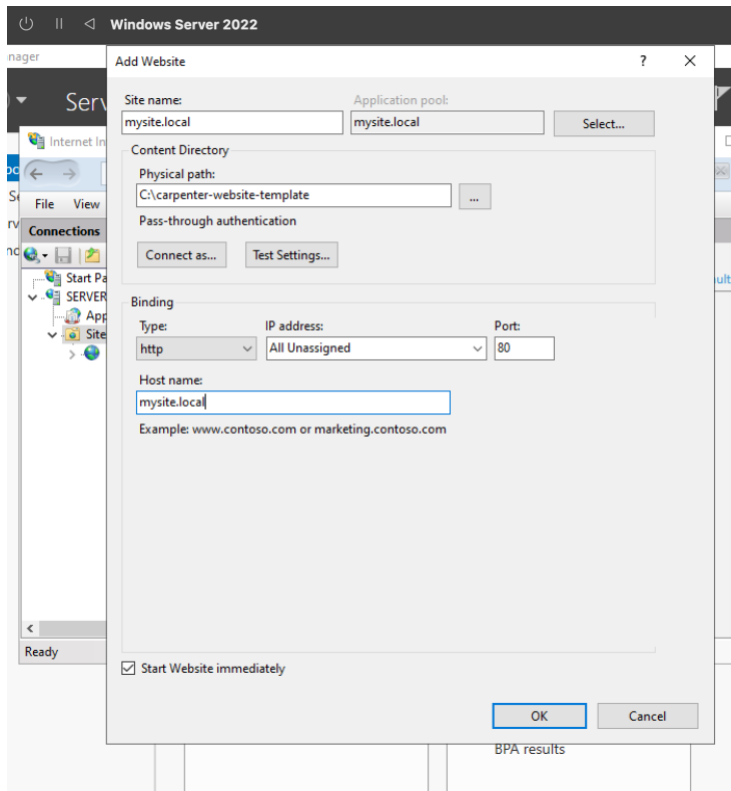
Step 9: IIS system management dashboard where web pages are hosted from



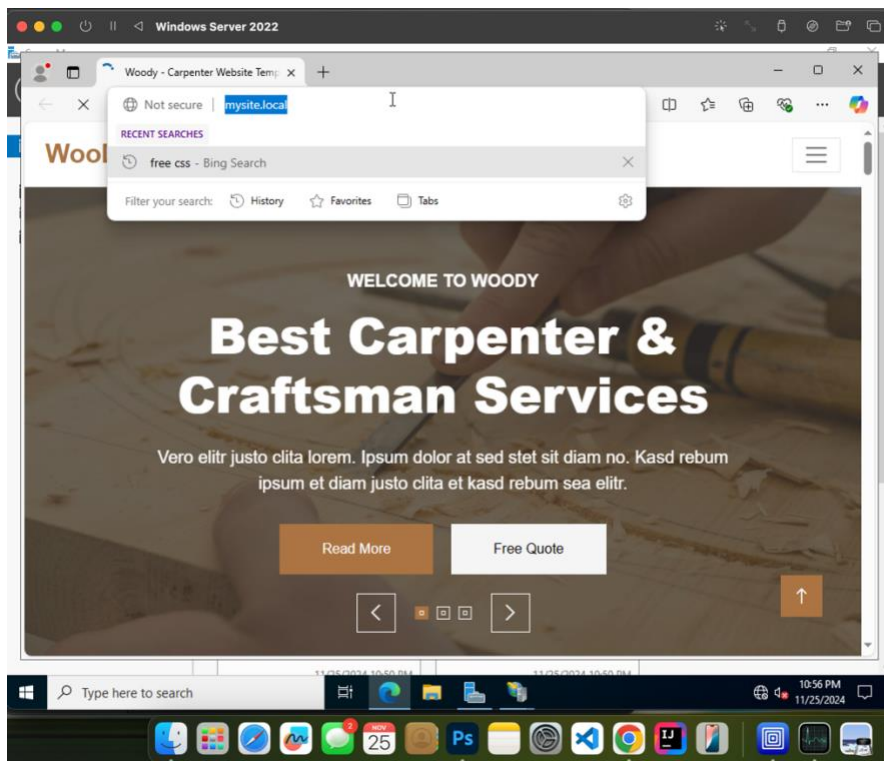
Step 11: right click on the sites option to get into add website menu



Step 12: Add your site in the sites folder



Step 13: label your site as `mysite.local` and insert the path to the website file



Step 14: `mysite.local` loaded into web browser

Conclusion

In this workshop we successfully performed to host static website from Microsoft Windows Server 2022 in our local machine by using Type 2 Hypervisor. Firstly server was configured and installed features and configured the IIS role, deployed the website, and made it accessible locally via a custom hostname. These tasks are fundamental to hosting and managing web applications in both development and production environments.

Key takeaways from the workshop included:

1. Understanding IIS and Server Roles:
2. Hands-on Deployment:
3. Practical Troubleshooting:
4. Skills for Real-world Applications:

References

Microsoft. (2024). *Microsoft Windows Server 2022*. From learn windows server:
<https://learn.microsoft.com/en-us/windows-server/get-started/removed-deprecated-features-windows-server-2022>