



Module Code & Module Title

Level 5 – Network Operating System

Assessment Type

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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

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1. Introduction

This workshop focuses on hosting a static website using Windows Server 2022 by installing and configuring the Web Server (IIS) role. The IIS role enables the server to serve web applications over a network. A static website template is downloaded from www.free-css.com, extracted, and placed in a designated folder in the C drive. The Server Manager dashboard is used to add necessary roles and features to enable the server's hosting capability. Once configured, the IIS Manager is used to create and register a new site (mysite.local) with the required credentials. The site is accessed locally via a browser. Additional steps, like editing the hosts file, ensure the site resolves properly. This workshop demonstrates the essential steps needed to deploy and manage web applications on a Windows Server.

2. objective

The objective of this workshop is to guide participants through the process of hosting a static website on Windows Server 2022 by installing and configuring the Web Server (IIS) role. Participants will learn to install the necessary roles and features using the Server Manager and configure IIS to enable hosting capabilities. They will also set up a new local site (mysite.local) in IIS Manager, link it to the website files stored on the server, and register the site in the Windows hosts file to ensure proper resolution. The workshop aims to teach the basics of deploying a static website, troubleshooting potential issues, and understanding how IIS functions as a web server to host and manage web applications efficiently.

Step 1: Open windows server's server manager dashboard and click on “Add roles and features”

VirtualBox

es Help

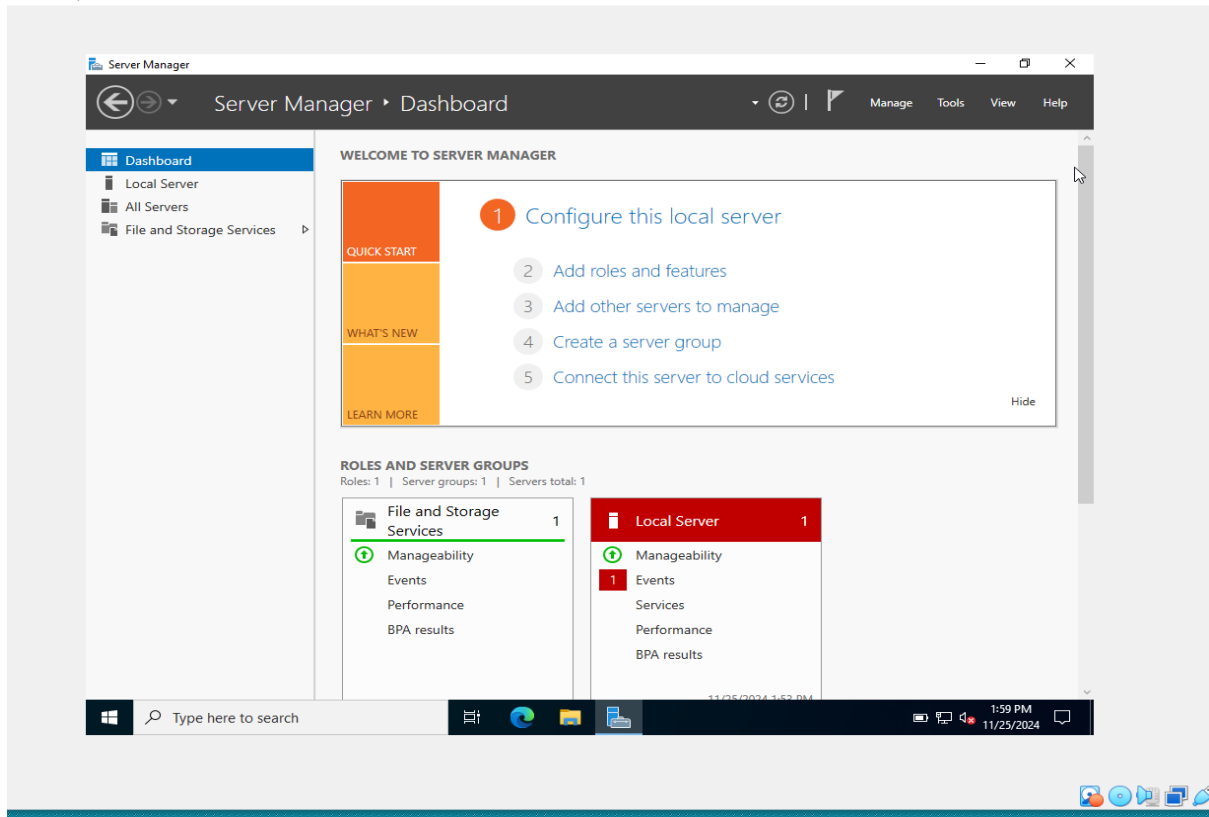


Figure 1: Opening the server manager and clicking add roles and feature

Step 2: Clicking on next button

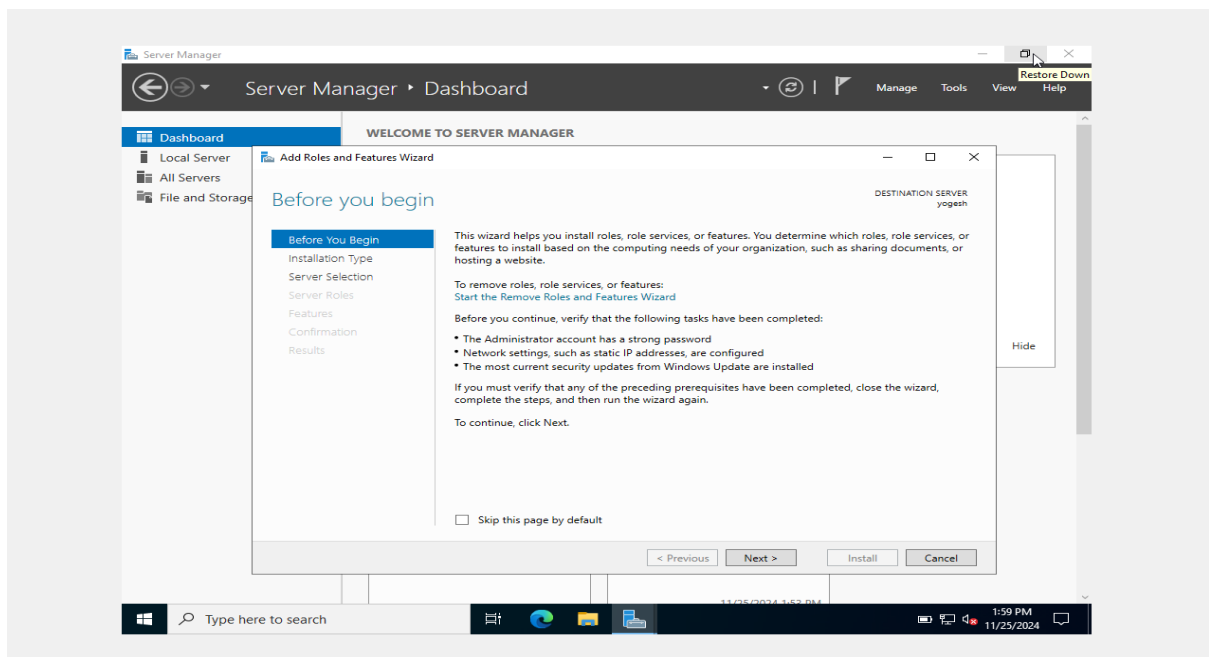


Figure 2 : Clicking on next

Step 3 : Tick “Role-based or feature-based installation”

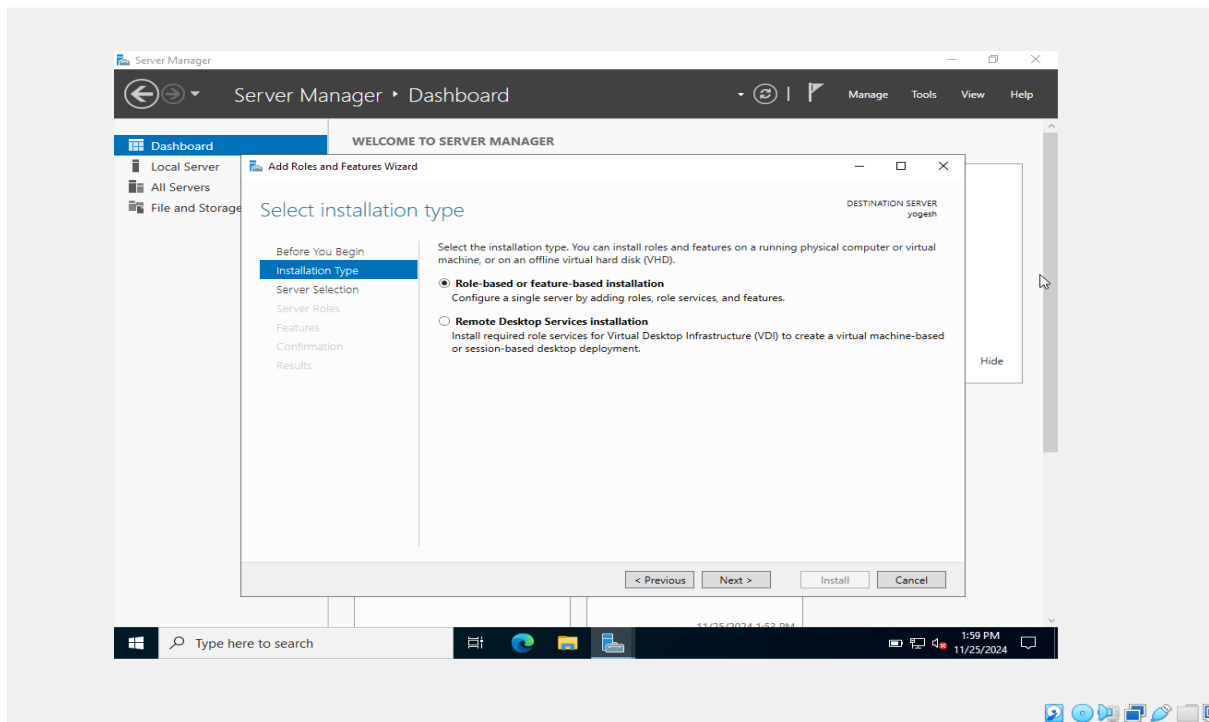


Figure 3 : choosing the role based or feature based installation

Step 4: Click on next button without changing any setting on this page

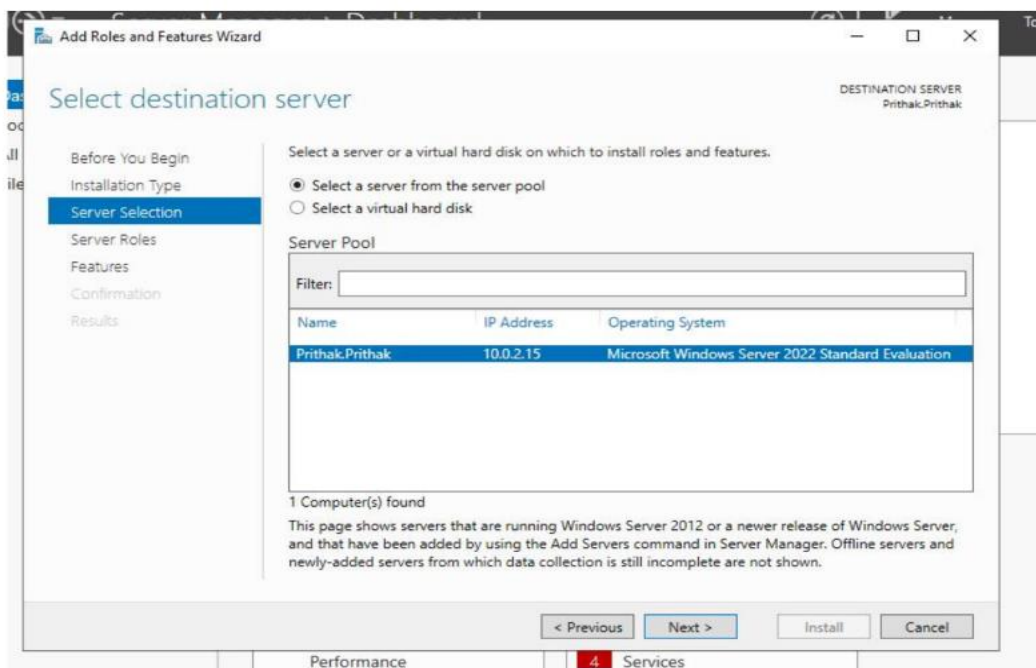


Figure 4 : Server destination selection

Step 5: Tick on “Web Server (IIS)” feature.

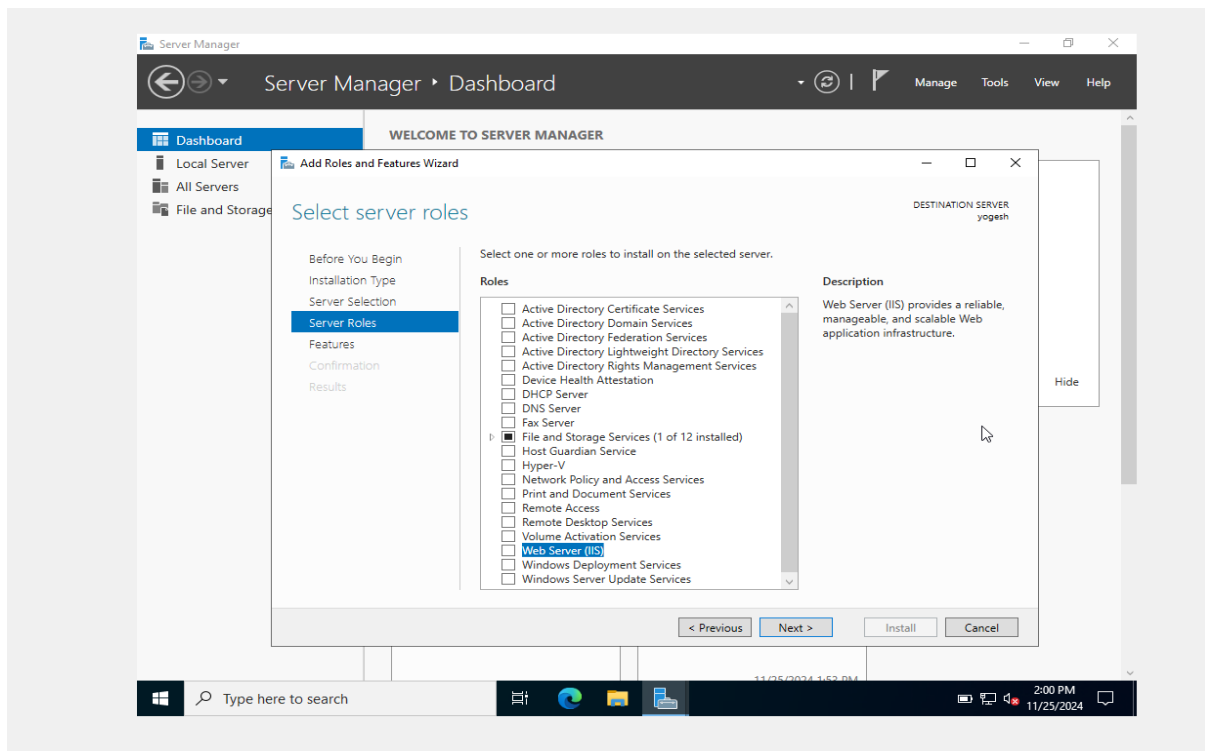


Figure 5 : Selecting server roles

Step 6: Click on “Add Features” Button

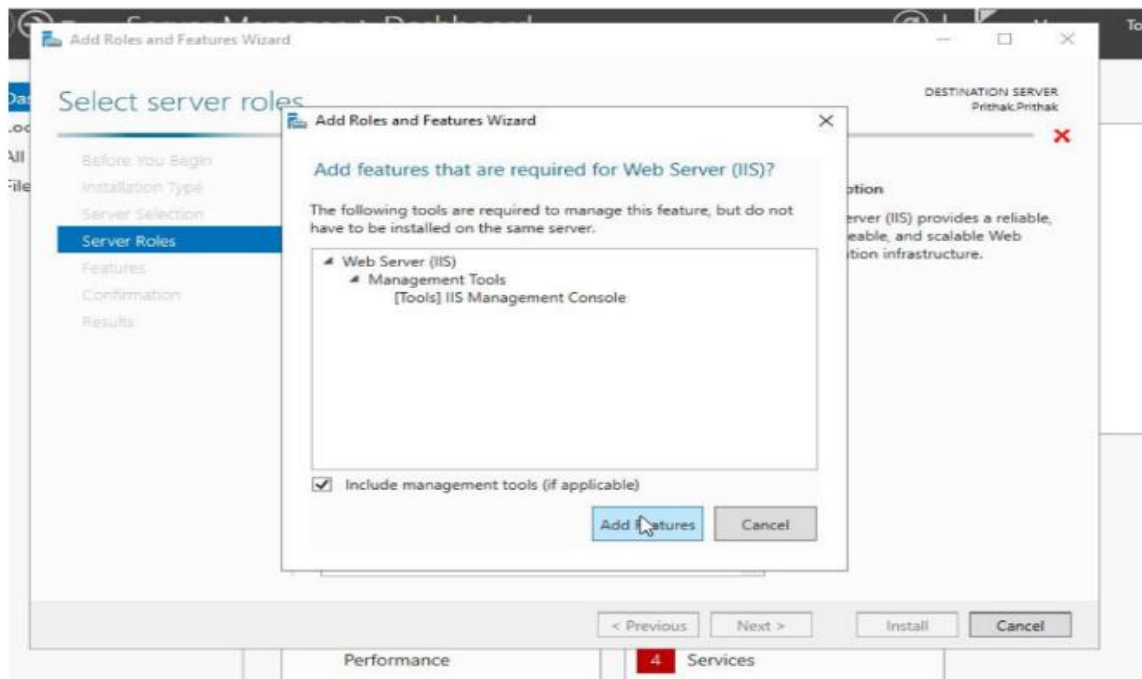


Figure 6 : Adding roles and features

Step 7: Now Web server role has been added. Now click on next.

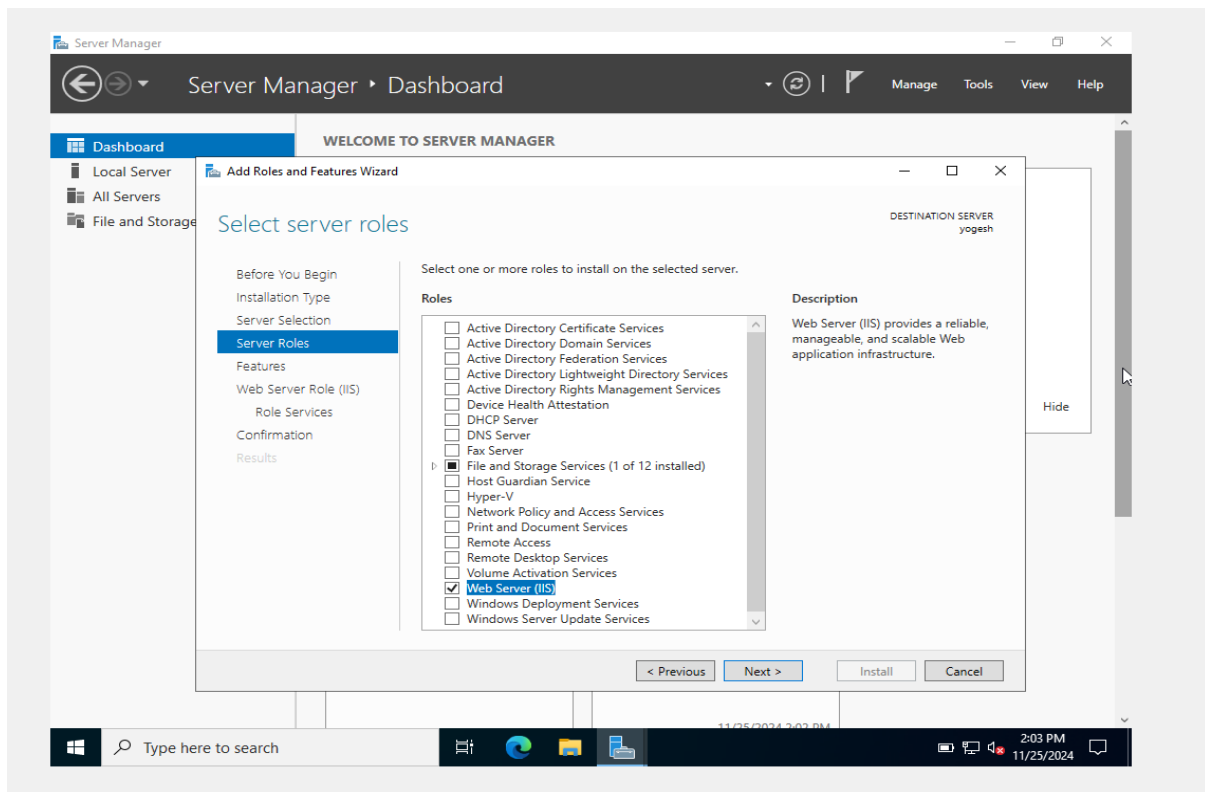


Figure 7 : The role has been selected

Step 8: Again click next leaving all default values.

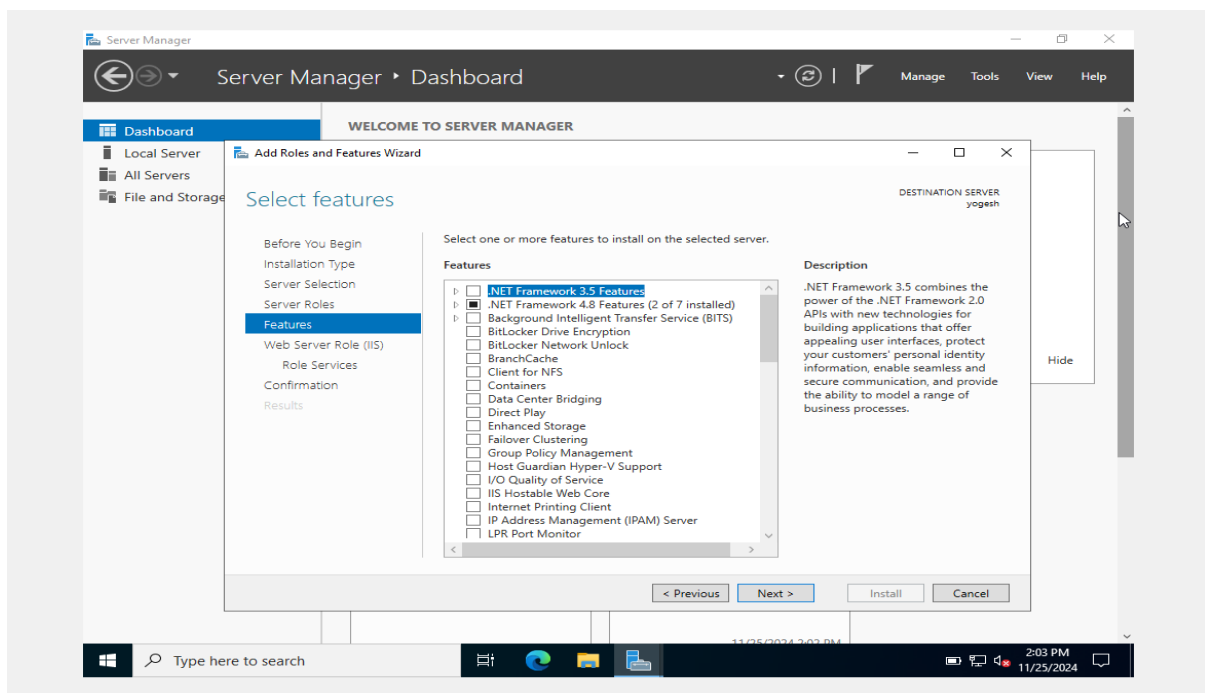


Figure 8 : Clicking next to leave others as default

Step 9: Click on next button

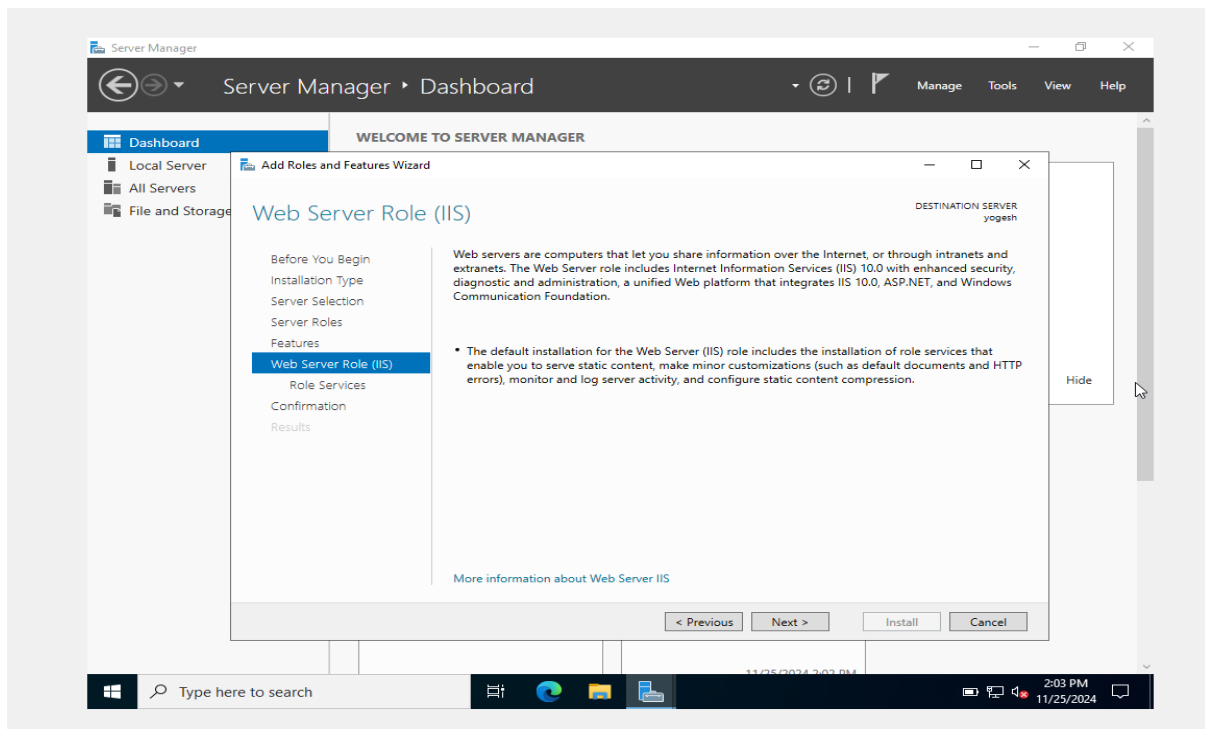


Figure 9 : Web server roles

Step 10: Click next button without changing all value.

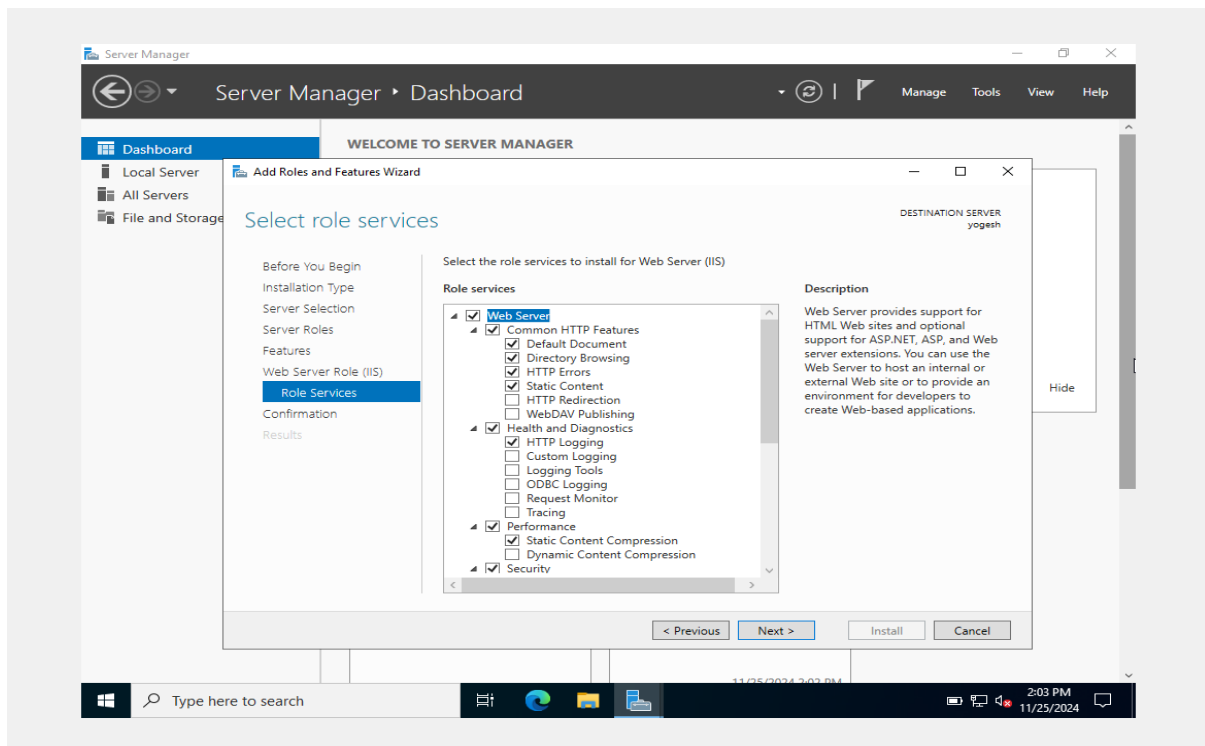


Figure 10 : Selecting role services

Step 11: Tick on “Restart the destination server automatically if required” and press yes button.

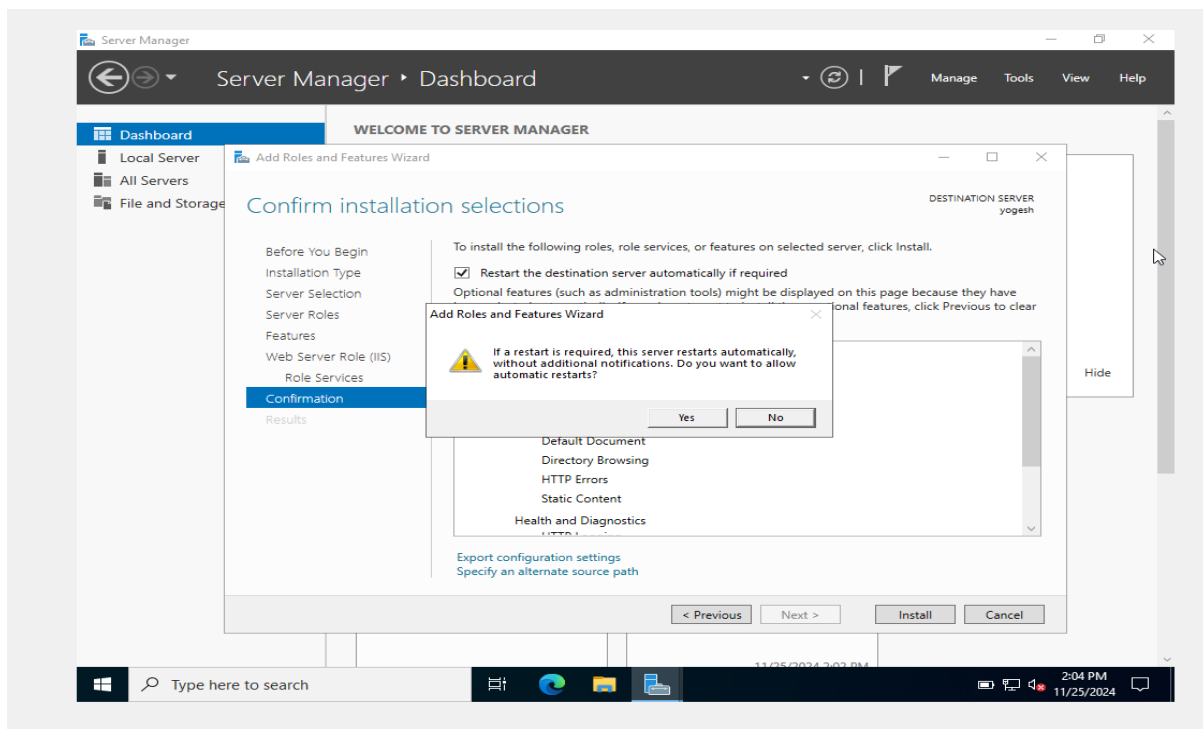


Figure 11 : Confirming installation selections

Step 12: Now it will take some time to get installed required features.

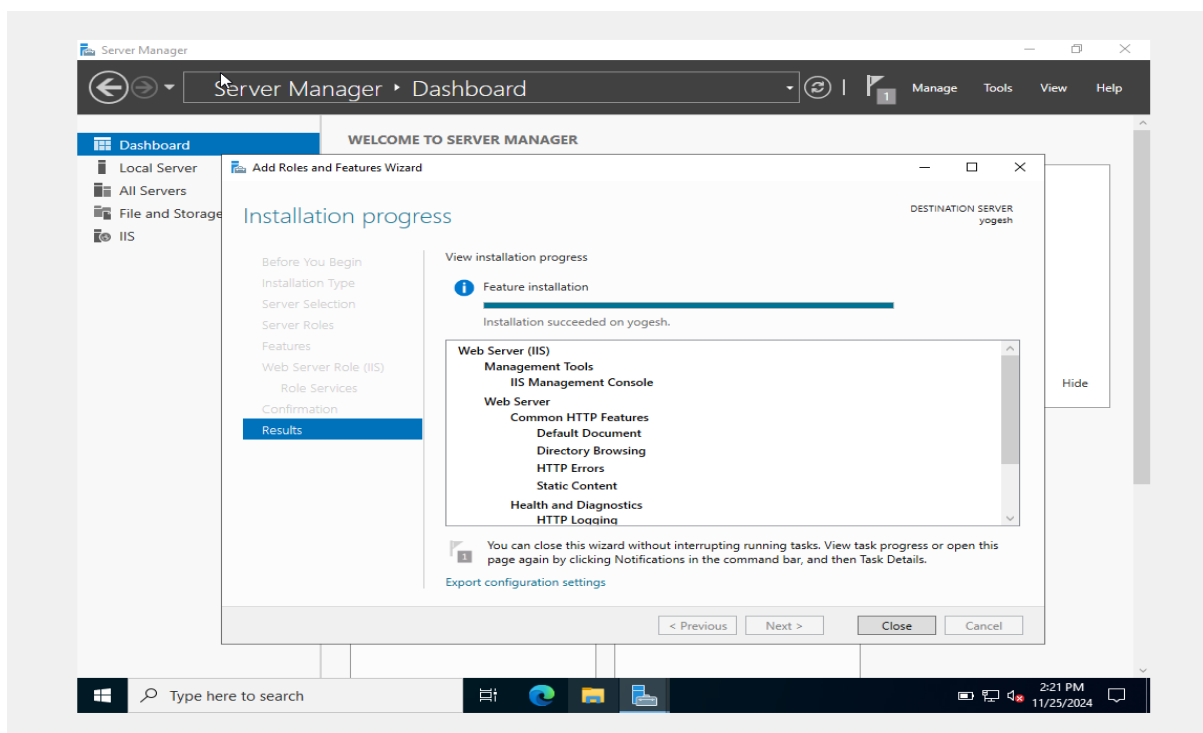


Figure 12 : Completing installation process

Step 13: We have successfully installed Web Server role in windows server. Now click on Tools menu in Server Manager Dashboard

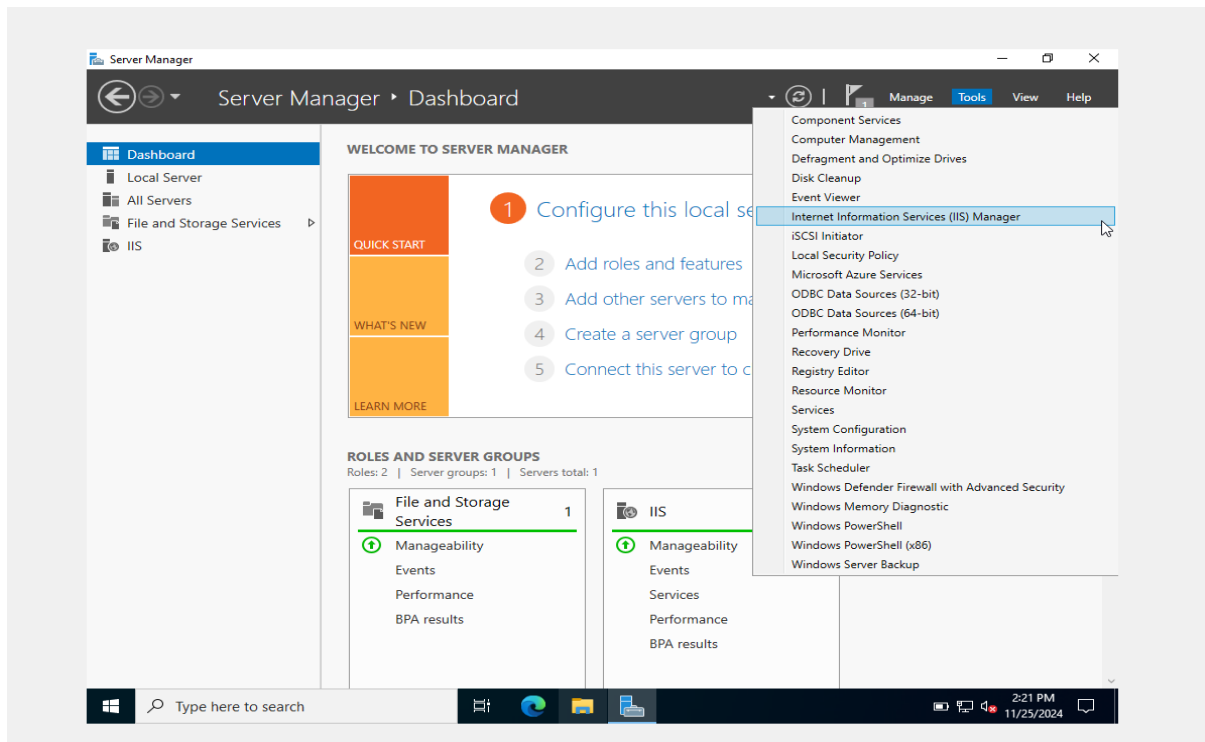


Figure 13 : Selecting Internet Information Services

Step 14: The IIS manager will be now open. We can see our server name on the left pane of the manager.

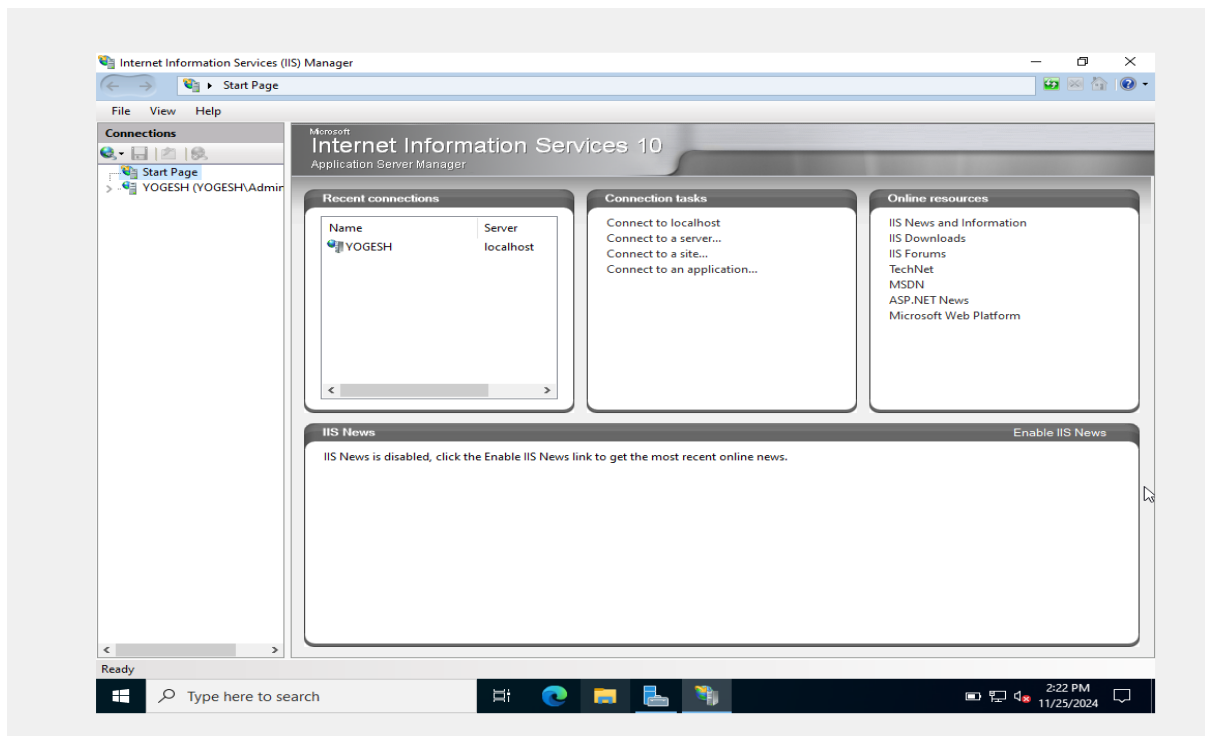


Figure 14 : Opening IIS manager

Step 15: Click on dropdown button. Now you may see “Sites” option. Again click on drop down button near Sites menu.

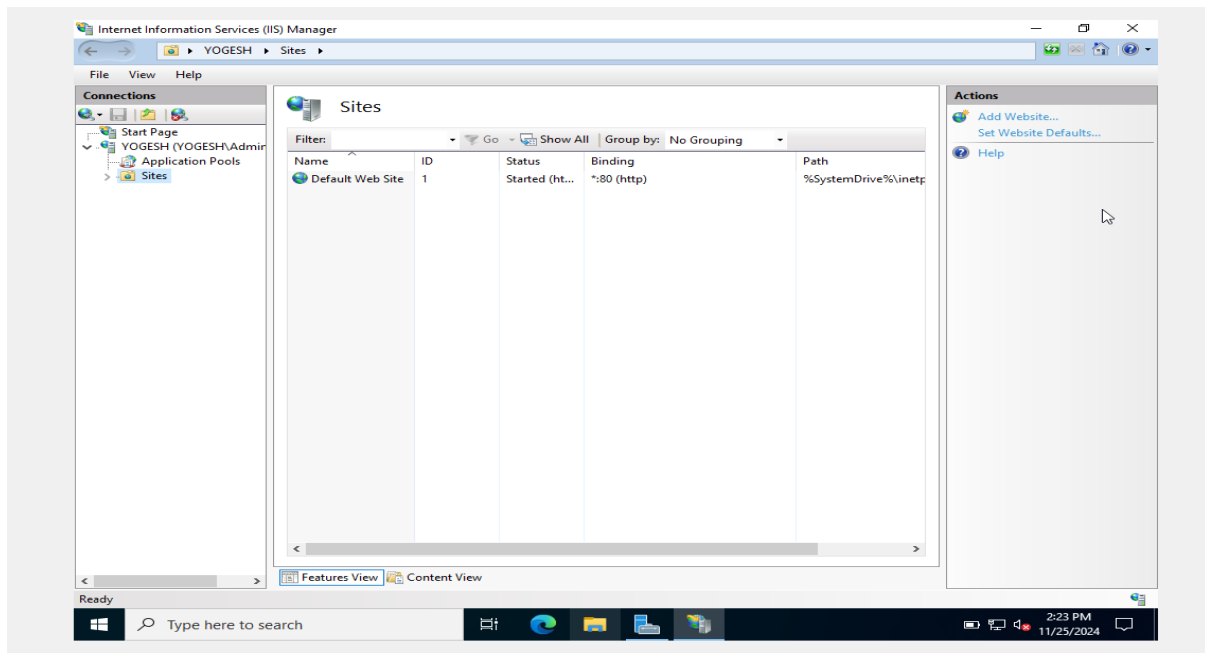


Figure 15 : Searching for sites

Step 16: As we can see there is only One web site which is default website. Now we are going to add new website. Right click on “Sites” and click on “Add website”.

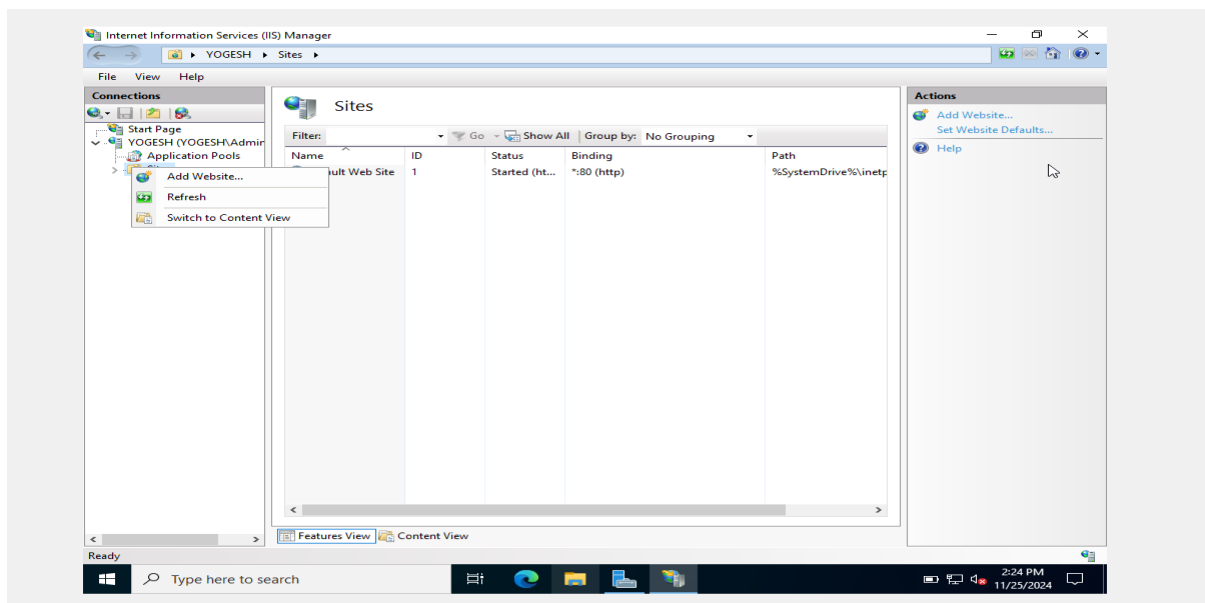


Figure 16 : Trying to add website

Step 17: Now we need to enter site credentials.

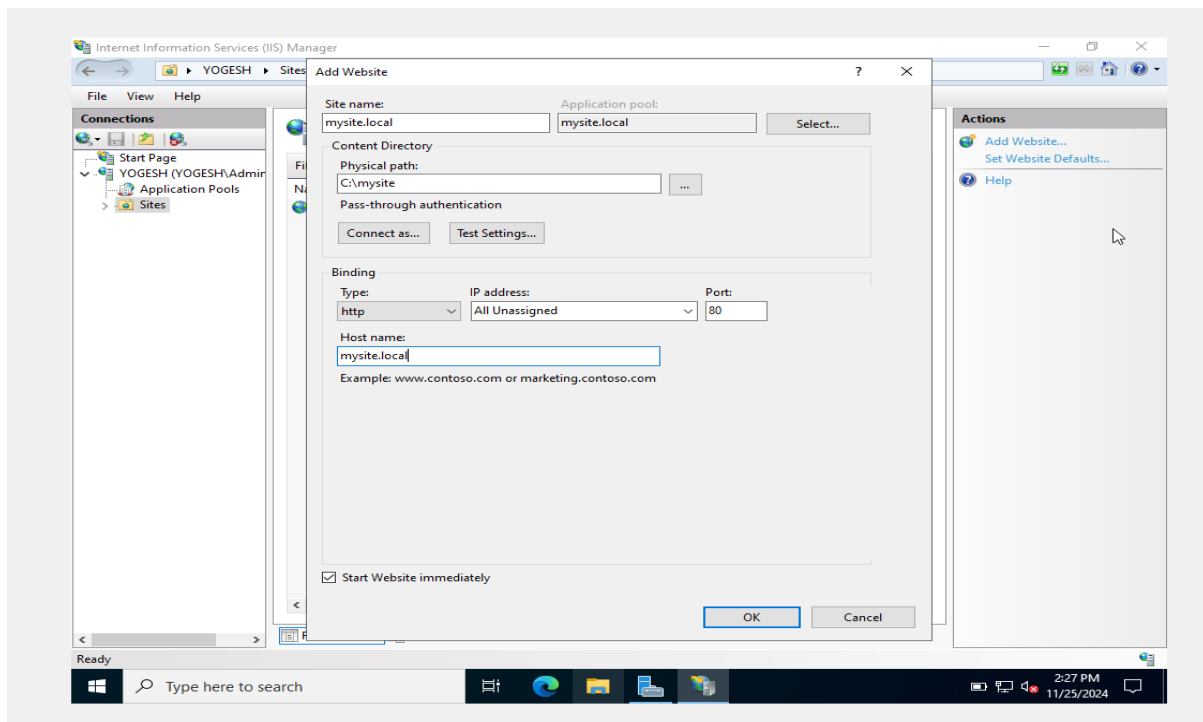


Figure 17 : Add the website

Step 18: Now we can see our site has been listed. We can browse our site by typing “mysite.local” on addressbar of web browser in windows server.

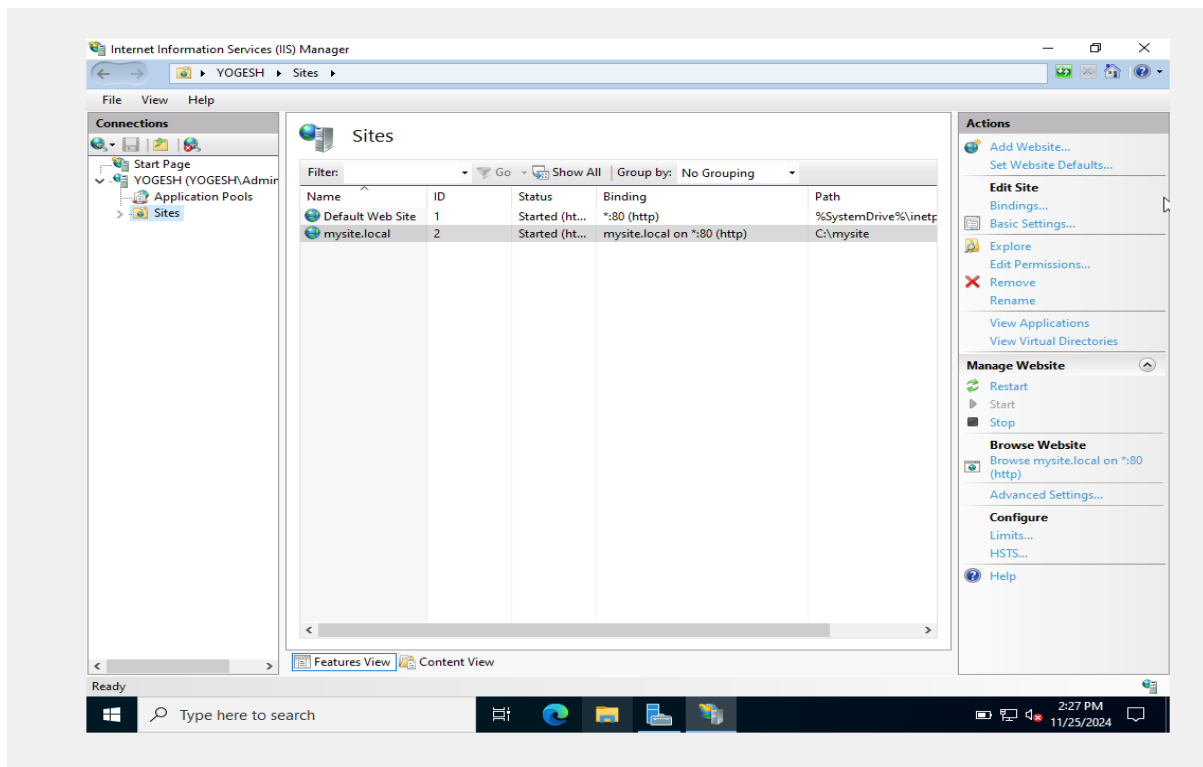


Figure 18 : Starting the newly added website

Step 19: If you faced this issue then we don't have to worry. It means we need to register our site in host file too.

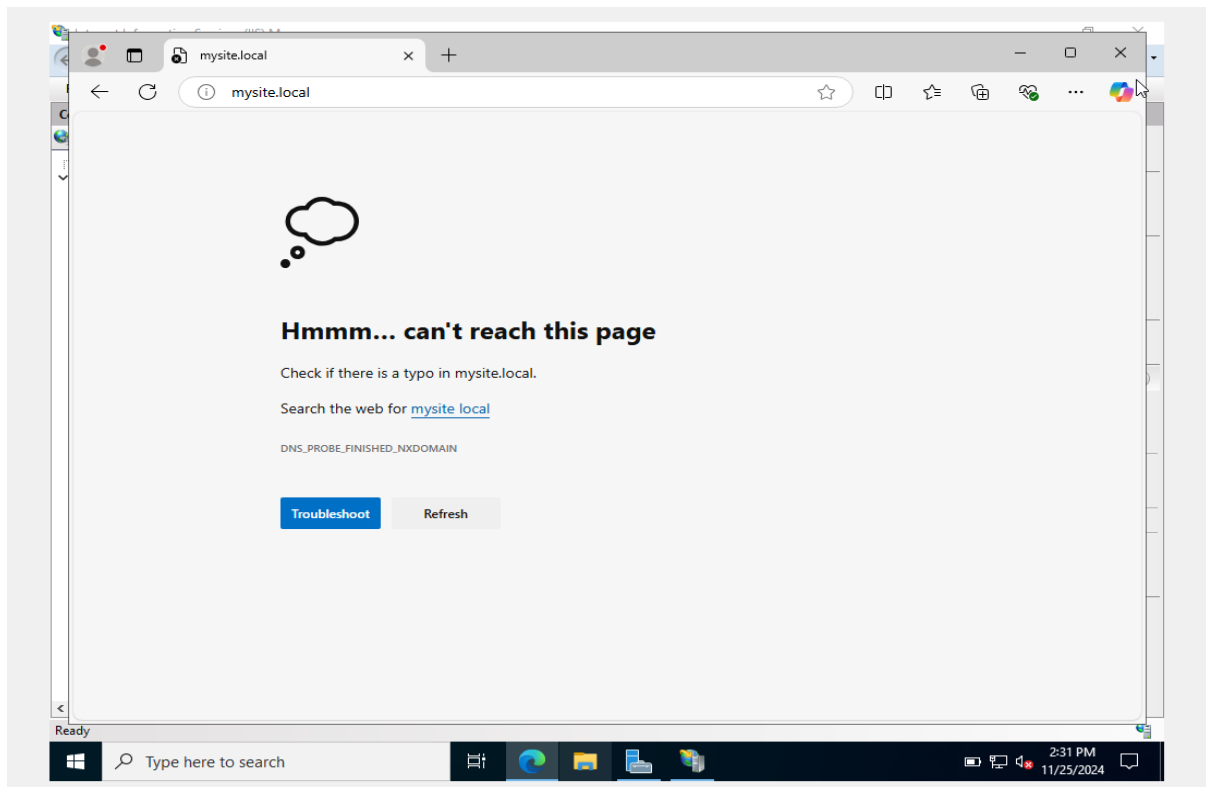


Figure 19 : An error has occurred

Step 20: To register our site in host file

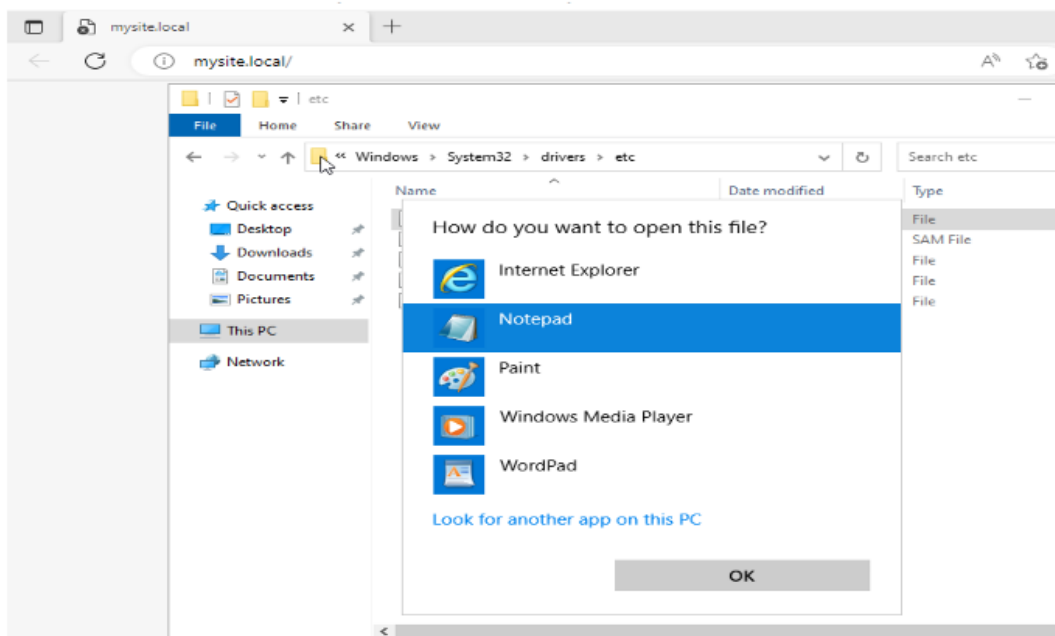


Figure 20 : Opening the host file in notepad

Step 21 : Add the following line at the end of the file:
127.0.0.1 mysite.local

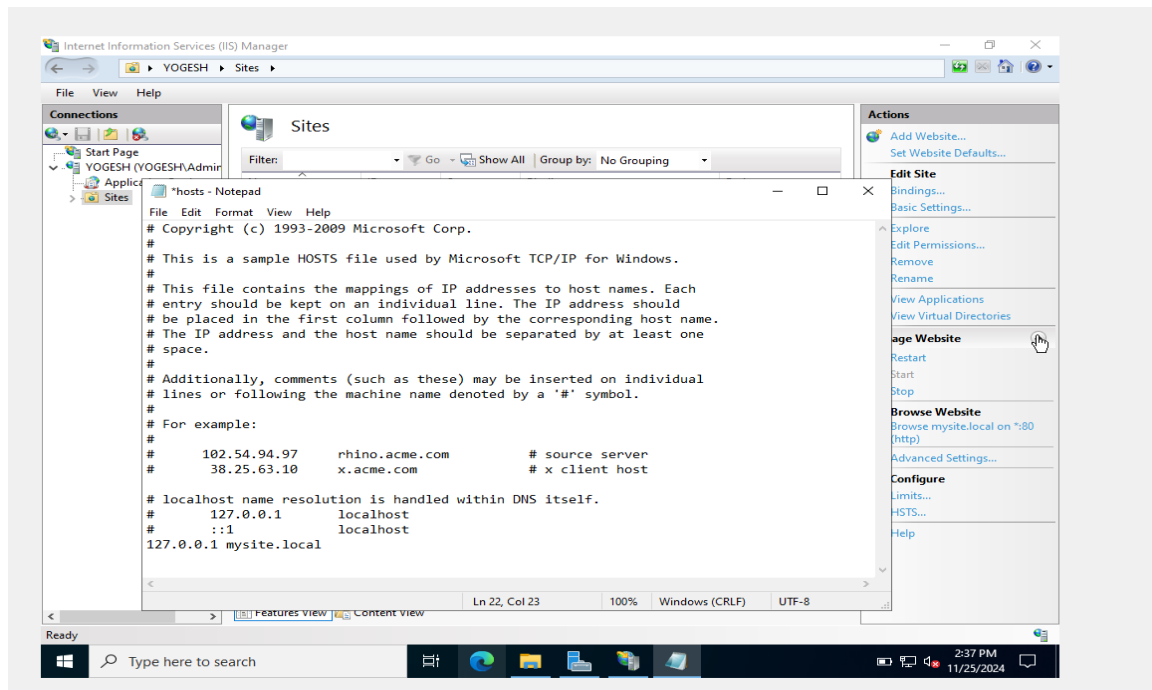


Figure 21: Adding "127.0.0.1 mysite.local" in file

Step 22: Now reload the webpage

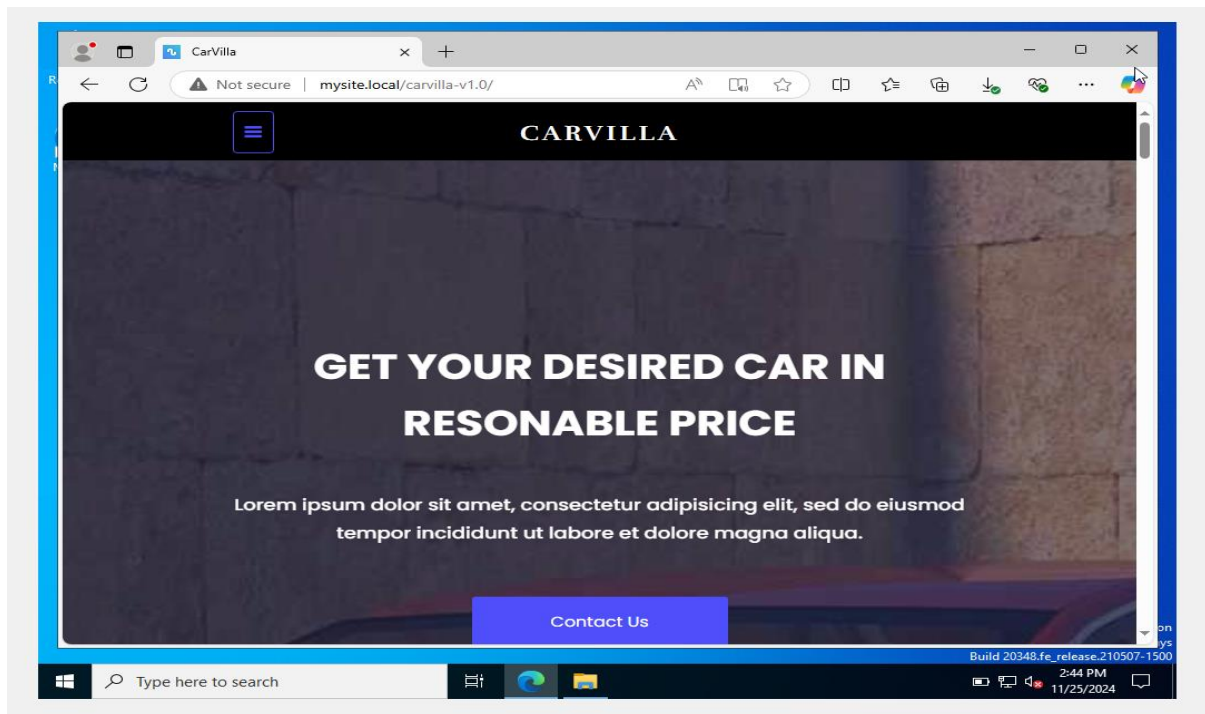


Figure 22 : The website is working

3. Conclusion

This workshop successfully demonstrated how to host a static website on Windows Server 2022 using the Web Server (IIS) role. By following the step-by-step process, participants learned to install necessary server roles and features, configure IIS, and host a local site (mysite.local). The process included linking the static website files to the IIS server, setting up site credentials, and resolving local access issues through the Windows hosts file. After completing the setup, the website was accessed and verified in a browser. This workshop provided practical knowledge of deploying and managing websites on Windows Server, highlighting the capabilities of IIS for hosting web applications. Participants are now equipped to handle basic web hosting tasks and troubleshoot common issues effectively.