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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

The purpose of this log is to provide practical knowledge on how to host a website on a computer. It covers the roles and features available in Server Manager. Static websites are composed of HTML, CSS, and JavaScript files that are served directly to the user's browser. While dynamic websites generate content on the fly based on user input or database queries (Hillar, January 2016). A static IP address is a permanent internet address assigned to a device, while a dynamic IP address is a temporary one that changes periodically. (Vaughan-Nichols, September 23, 2019)

2. Objectives

The main objective of this report is to gain practical experience in installing roles and features in Windows Server 2022 to host a static website. It focuses on understanding the server environment configuration and learning the steps to effectively set up and manage a web server.

3. Require tools and concepts

We need to download a template from www.free-css.com, extract it, create a folder on the C drive, and then copy all the extracted files into that folder.

Step 1: Launch the Server Manager dashboard on Windows Server and selecting "Add roles and features."

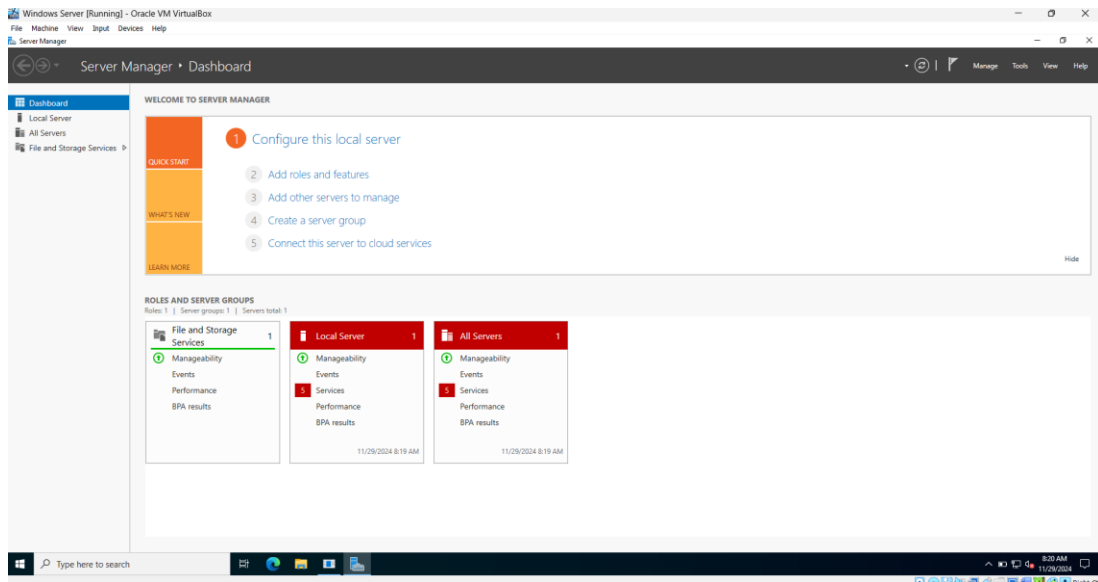


Figure 1 Add roles and features

Step 2: Click the "Next" button to proceed.

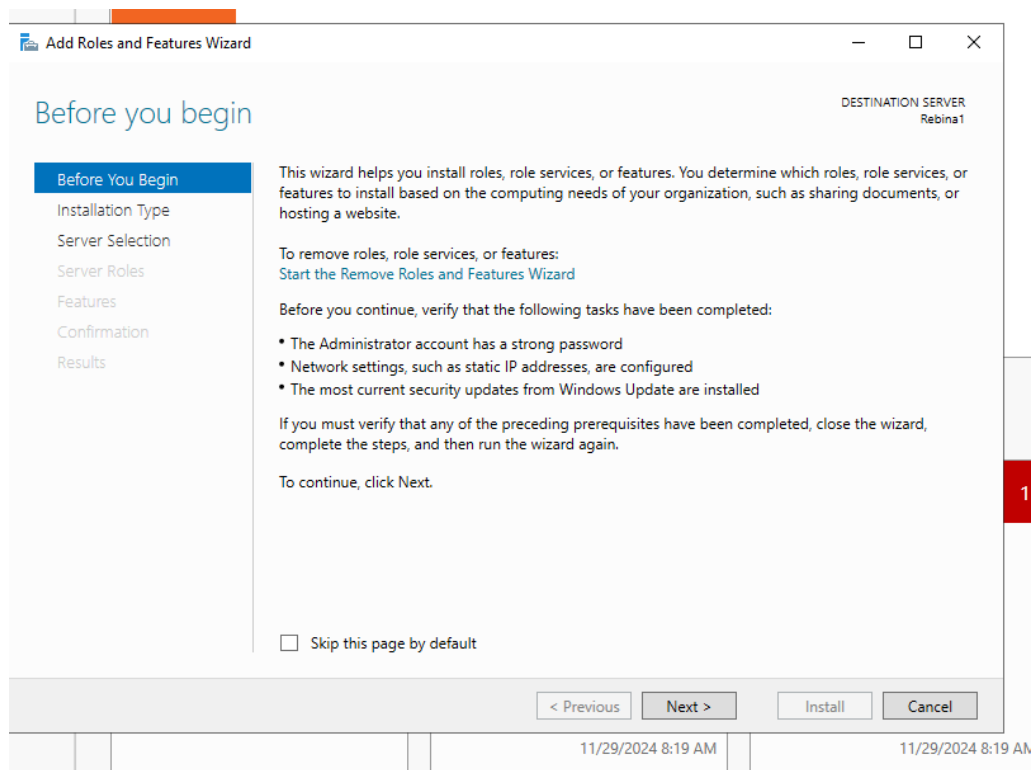


Figure 2 Clicking Next without changing

Step 3: Choose the option for “Role-based or feature-based installation” by ticking the box.

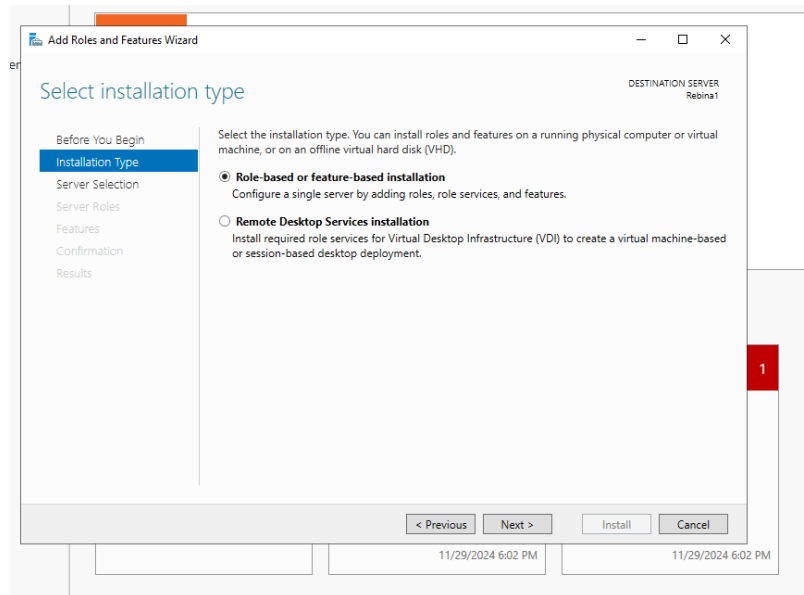


Figure 3 Selecting Role-based or feature-based installation

Step 4: Hit the "Next" button without making any changes on this page.

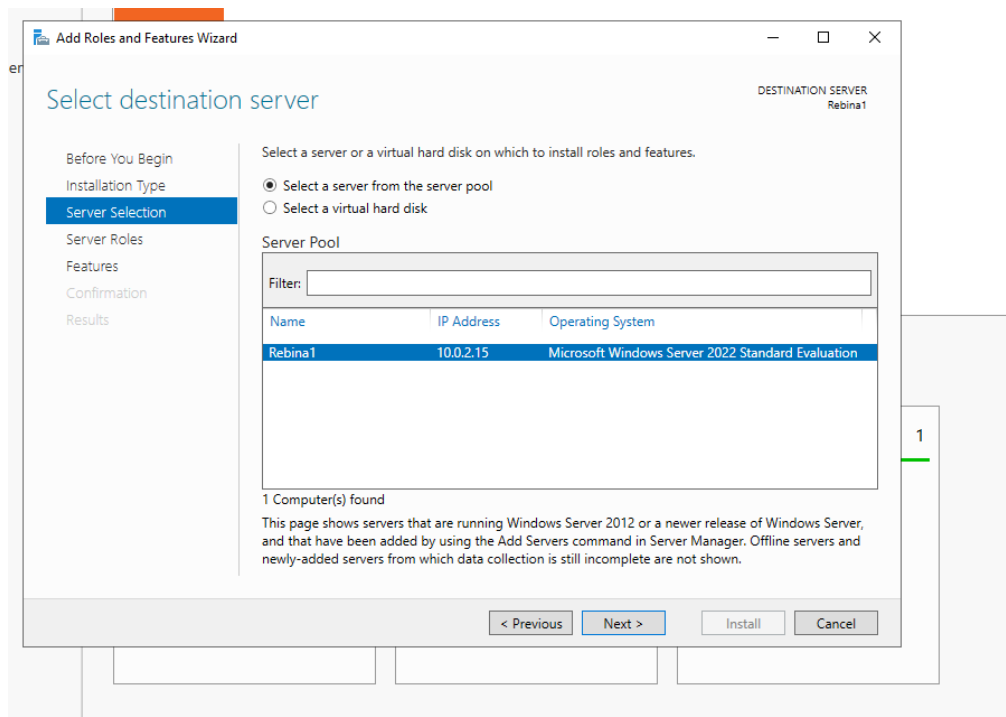


Figure 4 Clicking next without changing

Step 5: Check the box for the "Web Server (IIS)" feature. This role allows us to host websites and web applications on the server.

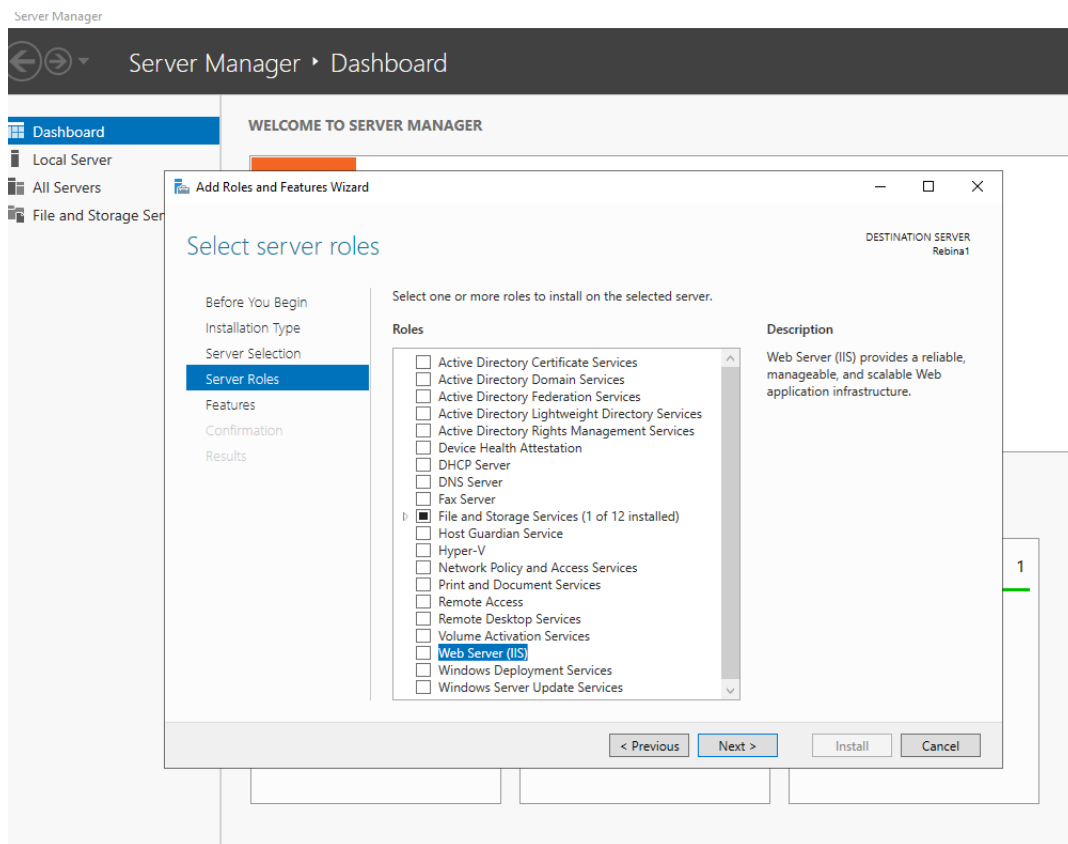


Figure 5 Clicking on Web Server (IIS)

Step 6: Click on the "Add Features" button to continue.

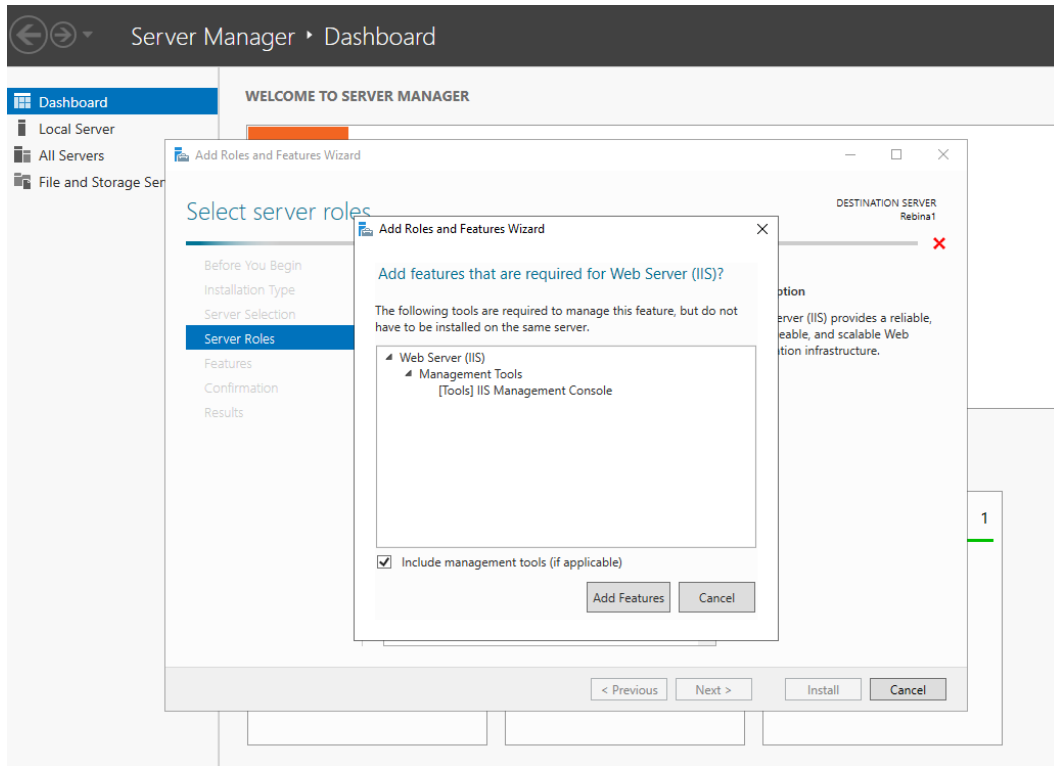


Figure 6 Clicking on Add Features

Step 7: Now that the Web Server role has been added, click on "Next."

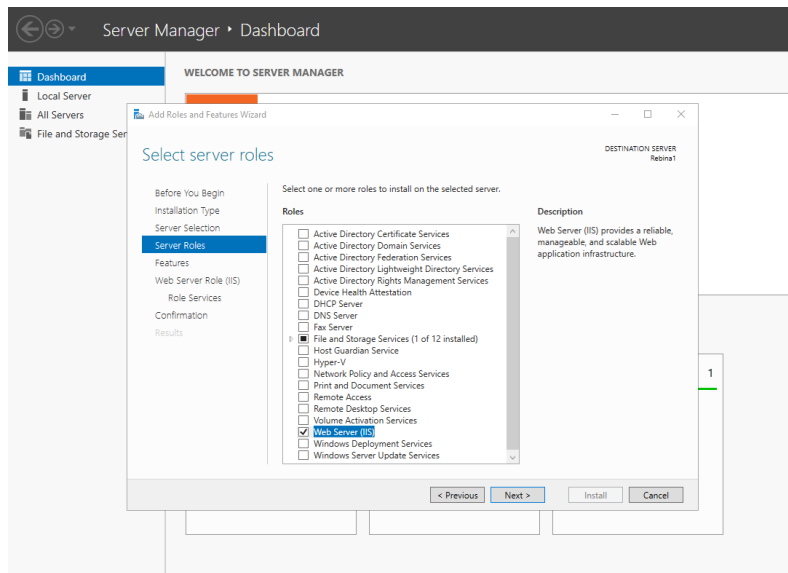


Figure 7 Web Server(IIS) has been added and clicking on next

Step 8: Again, click "Next" while keeping all the default values.

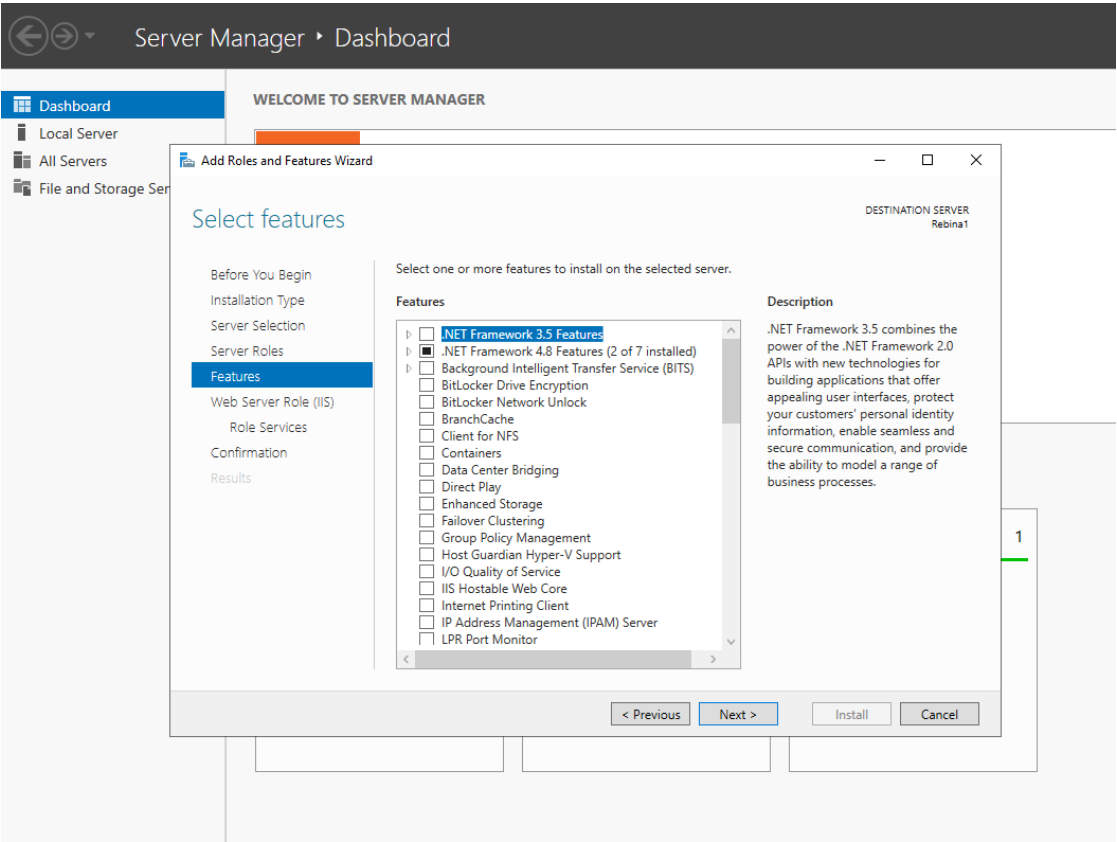


Figure 8 Again clicking next leaving all default values

Step 9: Click on the "Next" button to proceed.

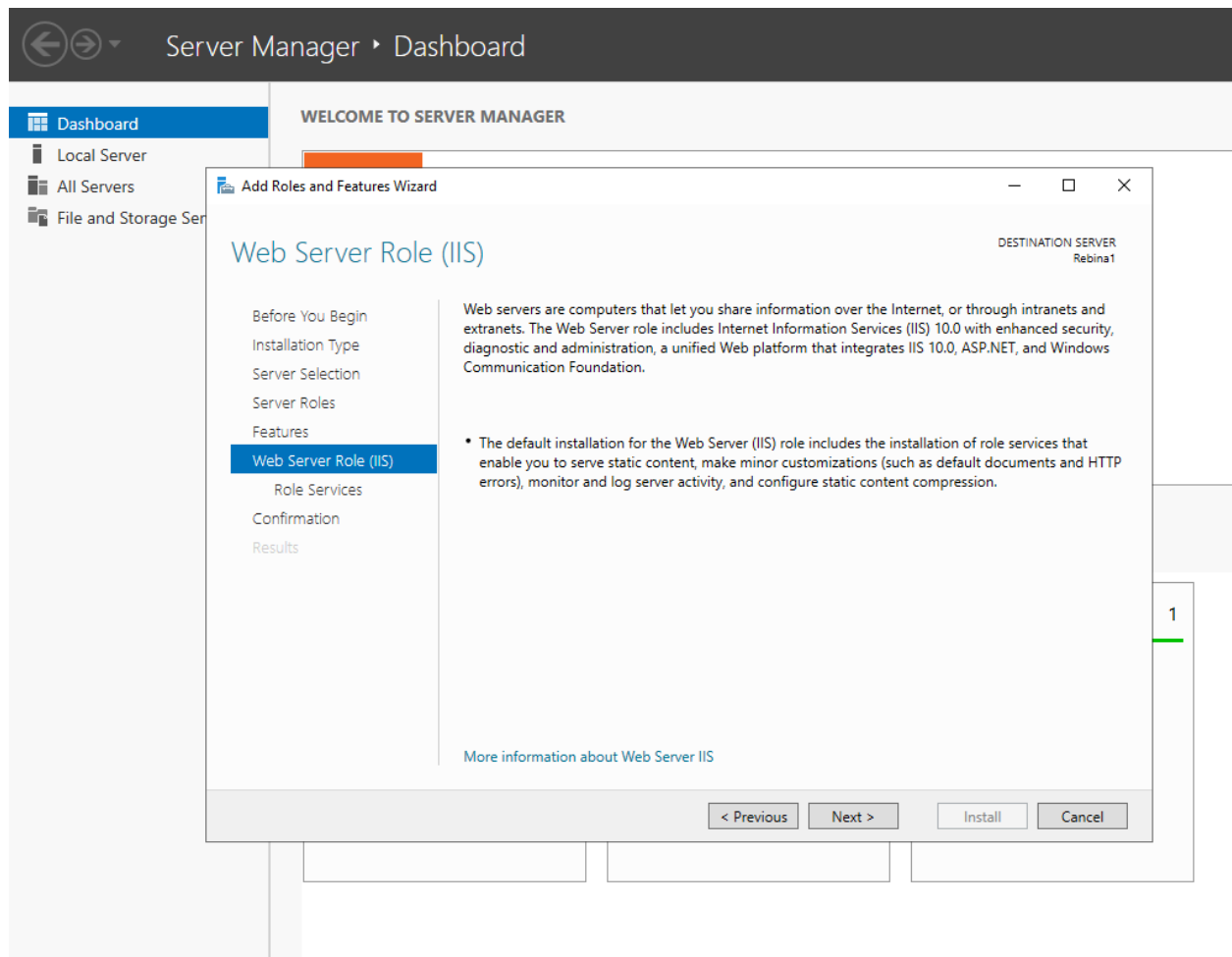


Figure 9 Clicking on next button

Step 10: Just hit the "Next" button without altering any values.

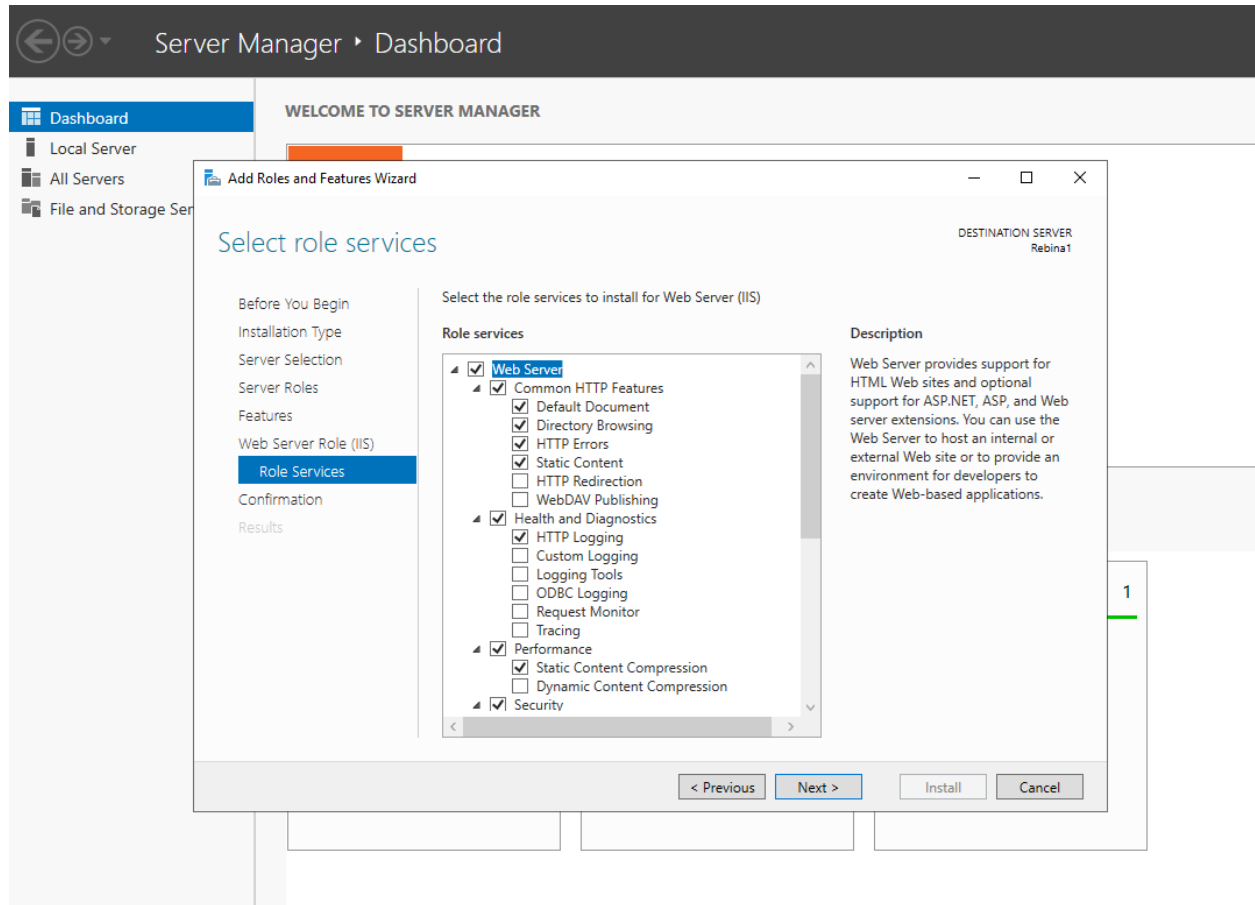


Figure 10 Without changing any value clicking on next button

Step 11: Check the box for "Restart the destination server automatically if required" and click the "Yes" button.

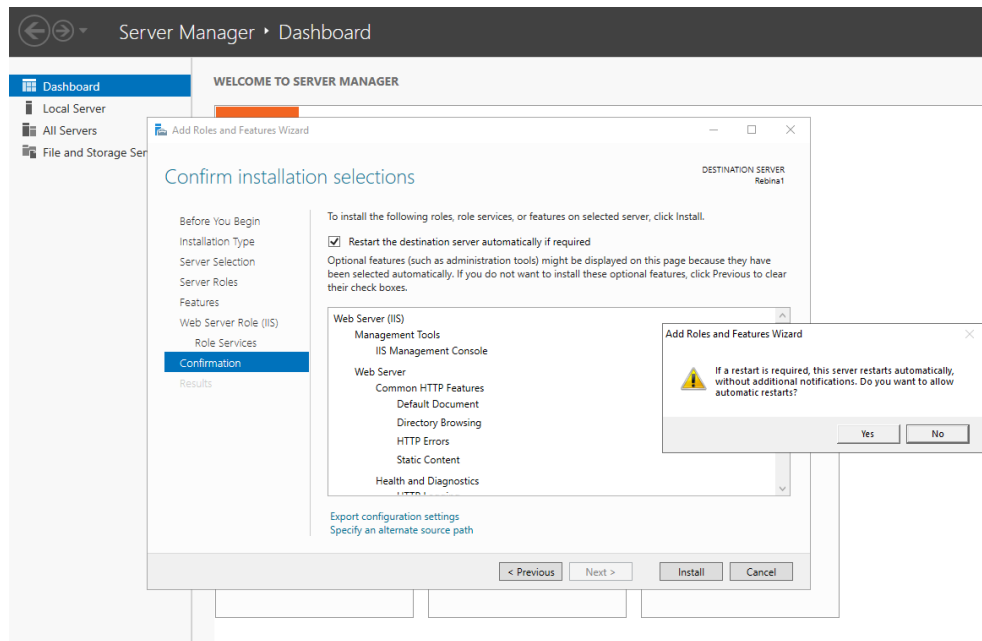


Figure 11 Clicking on the Yes button if required

Step 12: It might take a bit of time for the required features to install.

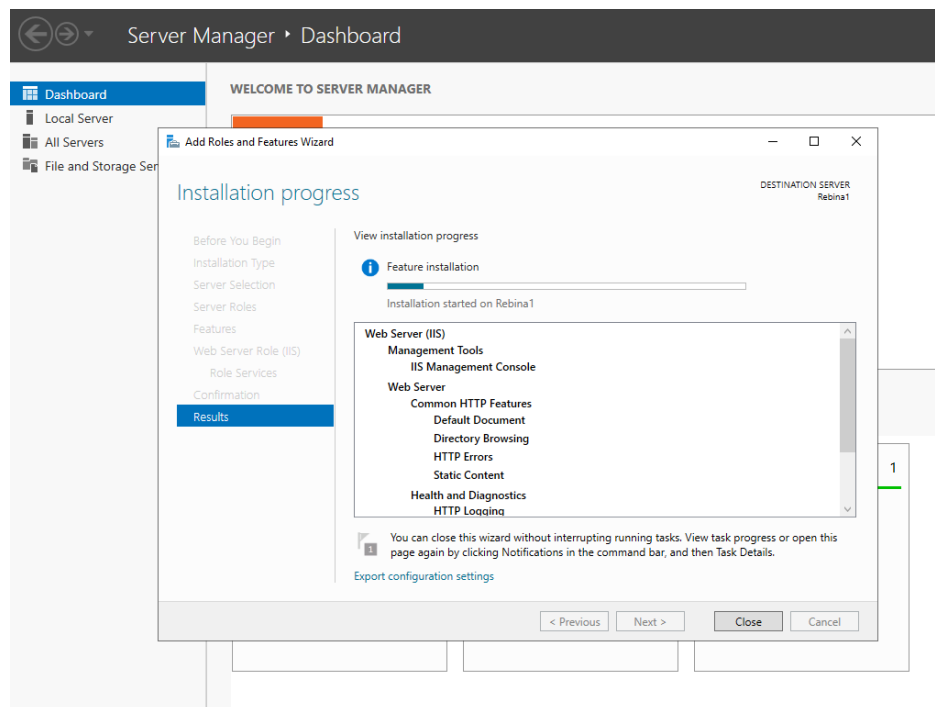


Figure 12 Installing

Step 13: We have successfully installed the Web Server role on Windows Server. Now, click on the "Tools" menu in the Server Manager Dashboard and look for "Internet Information Services (IIS)" and click on it.

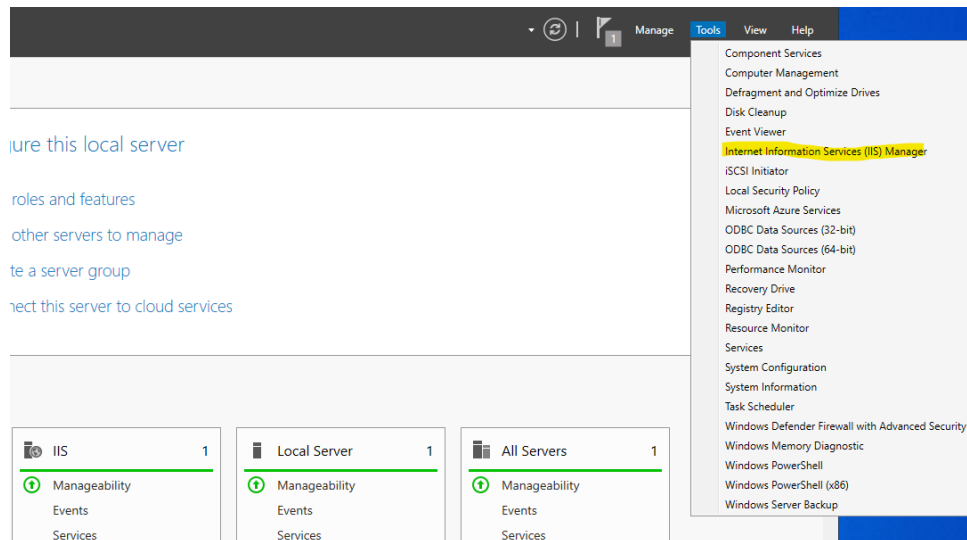


Figure 13 Selecting tools and clicking Internet Information Services (IIS)

Step 14: The IIS Manager will open, and we can see our server name on the left pane.

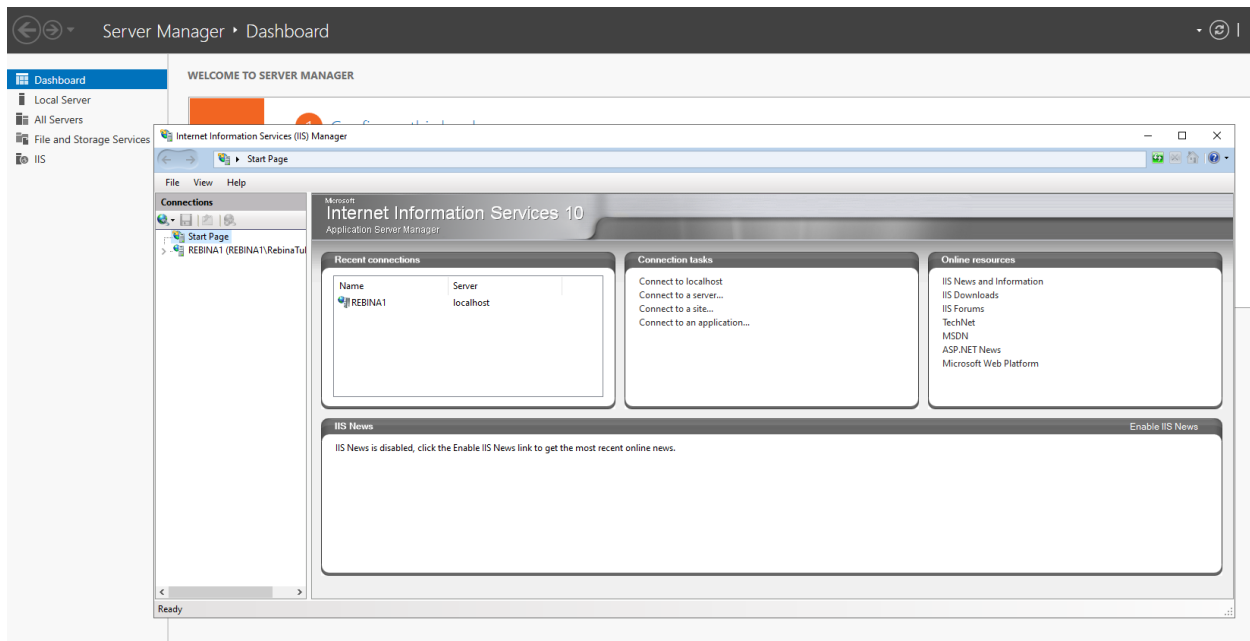


Figure 14 Server name in left pane

Step 15: Click on the dropdown button. Now we can see the "Sites" option. Click on the dropdown button next to the Sites menu.

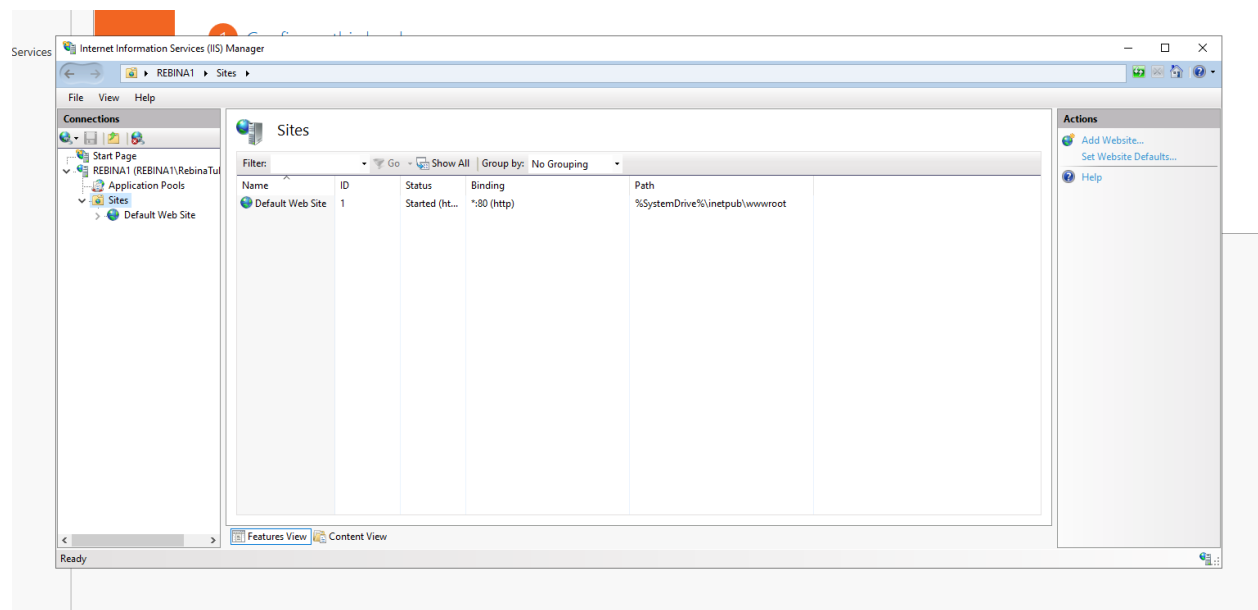


Figure 15 Selecting sites

Step 16: As we can see, there is only one website, which is the default website. Now, right-click on "Sites" and click on "Add Website."

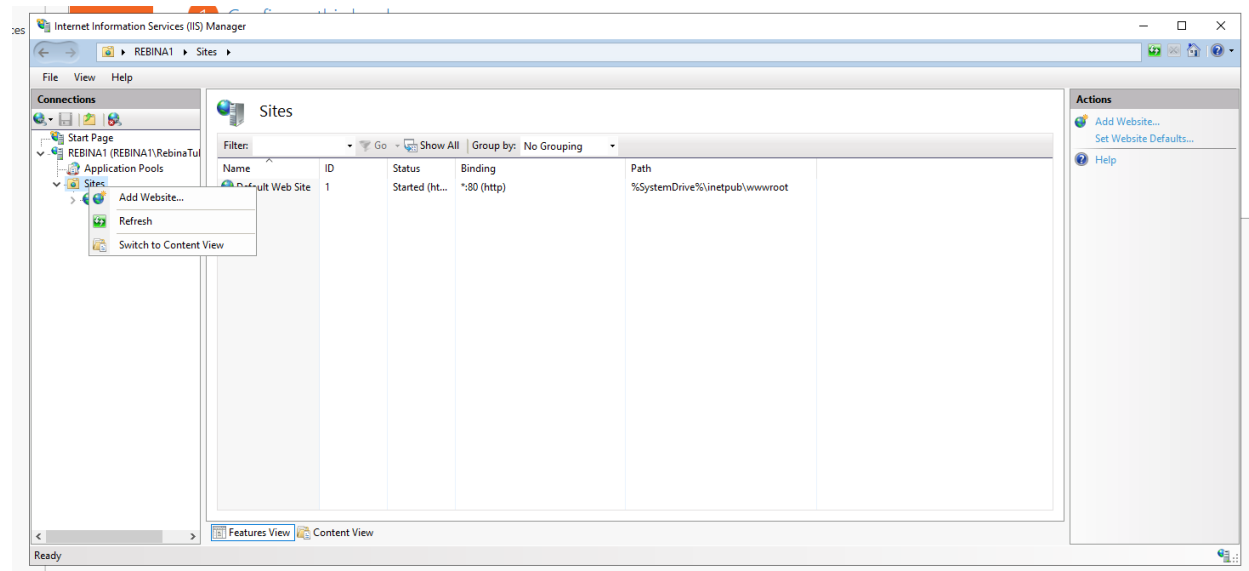


Figure 16 Clicking right on "Sites" and Click on "Add website"

Step 17: We need to enter the site credentials. For the Site name, type “mysite.local.” For the Physical path, select the folder where website files are located. In the Host name field, type “mysite.local.”

The screenshot shows the 'Add Website' dialog box in IIS Manager. The 'Site name' field is filled with 'mysite.local'. The 'Application pool' dropdown is set to 'mysite.local'. In the 'Content Directory' section, the 'Physical path' is 'C:\mysite'. The 'Binding' section shows 'Type' as 'http', 'IP address' as 'All Unassigned', and 'Port' as '80'. The 'Host name' field contains 'mysite.local'. The 'Start Website immediately' checkbox is checked. The 'OK' button is highlighted with a blue border.

Figure 17 Inserting site name, physical path and host name

Step 18: Now, we can see our site has been listed. We can browse our site by typing “mysite.local” in the address bar of the web browser on the Windows Server.

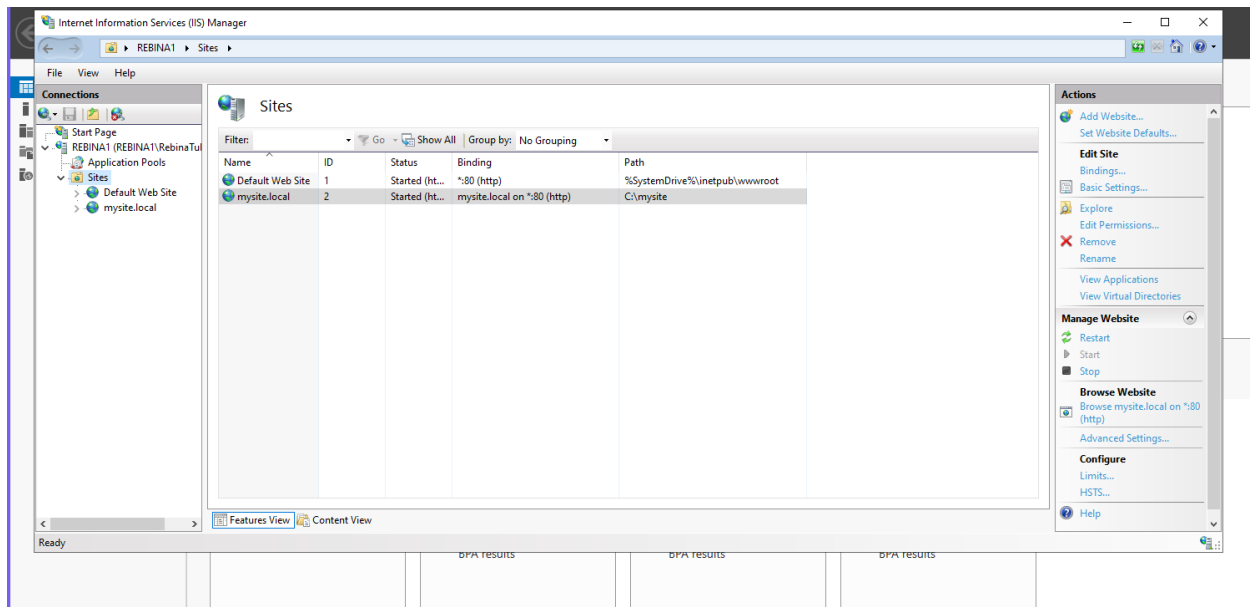


Figure 18 Site has been listed

Step 19: Don't worry if you encounter this issue. It just means we need to register our site in the host file too

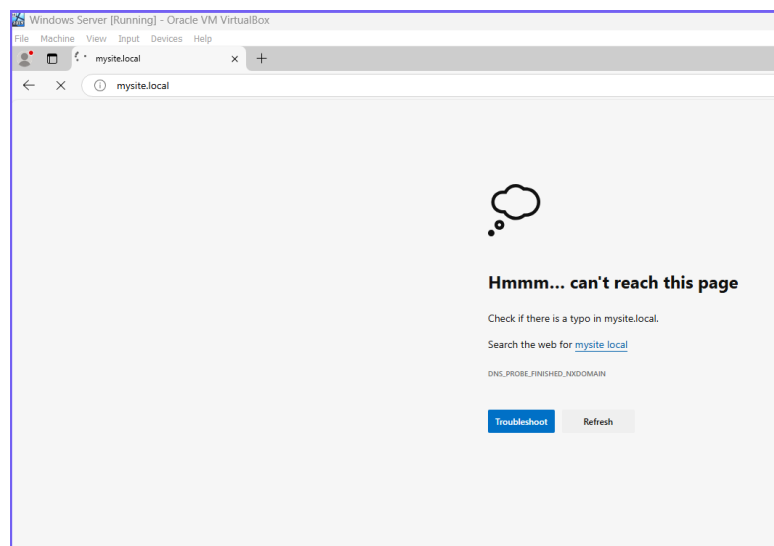


Figure 19 Facing issue

Step 20: To register our site in the host file, let's open the hosts file in Notepad. You can find it at this path: C/Windows/System32/drivers/etc/hosts. Open the hosts file using Notepad.

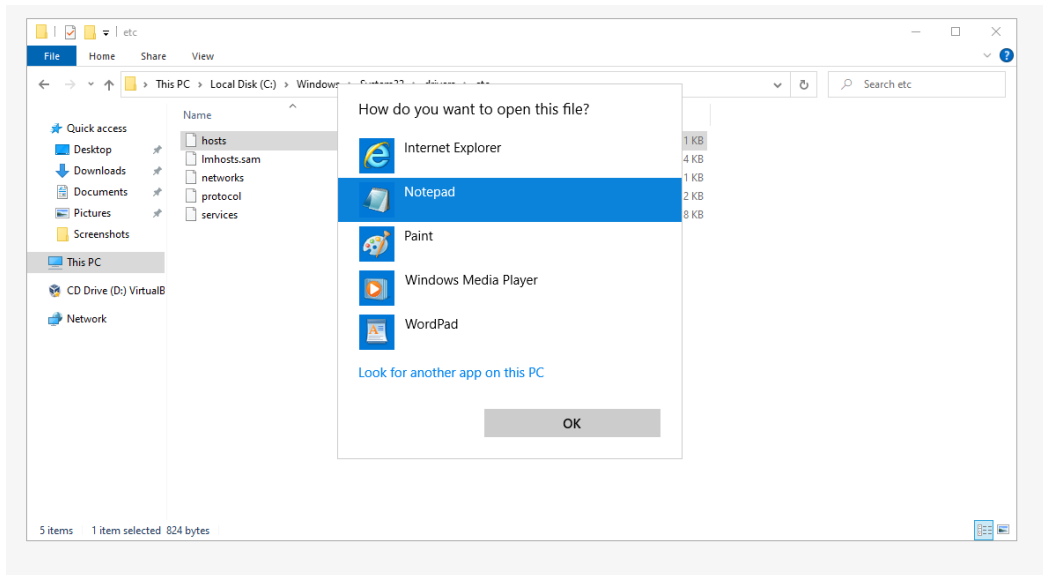


Figure 20 Selecting hosts and Notepad to give path to our site

Step 21: Add the following line at the end of the file: 127.0.0.1 mysite.local. Save the file after adding this line.

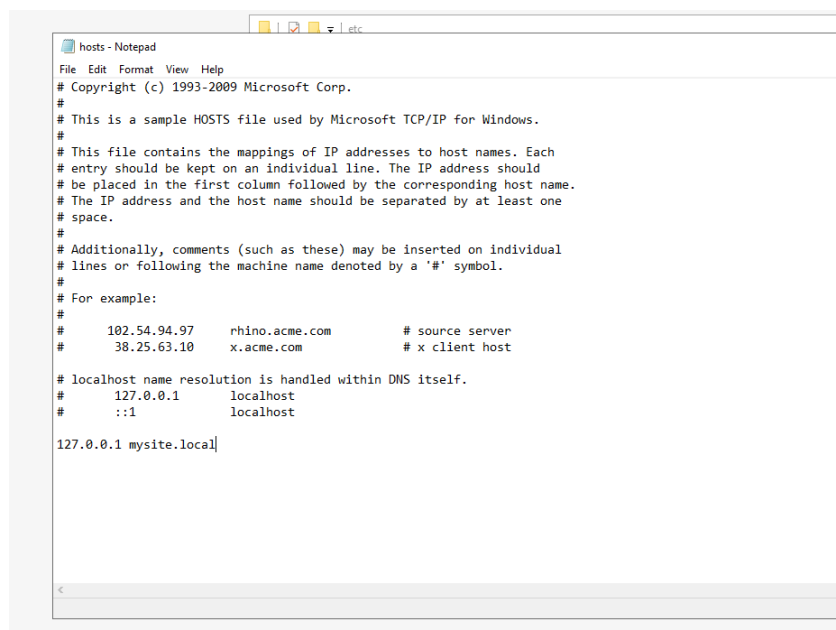


Figure 21 Adding 127.0.0.1 mysite.local on hosts file

Step 22: Now, reload the webpage. Our website should be loaded smoothly.

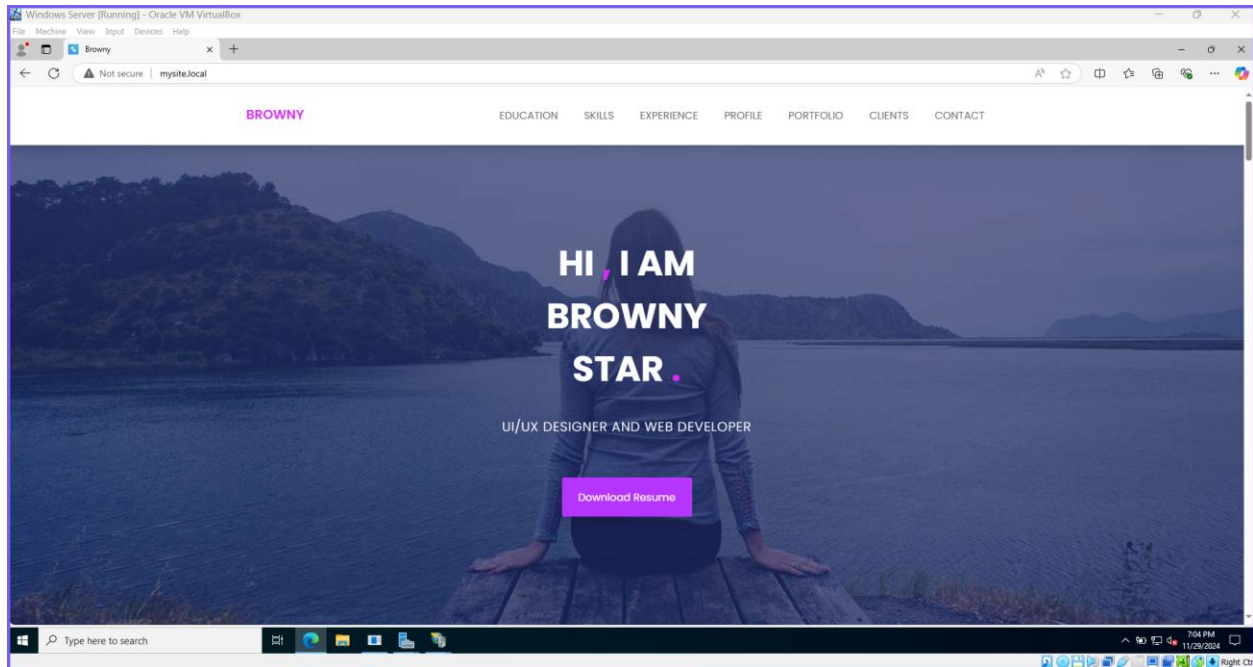


Figure 22 Our website has been loaded successfully

4. Conclusion

I successfully set up a static website on Windows Server 2022. While configuring the host file proved to be a bit tricky, I was able to resolve the issue by the help of online resources and the guidance from workshop 4.

5. References

Hillar, P. (January 2016). From Static and Dynamic Websites to Static Site Generators.

Vaughan-Nichols, S. J. (September 23, 2019). Static vs. Dynamic IP Addresses.