Module Code & Module Title

Level 5 – Network Operating System

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Logbook 5

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Student Name: Yogesh Dhakal

London Met ID: 23057067

College ID: NP04CP4S240032

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Submitted To: Mr. Prashant Adhikari

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 static website hosting and accessing inside the same LAN is covered in this workshop on Windows Server 2022. A bridging adapter is set up in the virtual environment using VirtualBox to provide network connectivity. In order to assign an IP address, establish site properties, and host website files, participants will set up Internet Information Services (IIS). Accessibility from the host operating system and other devices, such as smartphones, is tested for the hosted website.The course also goes over how to enable Remote Desktop Connection so that you can control the guest operating system from the host computer. In order to obtain hands-on experience with remote server access and management, participants must install the VirtualBox Extension Pack and configure remote display settings. To efficiently host and maintain servers, several abilities are essential.

2. Objective

This workshop showed how to set up LAN-wide access and host a static website on Windows Server 2022. In addition to testing website accessibility and configuring IIS, participants also learnt how to adjust to IP changes in various networks. Additionally, they investigated installing and setting up the VirtualBox Extension Pack and remote display settings in order to enable Remote Desktop Connection. By the end, participants had developed useful abilities in remote server management and website hosting, laying a solid basis for more complex server administration and networking duties. This practical experience connects academic understanding with practical implementation.

i.) Hosting website through IP address

Step 1; Open Virtual Box and select the virtual environment. After selecting the virtual environment, select the "**Settings**" button.

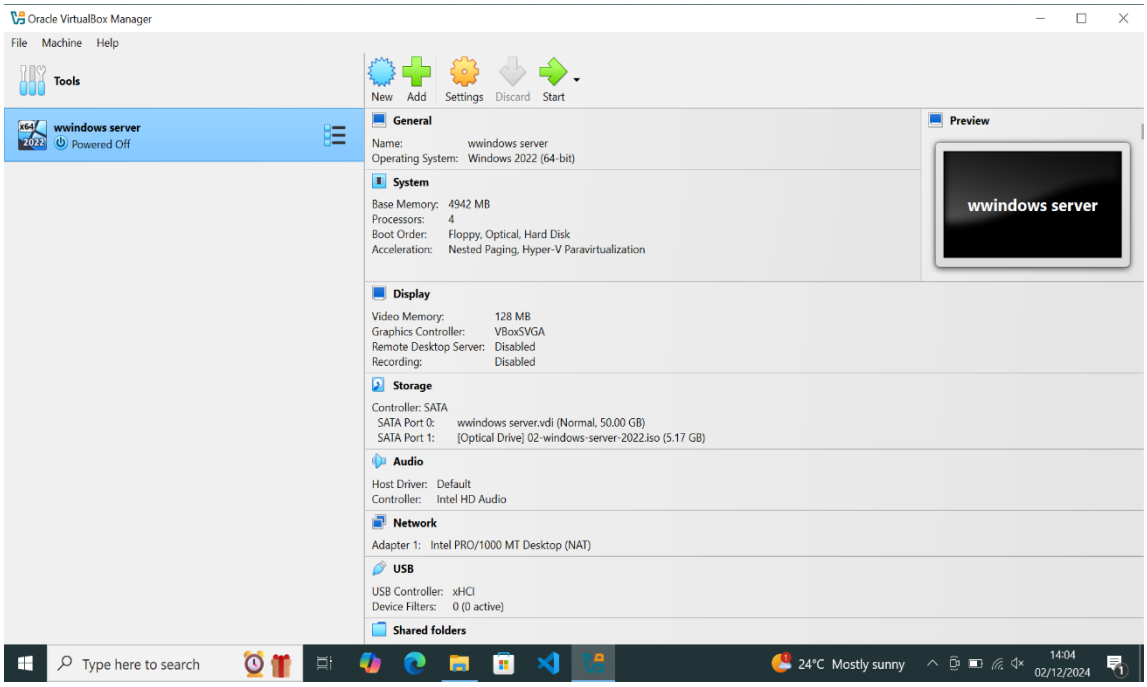

Figure 1:Opening virtualbox

Step 2; Now click on **Network** and under network select **Bridged Adapter** in Attached.

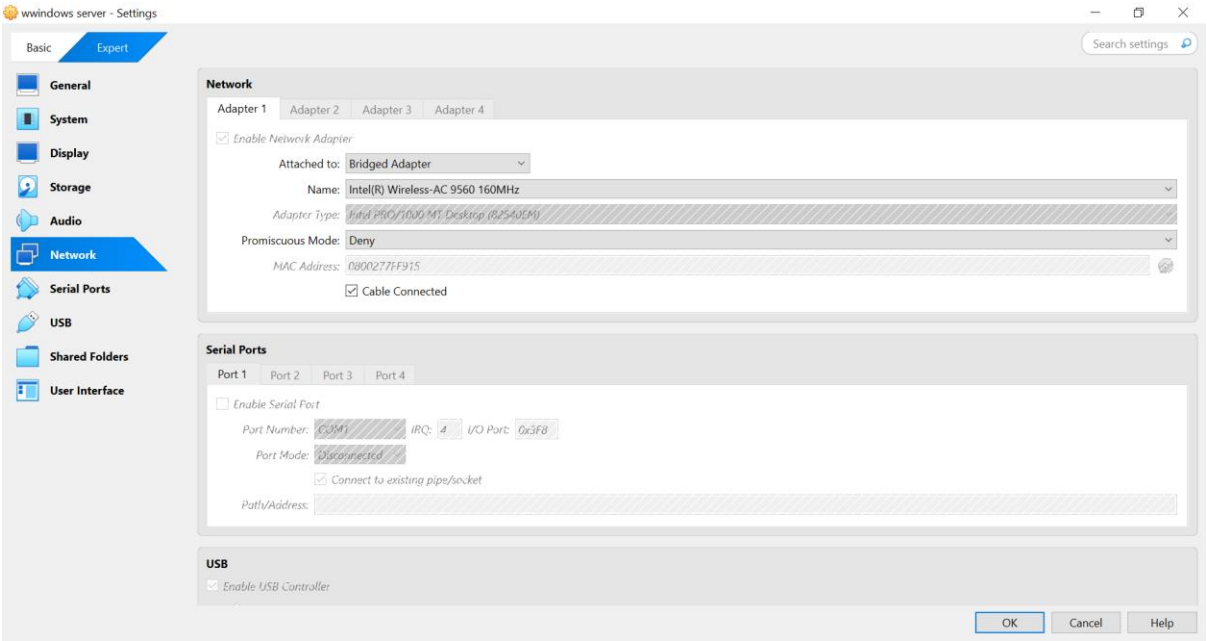

Figure 2 : Selecting bridged Adaptor

Step 3; As like from last workshop place your website files in Local Disk C drive in Windows Server 2022 as on following picture.

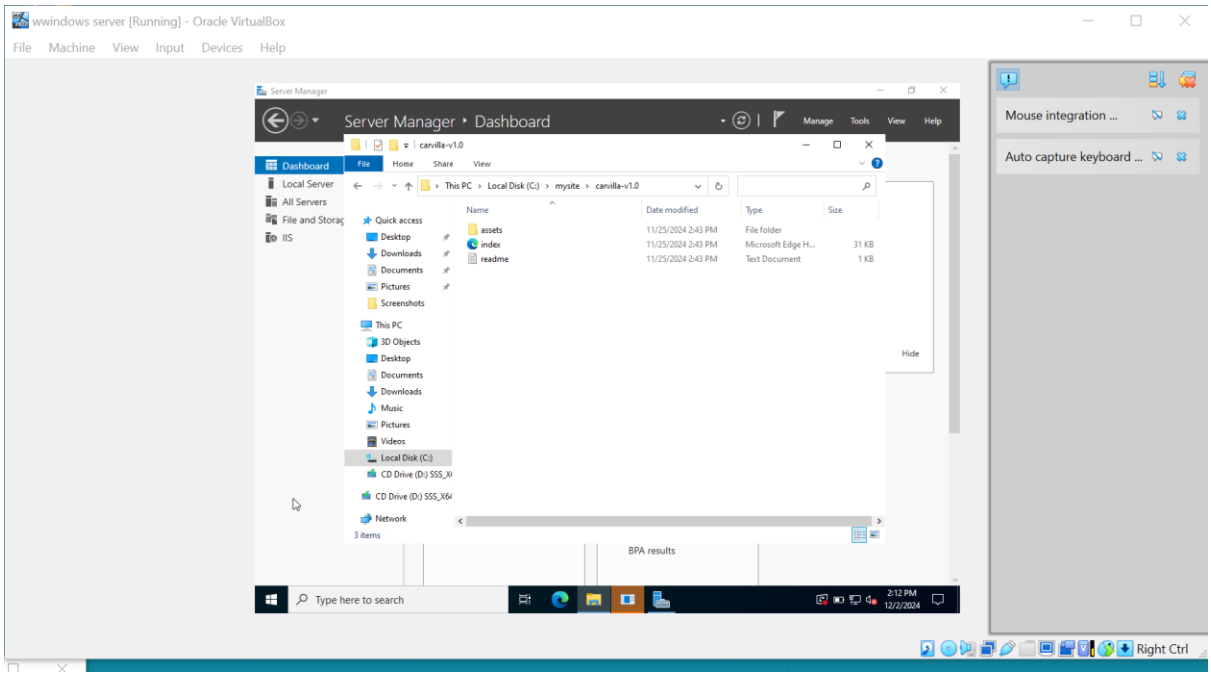

Figure 3 : The files for web

Step 4; Open run and type **"inetmgr".** It will open our Internet Information Service from where we can setup hosting.

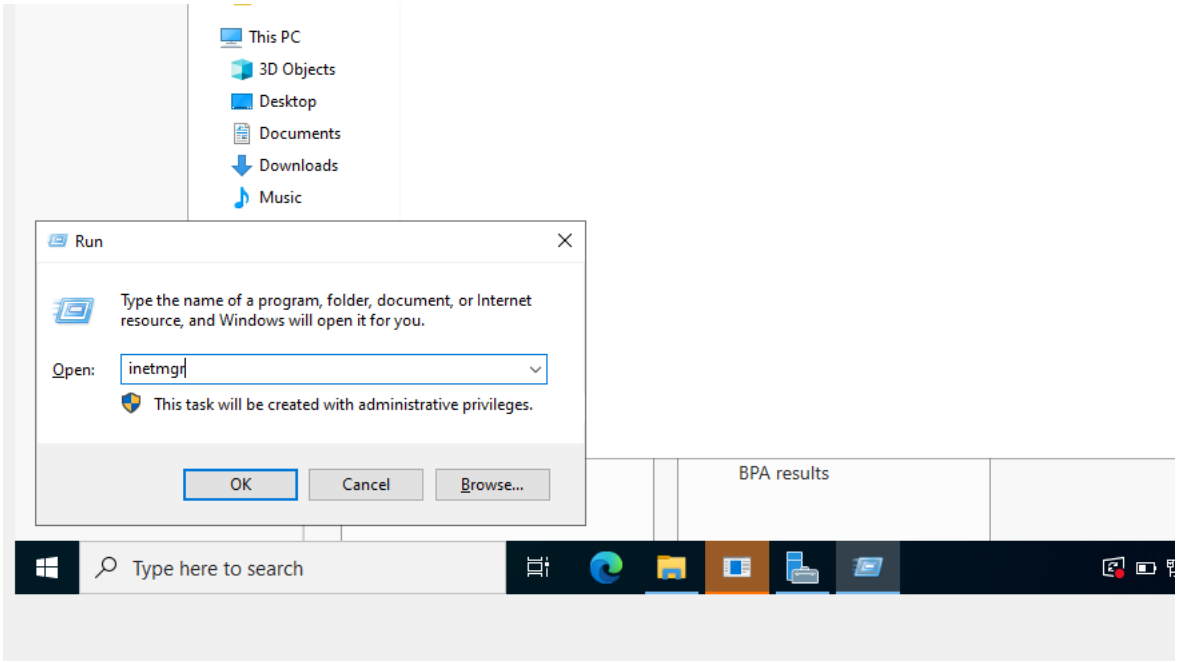

Figure 4: Opening Internet Information System from run

Step 5; Expand the server name and right click on **"Sites"** and click on the **"Add Website"** option like in the last workshop.

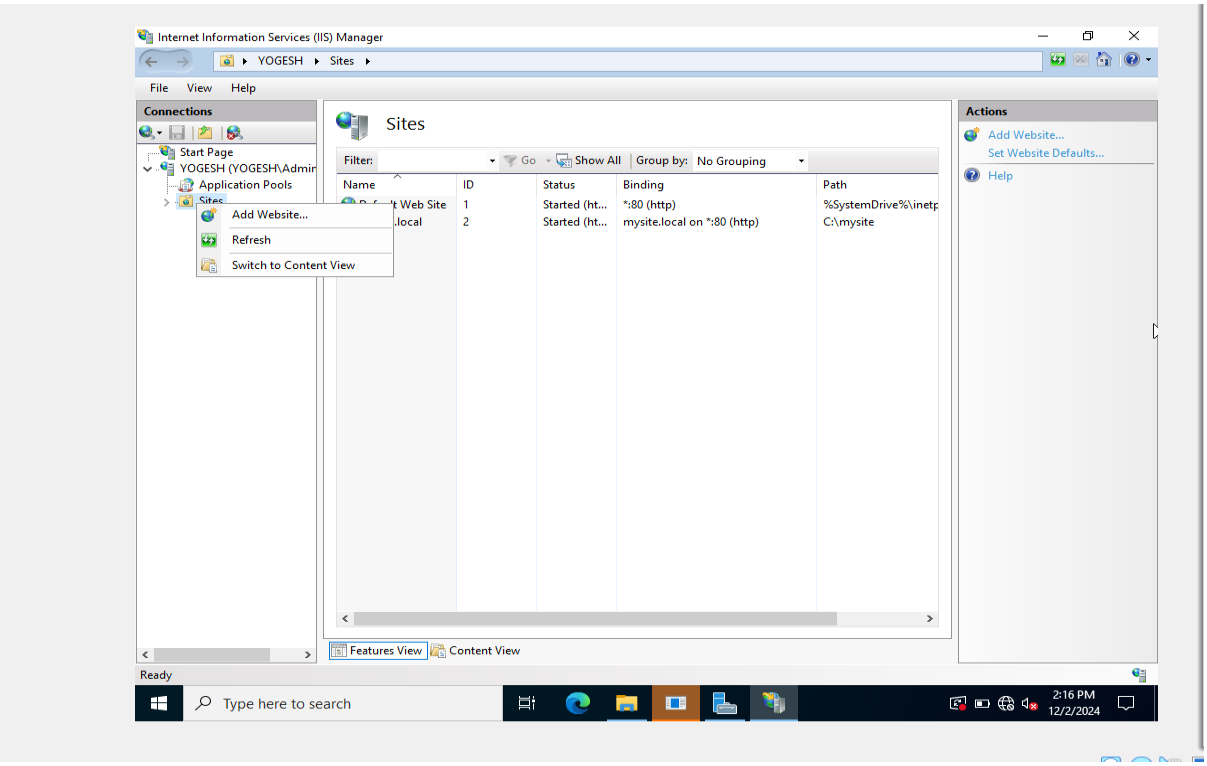

Figure 5:Trying to add new website

Step 6; Filling all the blanks as guided.

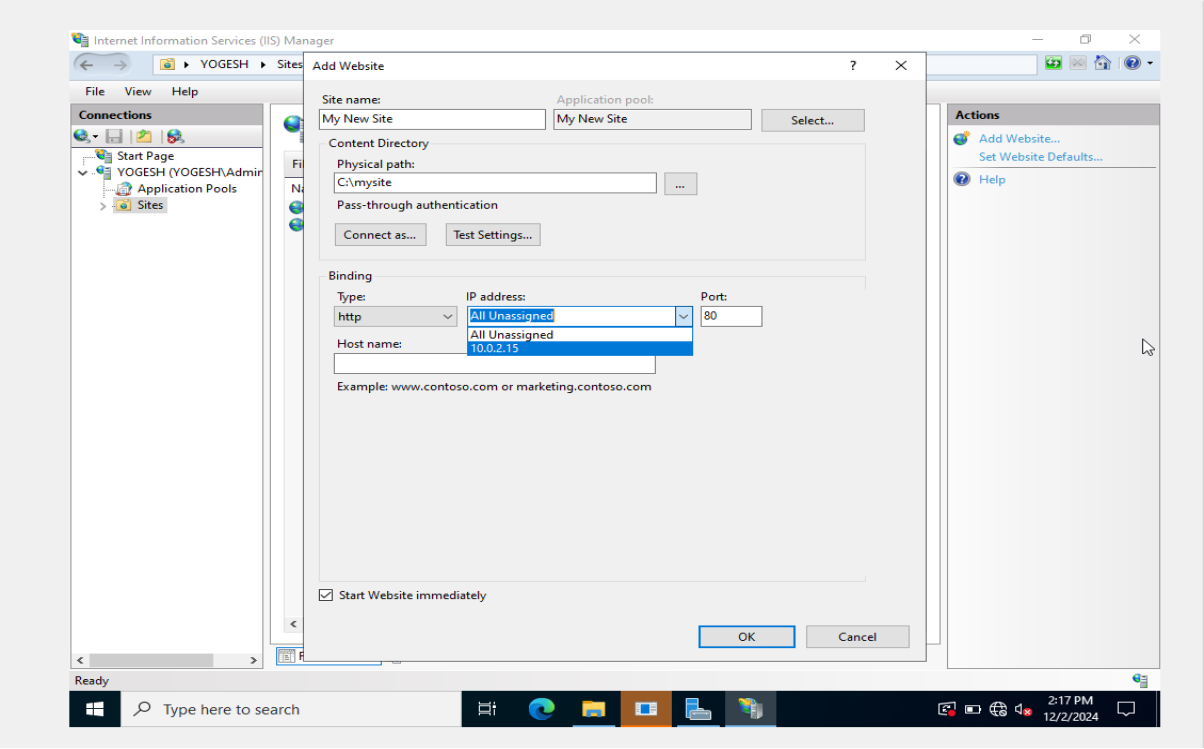

Figure 6: Selecting IP address

Step 7: Now we can see our site name on the list. Now let's browse our site by clicking on "Browse" followed by your IP address on the right side. This will open our website in browser.

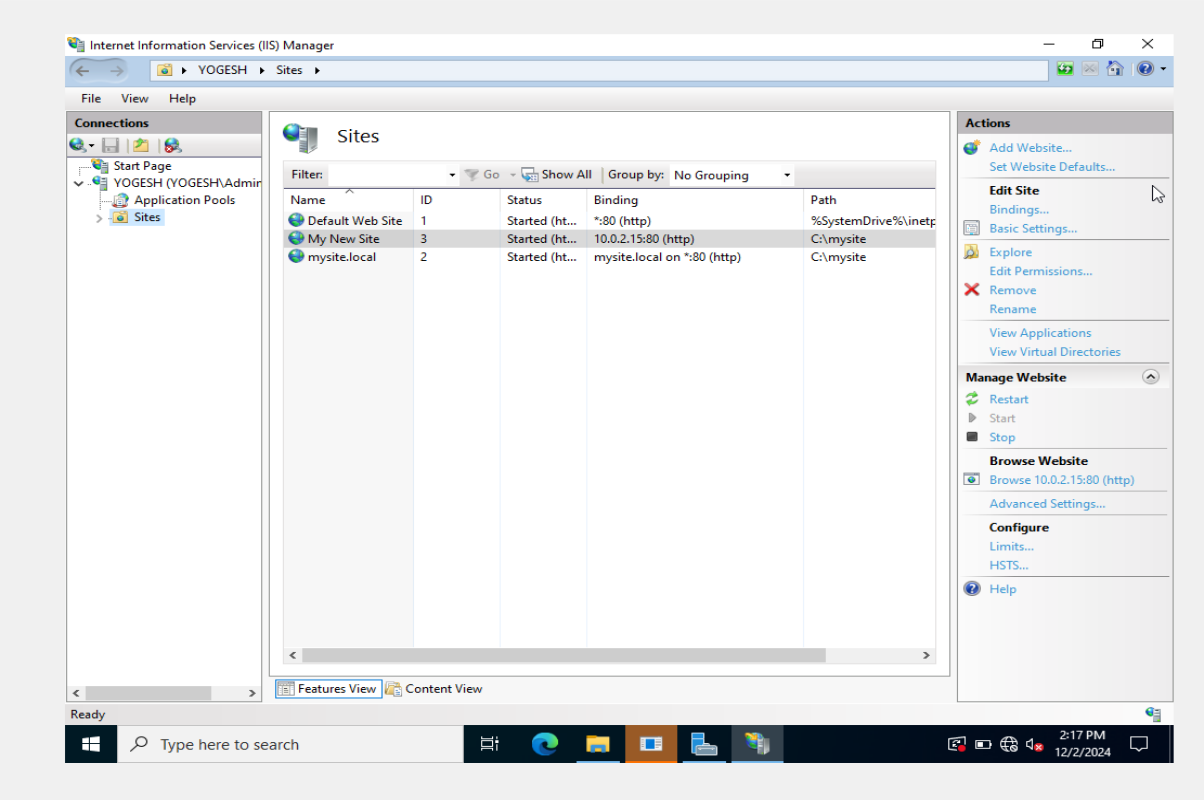

Figure 7 : Adding the new website

Step 8: Type the IP address of Guest OS in the browser of Host OS and see if your website is accessible from Host OS or not.

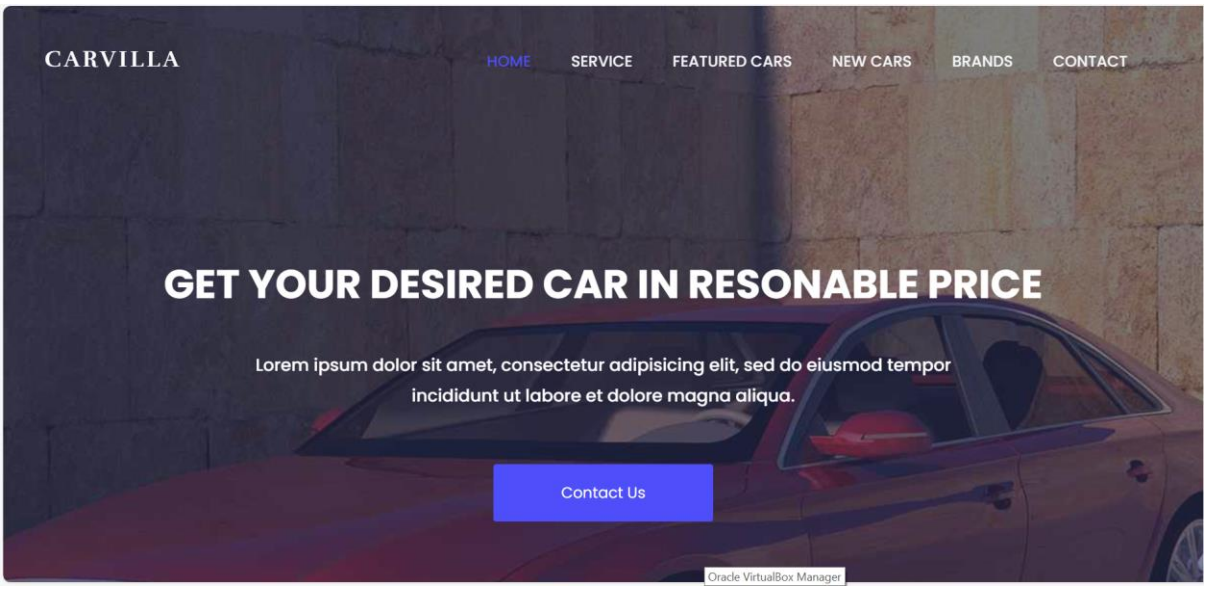

Figure 8:Running the IP address in Host OS

Step 9: Also open the website from your smartphone by typing IP address of Guest OS and see if it is accessible from your phone or not.

Step 10: Open Remote Desktop Connection from Host OS and insert IP of Guest OS and click on Connect.

ii.) Using The Host OS through Remote Desktop

Step 1; Open Remote Desktop Connection from Host OS and insert IP of Guest OS and click on Connect**.**

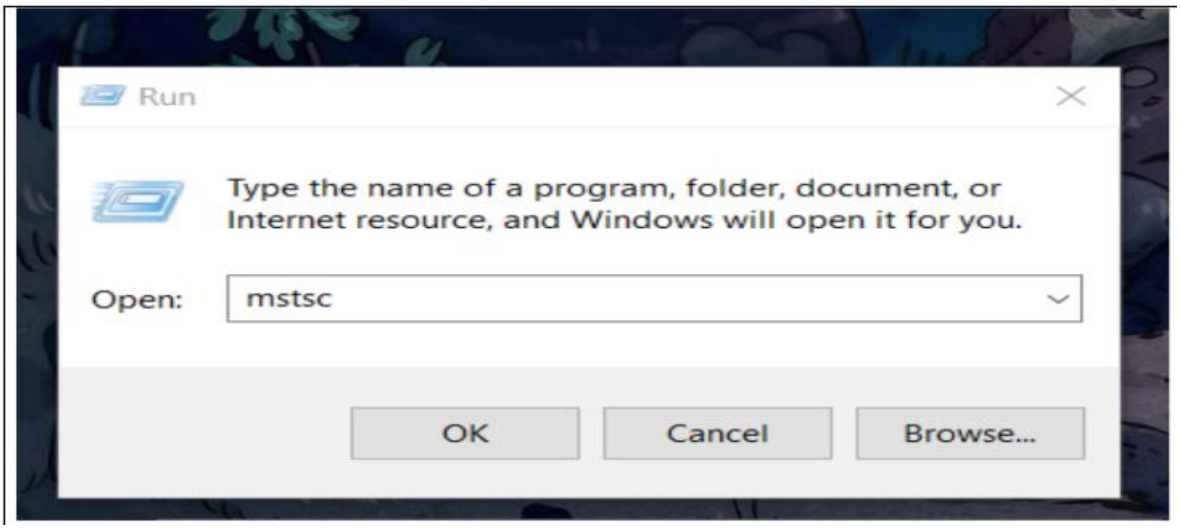

Figure 9 : Opening Run Dialogue Box

Step 2; So, to connect to computer I had to give IP address of the computer so I can connect to it.

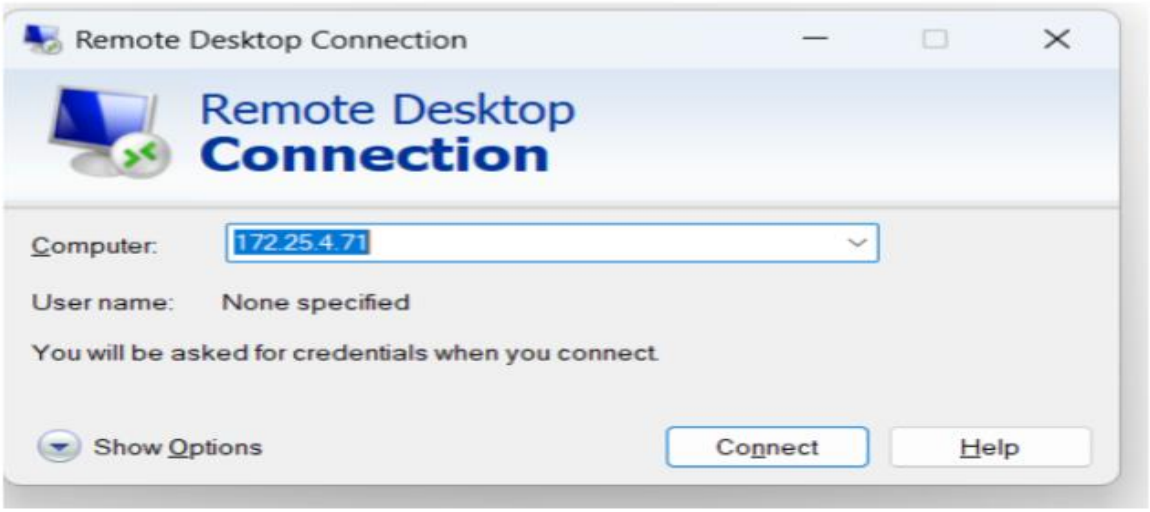

Figure 10 : Entering IP address of the computer

Step 3; Entering the server's password and username to get access to the computer server**.**

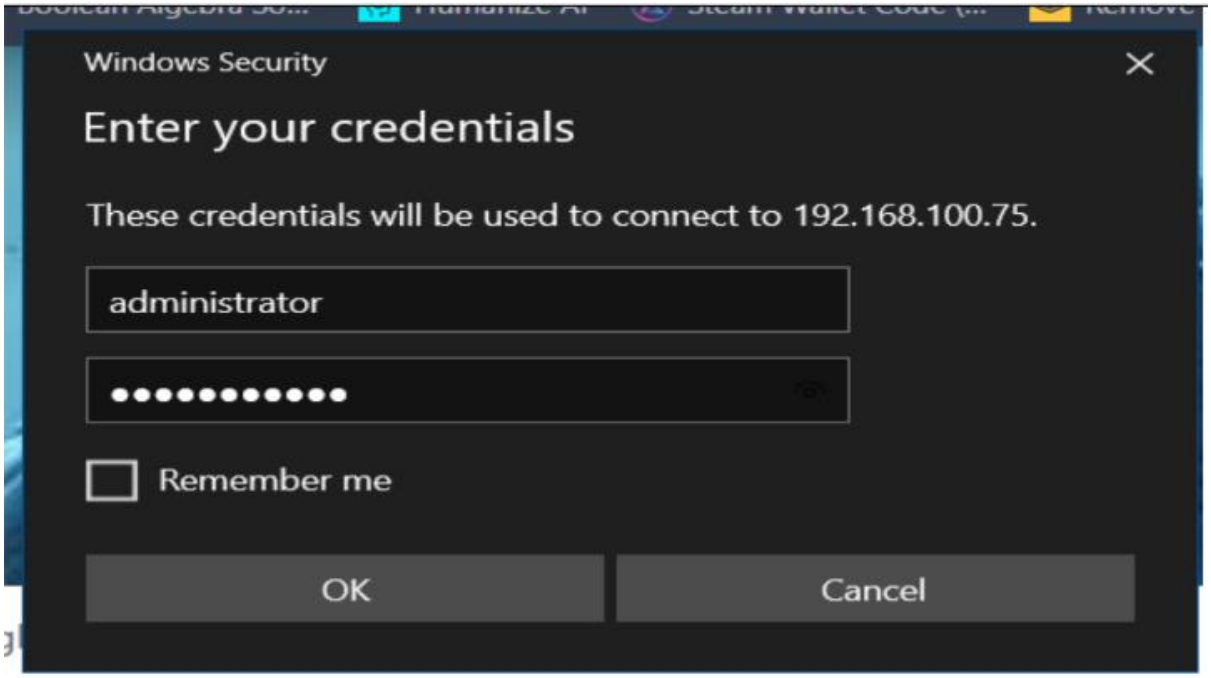

Figure 11 : Entering Server details

Step 4; After Entering the credentials, we finally successfully connected to windows server through remote desktop connection. Next, we must check the IP to make sure everything is done right by using command prompt**…**

Figure 12 : Entered The remote desktop successfully

Step 5; We successfully verified that it was using the command prompt command “IP config”.

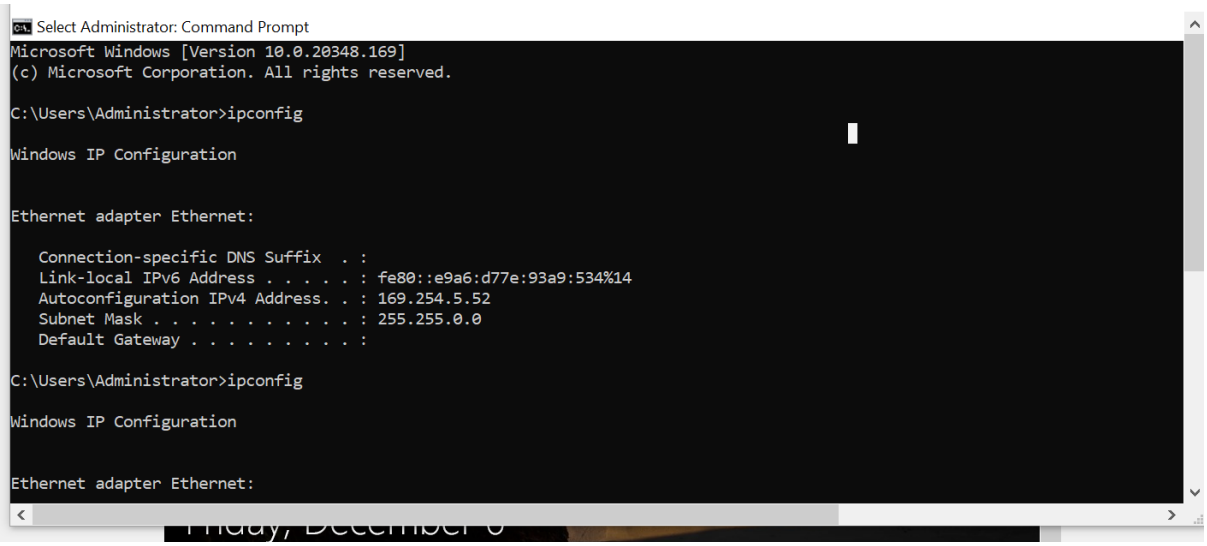

Figure 13 : Successfully connected and verified

3. Conclusion

The document provides a step-by-step account of hosting a static website and enabling remote access using Windows Server 2022. Key learnings include configuring the Web Server (IIS) role, hosting static site files, and mapping the site to a local IP for LAN accessibility. The process involved static IP assignment, website registration in IIS Manager, and hostname mapping for seamless access.

Additionally, the user successfully enabled Remote Desktop, installed necessary VirtualBox extensions, and verified remote connectivity to the server. The experience emphasized managing static websites, configuring server roles, and setting up remote access, which are valuable skills for hosting, testing, and security-related projects.