Module Code & Module Title

Level 5 – CT5052NP Network Operating System

Assessment Type

Logbook Report-5

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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 project mainly focouses on utilizing virtualization and network management to host and access static websites on windows server 2022. Using VirtualBox as a virtualization platform, Windows server 2022 is used to host a static website in Guest OS and enabling host OS and other devices within the same LAN to access the Static website .This practical session provides hands-on experience on server hosting and remote management in real world IT infrastructure.

2.Objective

The major objectives of this project are :

1. To host a static webiste on a windows server 2022 virtualized environment and make the website accessible within the same LAN from the host operating system and other devices.
2. To enable and configure remote desktop features in windows server 2022, allowing remote access and management of the server from the host machine.

3.Required tools and Software

3.1 Free-CSS website

Free-CSS is a website where you can submit your website template or can found many types of website templates for free or in premium .

Free CSS has 3552 free website templates coded using HTML & CSS in its gallery. The HTML website templates that are showcased on Free CSS.com are the best that can be found in and around the net. (contact us, n.d.)

3.2 windows server 2022

Windows Server is a line of Microsoft operating systems (OSes) comprised of extremely powerful machines. Windows Server was first launched in April 2003. It’s typically installed on heavy-use servers serving as a backbone for most IT companies, applications, and services. The server handles the administrative group-related activities on a network. It organizes, stores, sends, and receives files from devices connected to a network (windows-server, n.d.)

3.3 Virtual Box

Oracle VirtualBox, the world’s most popular open source, cross-platform, virtualization software, enables developers to deliver code faster by running multiple operating systems on a single device. IT teams and solution providers use VirtualBox to reduce operational costs and

shorten the time needed to securely deploy applications on-premises and to the cloud. (virtualbox, n.d.)

4.Steps to replicate

4.1.Setting Adapter 1 to Bridged Adapter

Firstly, Opening server manager and opening the settings and then, opening the network section and changing the Adapter 1 to Bridged Adapter

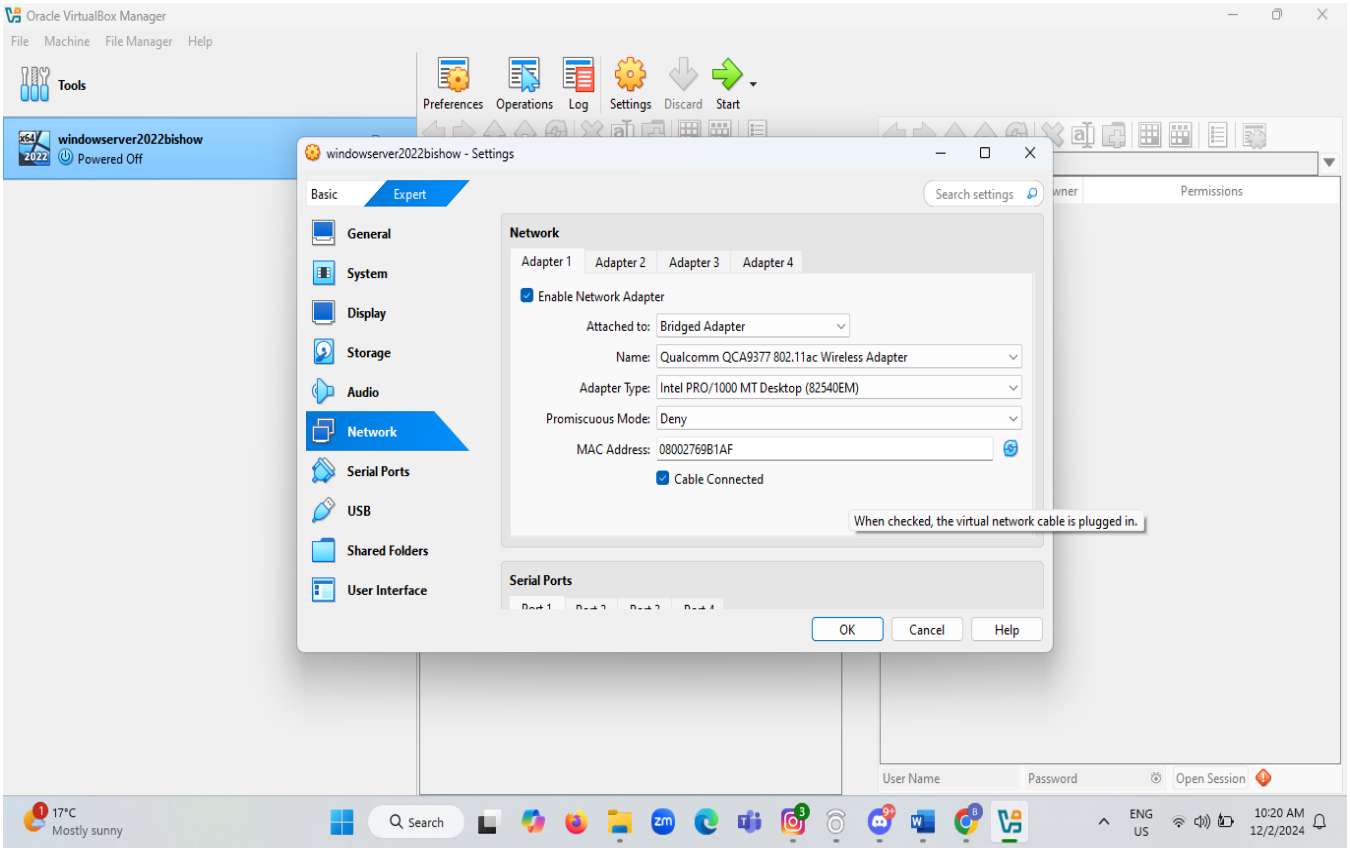

Figure 1 Setting up bridged adapter

and then , open IIS manager,

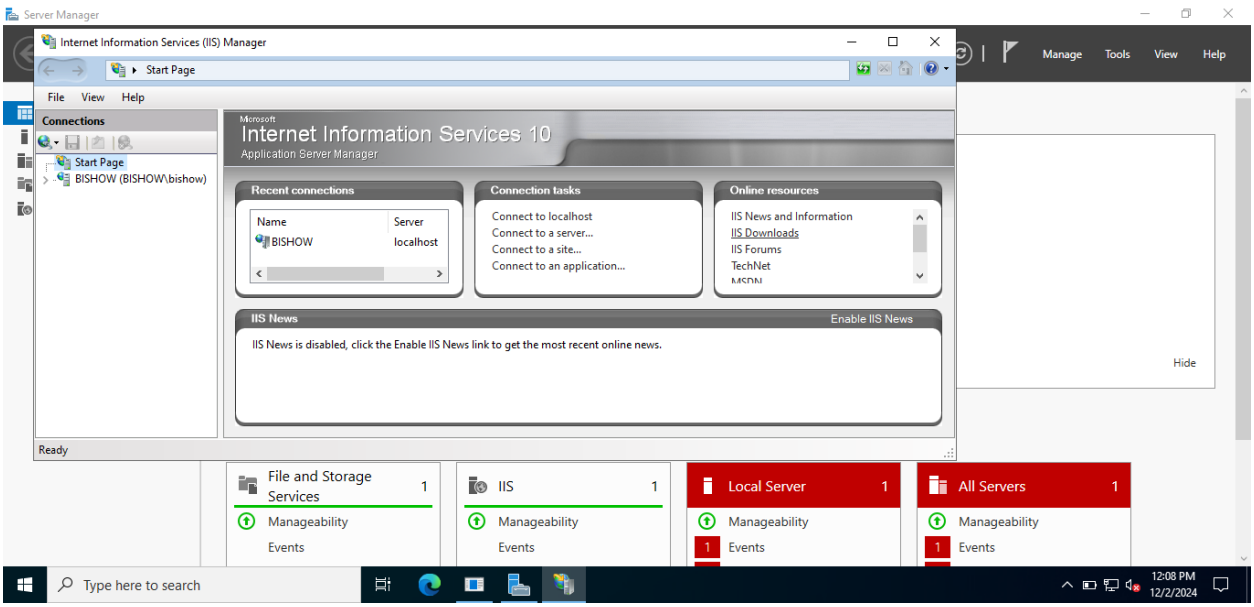

Figure 2 Opening IIS manager

4.2 Adding a website

Now , Click add website after right clicling on sites .

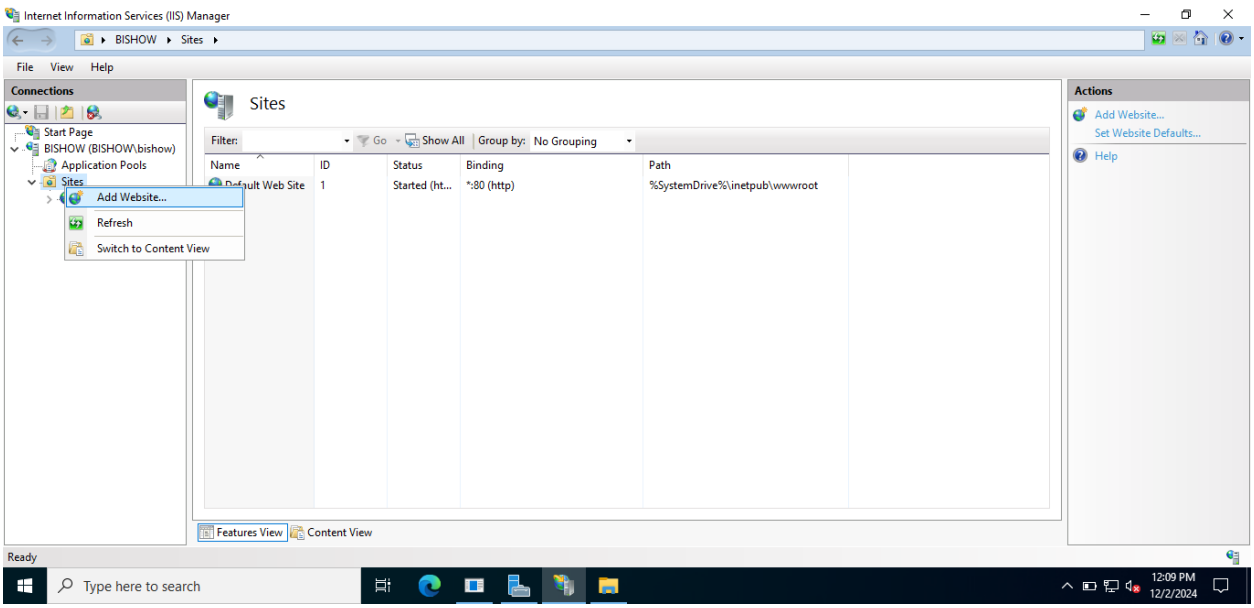

Figure 3 Adding website

Then , fill up the website details in further detail page.

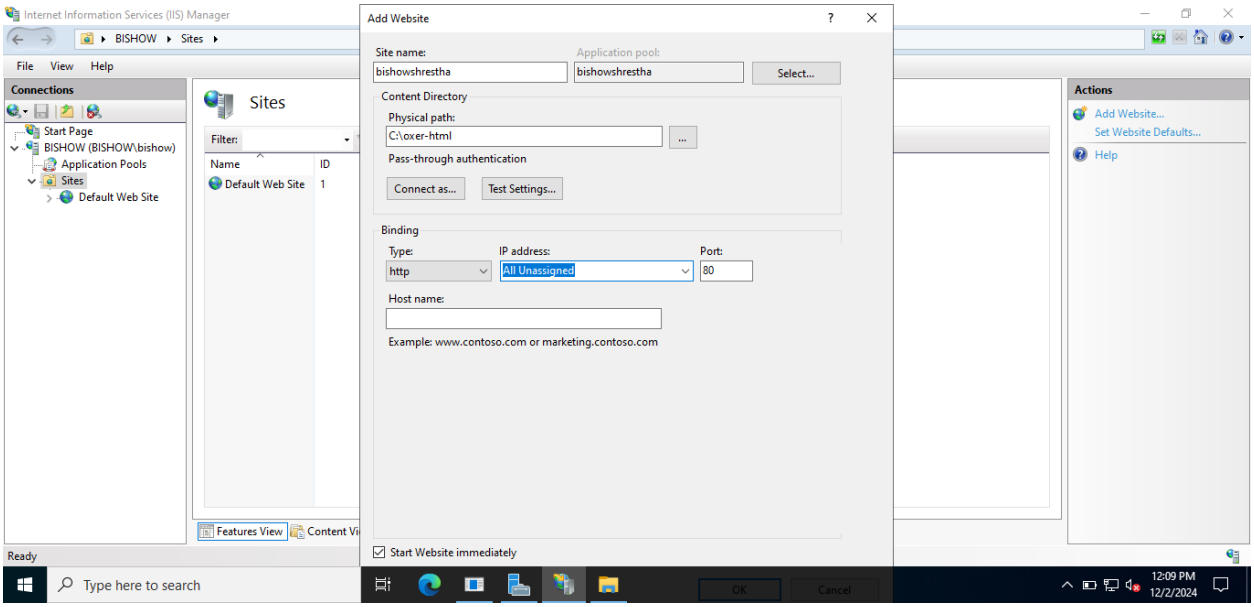

Figure 4 Filling up details of website

4.3 Binding IP to website

Afer filling other details in the process of adding website to the server , Binding the IP on dropdown to the website .

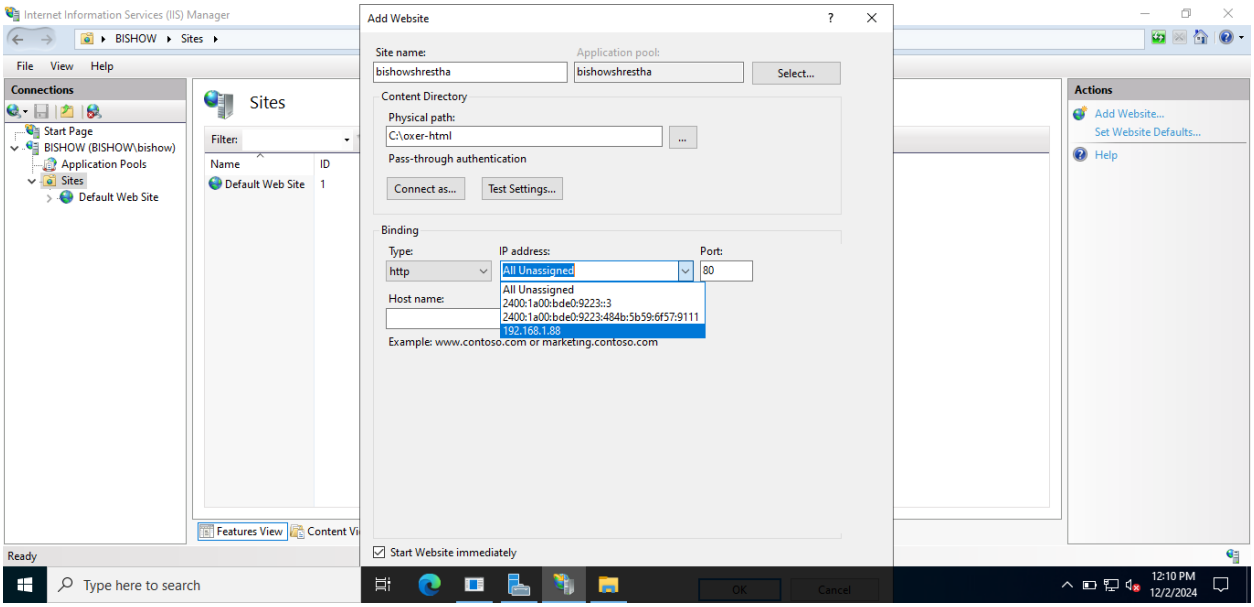

Figure 5 Binding dropdown IP

Click Enter and the website is added successfully.

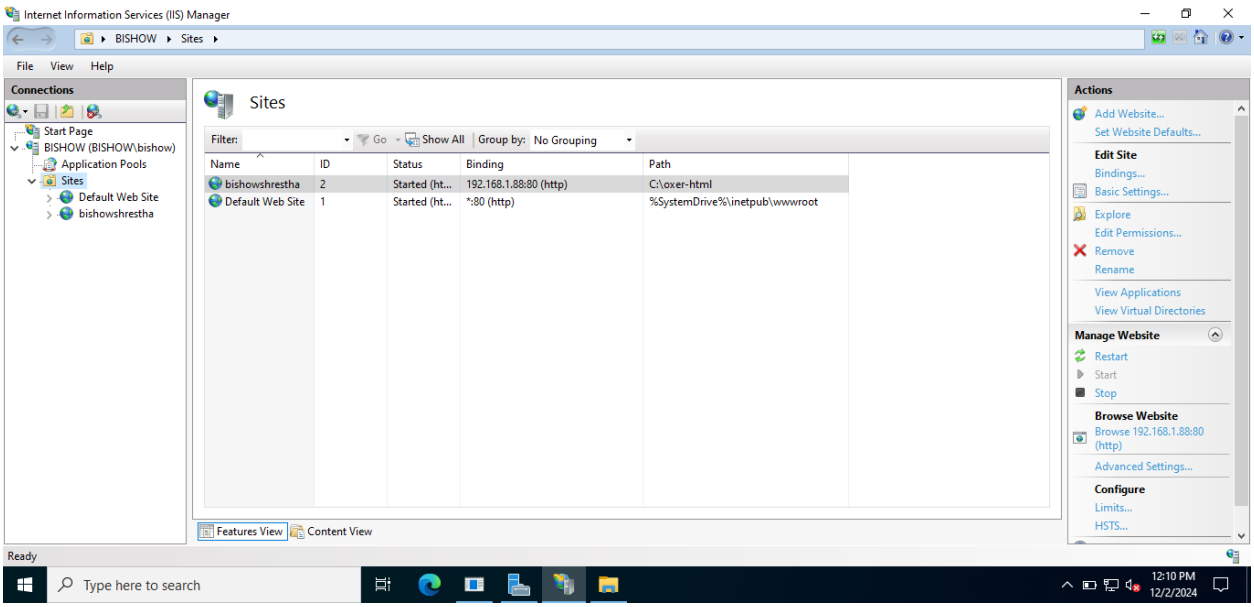

Figure 6 Webiste added succesfully.

4.4 Browsing live website in Guest OS

After the website is added succesfully, Browsing the website by clicking the browse button on the bottom right of the IIS manager page.

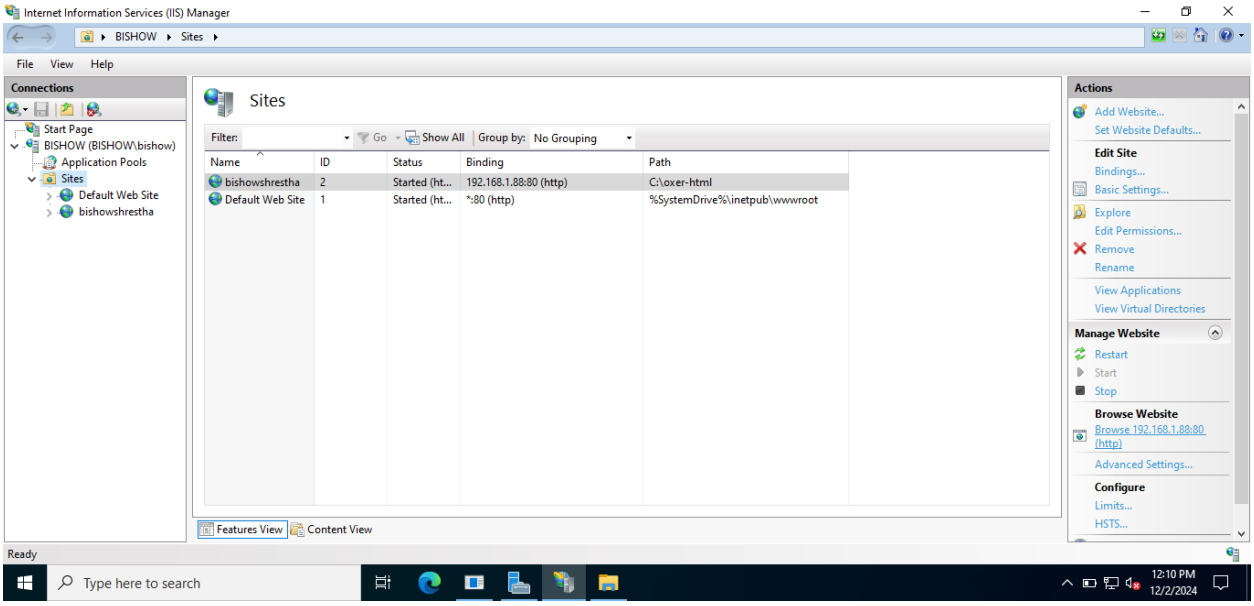

Figure 7 Clicking browse website

Then, the website is live and can be browsed successfully from Guest OS.

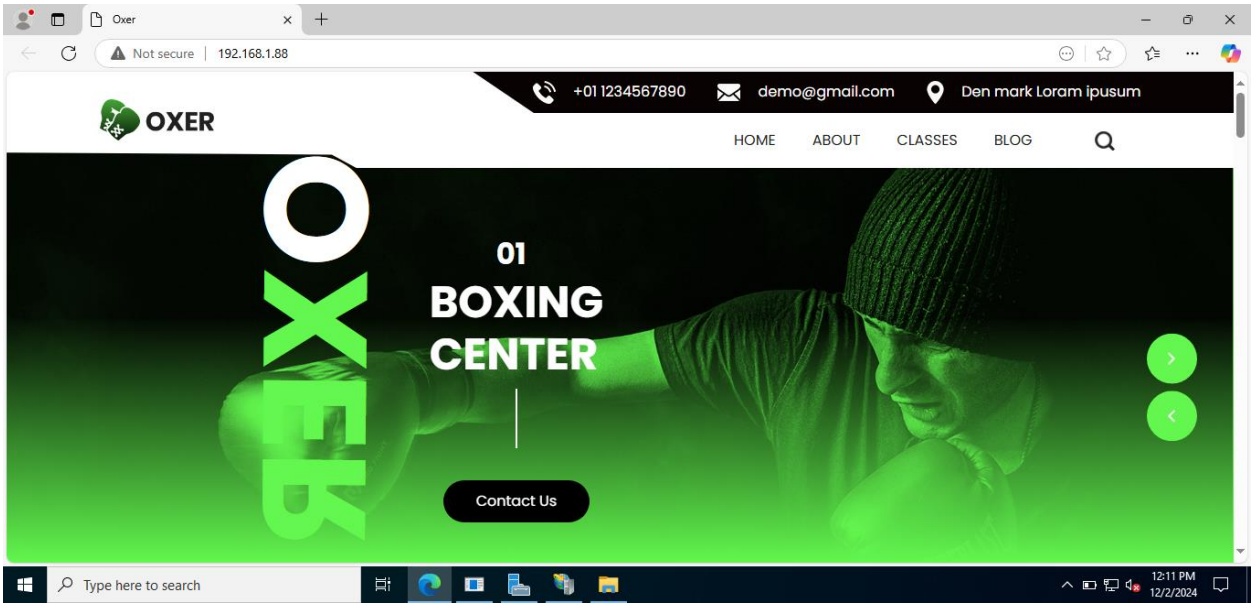

Figure 8 Website browsed on Guest OS

4.5 Browsing website in Host OS

Open the browser of Host OS and type the IP address or Site name on the search bar .

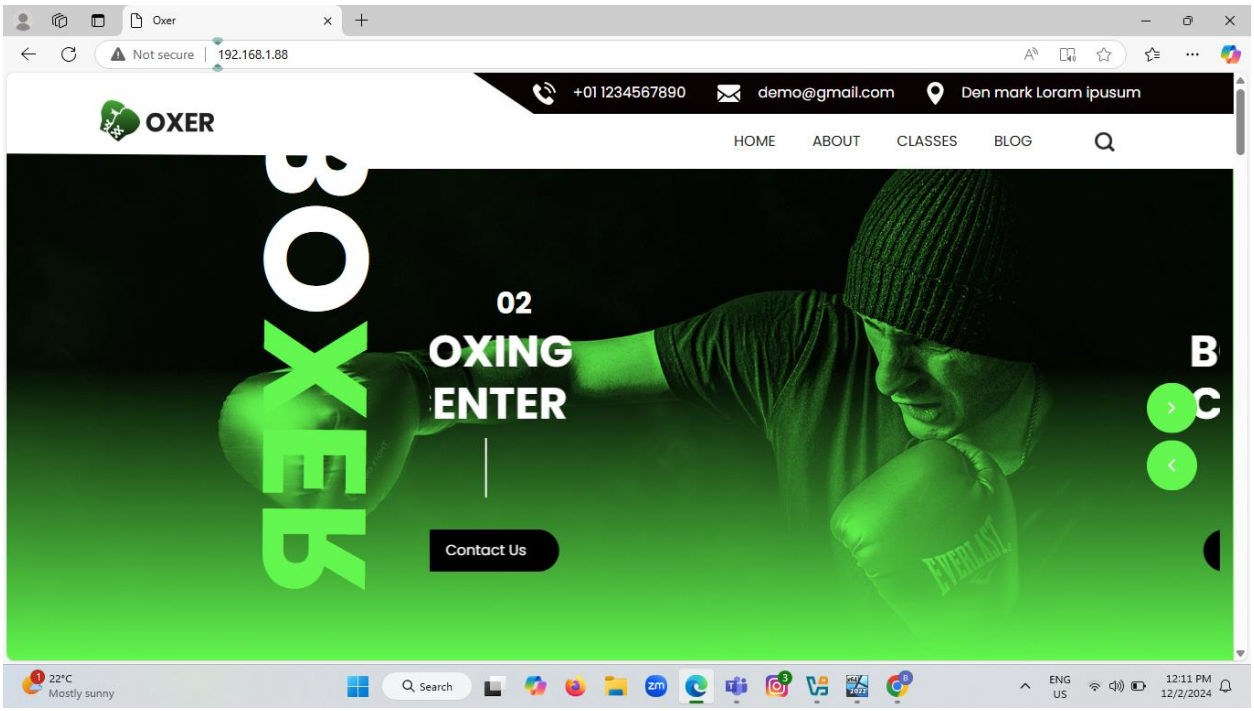

Figure 9 Website browsed succesfully on Host OS

Website is browsed succesfully from Host OS too.

4.6 Enabling remote display

After installing the extension pack of Virtual Box , Open server settings and enable remote display

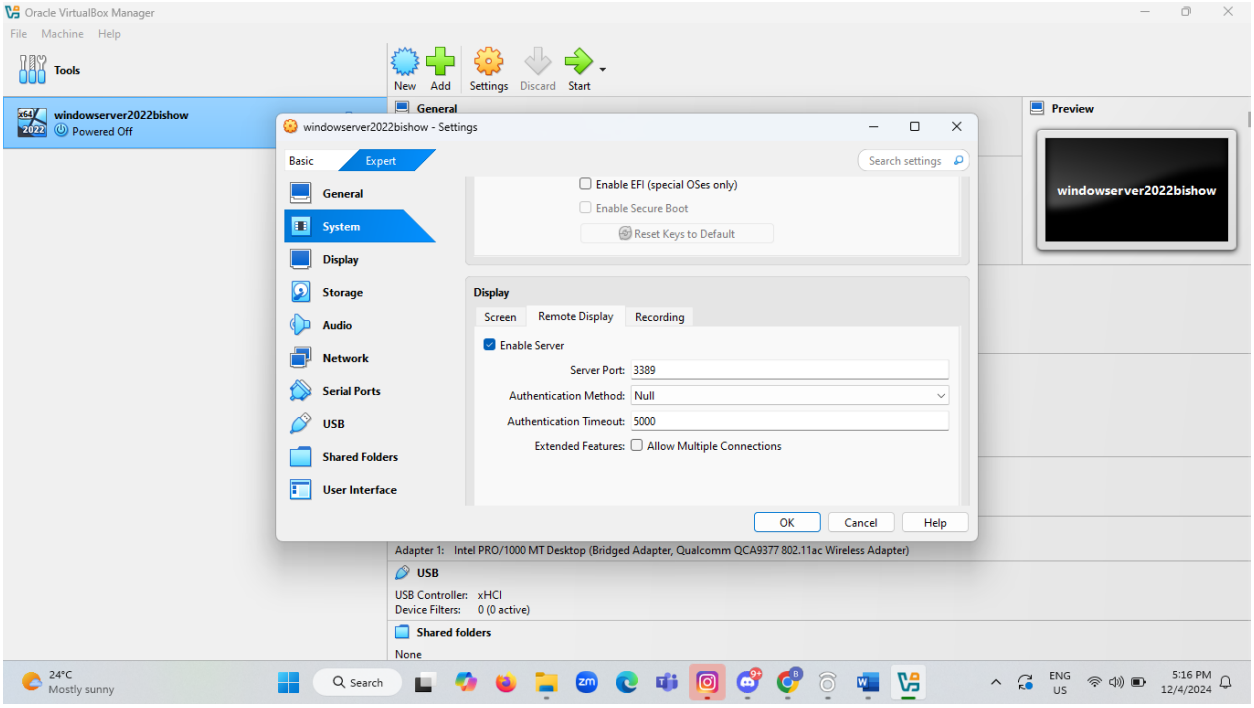

Figure 10 Enabling remote desktop

4.7 Running command prompt as administrator in Guest OS

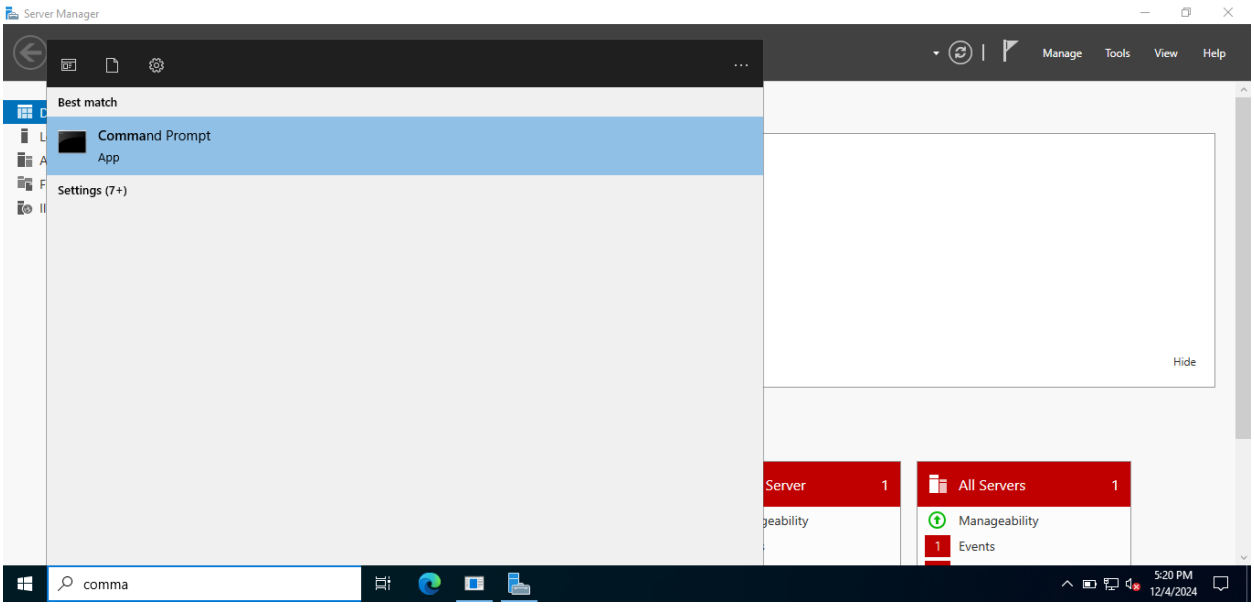

Figure 11 Running Command Prompt as Admin in Guest OS

4.8 Displaying IP Configuration

After enabling the remote display of server, start the server and open the command prompt as administrator and use the ipconfig command to see the ip address of your device.

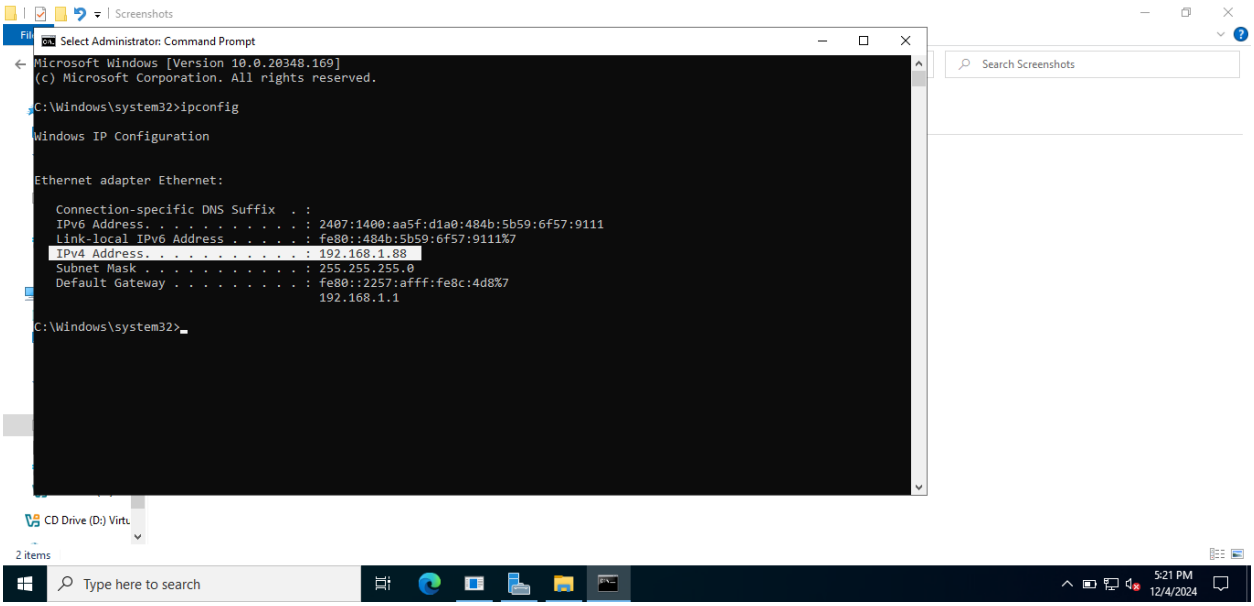

Figure 12 Using command "ipconfig" to see the IP address of the device

4.9 Opening remote desktop connection of Host OS

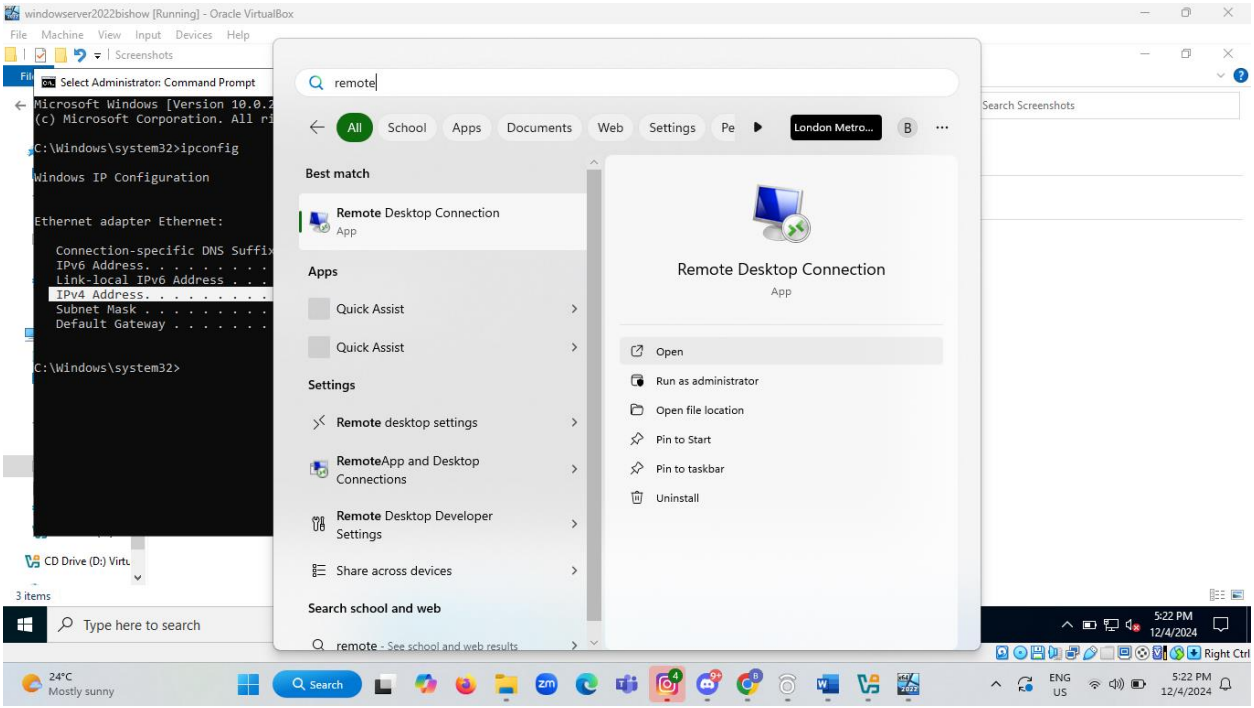

Figure 13 Opening Remote Desktop Connection

4.10 Connecting to remote desktop using IP address

After opening the remote desktop connection in Host OS, Enter the IP address of the server computer in the field of computer .

And type the name of the user account of the Guest OS in the field of Username.

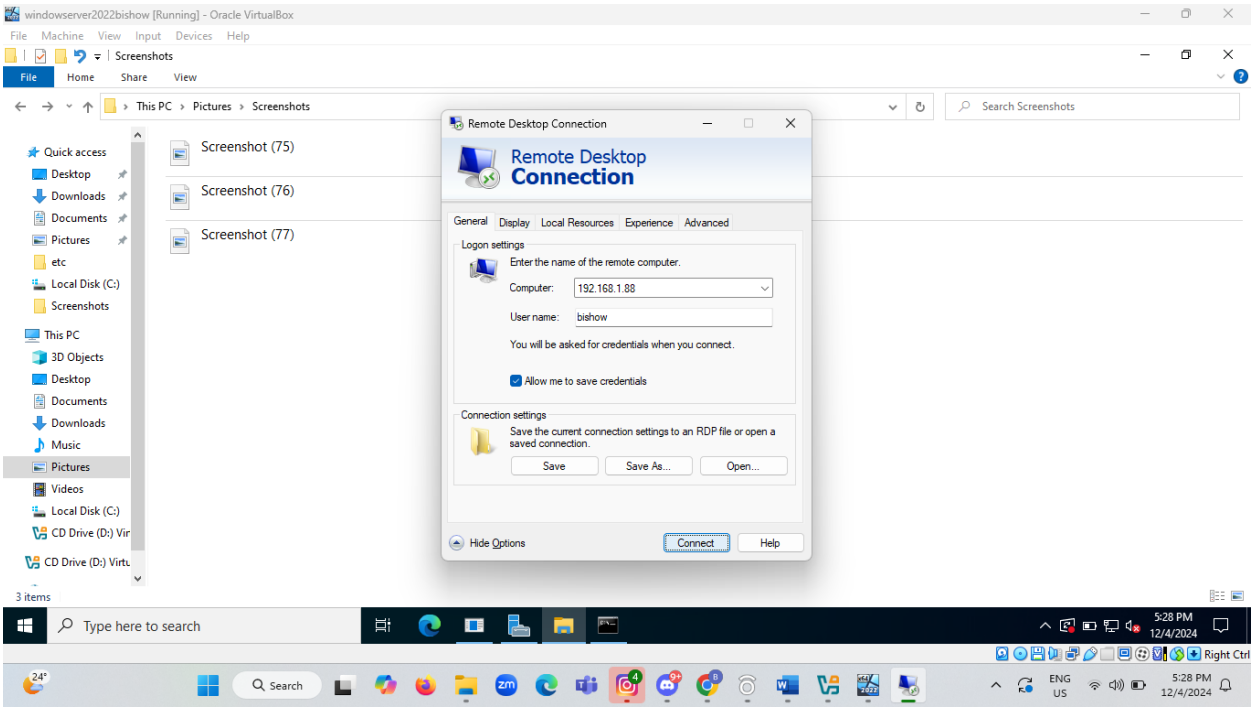

Figure 14 Filling up IP address of GUest OS

Finally a confirmation box will show up and click to yes to connect to remote desktop connection.

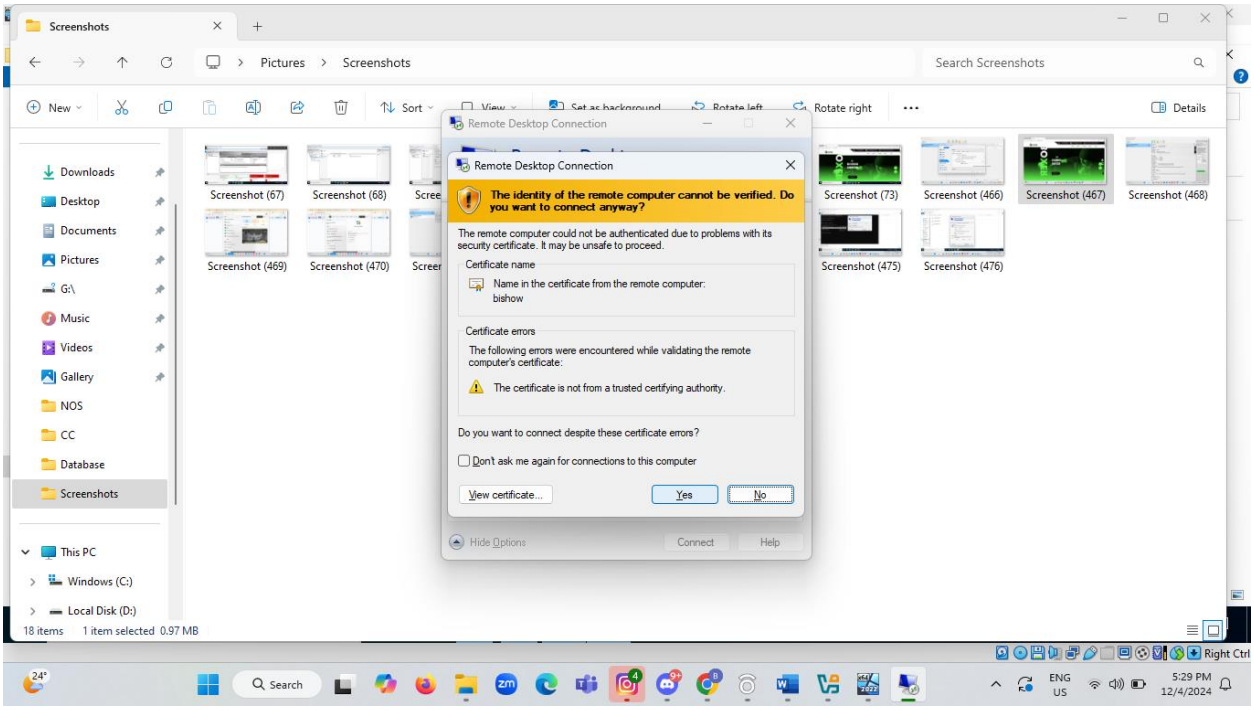

Figure 15 Confirmation Box

4.11 Connected Successfully to remote desktop connection

Remote Desktop Connection is finally connected to IP : 192.168.1.88

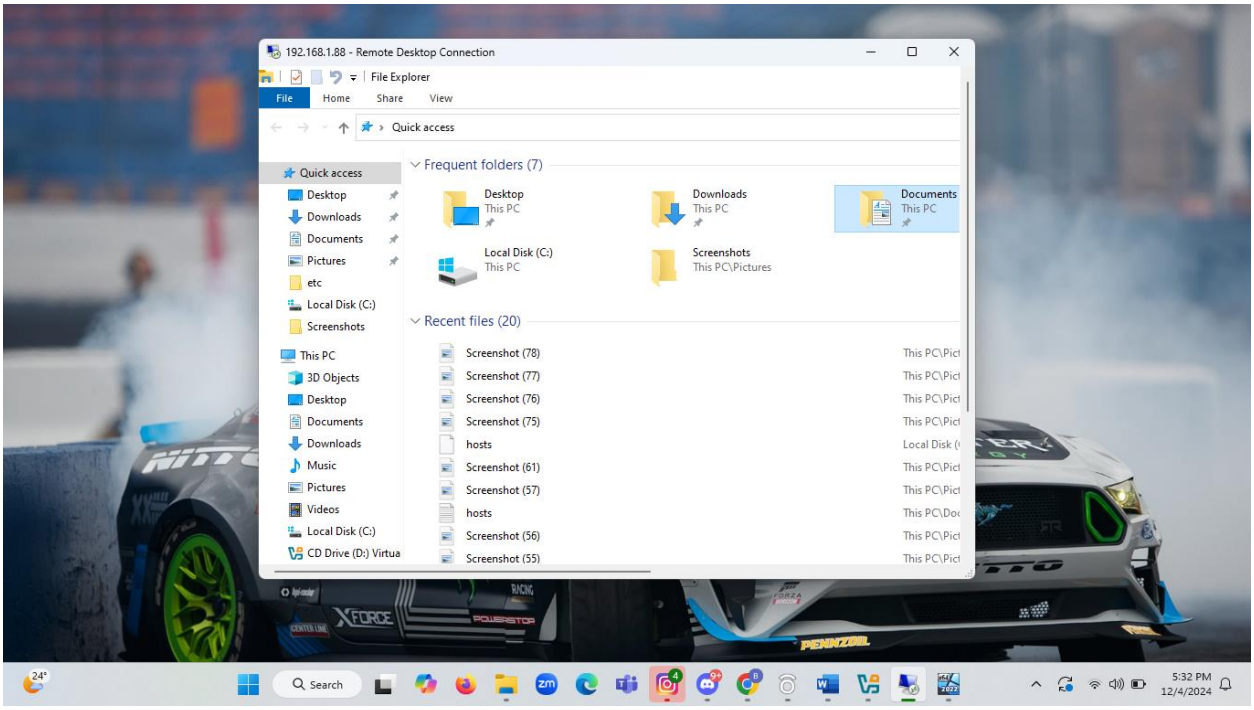

Figure 16 IP 192.168.1.88 Connected to Remote Desktop Connection

5.Conclusion

In this project , we hosted a static webiste on Windows Server 2022 enabling other devices within same LAN to access the website and enabled desktop access, demonstrating effective web hosting and server management with LAN environment.

References

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