



Module Code & Module Title - CT5052NP (Network Operating System)

Level 5 – Network Operating system

Assessment Type

Logbook - Report

Semester - 2023/24 Autumn

Student Name: Dipshan Ranabhat

London Met ID: 23048797

Assignment Due Date: 7 December 2024

Assignment Submission Date: 7 December 2024

Submitted To: Prashant Adhikari

Word Count : 754

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.

Contents

1. Introuduction.....	1
2. Objective	1
3. Tools and Software Used	1
4. Steps	1
4.1 Steps for hosting static websites in guest OS and making it accessible within same LAN	2
4.1.1 Hosting our static website in Windows Server 2022	2
4.1.2 Accessing guest OS from host OS using remote desktop	7
5. Conclusion	10
6. References	10

Table of Figure

Figure 1: placing website files on local disk c of guest OS.....	2
Figure 2: Attaching Bridged adapter in network	3
Figure 2: Attaching Bridged adapter in network	3
Figure 3: Opening IIs.....	4
Figure 4: Adding website	4
Figure 5: selecting the IP address from the drop down option and adding the website	5
Figure 6: We can see our website live	6
Figure 7: viewing the website from host OS	6
Figure 8: Opening the Tools for adding preferences	7
Figure 9: clicking on add extensions.....	7
Figure 10: Extension added	8
Figure 11: Enabling server for remote connection.....	8
Figure 12: viewing the IP address of Guest OS.....	9
Figure 13: Openign remote desktop on host OS and entering IP , username and password of Guest OS	9
Figure 14: Getting access of Guest OS through remote connection in host OS	10

1. Introduction

In this workshop, We are focusing on hosting static website on windows server 2022 through virtualization in virtual box and enabling the access to the website through host operating system and any device on same LAN. We are also configuring the way to have the feature of remote access to the Guest OS through host OS.

2. Objective

- i. To host static websites in guest OS and access it from host OS as well as from other computer devices within the same LAN.
- ii. To enable remote desktop feature in windows server 2022 and access it from host OS.

3. Tools and Software Used

- i. Virtual Box
Virtual box is a free cross-platform virtualization tool which helps to run multiple operating systems on single device. It is mostly used by developers to efficiently test and deploy applications
- ii. Windows Server 2022
It Network OS for managing network resources, to store data and support network infrastructure. It has a role in web hosting and managing small to big enterprise level services.
- iii. Website
Free website to be hosted on our windows server accessible from host OS and devices within same LAN.

4. Steps

4.1 Steps for hosting static websites in guest OS and making it accessible within same LAN

4.1.1 Hosting our static website in Windows Server 2022

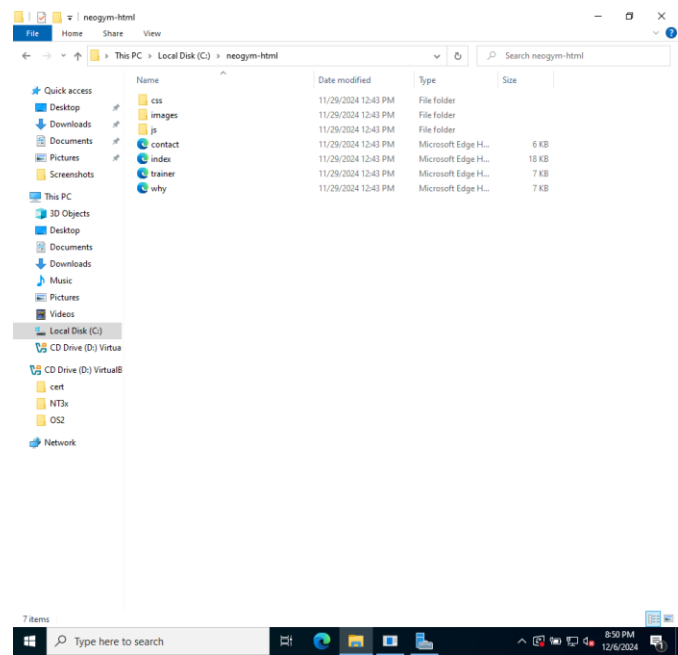


Figure 1: placing website files on local disk c of guest OS

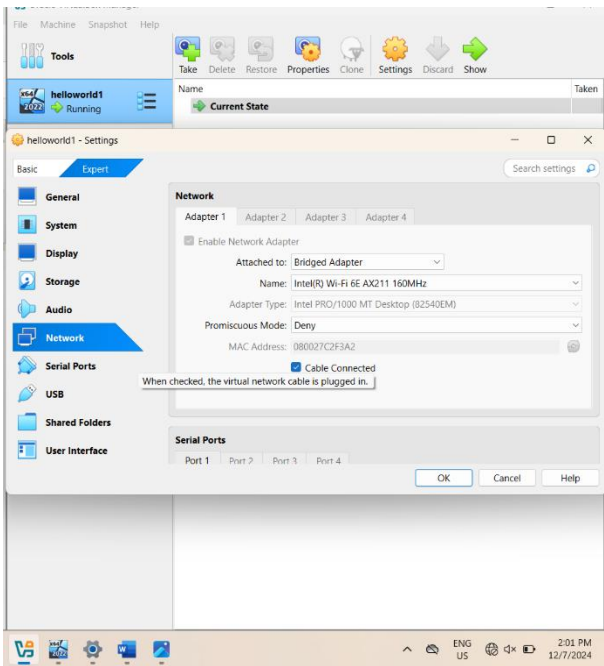


Figure 2: Attaching Bridged adapter in network

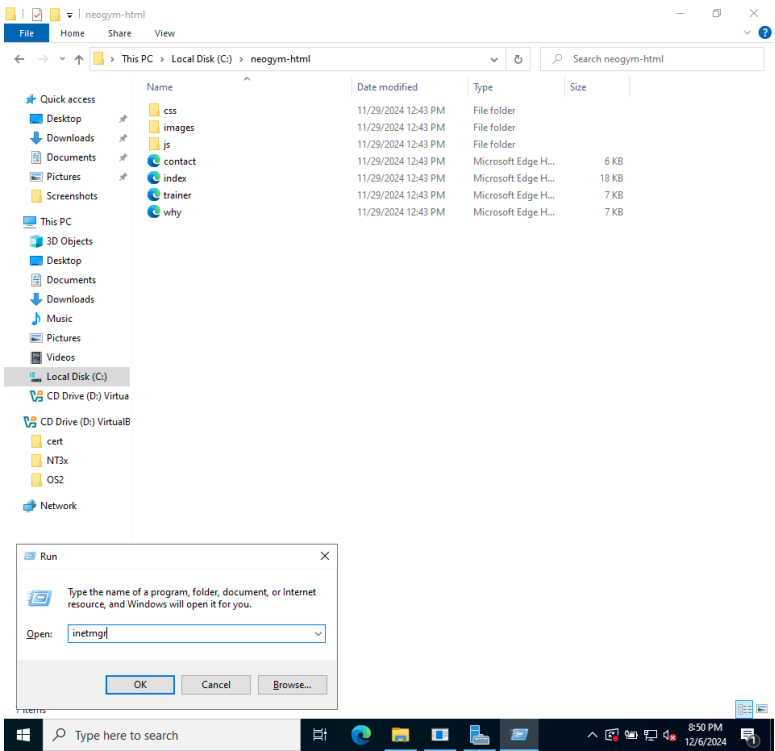


Figure 4: Opening IIS

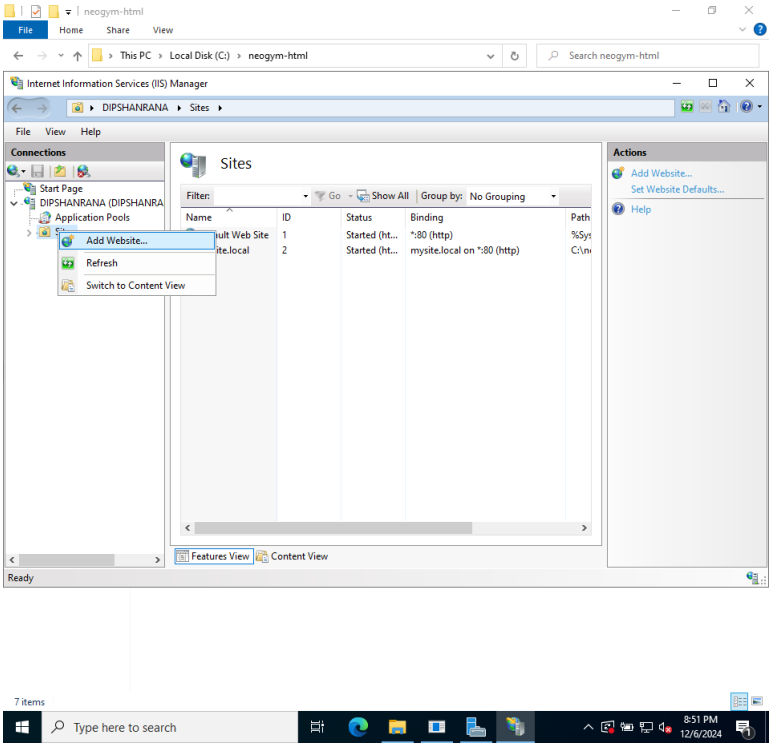


Figure 5: Adding website

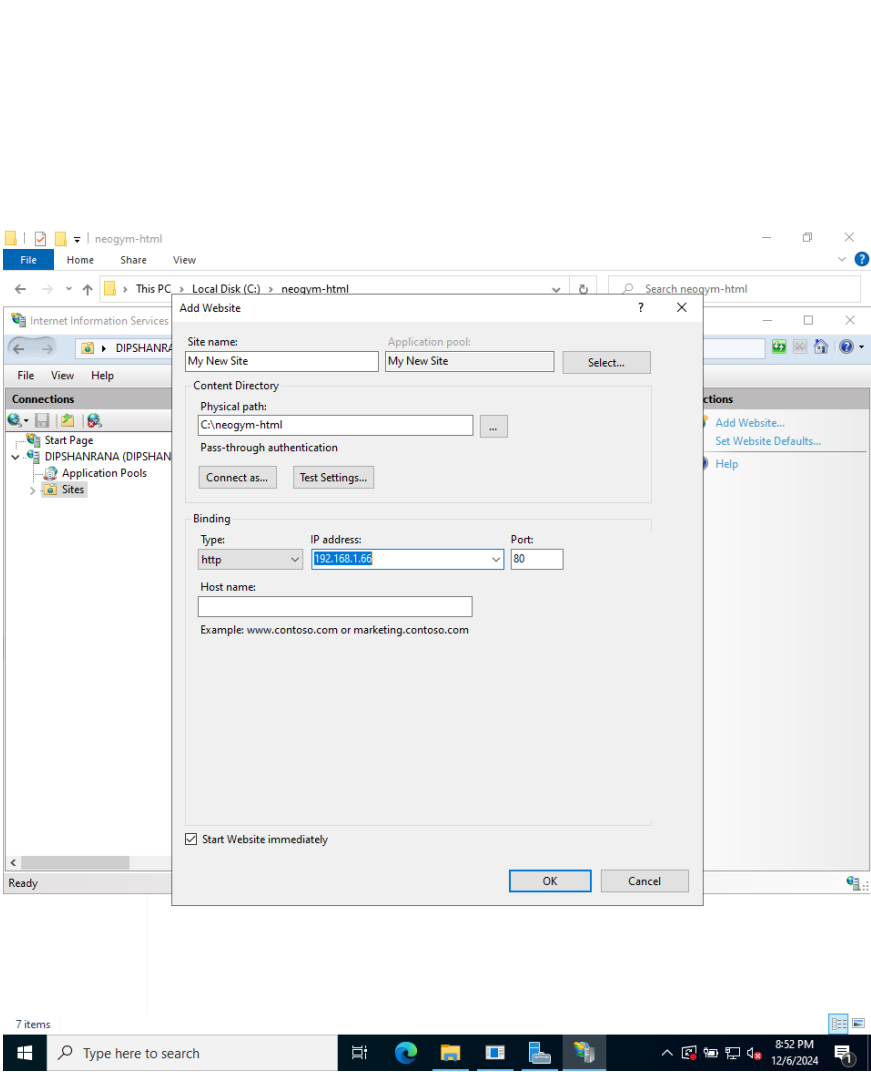


Figure 6: selecting the IP address from the drop down option and adding the website

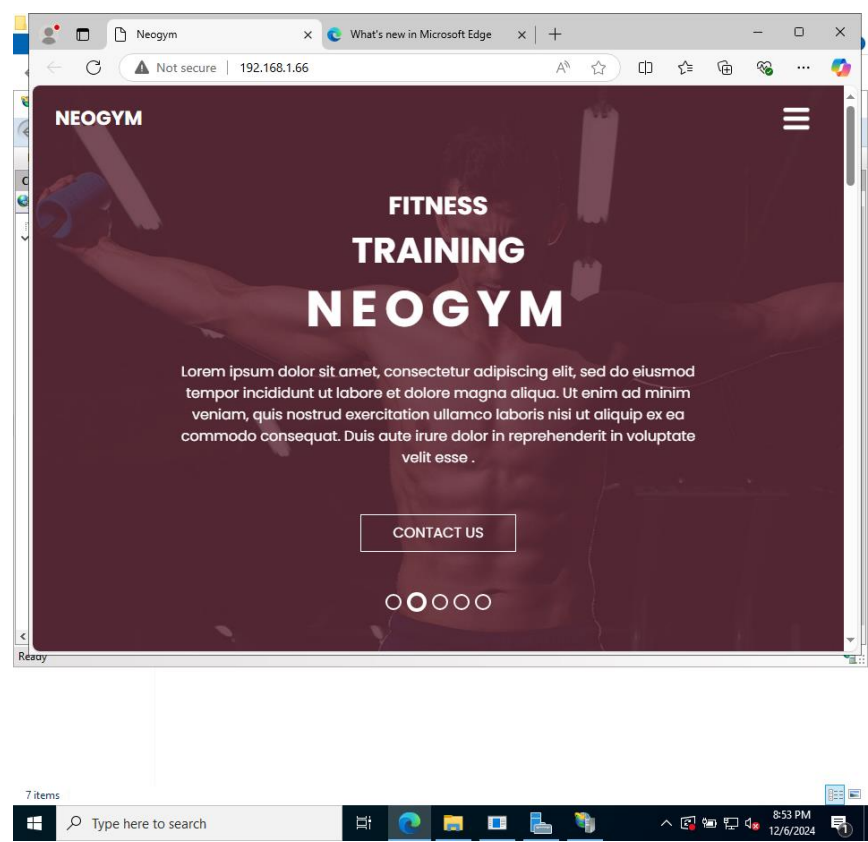


Figure 7: We can see our website live

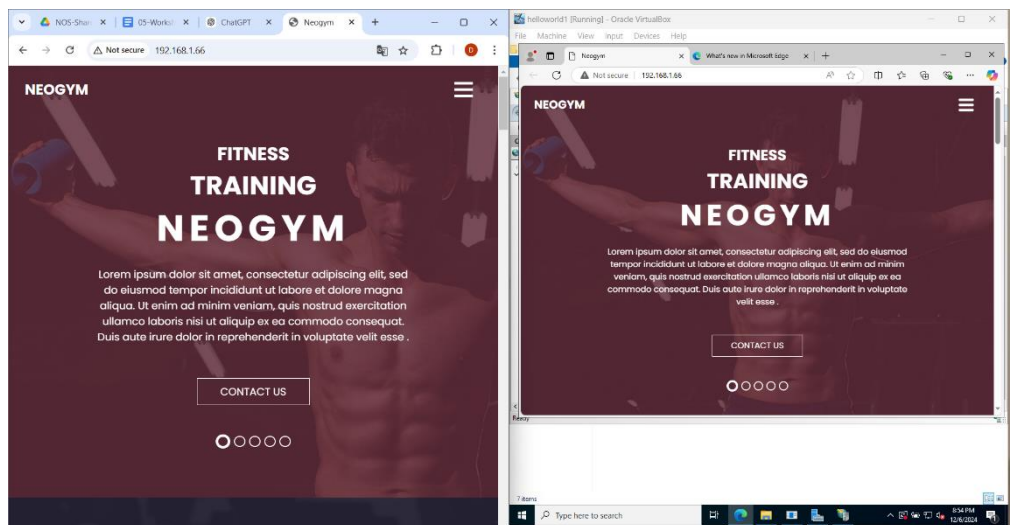


Figure 8: viewing the website from host OS

4.1.2 Accessing guest OS from host OS using remote desktop

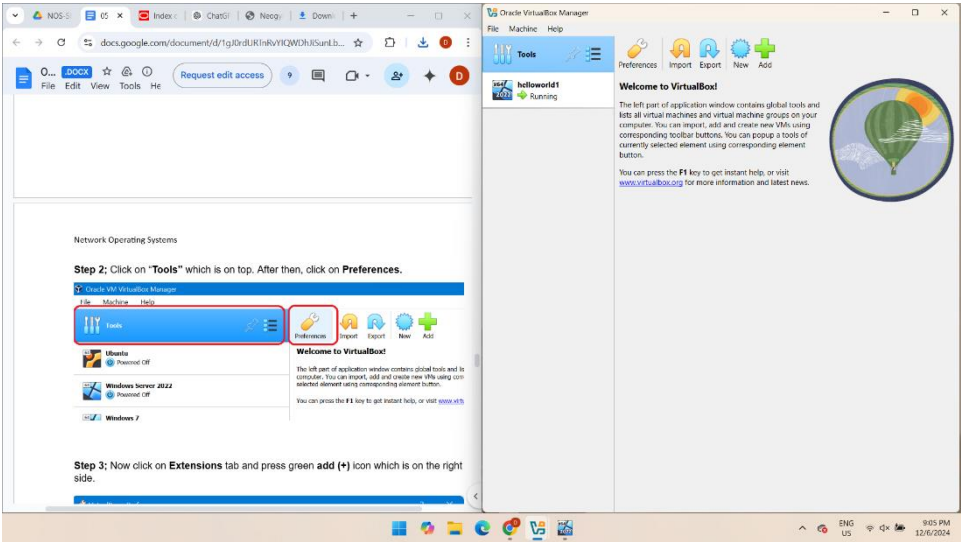


Figure 9: Opening the Tools for adding preferences

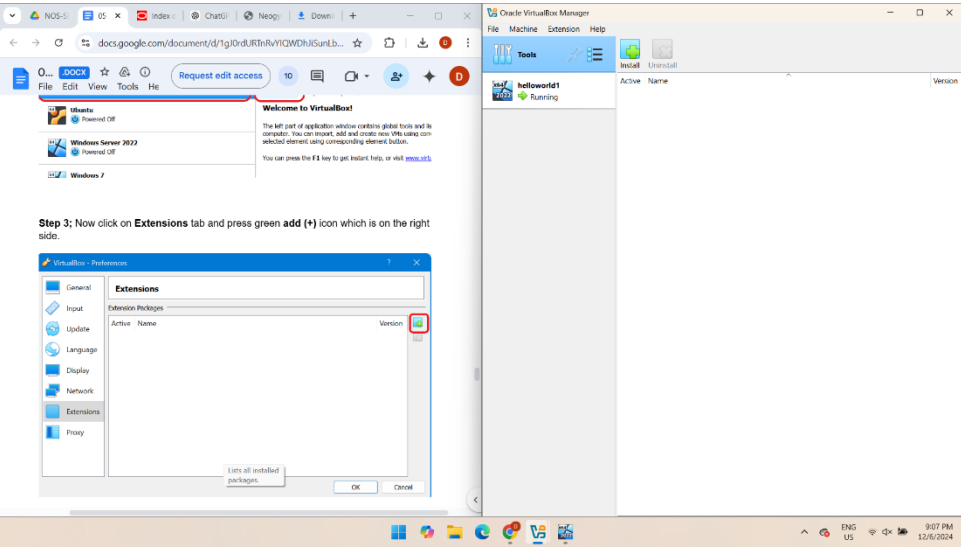


Figure 10: clicking on add extensions

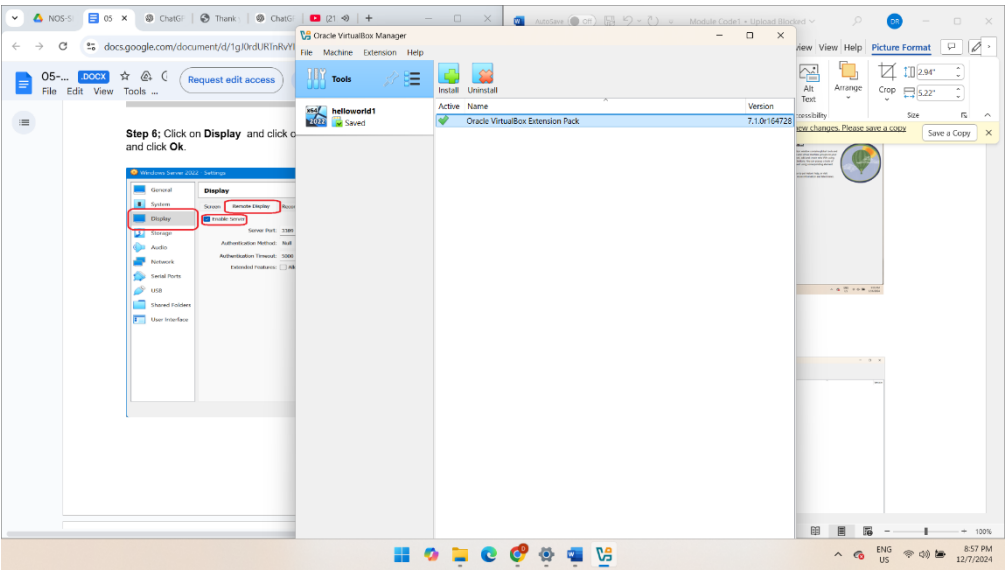


Figure 11: Extension added

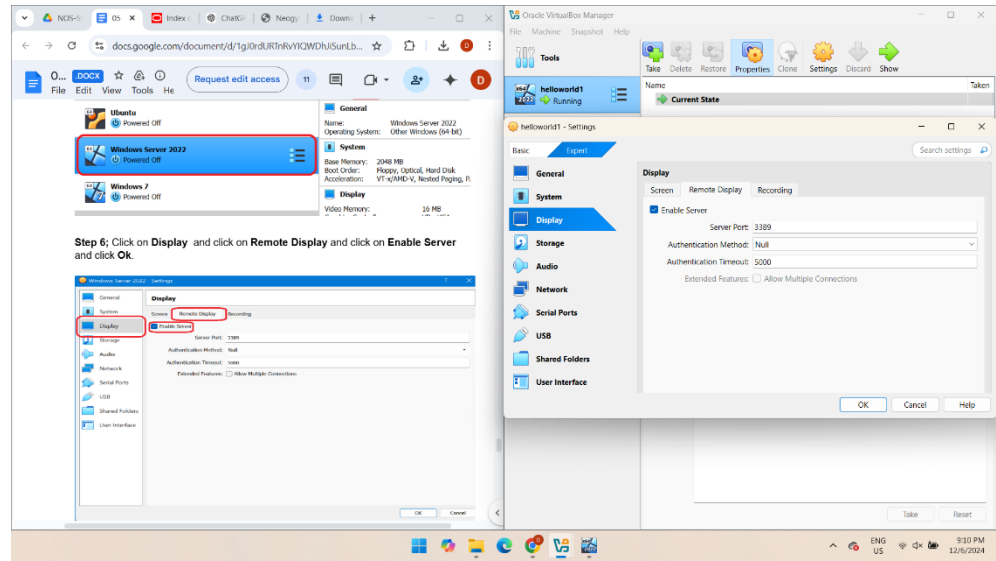


Figure 12: Enabling server for remote connection

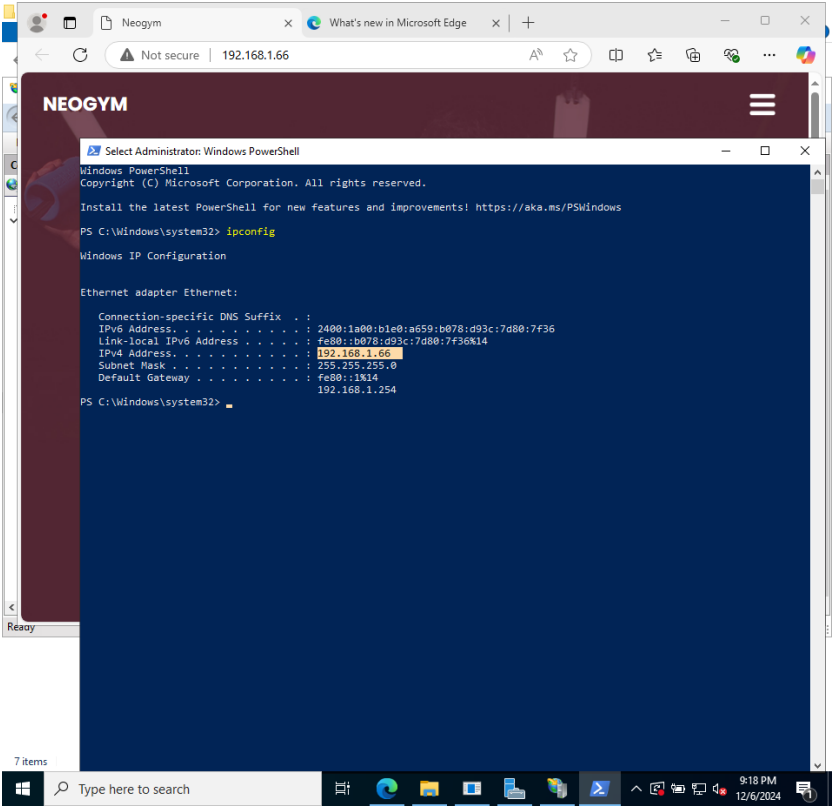


Figure 13: viewing the IP address of Guest OS

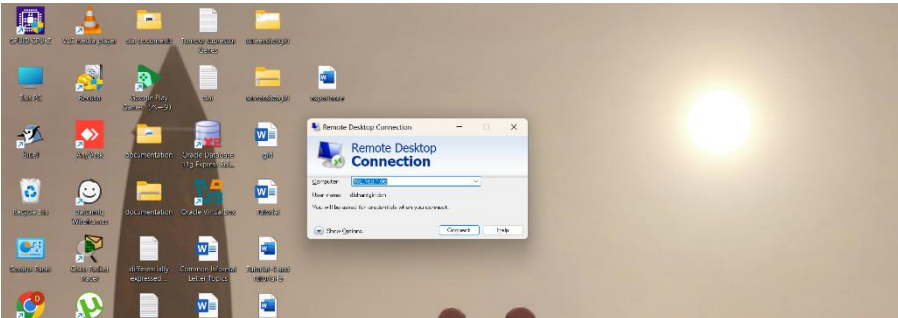


Figure 14: Openign remote desktop on host OS and entering IP , username and password of Guest OS

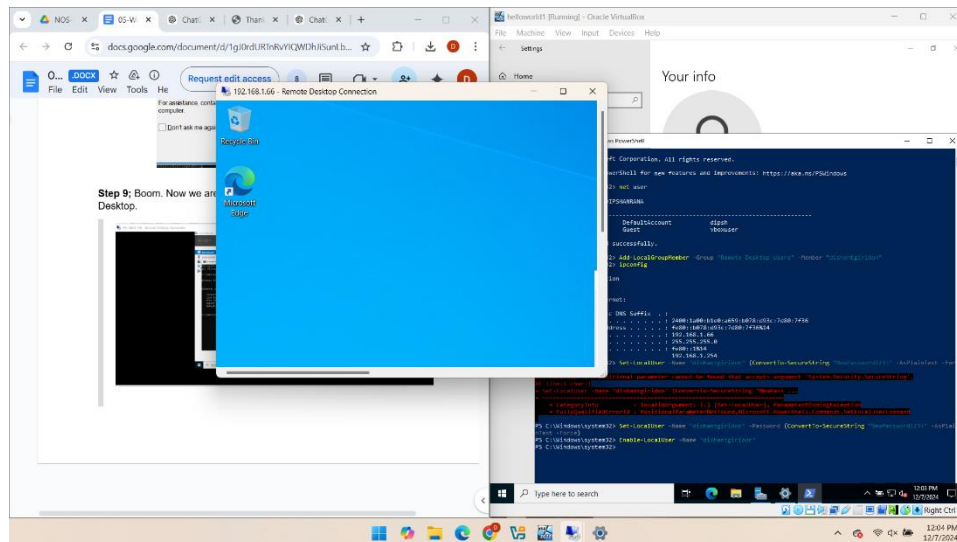


Figure 15: Getting access of Guest OS through remote connection in host OS

5. Conclusion

In conclusion, this project demonstrated the way of hosting a static website on Windows Server 2022 in a virtual environment through VirtualBox and to access the website through any device within the same LAN. Also, provided the configuration of Remote Desktop feature for accessing Guest OS which provided the skills of networking and remote access management of OS.

6. References

- Microsoft. (n.d.). Windows Server 2022 Overview. Retrieved from Microsoft Windows Server
- Oracle Virtualization. (n.d.). VirtualBox Overview. Retrieved from Oracle VirtualBox.