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(इस्लिङ्टन कलेज)

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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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# To host a static website in windows server and access it from Host as well as Other devices in same LAN

## 1) Aim

The main aim about this log book is to host static websites in windows server 2022 and access it from host OS as well as other devices within the same LAN.

## 2) Windows Server

Windows Server constitutes a collection of server operating systems developed by Microsoft, aimed at delivering critical services and infrastructure to enterprises and organizations. It facilitates the administration of network resources within extensive environments. The platform encompasses a diverse array of functionalities, including Active Directory for the management of users and resources, web hosting capabilities via Internet Information Services (IIS), and numerous advanced security protocols.

## 3) Steps

3.1) Open VirtualBox and select virtual environment. Then click on “Settings”

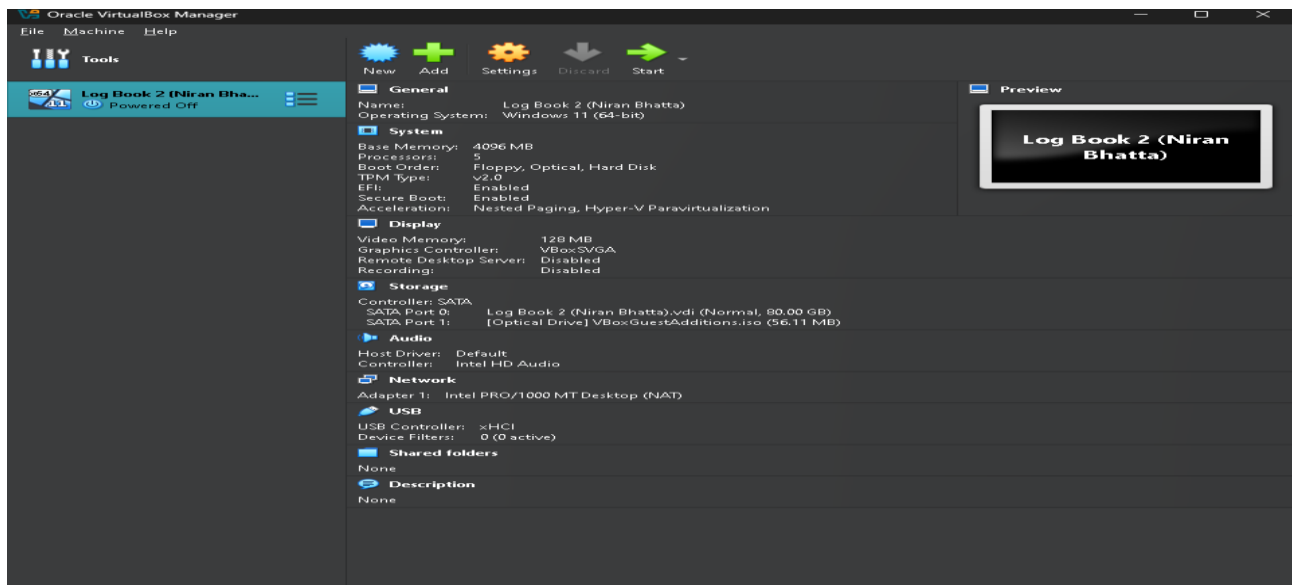


Figure 1 Virtual Box Interface

3.2) Click on “Network” and select “Bridged Adapter”. Now click “Ok” and run windows Server 2022.

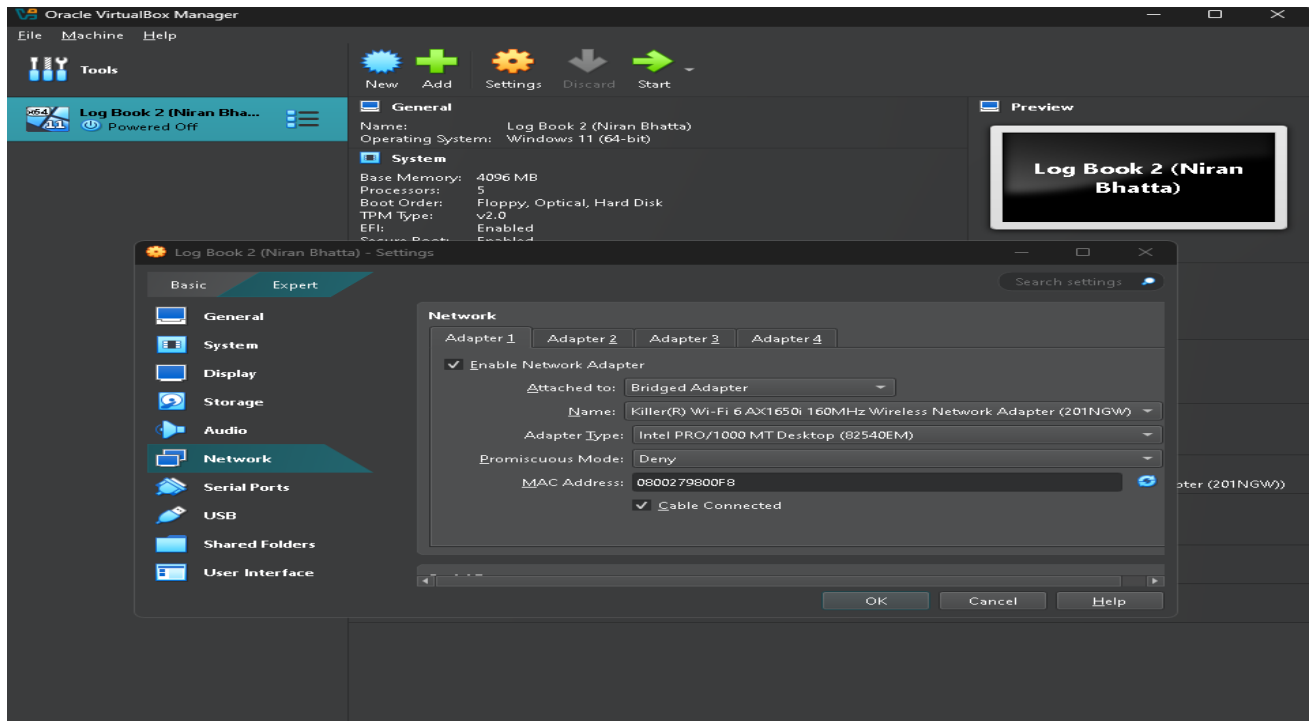


Figure 2 Network Interface

3.3) Now open the files of the website that was previously stored in local disk C in Windows server 2022.

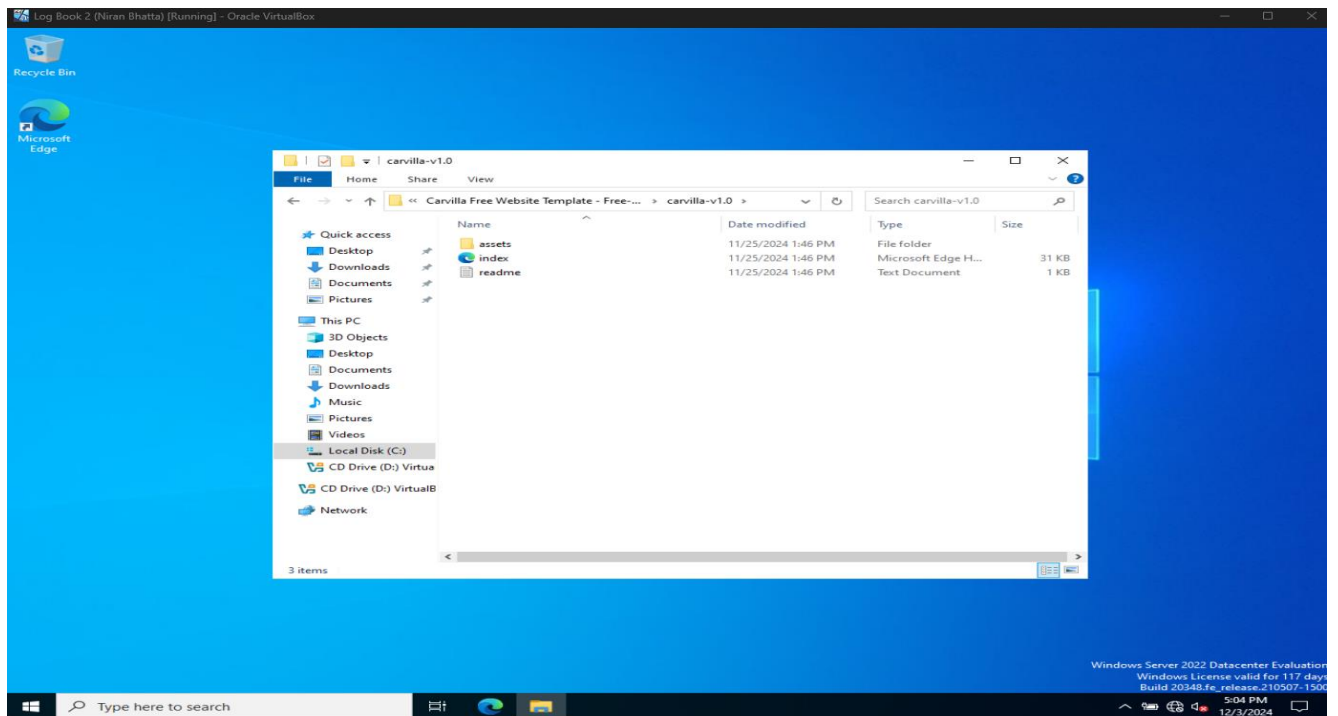
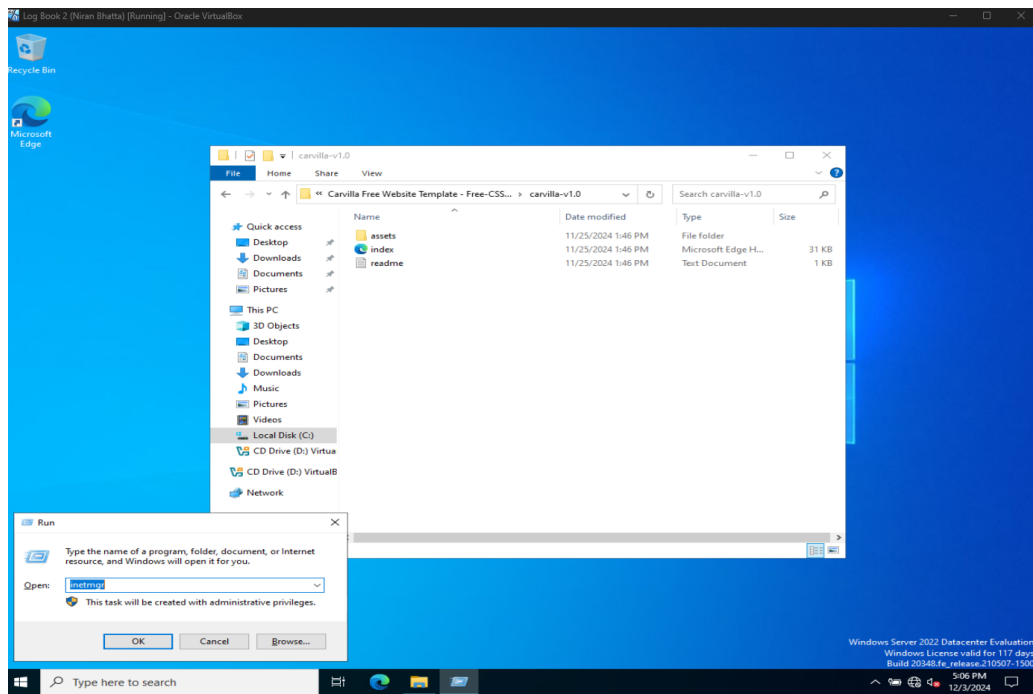


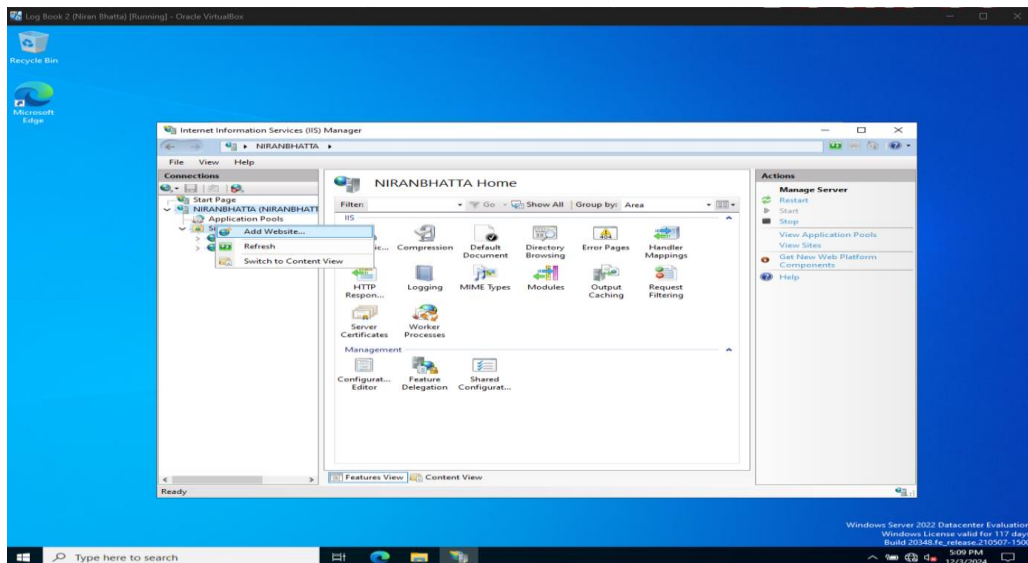
Figure 3 Opening Website Files

**3.4)** Press Win + R and type “inetmgr”. It opens Information Service from where hosting can be set up



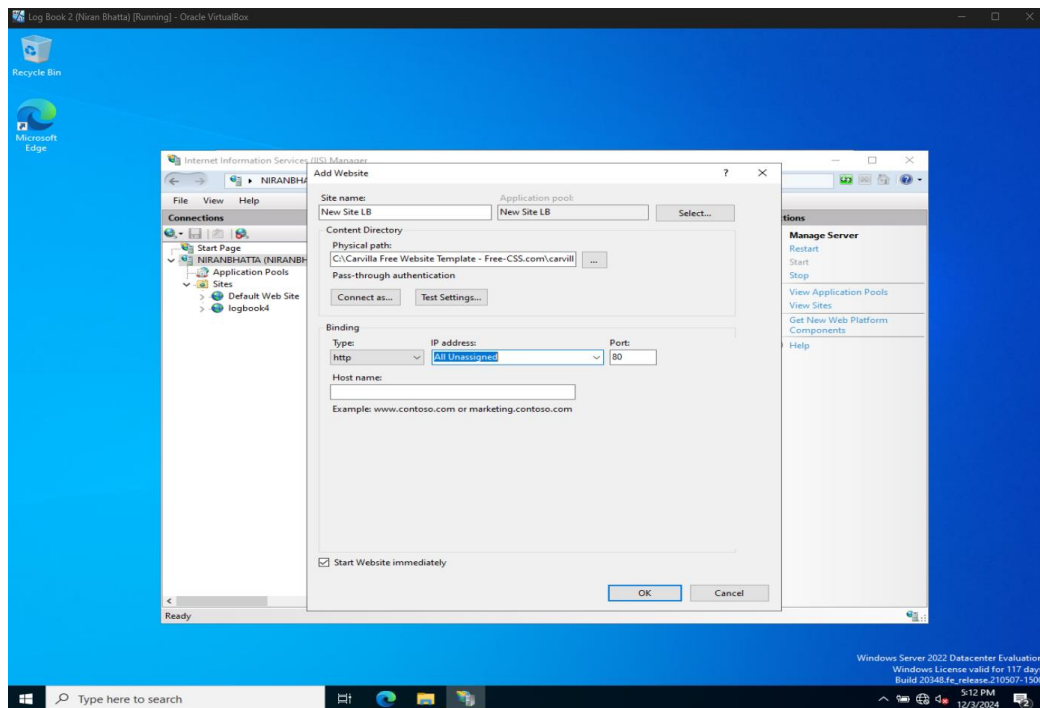
*Figure 4 Using Run to open IIS*

**3.5)** Expand server and click “Sites”. Now click “Add Website”.



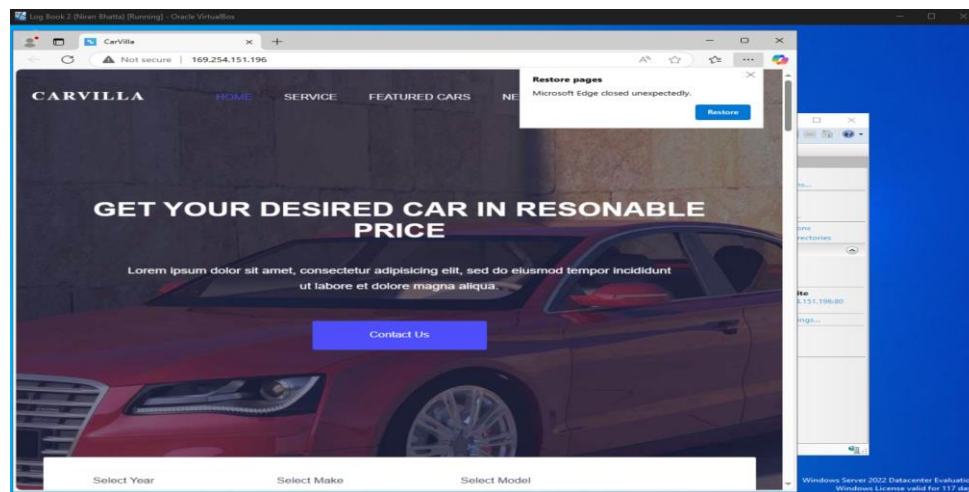
*Figure 5 Adding Website*

**3.6)** Now add the details of the website. Give the site name as desired and give the path to the folder where our website files are located. Select IP address from drop down option . Leave other options as default and click “Ok”.



*Figure 6 Filling Website Details*

**3.7)** After that we can see our site name. After that browse the website. Our website is live now



*Figure 7 Website is seen live*

**3.8)** Type IP address of Guest OS in Host OS

**3.9)** Open the website from smartphone by using IP of guest OS to check whether website can be accessed from phone. Make sure to connect phone to the same network.

Now connecting windows server using remote connection from Host OS.

We need to download Expansion Pack for Virtual Box from the following link

<https://download.virtualbox.org/virtualbox/>

Select version of our virtual box installed.

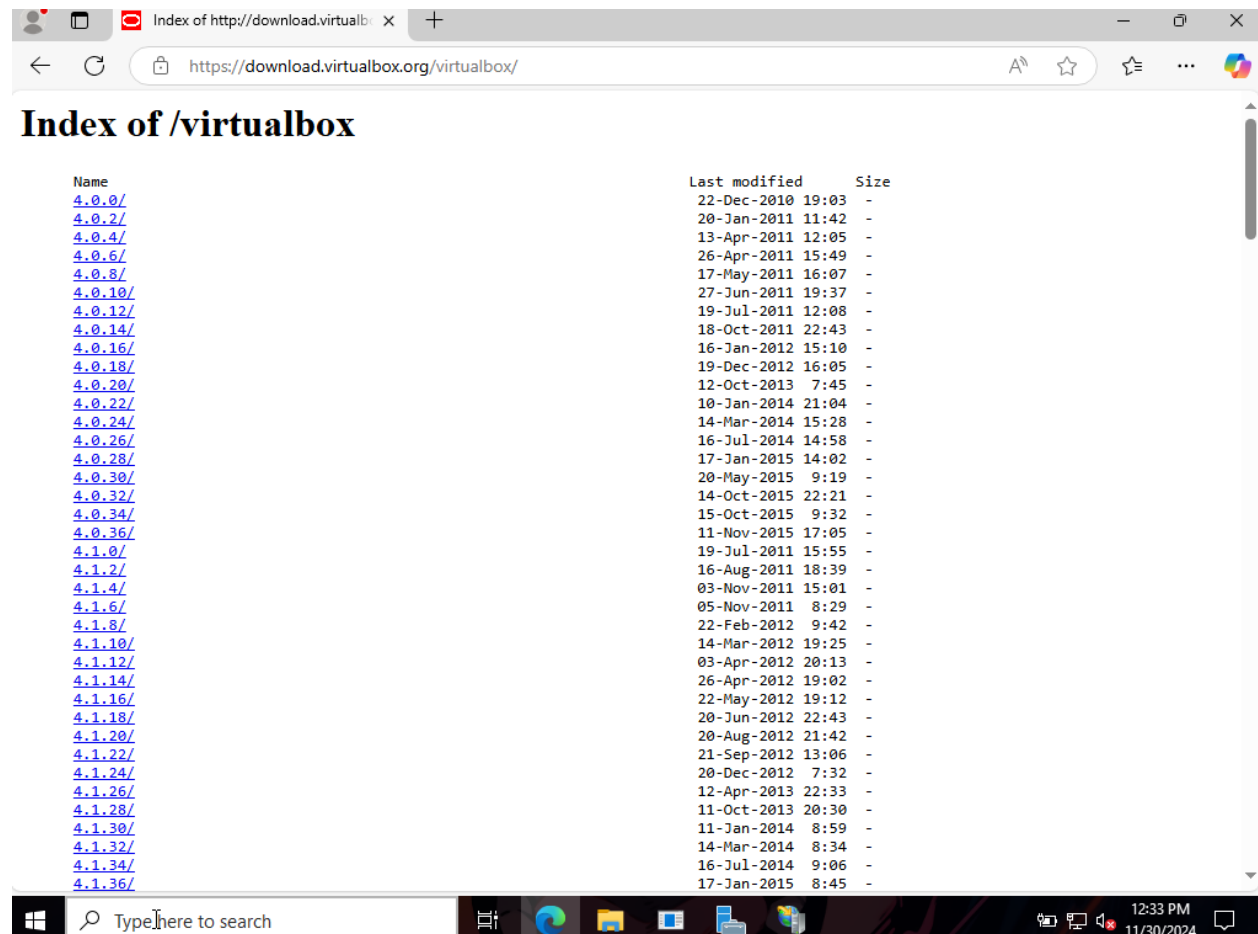


Figure 8 Downloading Virtual box Expansion Pack

**3.9)** After expansion pack is downloaded, follow the following steps

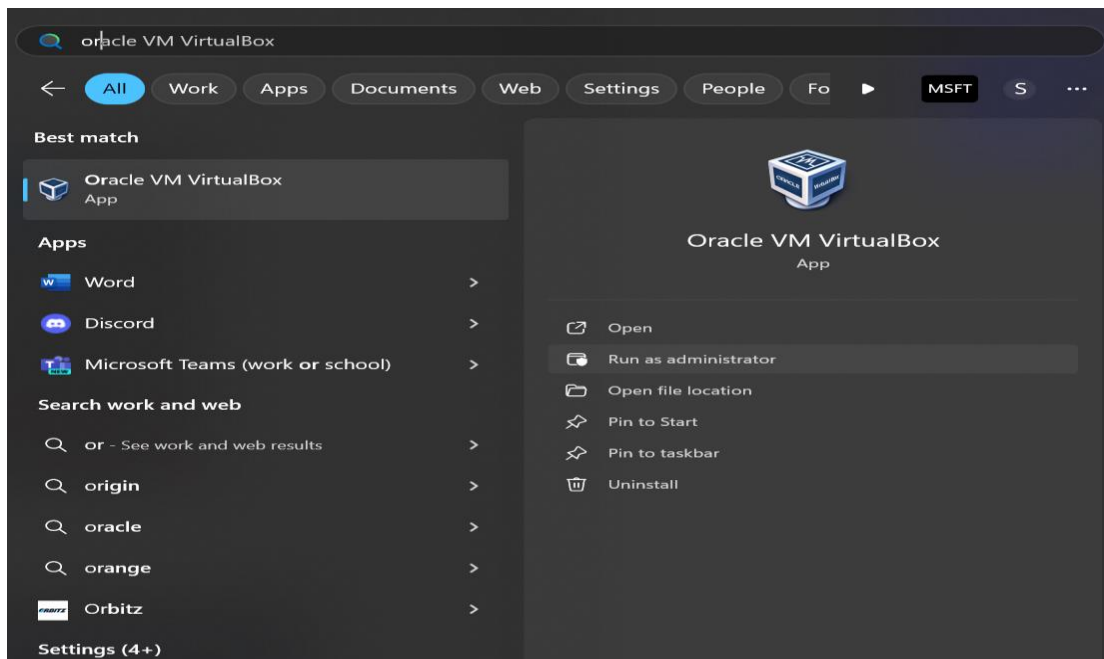


Figure 9 Opening Virtual Machine

**3.10)** After downloading, Open Oracle VB. It shows reinstalled as it is already installed.

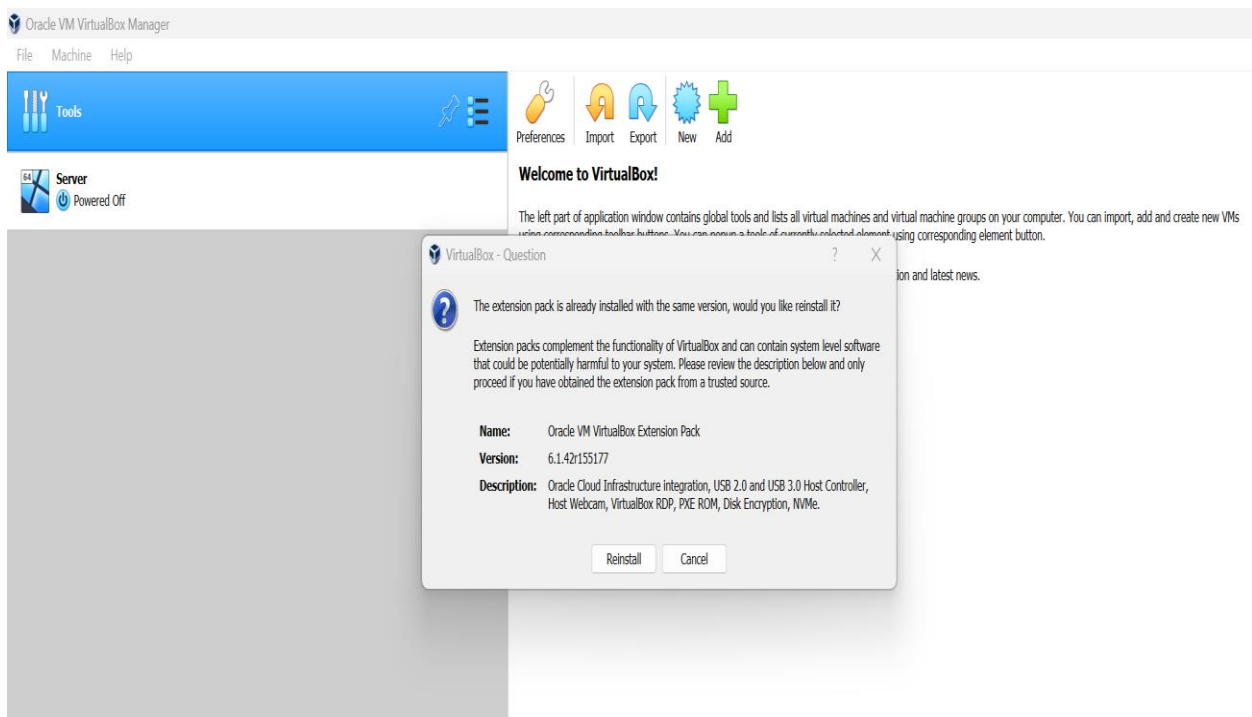


Figure 10 Installing Expansion Pack



### 3.11) Navigate the downloaded expansion pack and select the file to install in device

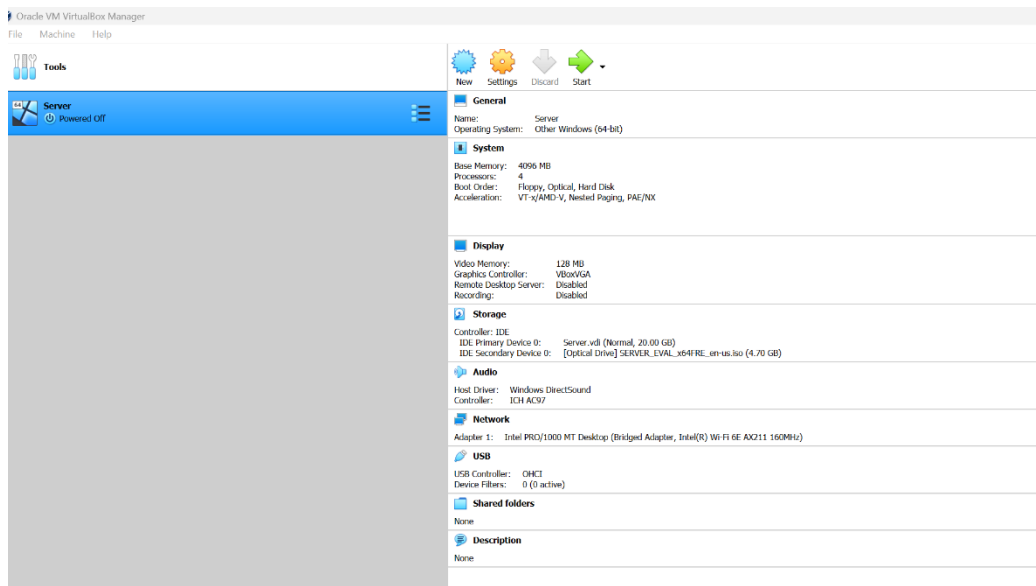


Figure 11 Selecting file to install in device

### 3.12) Click Display and select remote display. Click on enable server and select “Ok”.

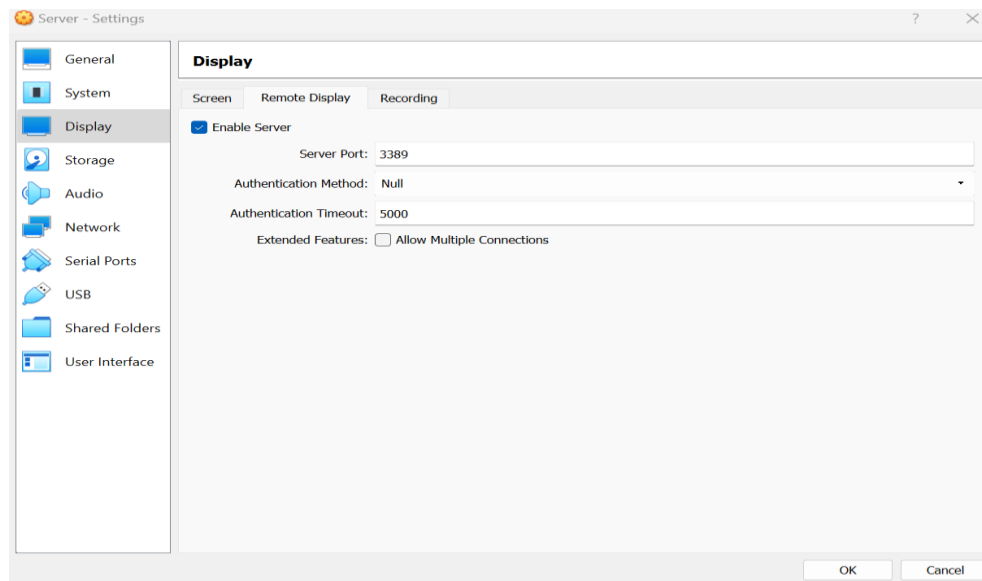


Figure 12 Enabling the server

### 3.13) See the IP of guest OS In windows server. Then open remote Desktop connection from host and input the IP of guest IP and connect it.

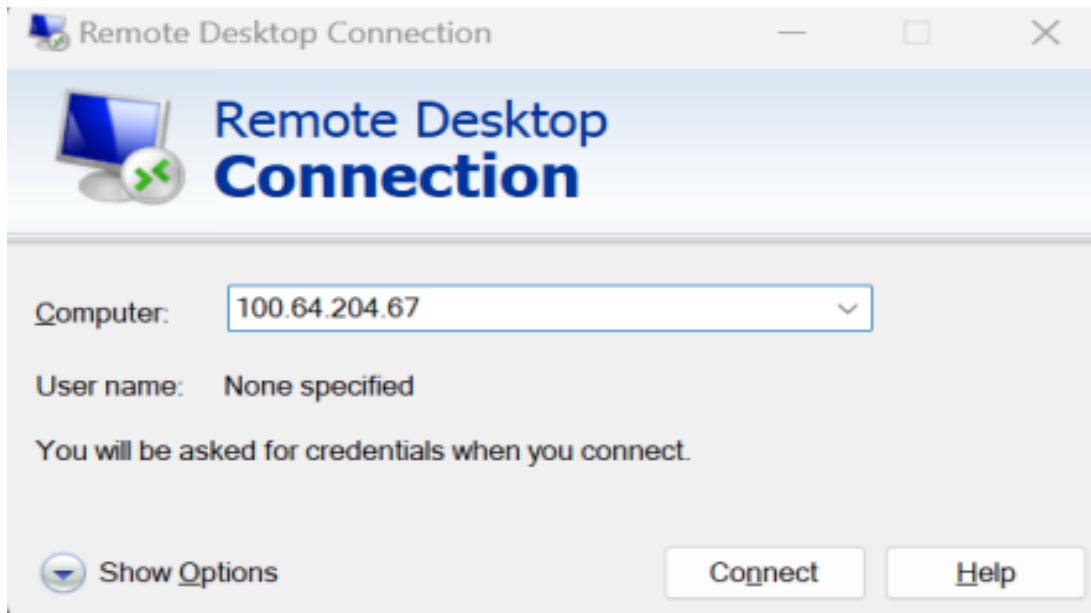


Figure 13 Adding guest IP to Host

**3.14)** Then fill up the required details and click Yes.

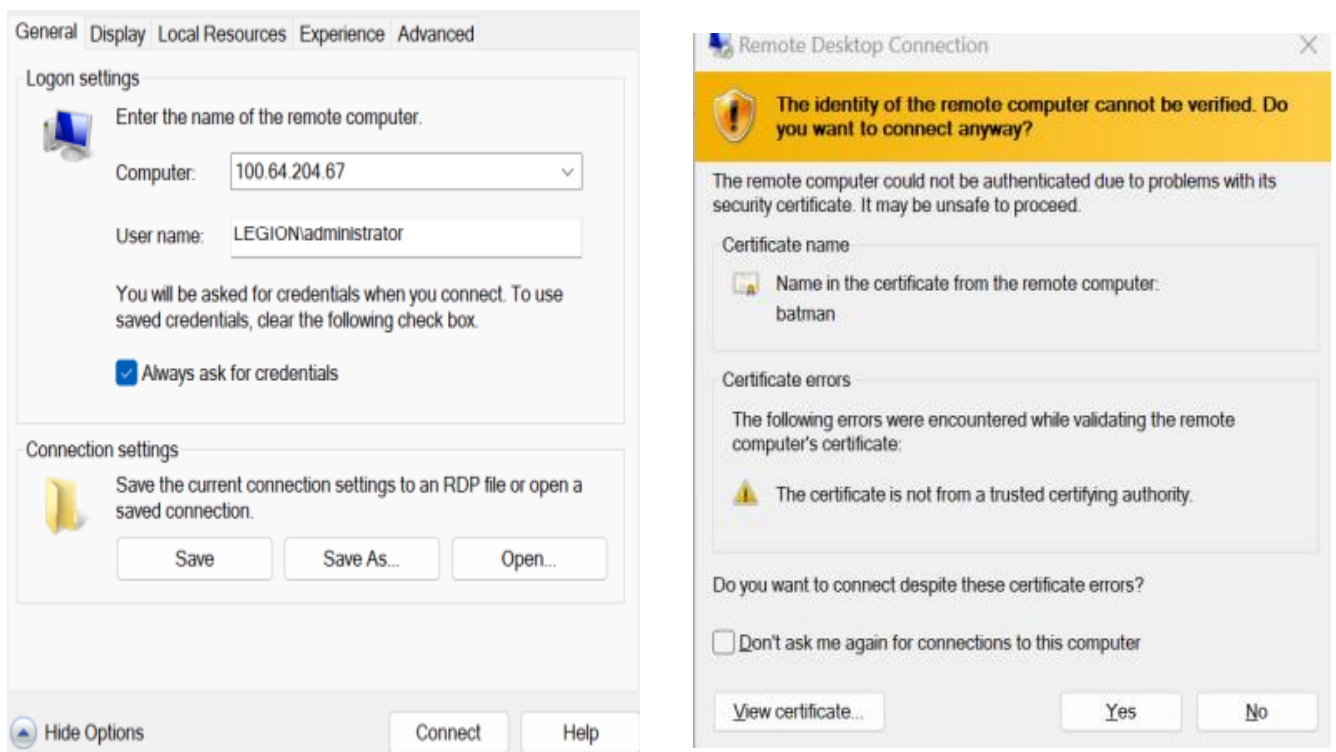


Figure 14 Filling Required Details

**3.15)** Now Guest OS can be accessed by using remote desktop in Host OS.

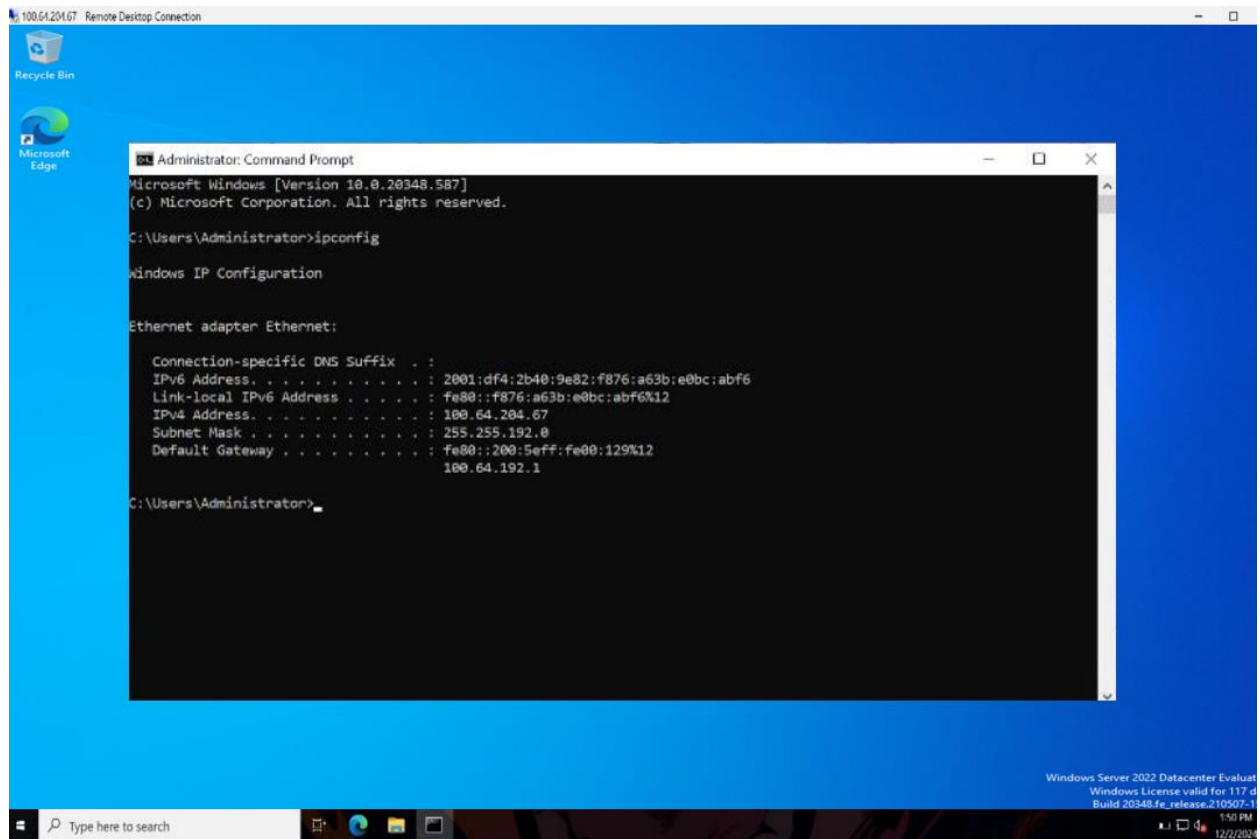


Figure 15 Guest OS is accessed in Host OS

#### 4) Conclusion

In summary, utilizing a guest operating system to host static webpages on a local area network transforms personal computers into dynamic hubs for seamless communication and collaboration. This approach significantly enhances user experience, allowing individuals to access content more rapidly, while the optimization of resources ensures high performance without jeopardizing the integrity of the host system. Furthermore, a secure and adaptable environment is established for hosting, bolstered by robust security protocols and flexible configuration options available to users. A notable advantage of this methodology is its scalability, which facilitates organic growth in both static webpages and user interactions. The implementation of monitoring and maintenance mechanisms ensures that the hosting infrastructure remains reliable, thereby establishing a stable platform for information sharing across local networks.

## **5) Bibliography**

- (wikipedia, 2024)

(Anon., 10/05/2023)