EXPERIMENT-8

AIM: Create a virtual machine (VM) instance and load two virtual machine in it using Virtual Box

VirtualBox is open-source software for virtualizing the x86 computing architecture. It acts as a hypervisor, creating a VM (virtual machine) where the user can run another OS (operating system).

Used Virtual Box for the experiment

- 1. <u>Ubuntu:</u> Ubuntu is a user-friendly, open-source Linux OS based on Debian, favored for its accessibility and community support, featuring regular releases and Long Term Support options for stability.
- 2. <u>Kali:</u> Kali Linux is a specialized Linux distribution designed for penetration testing, ethical hacking, and cybersecurity tasks. It comes pre-loaded with a vast array of security tools, making it a go-to choice for professionals and enthusiasts in the field of information security and digital forensics.

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Command Prompt
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.
C:\Users\ujjwa>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet 2:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::ec5d:eb97:c0e0:2b74%13
IPv4 Address . . . . . : 192.168.56.1
   Default Gateway . . . . . . . :
Wireless LAN adapter Local Area Connection* 1:
                                 . . : Media disconnected
   Media State . . . . .
   Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 2:
                                . . . : Media disconnected
   Media State . .
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix . :
   Link-Local IPv6 Address . . . : fe80::74ae:7003:36d6:aea6%12
IPv4 Address . . . : 172.29.23.192
Subnet Mask . . . . : 255.255.0.0
Default Gateway . . . : 172.29.0.1
Ethernet adapter Bluetooth Network Connection:
   Media State . .
                                 . . : Media disconnected
```

Figure: 1

Here we have used "ipconfig" in windows terminal to get the primary device ip address (shown in Figure: 1).

Figure:2

In this Figure: 2 we have found out the device ip for the virtual box using "ip a" command. Then we have used "ping <ip>" to ping data to primary device from the Ubuntu VB.

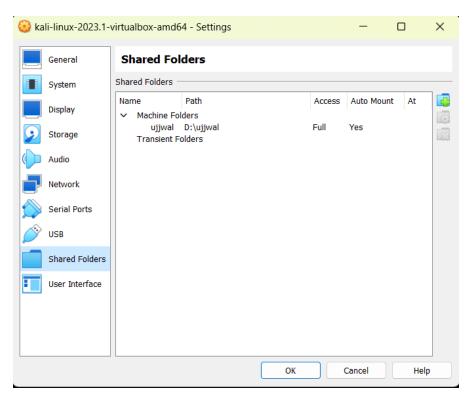


Figure: 3

After Checking that the VB and the host device are communicating, we will now create a shared folder as sown in Figure: 3. This will a folder both VirtualBox and the primary device share.

Figure: 4

Now we will mount the shared folder using the VirtualBox as shown in the Figure: 4.

Here we have implemented the same as before using Kali Linux.

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