CS23024

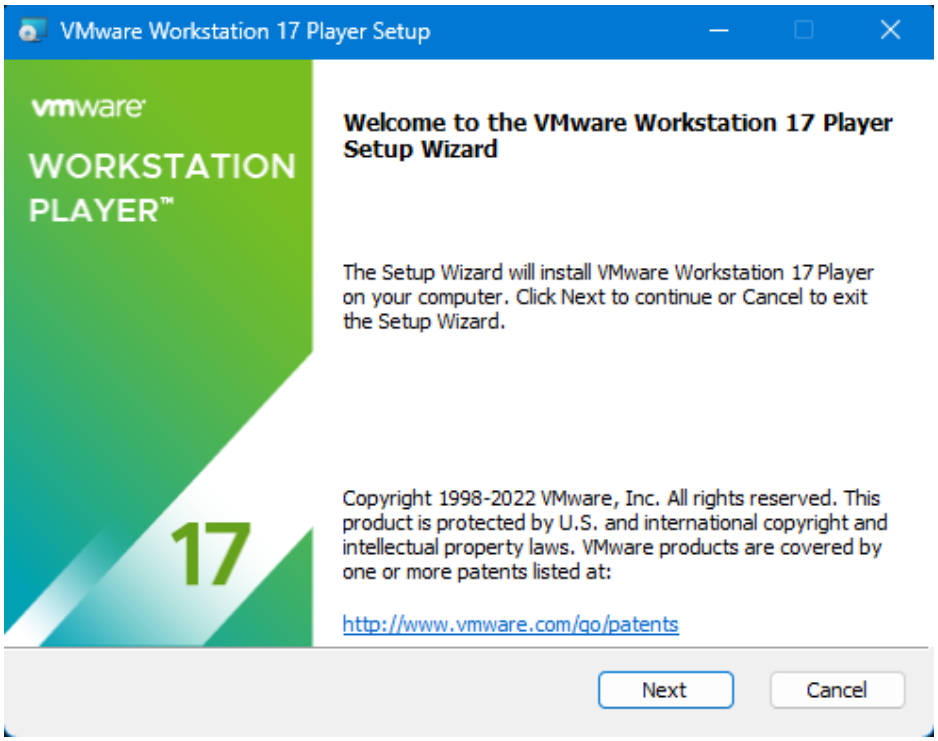
Practical 1

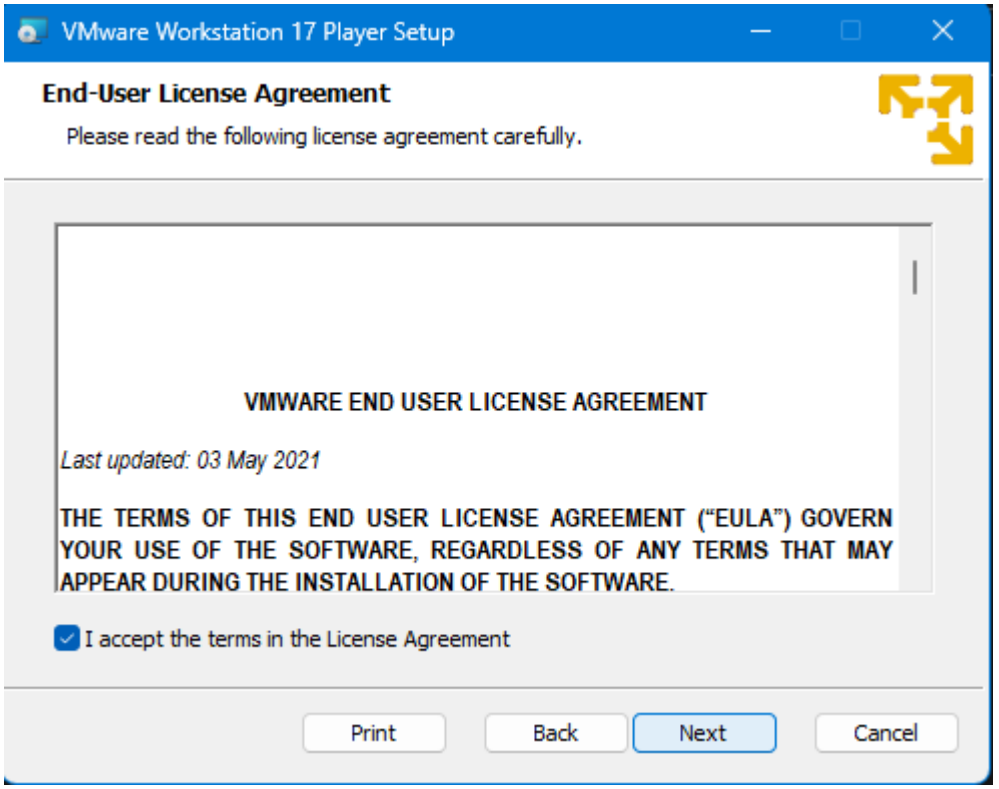
Aim: Lab Setup

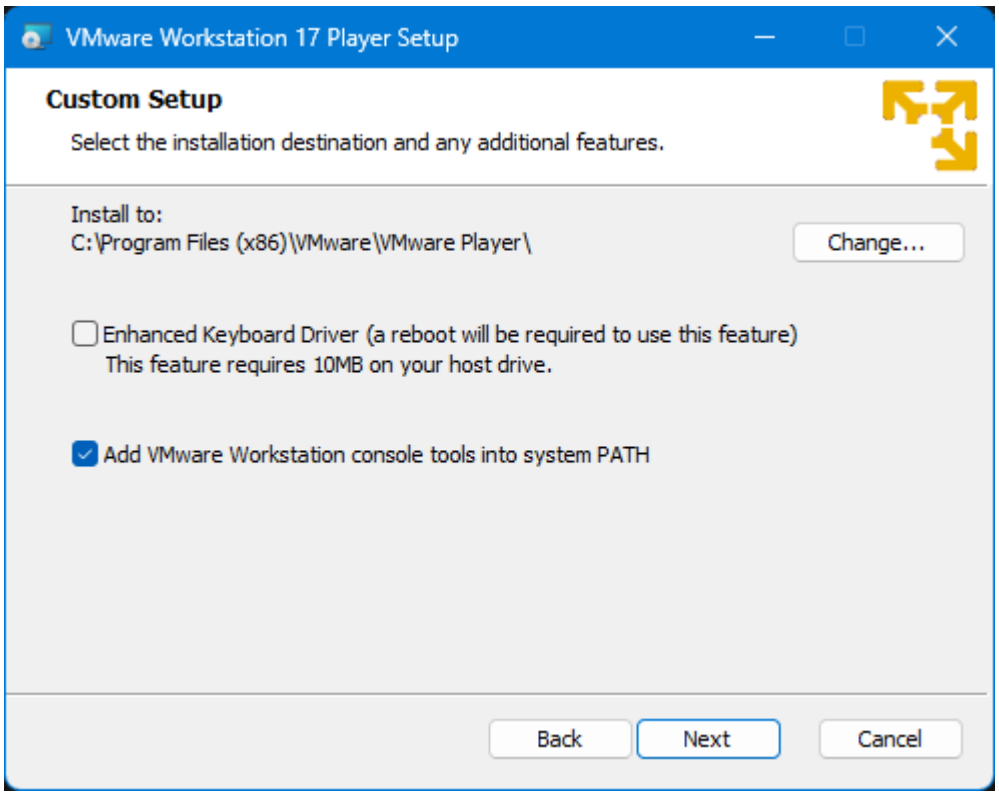
Requirements:

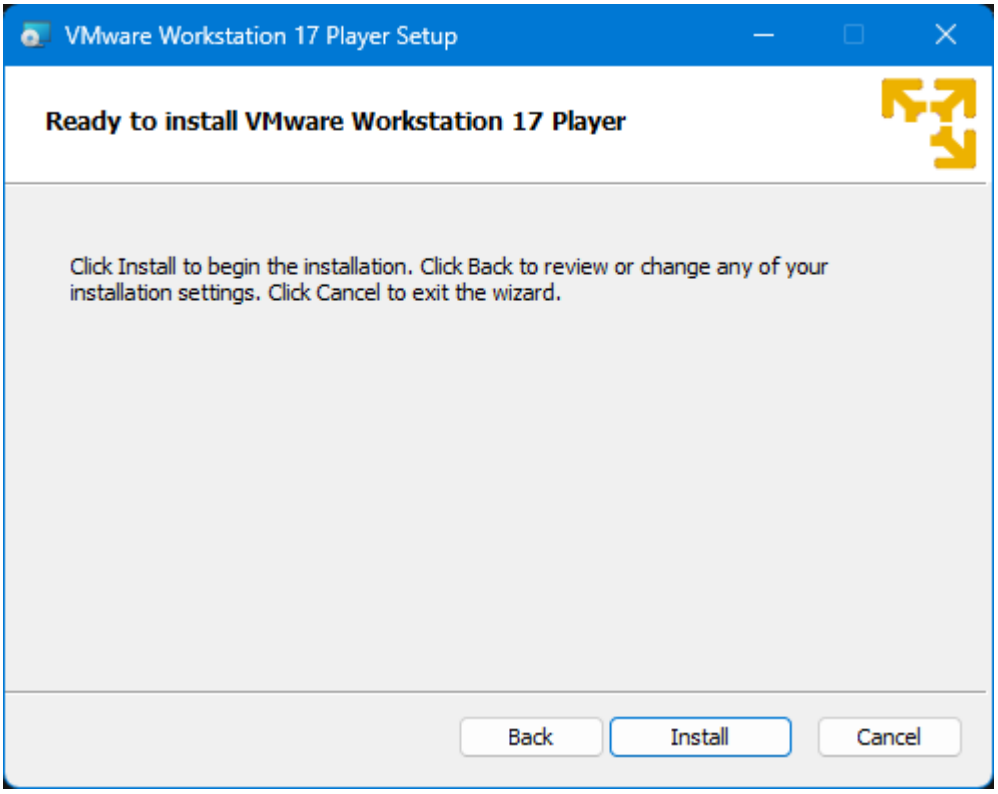
- Windows XP ISO
- Kali Linux VMware/VirtualBox image
- Metasploit VMware/VirtualBox image
- VMware player/Virtualbox

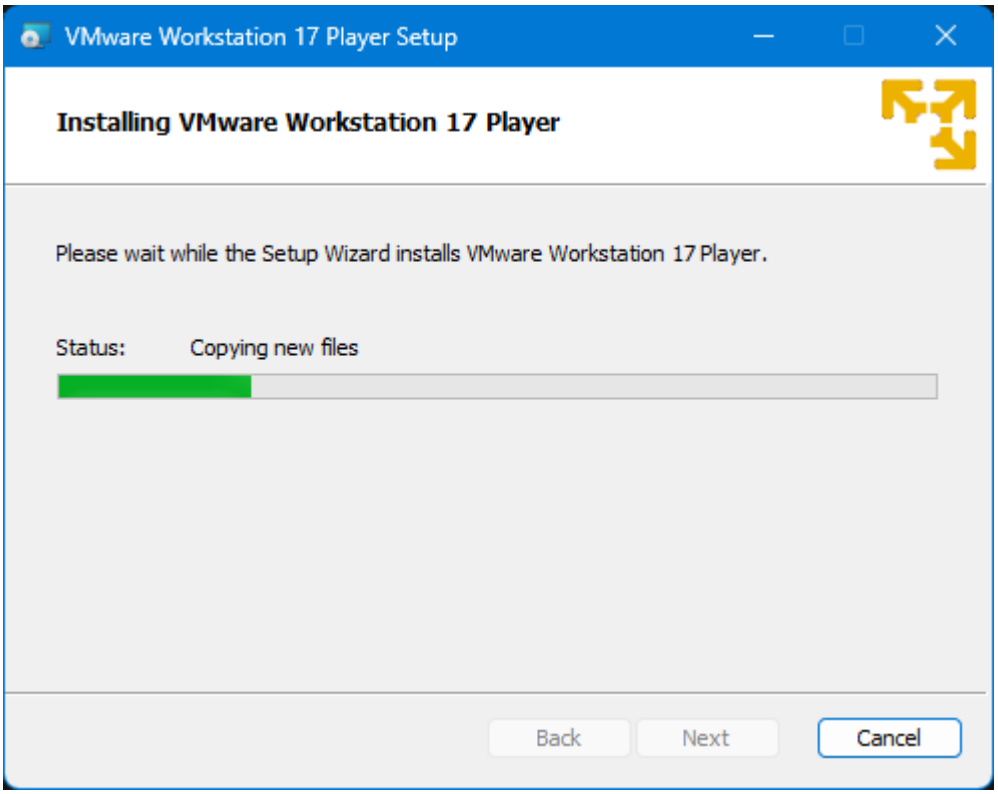
Step 1: Start VMware installation by executing the downloaded exe

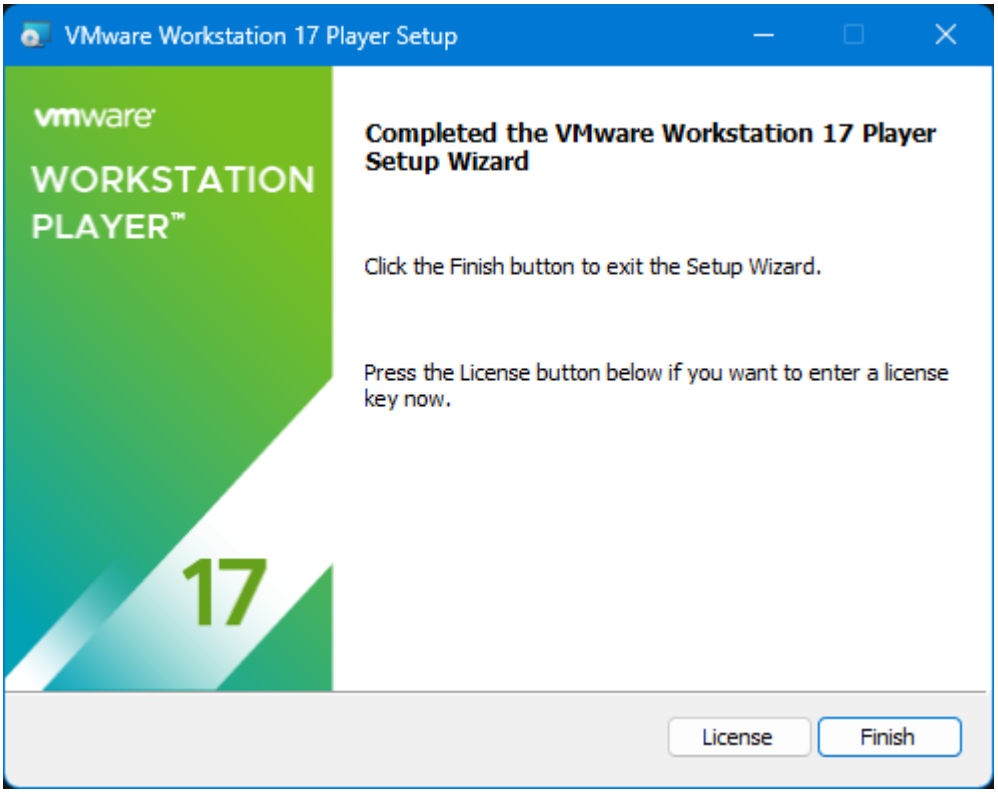



VMware Workstation 17 Player Setup
End-User License Agreement
Please read the following license agreement carefully.
VMWARE END USER LICENSE AGREEMENT
Last updated: 03 May 2021
THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA") GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY APPEAR DURING THE INSTALLATION OF THE SOFTWARE.
I accept the terms in the License Agreement
Print
Back
Next
Cancel

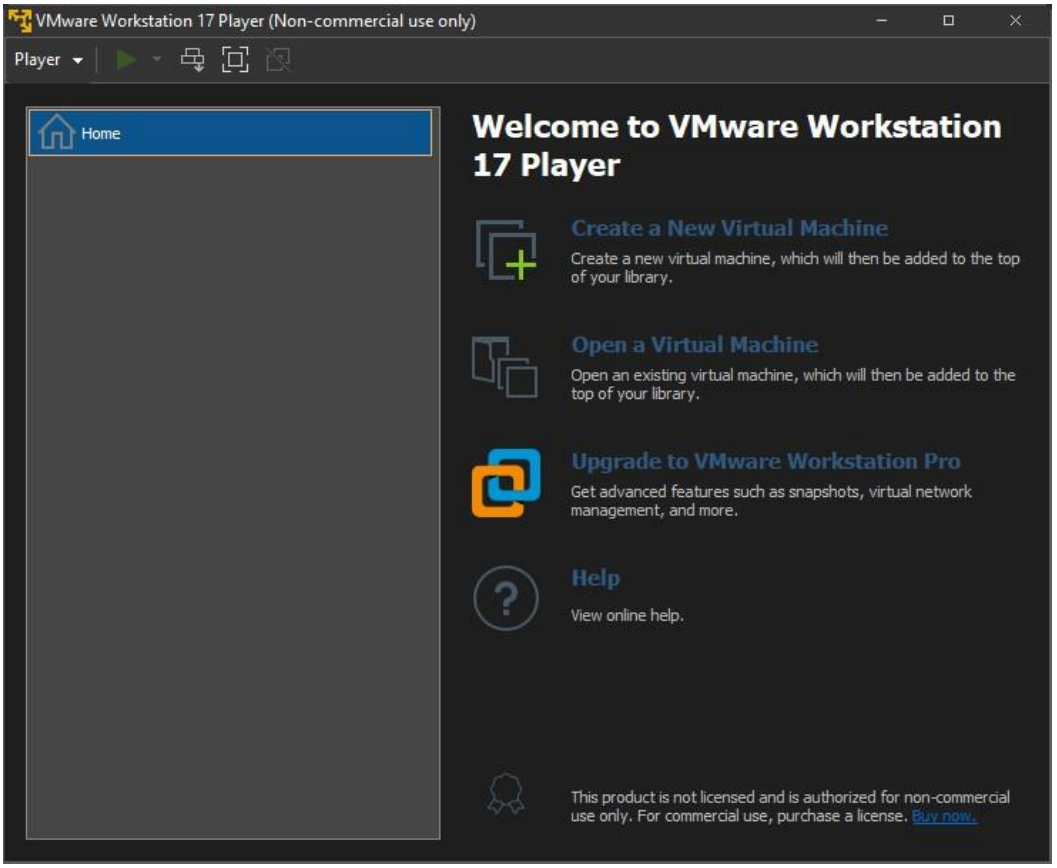

VMware Workstation 17 Player Setup
Custom Setup
Select the installation destination and any additional features.
Install to:
C:\Program Files (x86)\VMware\VMware Player\
Change...
Enhanced Keyboard Driver (a reboot will be required to use this feature)
This feature requires 10MB on your host drive.
Add VMware Workstation console tools into system PATH
Back
Next
Cancel


VMware Workstation 17 Player Setup
Ready to install VMware Workstation 17 Player
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
Back
Install
Cancel

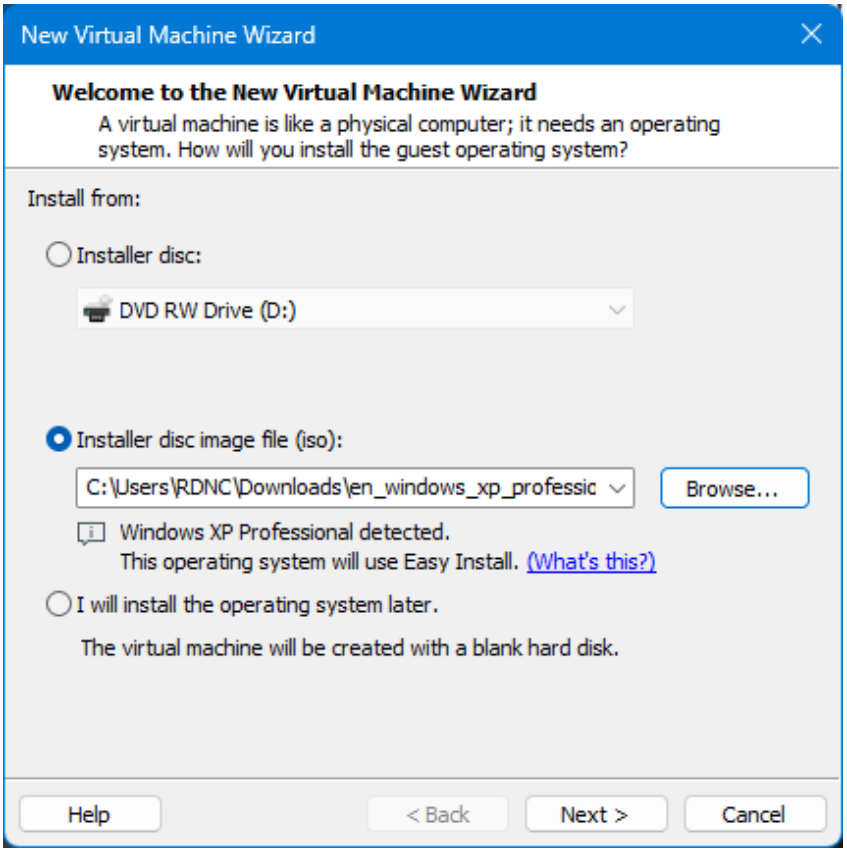

VMware Workstation 17 Player Setup
Installing VMware Workstation 17 Player
Please wait while the Setup Wizard installs VMware Workstation 17 Player.
Status: Copying new files
Back
Next
Cancel



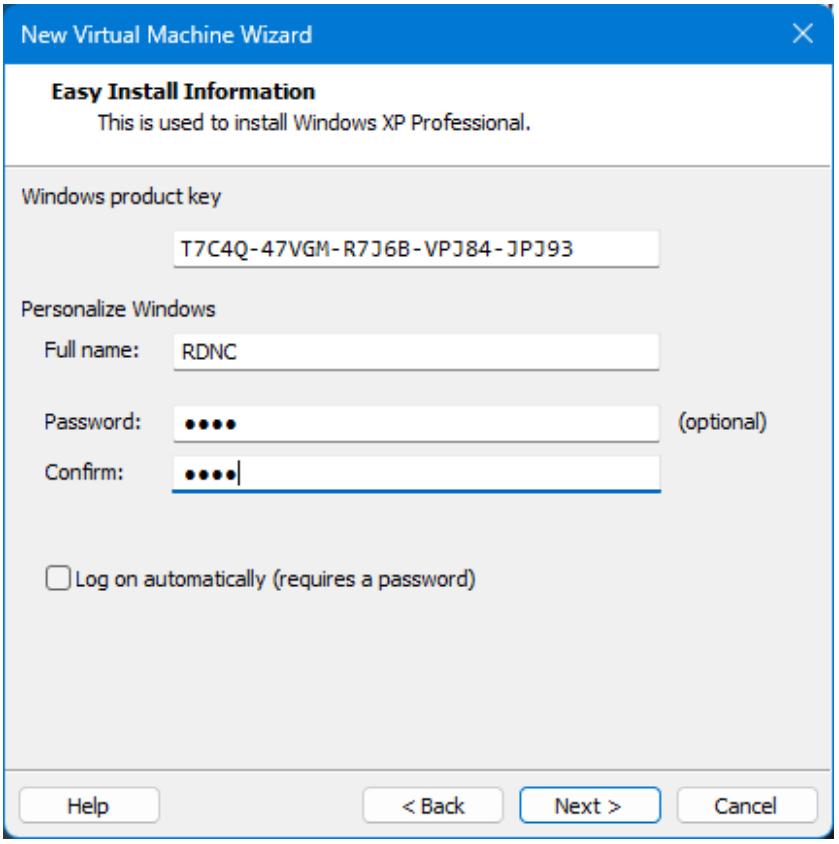
Step 2: After Installing open VMware and select Create a New Virtual Machine Option (Installing Windows XP)



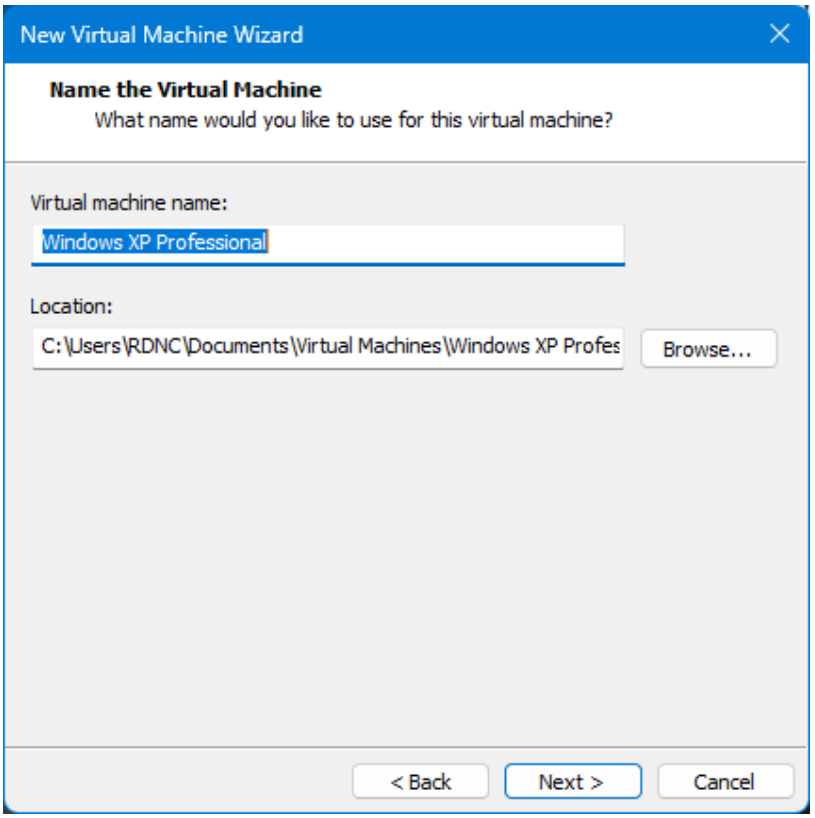
Step 3: Choose the windows xp ISO



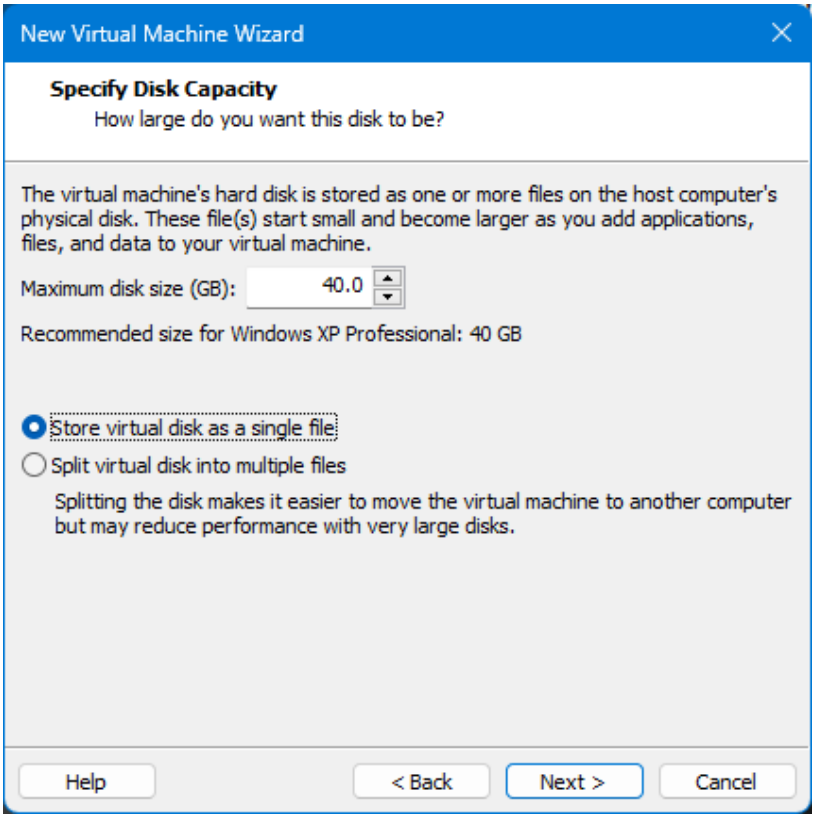
Step 4: Add product key and create a user with password



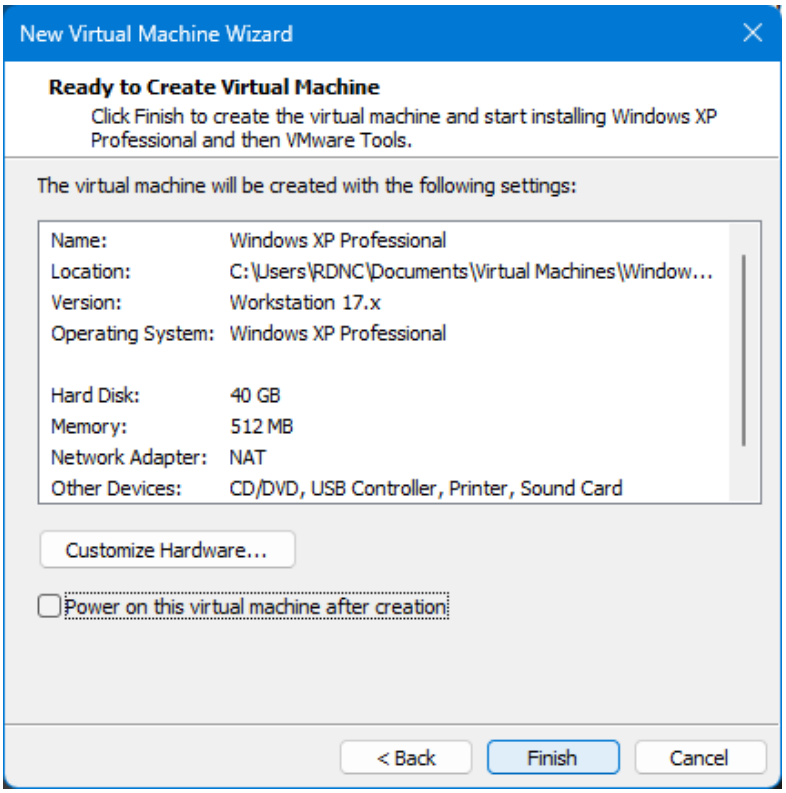
Step 5: Give your virtual machine a name



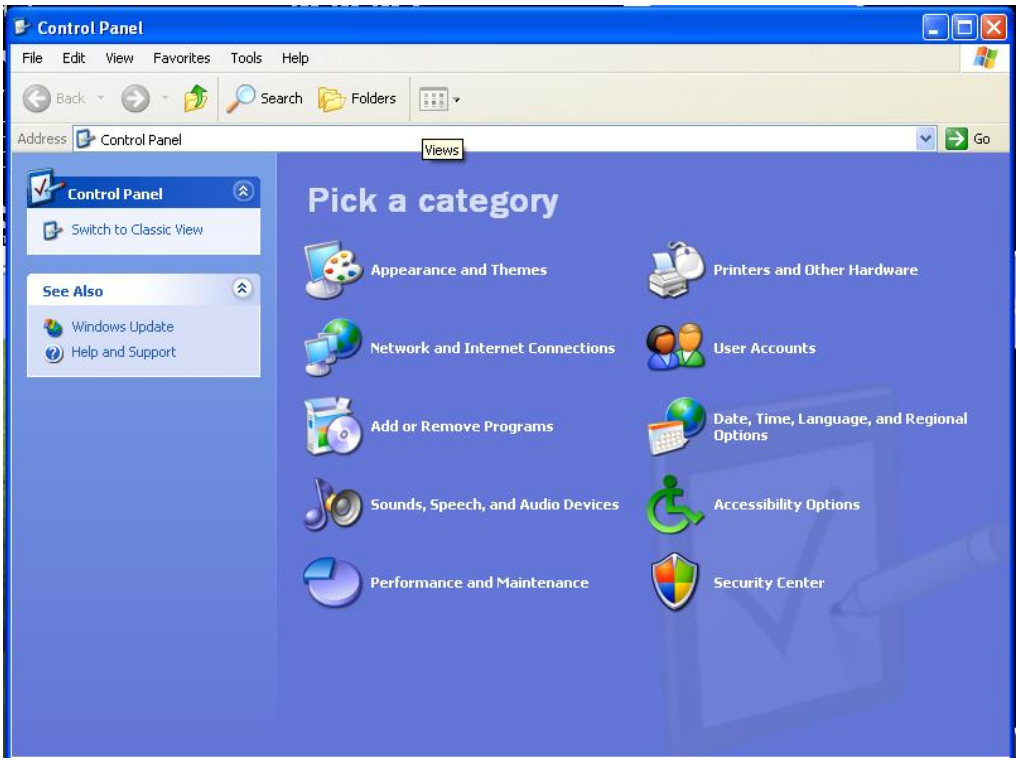
Step 6: Select disk size (can be left to default option)



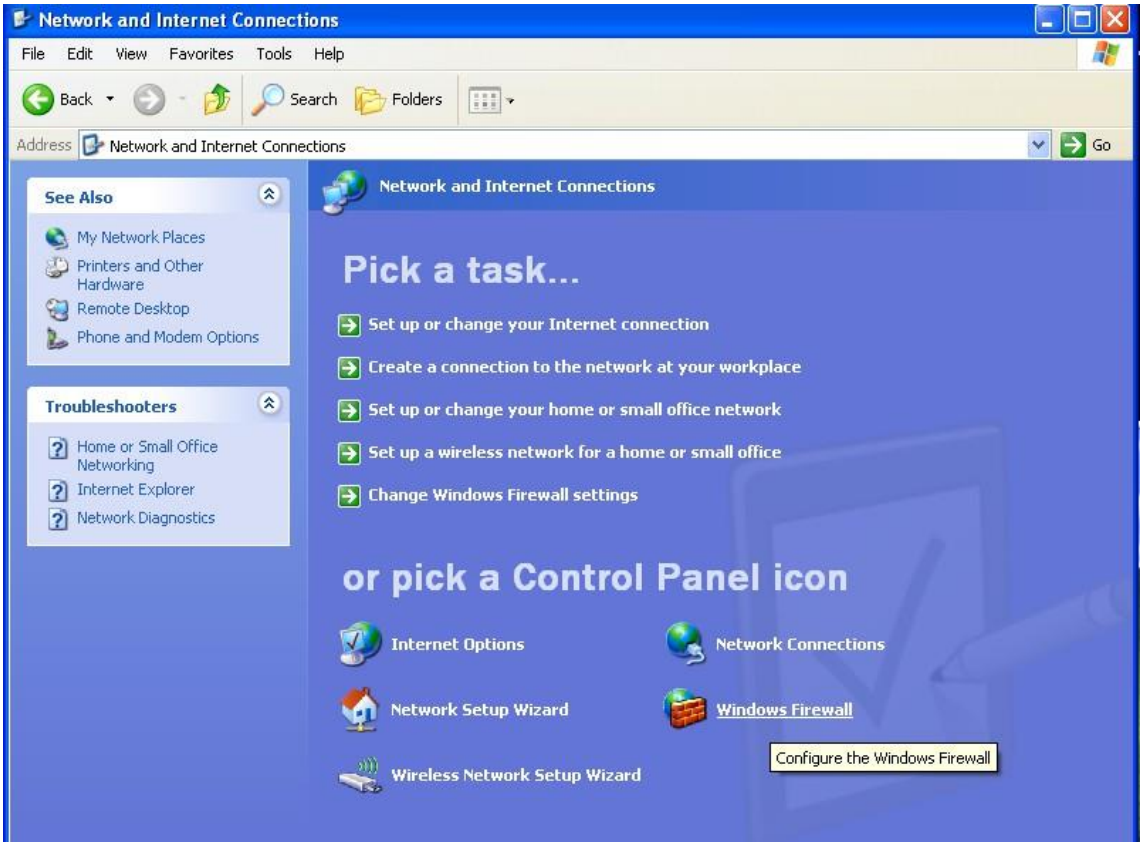
Step 7: Hit finish and wait for the installation to finish

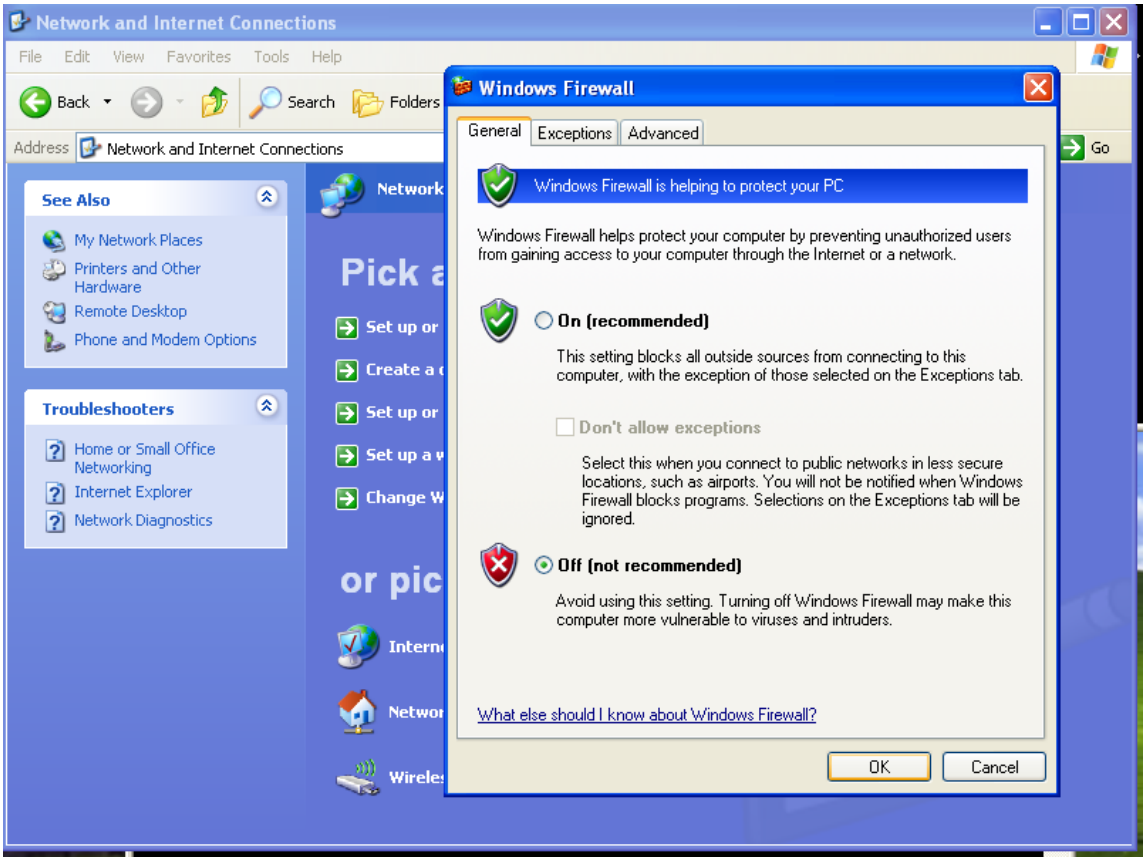


Step 8: We must disable the Windows firewall to test our exploits/attacks for future practicals. From the start menu select Control Panel > Security Center

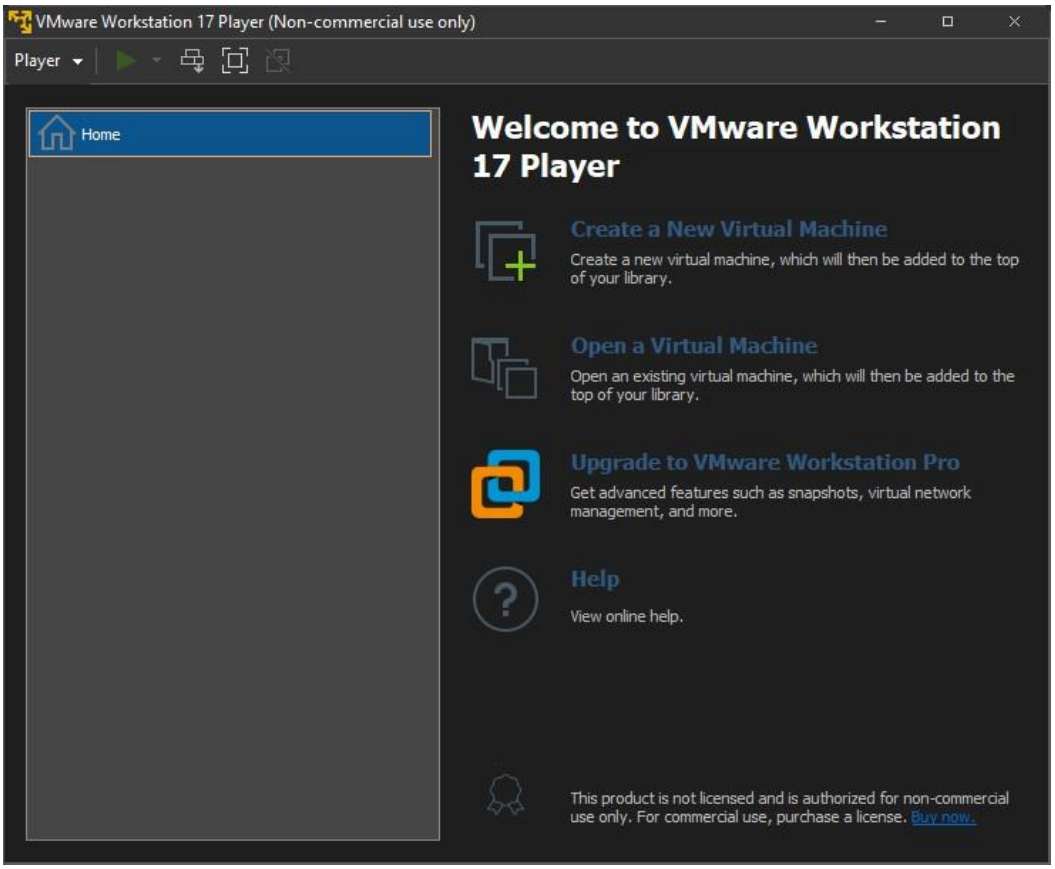


Step 9: Select Windows Firewall and turn off the firewall

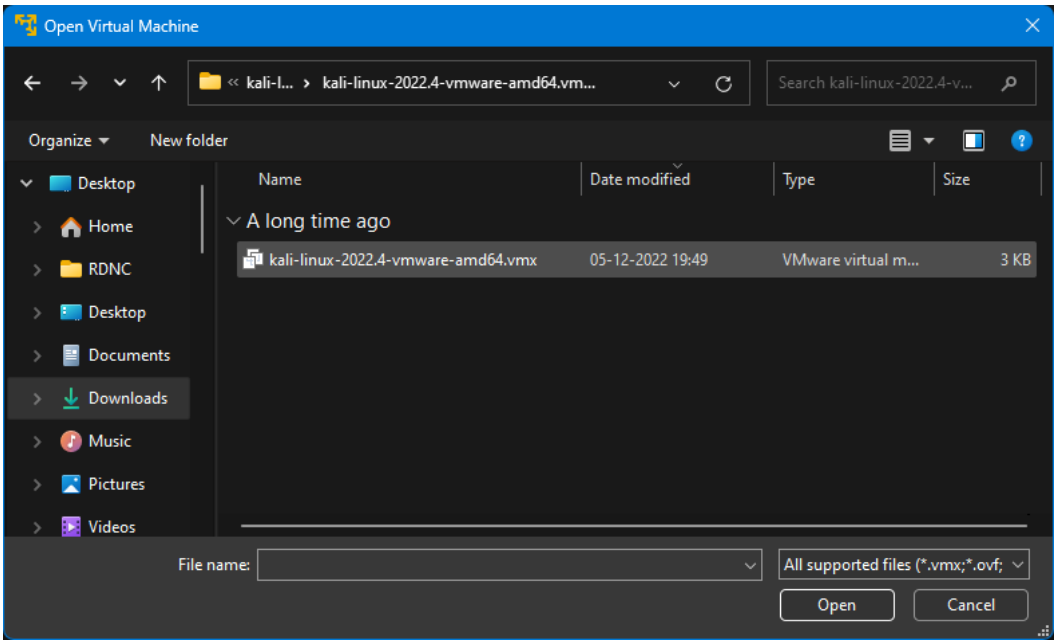




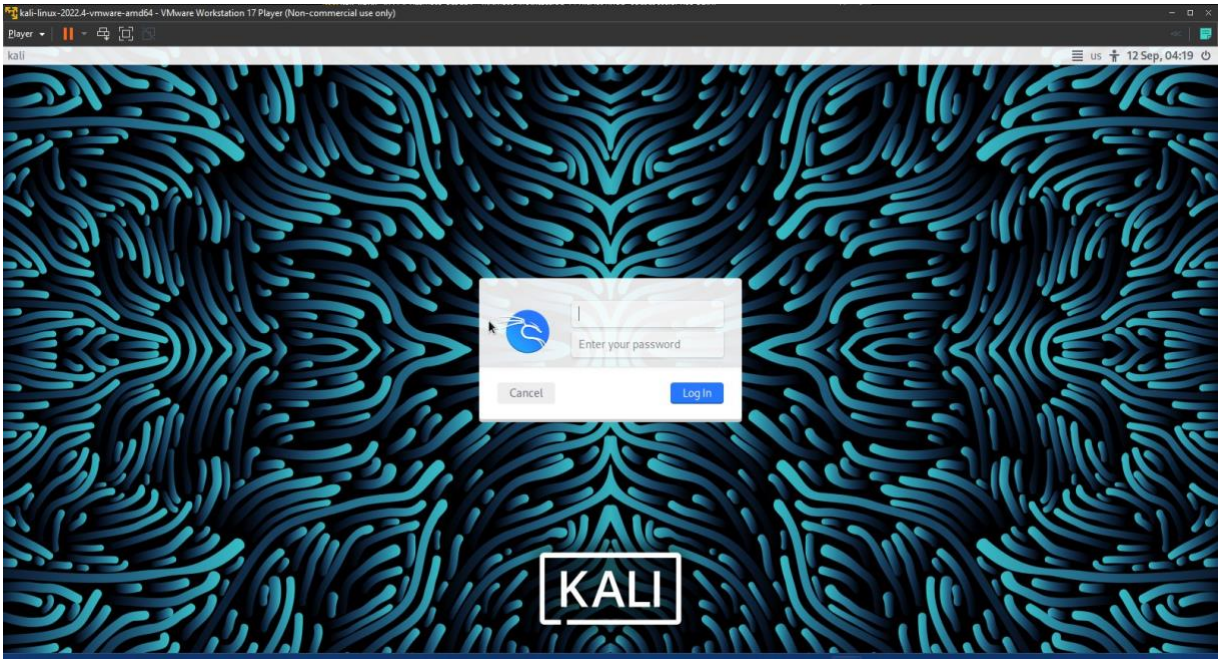
Step 10: Installing Kali Linux; Open VMware and select Open a Virtual Machine Option

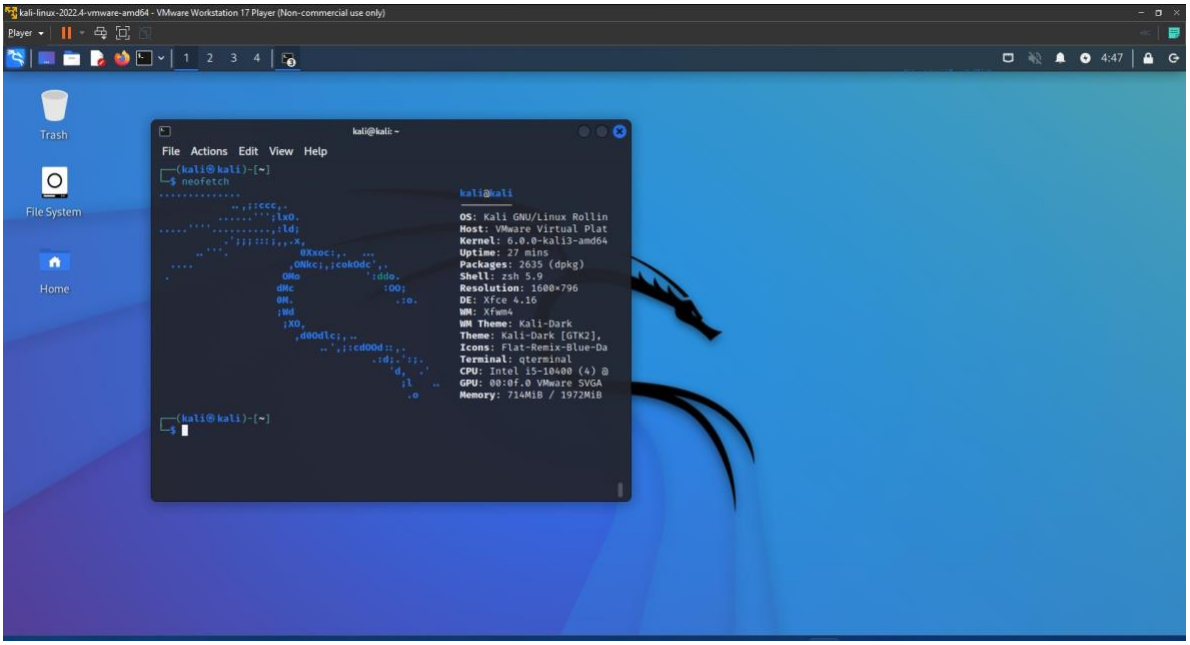


Step 11: Select The virtual machine file and run it

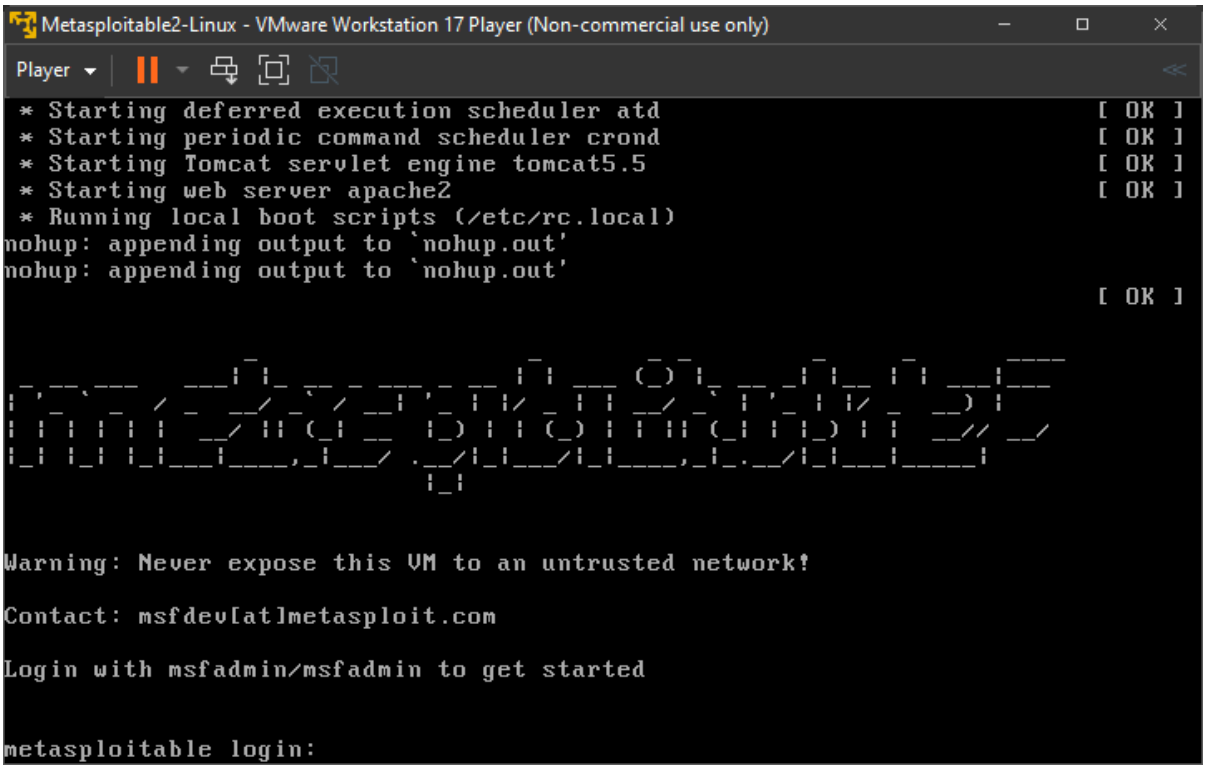


Step 12: Login to your machine (user & pass is “Kali” without quotes)

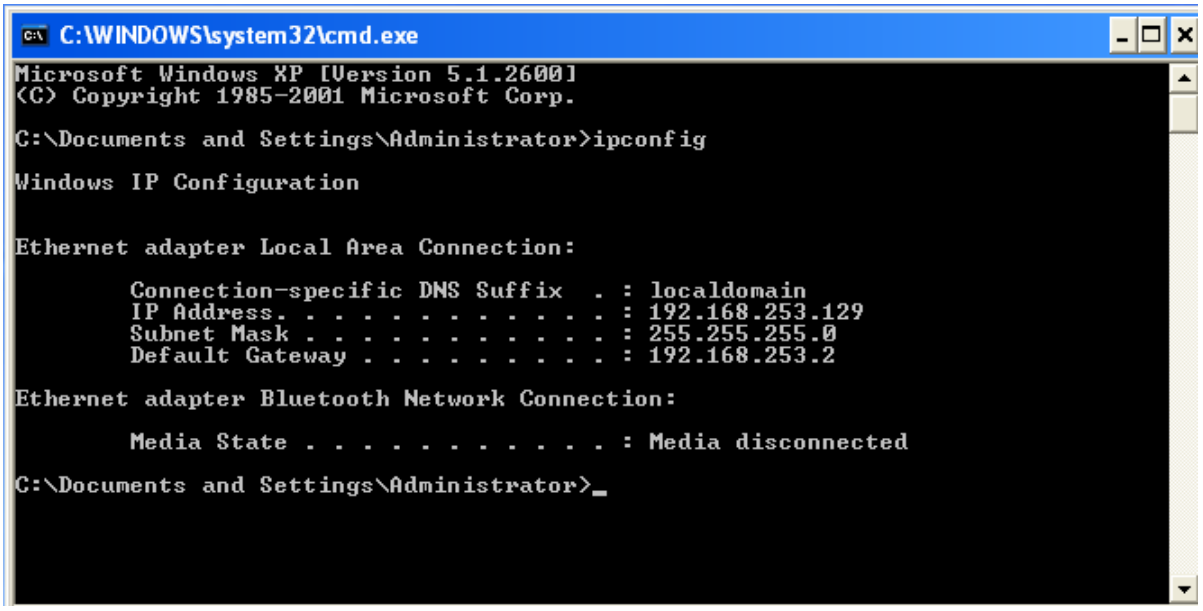


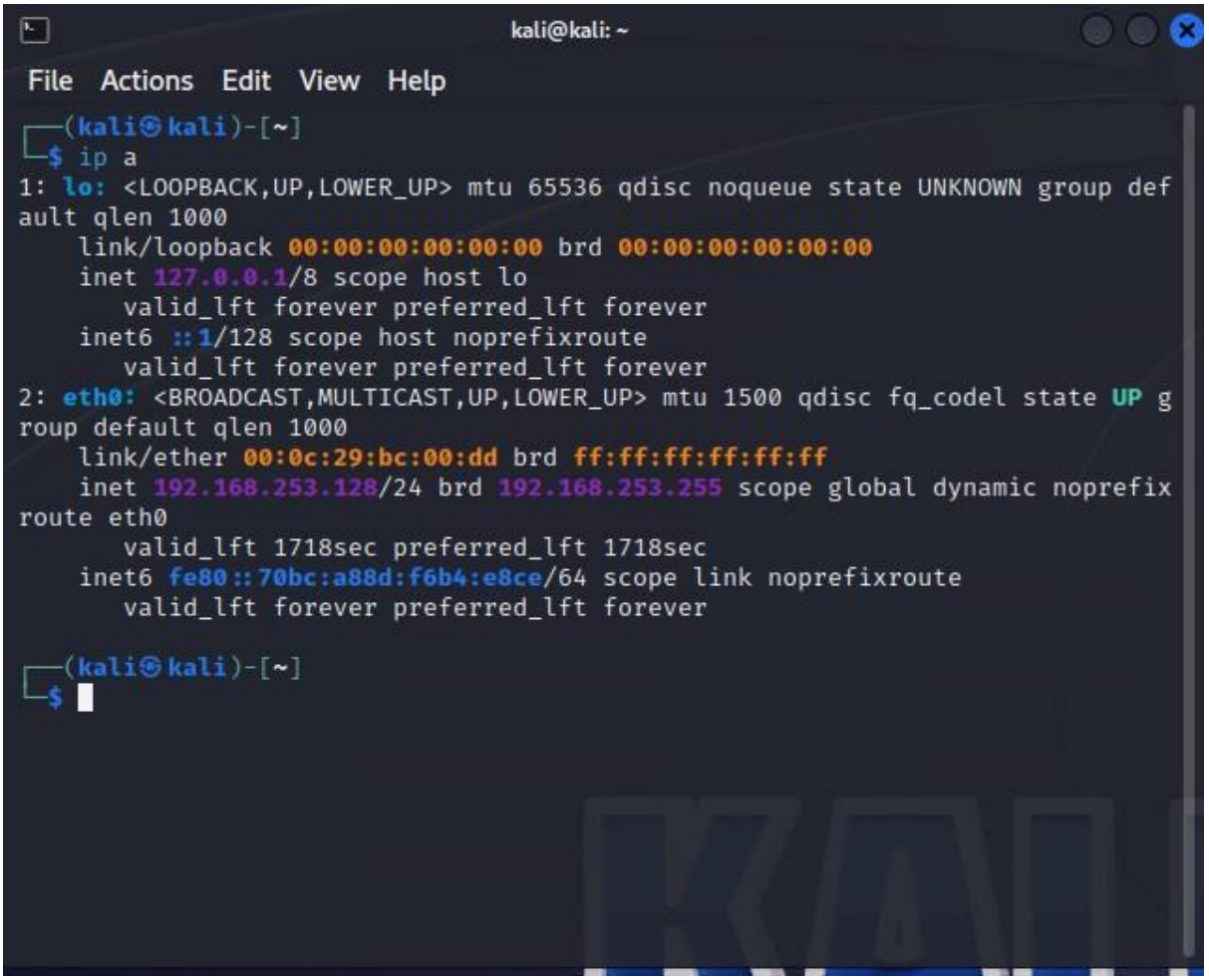


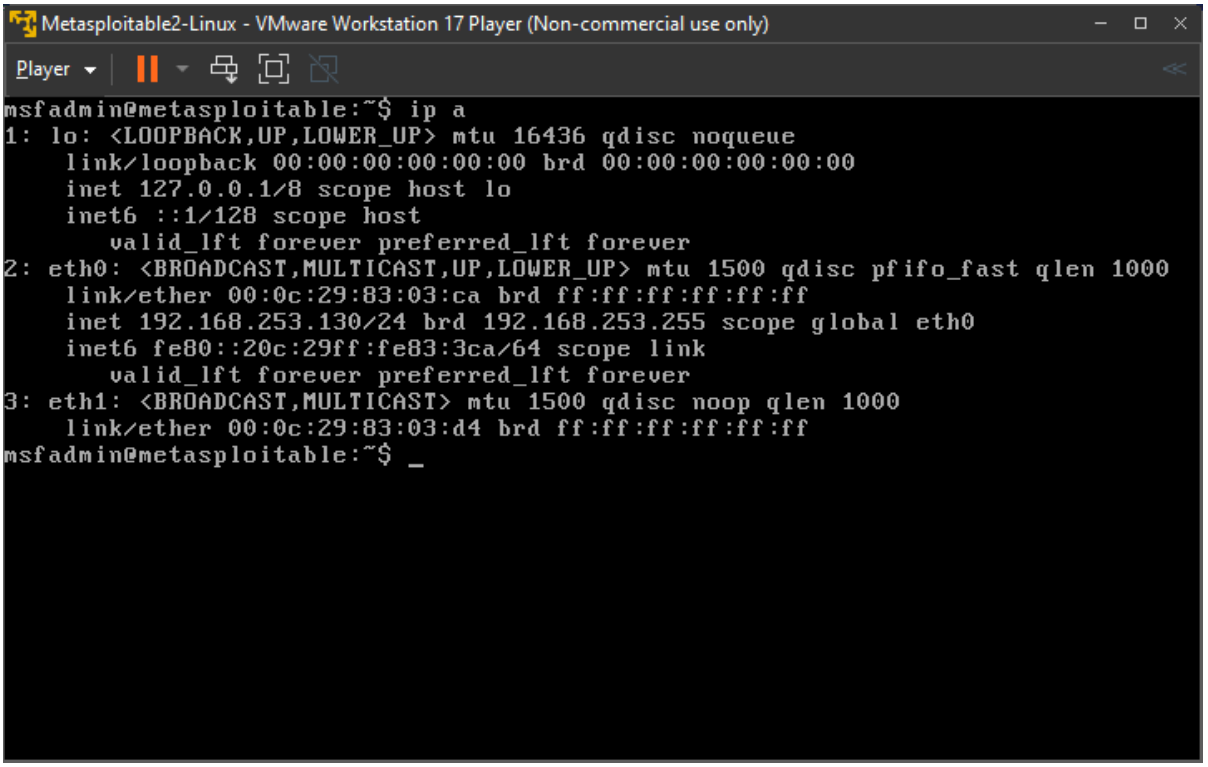
Step 13: Open VM and select Open a Virtual Machine & select the metasploitable file for VMware and run it (user & pass is “msfadmin”)



Step 14: Once all the systems are up get the current IP of all the system
For Kali Linux & Metaspoitable use ip a
For Windows XP use ipconfig







In My case the ip of kali = 192.168.253.128, metasploitable = 192.168.253.130, windows xp = 192.168.253.129

Step 15: Pinging Metasplotable from Kali & Windows

From Windows

```
C:\Documents and Settings\Administrator>ping 192.168.253.130

Pinging 192.168.253.130 with 32 bytes of data:

Reply from 192.168.253.130: bytes=32 time<1ms TTL=64
Reply from 192.168.253.130: bytes=32 time<1ms TTL=64
Reply from 192.168.253.130: bytes=32 time<1ms TTL=64
Reply from 192.168.253.130: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.253.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Documents and Settings\Administrator>_
```

From Kali

```
┌──(kali㉿kali)-[~]
└─$ ping 192.168.253.130 -c 3
PING 192.168.253.130 (192.168.253.130) 56(84) bytes of data.
64 bytes from 192.168.253.130: icmp_seq=1 ttl=64 time=0.439 ms
64 bytes from 192.168.253.130: icmp_seq=2 ttl=64 time=0.594 ms
64 bytes from 192.168.253.130: icmp_seq=3 ttl=64 time=0.481 ms

── 192.168.253.130 ping statistics ──
3 packets transmitted, 3 received, 0% packet loss, time 2053ms
rtt min/avg/max/mdev = 0.439/0.504/0.594/0.065 ms
```

Step 16: Pinging Windows from metasplotable & Kali
From Metasplotable

```
msfadmin@metasploitable:~$ ping 192.168.253.129 -c 3
PING 192.168.253.129 (192.168.253.129) 56(84) bytes of data.
64 bytes from 192.168.253.129: icmp_seq=1 ttl=128 time=10.0 ms
64 bytes from 192.168.253.129: icmp_seq=2 ttl=128 time=0.357 ms
64 bytes from 192.168.253.129: icmp_seq=3 ttl=128 time=0.239 ms

--- 192.168.253.129 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 1998ms
rtt min/avg/max/mdev = 0.239/3.553/10.064/4.604 ms
msfadmin@metasploitable:~$ _
```

From Kali

```
┌──(kali㉿kali)-[~]
└─$ ping 192.168.253.129 -c 3
PING 192.168.253.129 (192.168.253.129) 56(84) bytes of data.
64 bytes from 192.168.253.129: icmp_seq=1 ttl=128 time=0.362 ms
64 bytes from 192.168.253.129: icmp_seq=2 ttl=128 time=0.498 ms
64 bytes from 192.168.253.129: icmp_seq=3 ttl=128 time=0.501 ms

── 192.168.253.129 ping statistics ──
3 packets transmitted, 3 received, 0% packet loss, time 2030ms
rtt min/avg/max/mdev = 0.362/0.453/0.501/0.064 ms
```

Step 17: Pining Kali from windows & metasplotable
From Metaplotable

```
msfadmin@metasploitable:~$ ping 192.168.253.128 -c 3
PING 192.168.253.128 (192.168.253.128) 56(84) bytes of data.
64 bytes from 192.168.253.128: icmp_seq=1 ttl=64 time=6.39 ms
64 bytes from 192.168.253.128: icmp_seq=2 ttl=64 time=0.575 ms
64 bytes from 192.168.253.128: icmp_seq=3 ttl=64 time=0.500 ms

--- 192.168.253.128 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2005ms
rtt min/avg/max/mdev = 0.500/2.489/6.392/2.760 ms
msfadmin@metasploitable:~$
```

From Windows

```
C:\Documents and Settings\Administrator>ping 192.168.253.128

Pinging 192.168.253.128 with 32 bytes of data:

Reply from 192.168.253.128: bytes=32 time<1ms TTL=64
Reply from 192.168.253.128: bytes=32 time<1ms TTL=64
Reply from 192.168.253.128: bytes=32 time<1ms TTL=64
Reply from 192.168.253.128: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.253.128:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```