

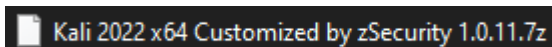
# Wireless Penetration Testing Installation and Configuration

Network adapter: TP-LINK TL-WN722N

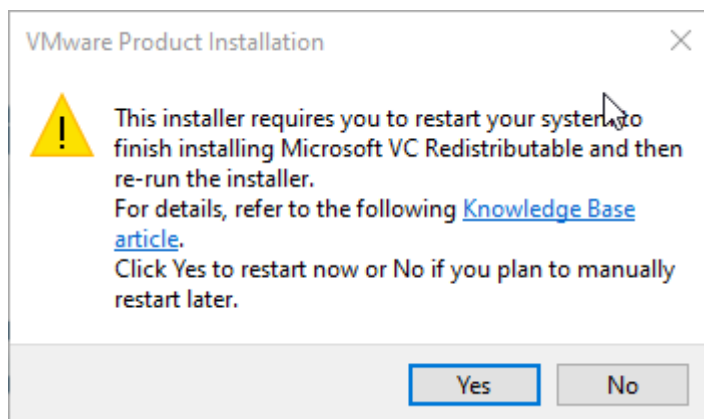
Emag download link: <https://www.emag.ro/adaptor-wireless-tp-link-usb-2-0-tl-wn722n/pd/E8RV7BBBM/>

I have chosen this wireless adapter because of monitor mode and packet injection capabilities that will help us in further testing the security of wireless networks.

Kali virtual machine download link: <https://zsecurity.org/download-custom-kali/>

 Kali 2022 x64 Customized by zSecurity 1.0.11.7z

Vmware workstation player download link:  
<https://customerconnect.vmware.com/en/downloads/details?downloadGroup=WKST-PLAYER-1701&productId=1377&rPId=100675>

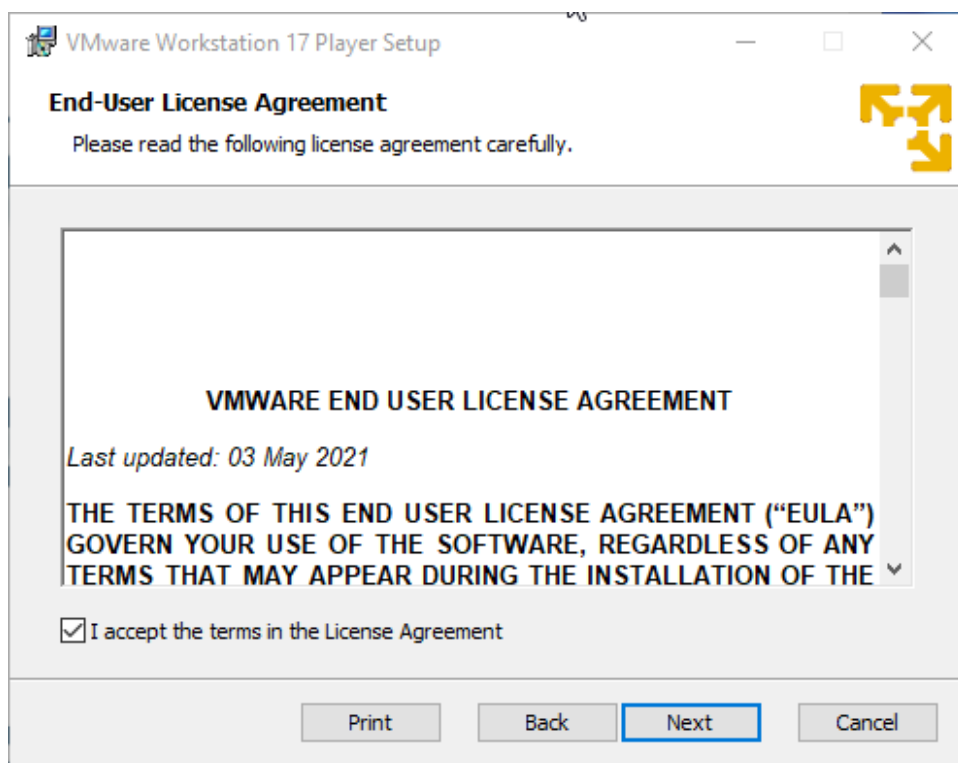


Restart computer.

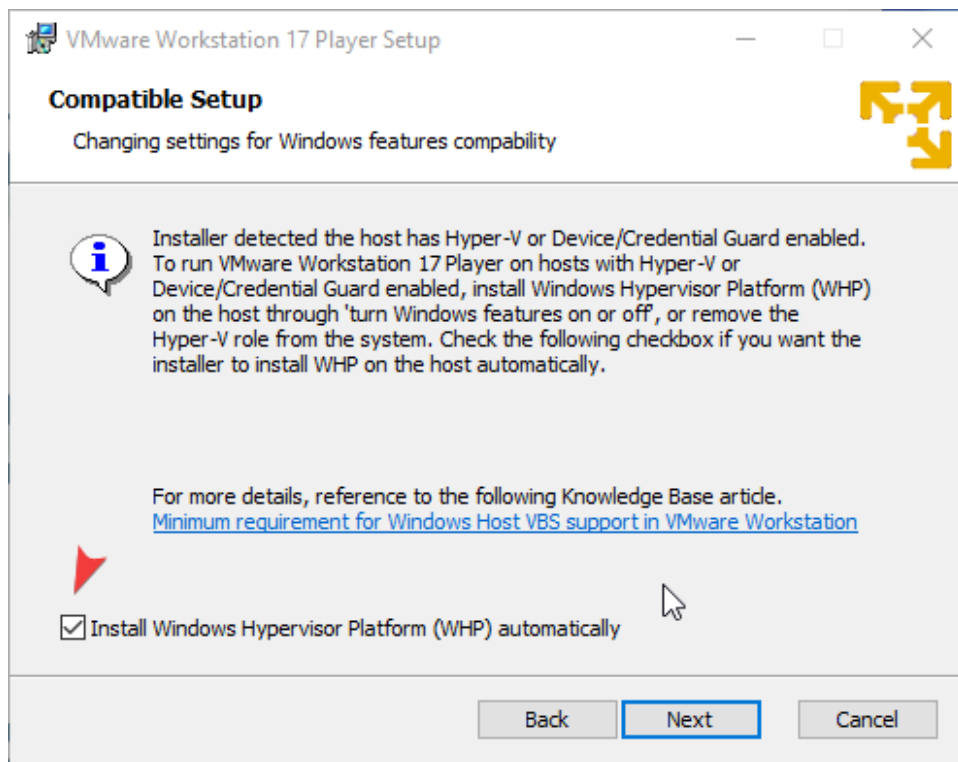
Re-run installer.



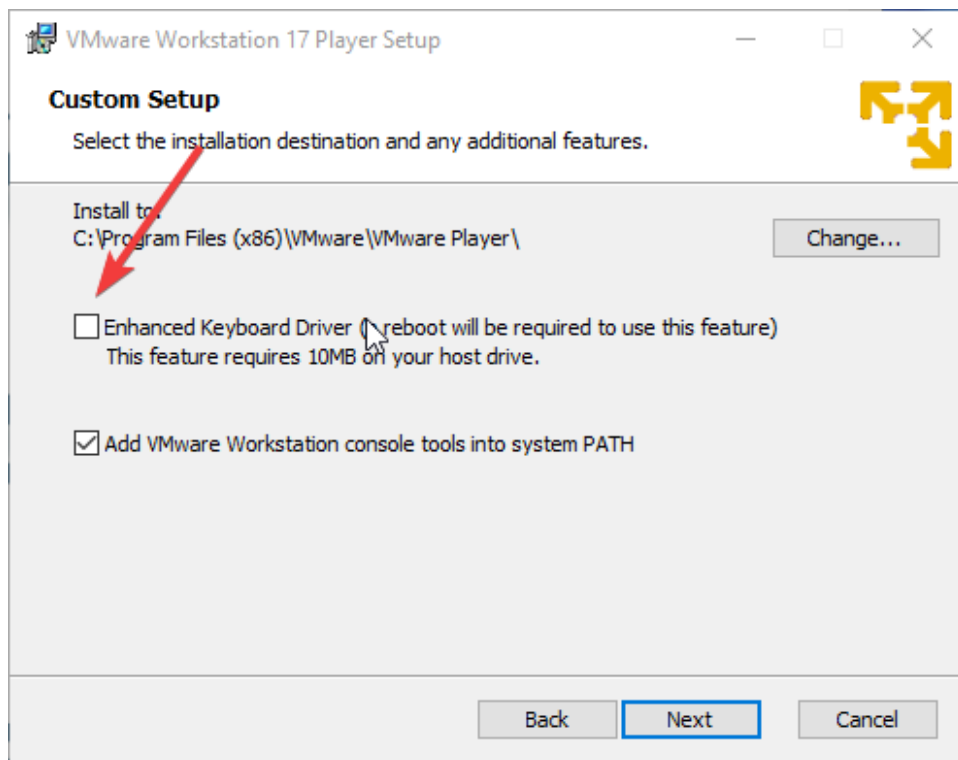
Accept terms.



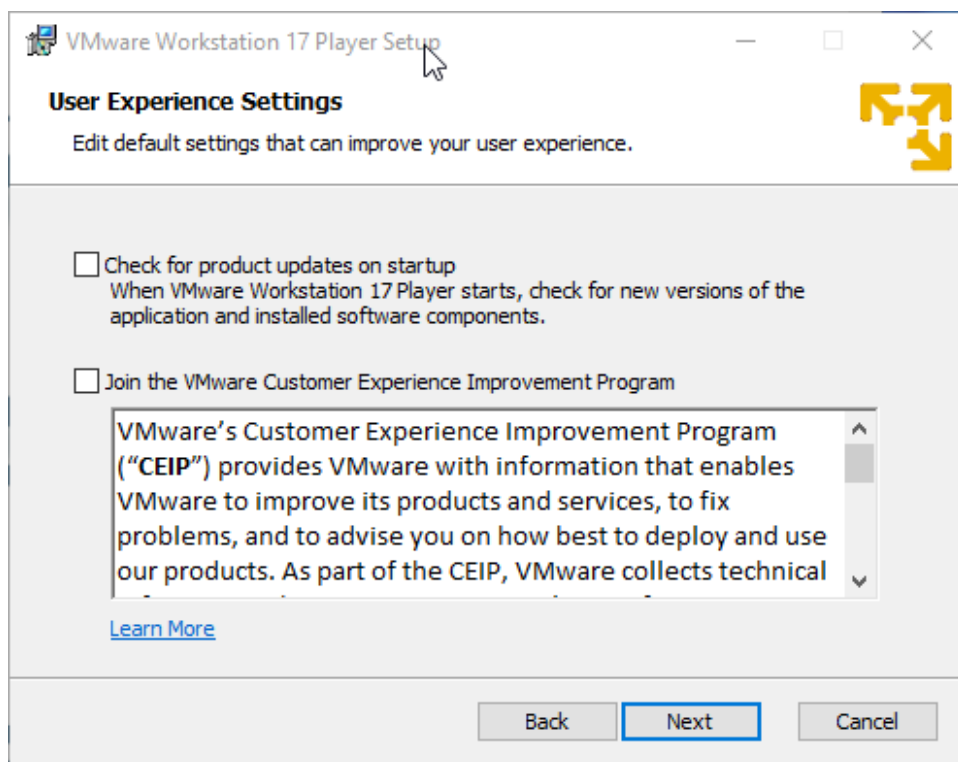
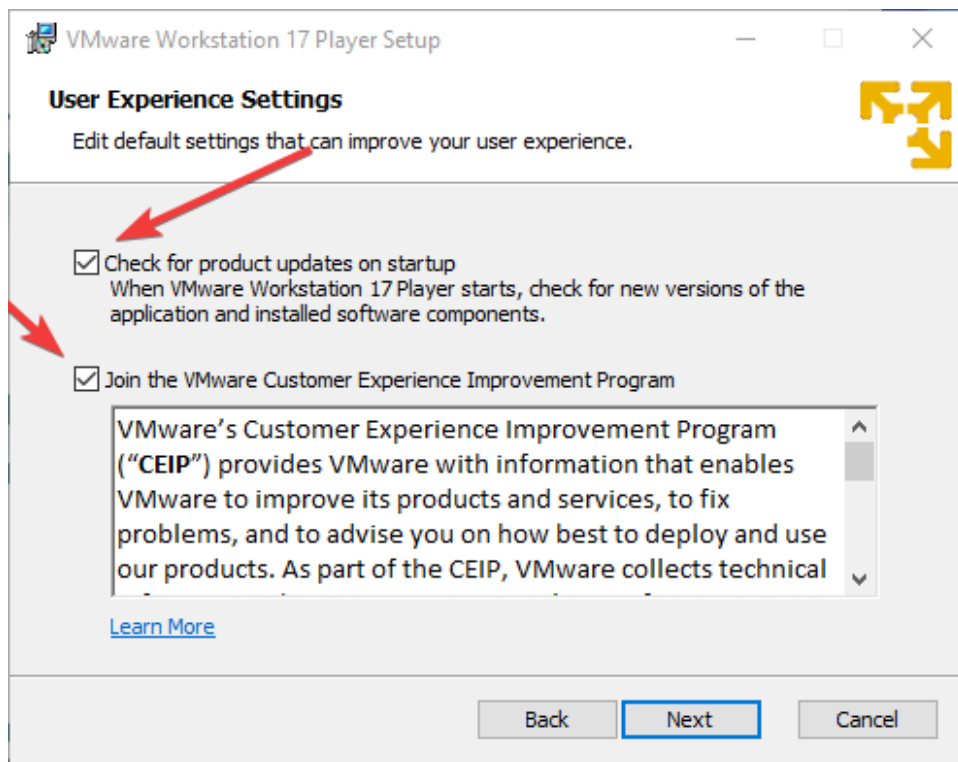
Install WHP.

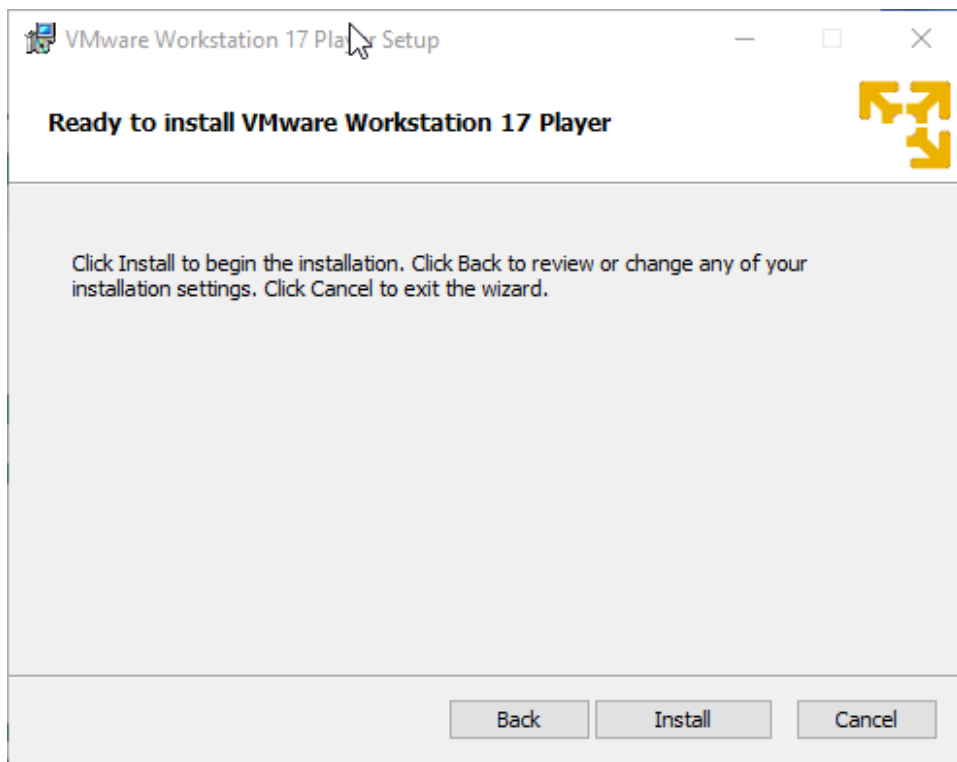
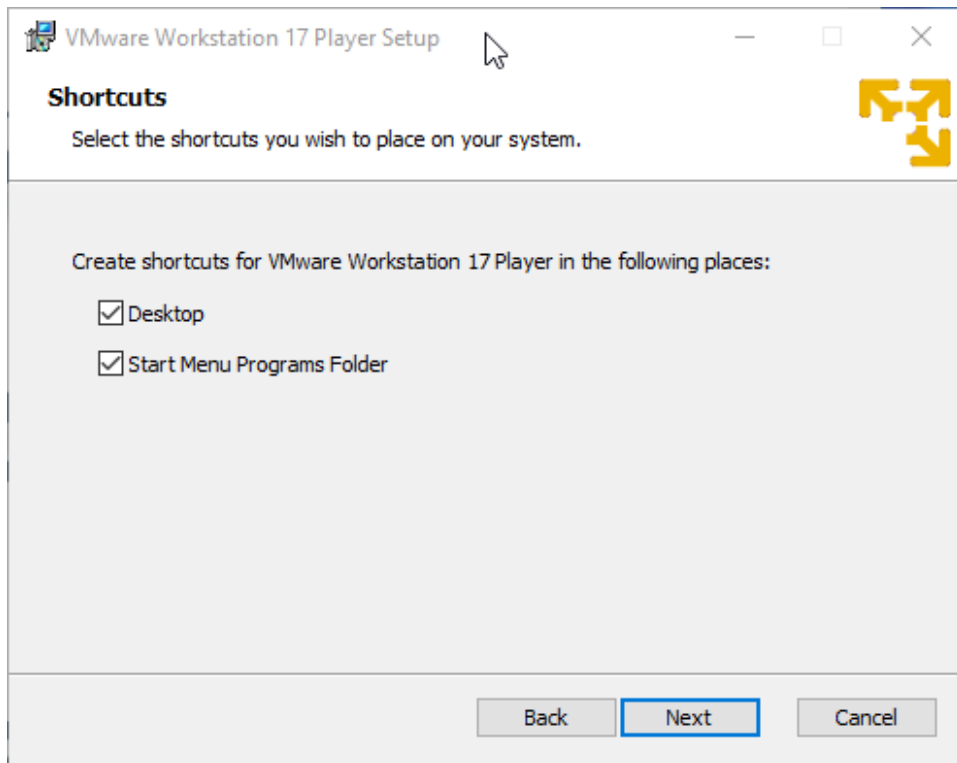


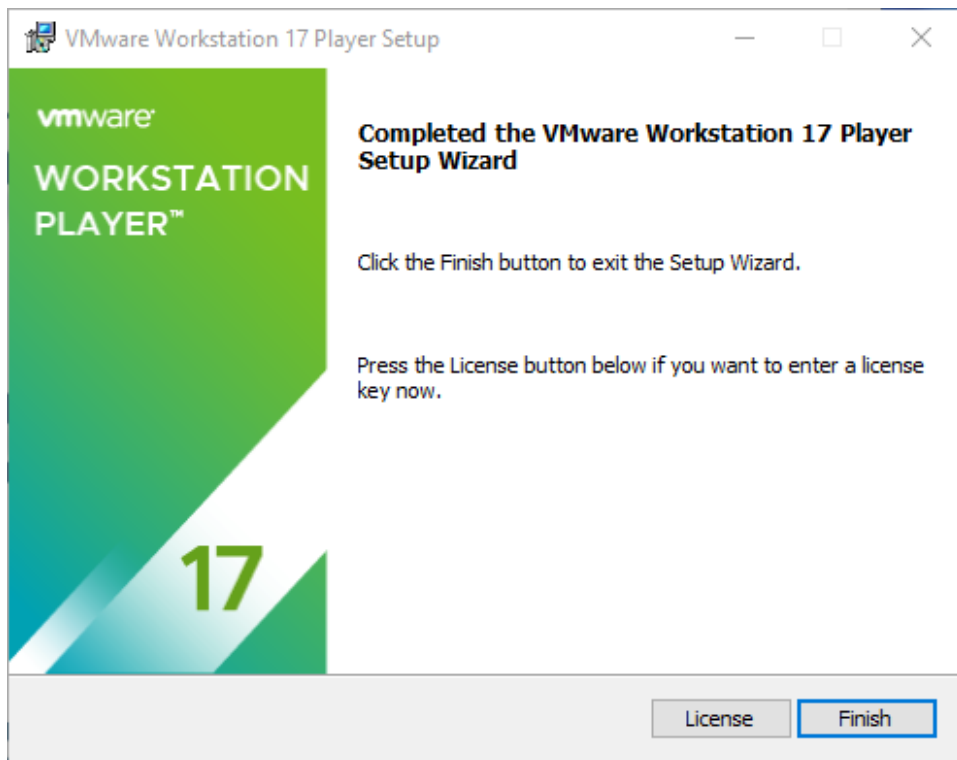
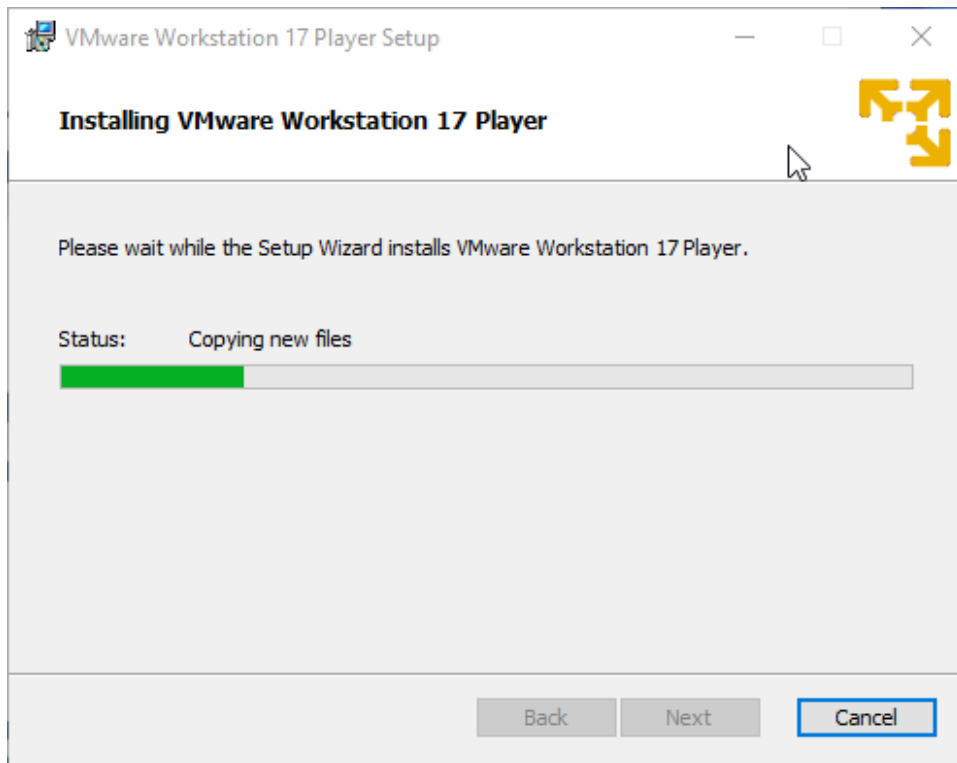
Enable Enhanced Keyboard Driver.



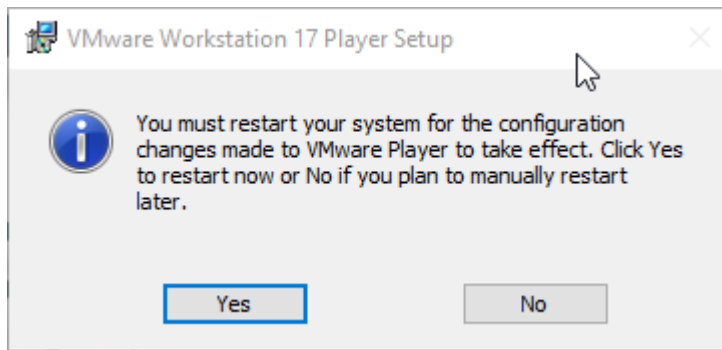
Disable both.



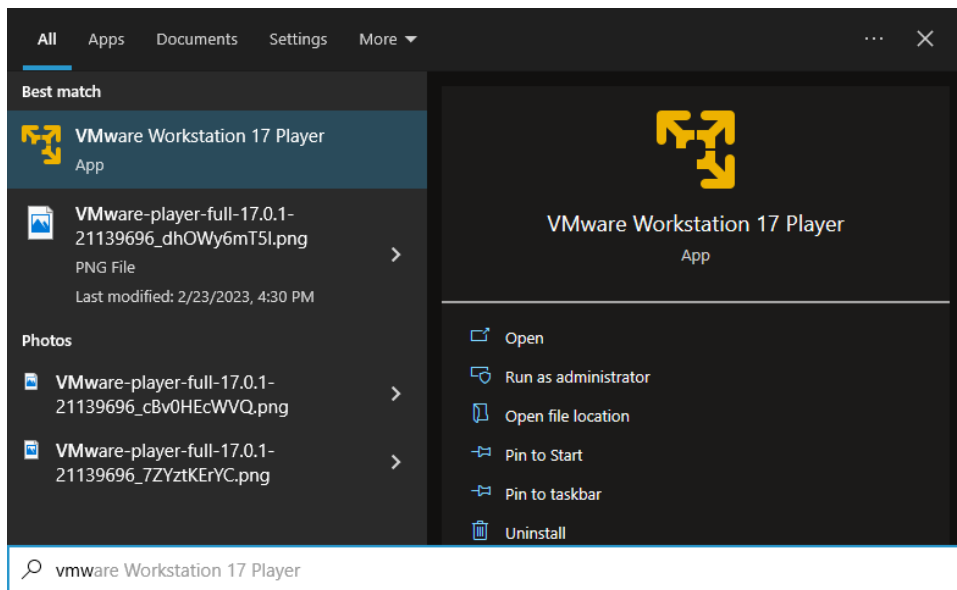




Restart.

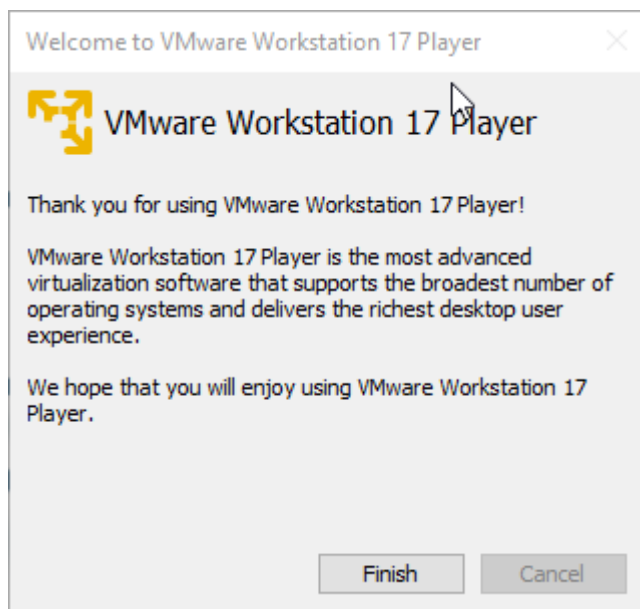
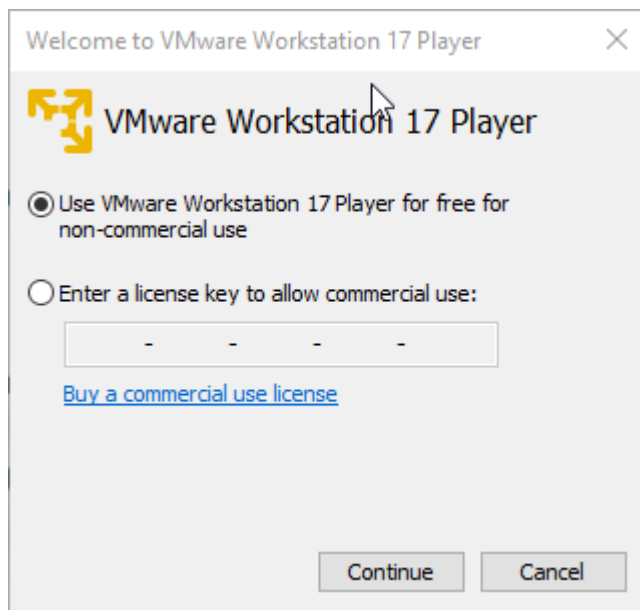


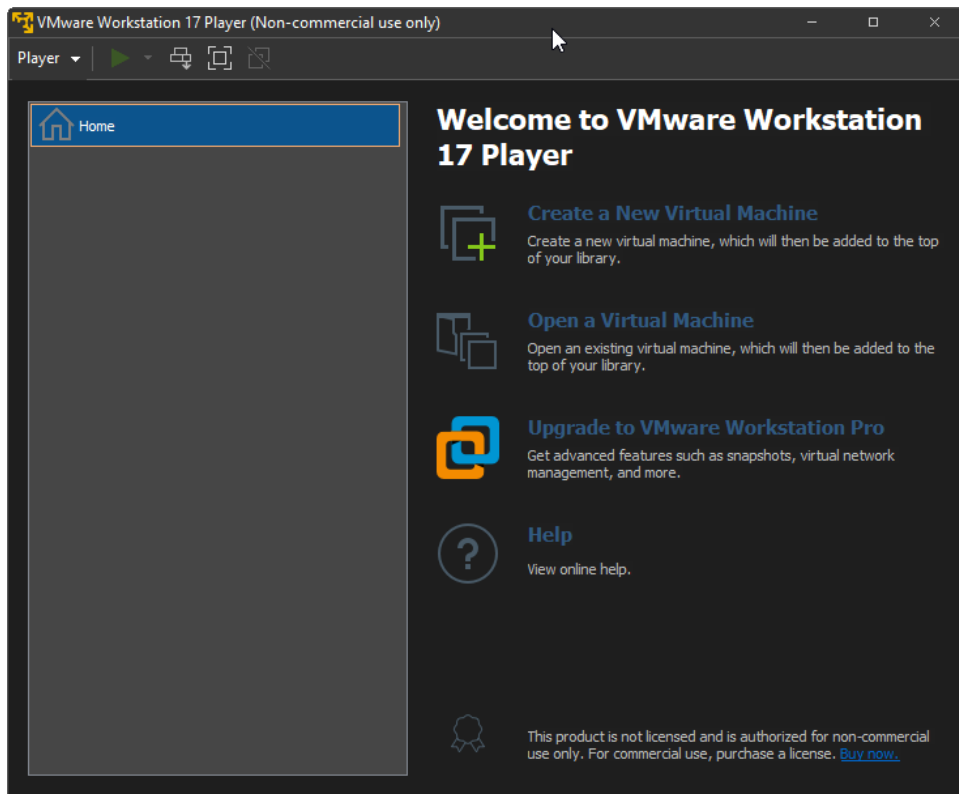
Search for VMware Workstation.



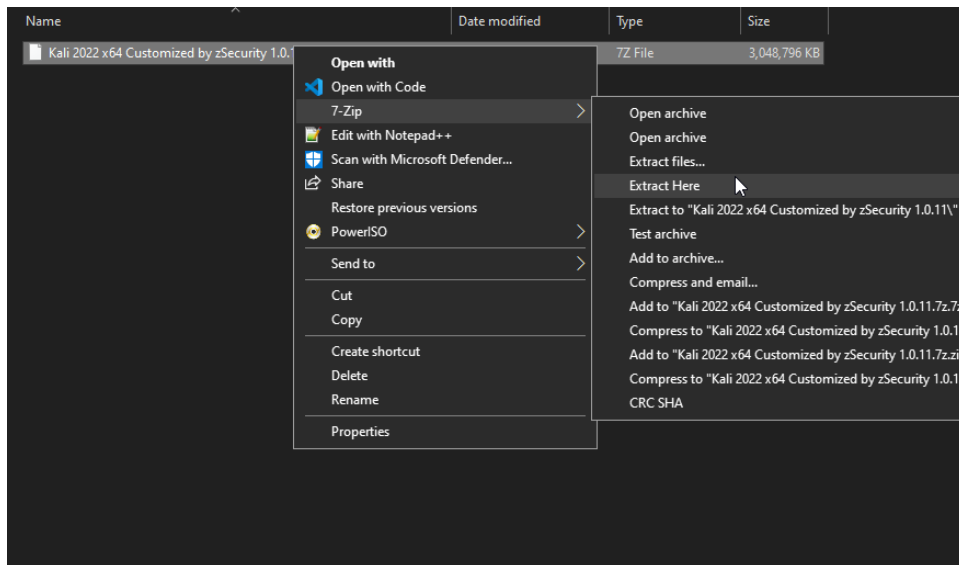
Non-commercial use.







Unarchive.

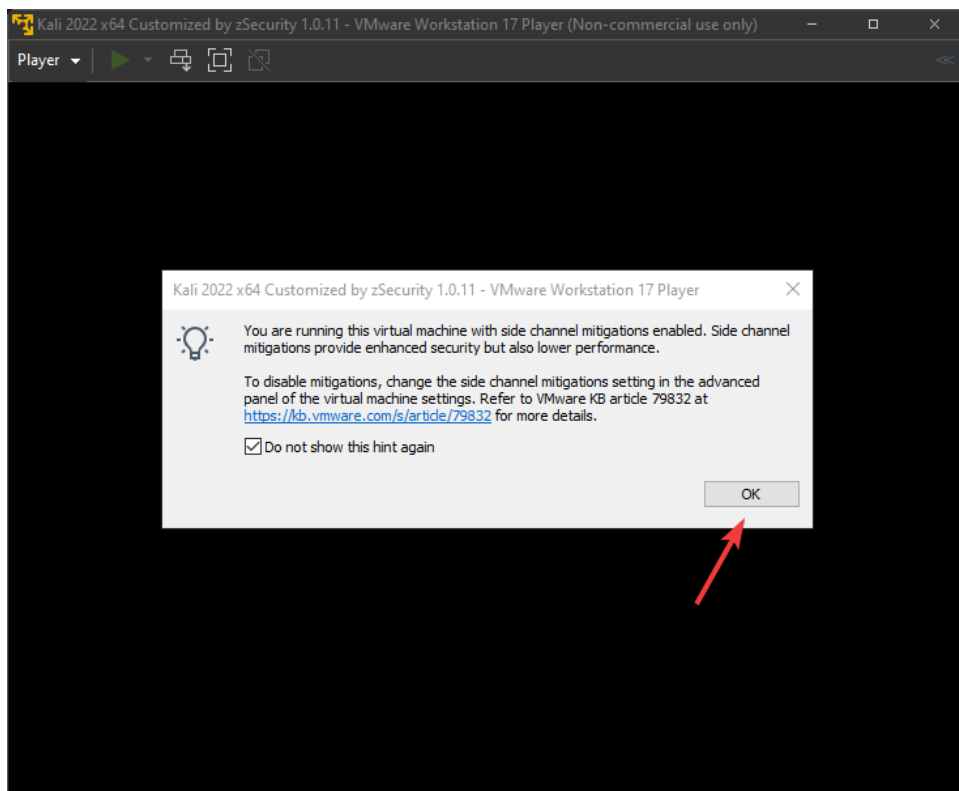
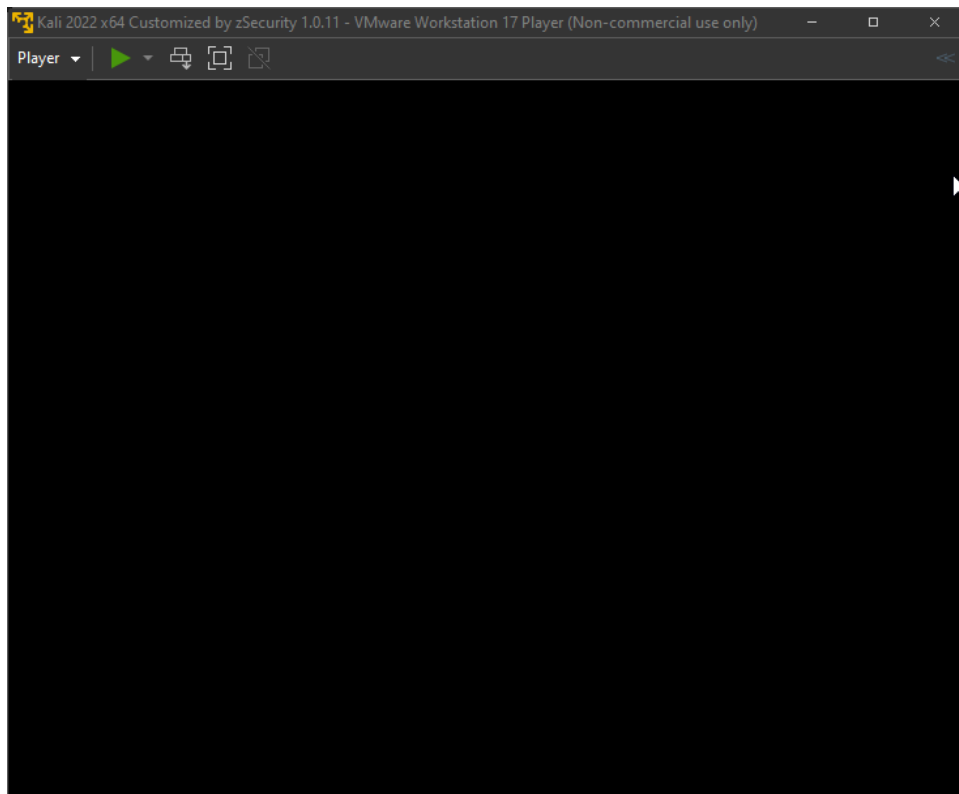


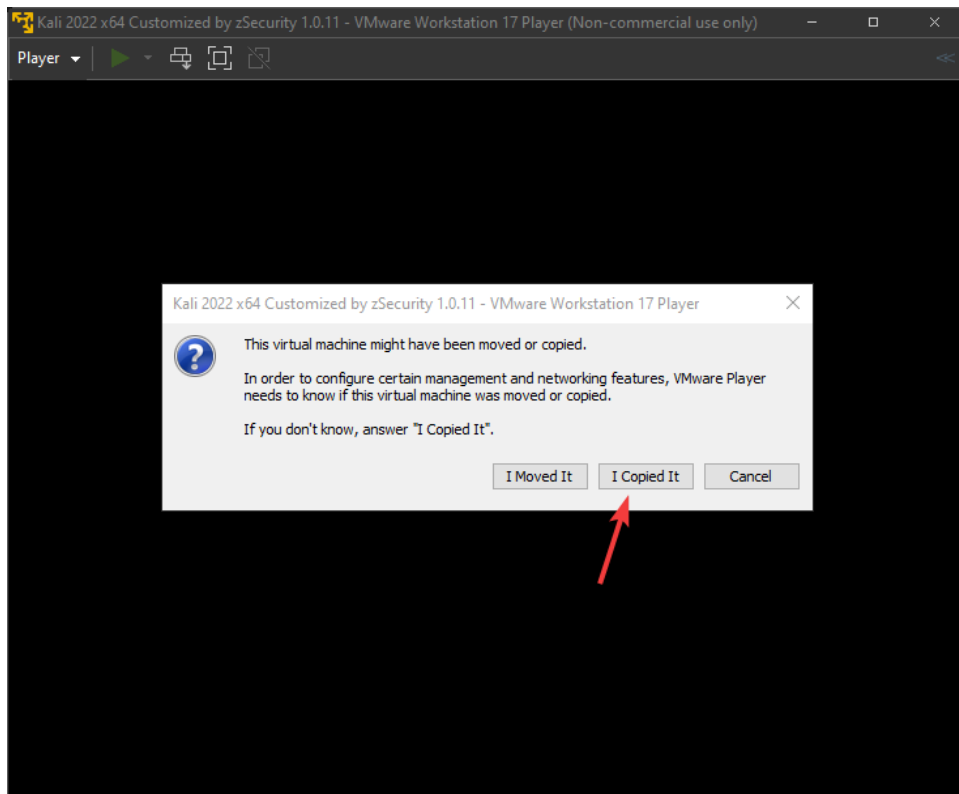
Kali 2022 x64 Customized by zSecurity 1.0.11.vmwarevm	9/28/2022 2:19 AM	File folder	
Kali 2022 x64 Customized by zSecurity 1.0.11.7z	11/2/2022 3:35 PM	7Z File	3,048,796 KB

Name	Date modified	Type	Size
Disco virtual.vmdk	9/28/2022 2:09 AM	VMware virtual dis...	22,852,160 ...
Kali 2022 x64 Customized by zSecurity 1.0...	9/22/2022 4:53 AM	NVRAM File	9 KB
Kali 2022 x64 Customized by zSecurity 1.0...	9/28/2022 2:09 AM	Properties file Sou...	1 KB
Kali 2022 x64 Customized by zSecurity 1.0...	9/22/2022 4:12 AM	VMMSD File	0 KB
Kali 2022 x64 Customized by zSecurity 1.0...	9/28/2022 2:10 AM	VMware virtual m...	4 KB
Kali 2022 x64 Customized by zSecurity 1.0...	9/22/2022 4:12 AM	VMXF File	1 KB
quicklook-cache.png	9/28/2022 2:12 AM	PNG File	0 KB

Double click to import virtual machine.

Name	Date modified	Type	Size
Disco virtual.vmdk	9/28/2022 2:09 AM	VMware virtual dis...	22,852,160 ...
Kali 2022 x64 Customized by zSecurity 1.0.11.nvram	9/22/2022 4:53 AM	NVRAM File	9 KB
Kali 2022 x64 Customized by zSecurity 1.0.11.plist	9/28/2022 2:09 AM	Properties file Sou...	1 KB
Kali 2022 x64 Customized by zSecurity 1.0.11.vmsd	9/22/2022 4:12 AM	VMMSD File	0 KB
Kali 2022 x64 Customized by zSecurity 1.0.11.vmx	9/28/2022 2:10 AM	VMware virtual m...	4 KB
Kali 2022 x64 Customized by zSecurity 1.0.11.vmx	9/22/2022 4:12 AM	VMXF File	1 KB
quicklook-cache.png	9/28/2022 2:12 AM	PNG File	0 KB

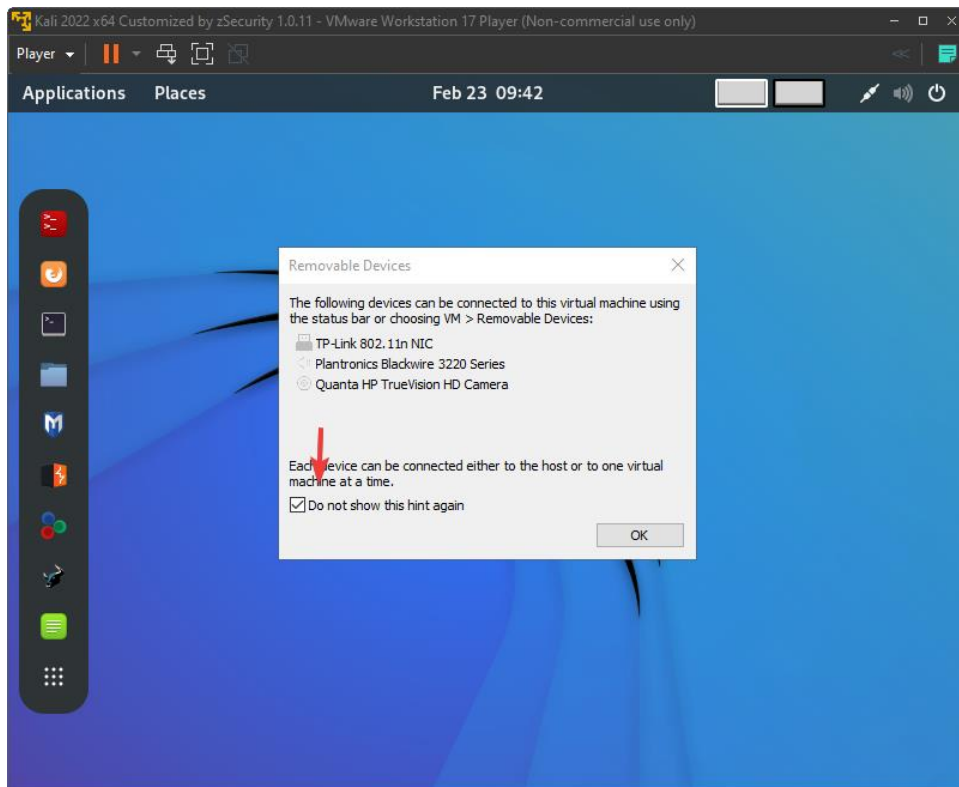
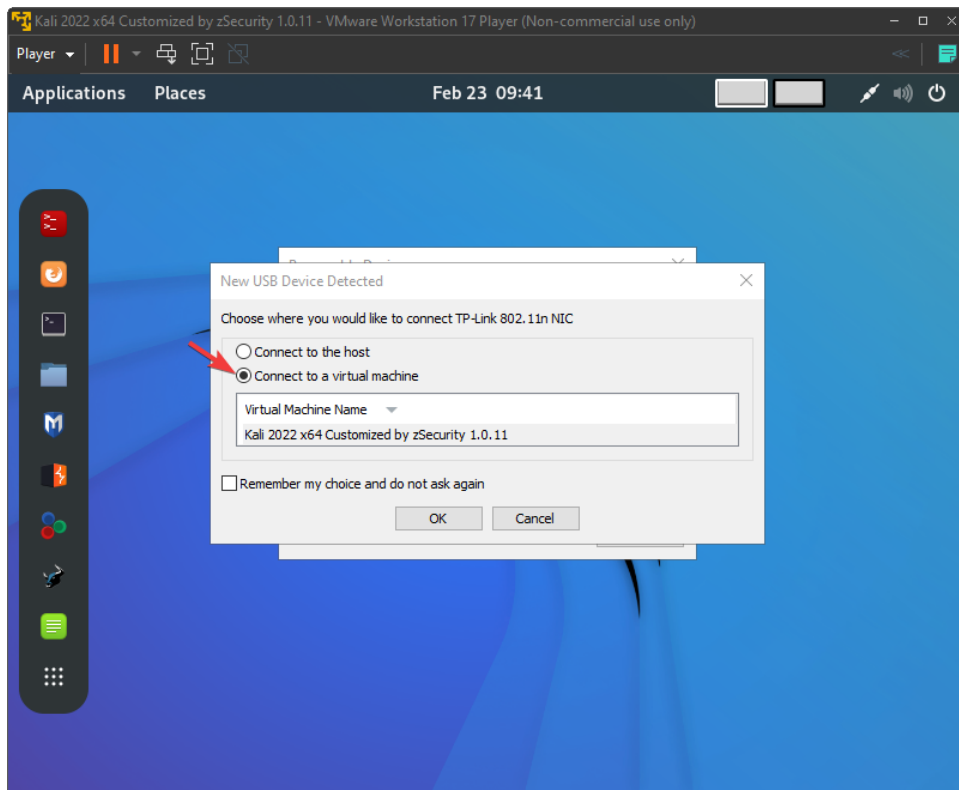




Let it setup.

Username/password: root/toor.

Input network interface card into the system and connect it directly to the virtual machine.



Check Wireless NIC.

```
Kali 2022 x64 Customized by zSecurity 1.0.11 - VMware Workstation 17 Player (Non-commercial use only)
Player
Applications Places Terminator Feb 23 09:42
root@kali: ~
root@kali: ~ 78x27
root@kali:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.153.128 netmask 255.255.255.0 broadcast 192.168.153.255
    inet6 fe80::20c:29ff:fe1a:9ad1 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:1a:9a:d1 txqueuelen 1000 (Ethernet)
    RX packets 13 bytes 1908 (1.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 23 bytes 2456 (2.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 16 bytes 960 (960.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 16 bytes 960 (960.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4099<UP,BROADCAST,MULTICAST> mtu 2312
    ether ea:3d:5f:d2:5a:86 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@kali:~#
```

```
Kali 2022 x64 Customized by zSecurity 1.0.11 - VMware Workstation 17 Player (Non-commercial use only)
Player
Applications Places Terminator Feb 23 09:42
root@kali: ~
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    RX errors 0 dropped 0 overruns 0 frame 0
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    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4099<UP,BROADCAST,MULTICAST> mtu 2312
    ether ea:3d:5f:d2:5a:86 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@kali:~# iwconfig
lo      no wireless extensions.

eth0    no wireless extensions.

wlan0   unassociated Nickname:"<WIFI@REALTEK>"
        Mode:Auto Frequency=2.412 GHz Access Point: Not-Associated
        Sensitivity:0/0
        Retry:off RTS thr:off Fragment thr:off
        Encryption key:off
        Power Management:off
        Link Quality=0/100 Signal level=0 dBm Noise level=0 dBm
        Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0
        Tx excessive retries:0 Invalid misc:0 Missed beacon:0

root@kali:~#
```

Change MAC address for further testing. The MAC will be reverted upon system shutdown or restart, make sure you change your MAC address when you are testing the security of a wireless network.



