Ex. No.: 12 **Date:**

MITM ATTACK WITH ETTERCAP

Aim:

To initiate a MITM attack using ICMP redirect with Ettercap tool.

Algorithm:

1. Install ettercap if not done already using the

   command-dnf install ettercap

2. Open etter.conf file and change the values of ec_uid and ec_gid to zero from default.

   vi /etc/ettercap/etter.conf

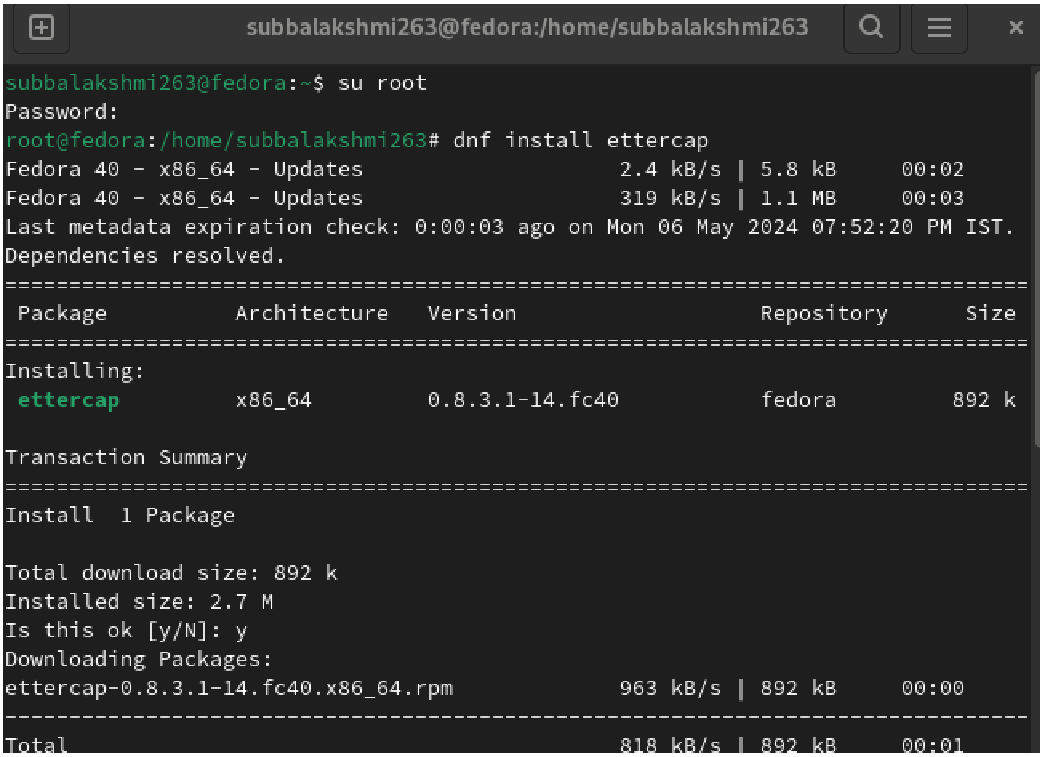
3. Next start ettercap in GTK

   ettercap -G

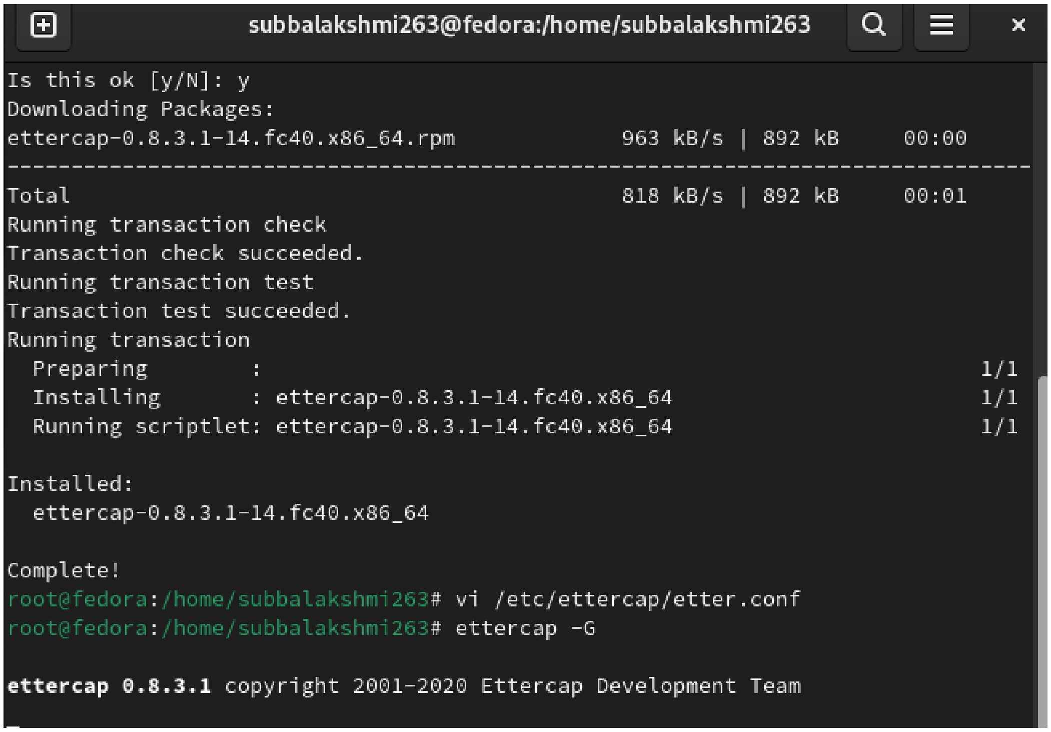
4. Click sniff, followed by unified sniffing.
5. Select the interface connected to the network.
6. Next ettercap should load into attack mode by clicking Hosts followed by Scan for Hosts
7. Click Host List and choose the IP address for ICMP redirect
8. Now all traffic to that particular IP address is redirected to some other IP address.
9. Click MITM and followed by Stop to close the attack.

Output:

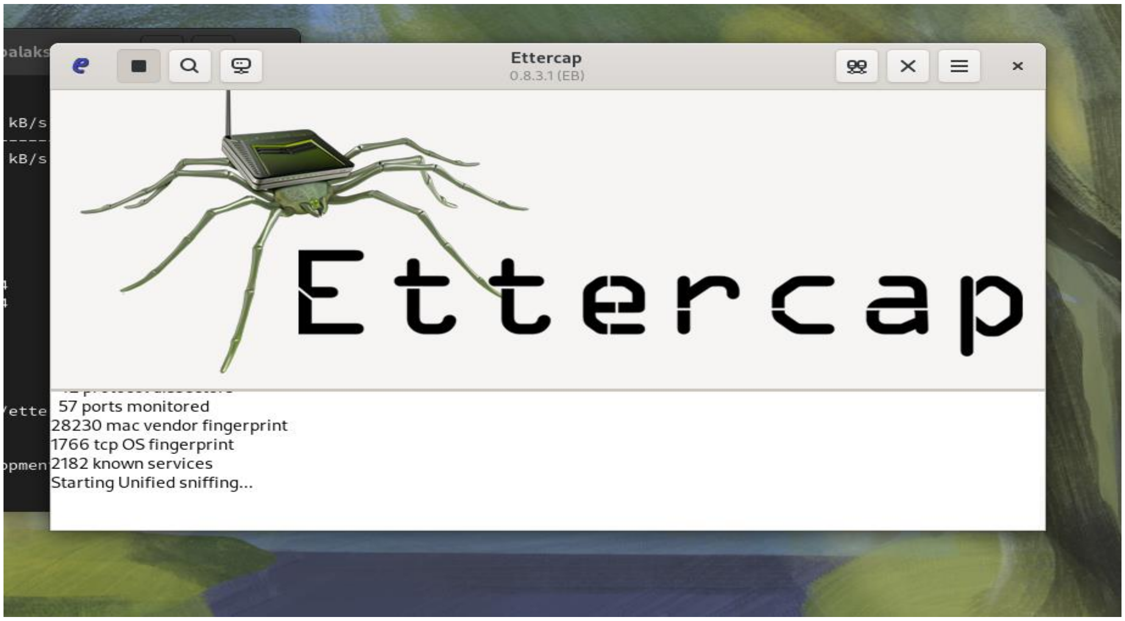
```
[root@localhost security lab]# dnf install ettercap
[root@localhost security lab]# vi /etc/ettercap/etter.conf
[root@localhost security lab]# ettercap –G
```



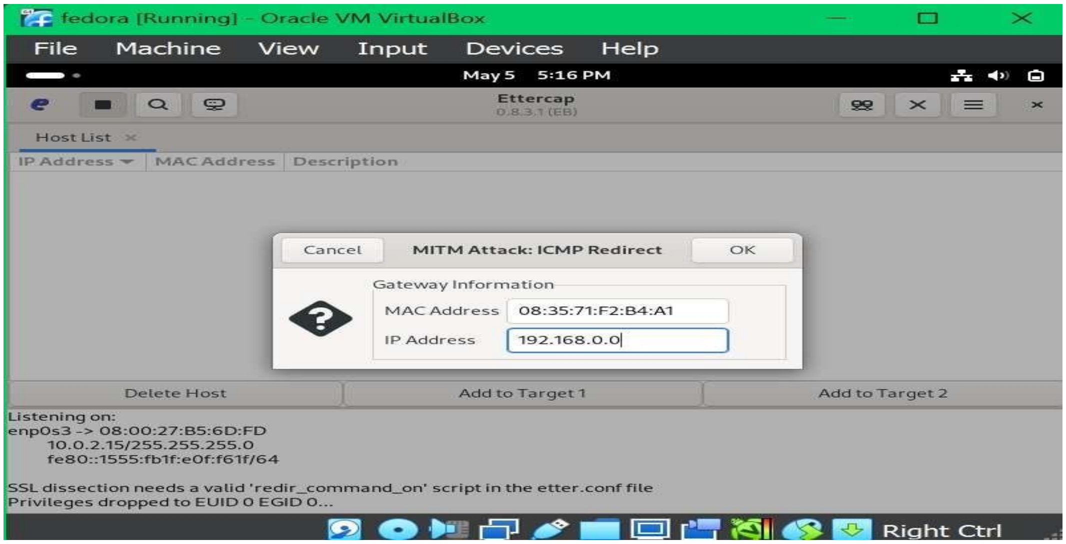
```
subbalakshmi263@fedora:~$ su root
Password:
root@fedora:/home/subbalakshmi263# dnf install ettercap
Fedora 40 - x86_64 - Updates                    2.4 kB/s | 5.8 kB     00:02
Fedora 40 - x86_64 - Updates                    319 kB/s | 1.1 MB     00:03
Last metadata expiration check: 0:00:03 ago on Mon 06 May 2024 07:52:20 PM IST.
Dependencies resolved.
================================================================================
 Package          Architecture   Version                  Repository      Size
================================================================================
Installing:
 ettercap         x86_64         0.8.3.1-14.fc40          fedora         892 k

Transaction Summary
================================================================================
Install  1 Package

Total download size: 892 k
Installed size: 2.7 M
Is this ok [y/N]: y
Downloading Packages:
ettercap-0.8.3.1-14.fc40.x86_64.rpm             963 kB/s | 892 kB     00:00
--------------------------------------------------------------------------------
Total                                           818 kB/s | 892 kB     00:01
```



```
Is this ok [y/N]: y
Downloading Packages:
ettercap-0.8.3.1-14.fc40.x86_64.rpm             963 kB/s | 892 kB     00:00
--------------------------------------------------------------------------------
Total                                           818 kB/s | 892 kB     00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                        1/1
  Installing       : ettercap-0.8.3.1-14.fc40.x86_64                        1/1
  Running scriptlet: ettercap-0.8.3.1-14.fc40.x86_64                        1/1

Installed:
  ettercap-0.8.3.1-14.fc40.x86_64

Complete!
root@fedora:/home/subbalakshmi263# vi /etc/ettercap/etter.conf
root@fedora:/home/subbalakshmi263# ettercap -G

ettercap 0.8.3.1 copyright 2001-2020 Ettercap Development Team
```



```
 57 ports monitored
28230 mac vendor fingerprint
1766 tcp OS fingerprint
2182 known services
Starting Unified sniffing...
```

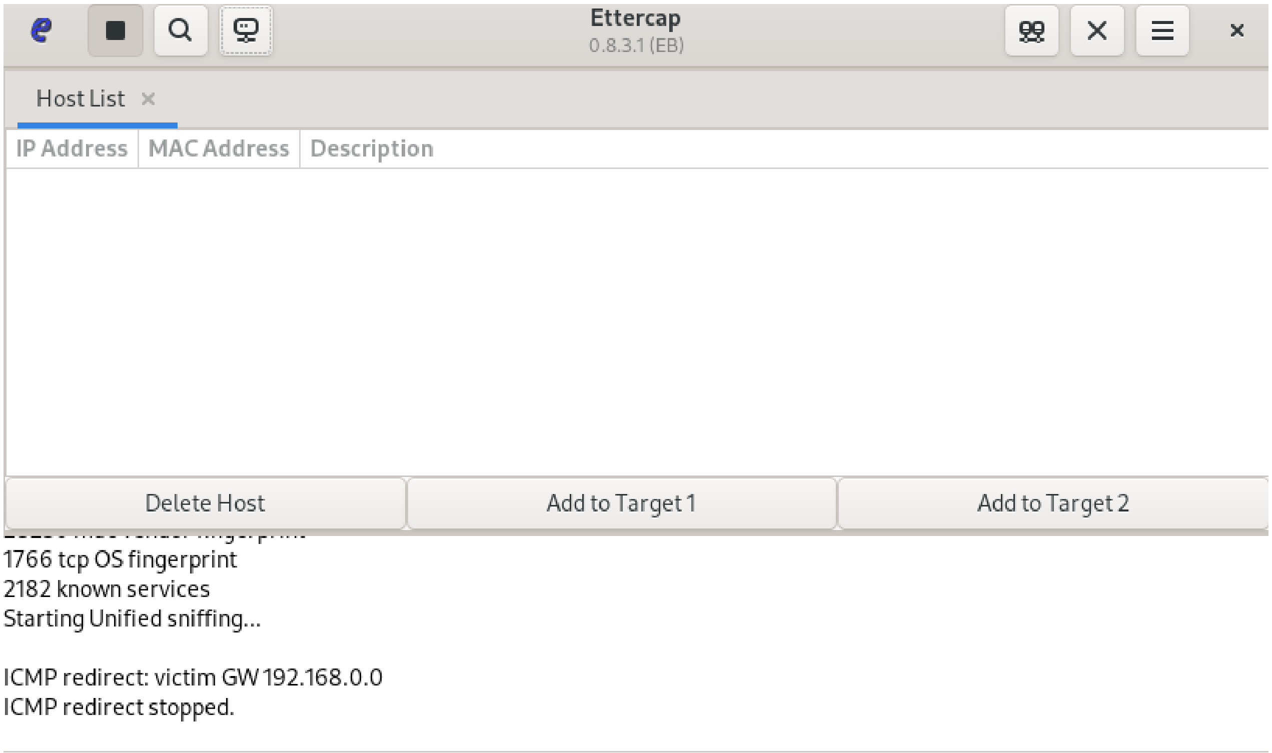


Gateway Information

MAC Address: 08:35:71:F2:B4:A1

IP Address: 192.168.0.0

```
Listening on:
enp0s3 -> 08:00:27:B5:6D:FD
      10.0.2.15/255.255.255.0
      fe80::1555:fb1f:e0f:f61f/64

SSL dissection needs a valid 'redir_command_on' script in the etter.conf file
Privileges dropped to EUID 0 EGID 0...
```



```
1766 tcp OS fingerprint
2182 known services
Starting Unified sniffing...

ICMP redirect: victim GW 192.168.0.0
ICMP redirect stopped.
```

Result: