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

MITM ATTACK WITH ETTERCAP

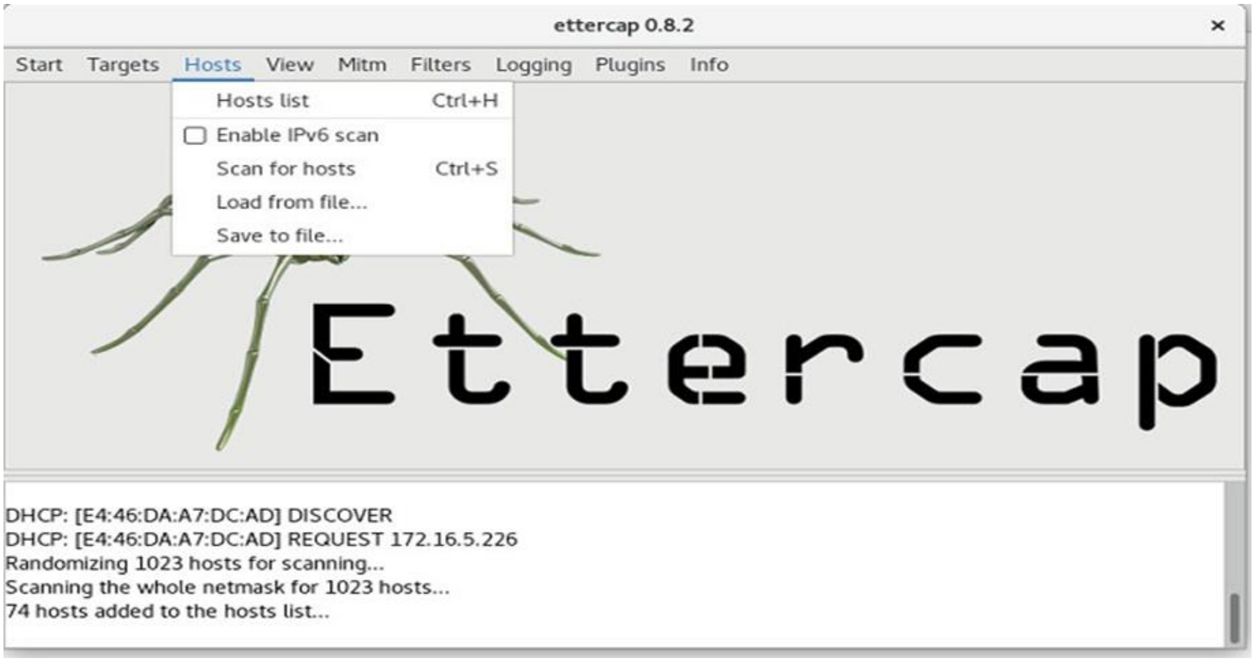
Aim: To initiate a MITM attack using ICMP redirect with Ettercap tool.

Algorithm:

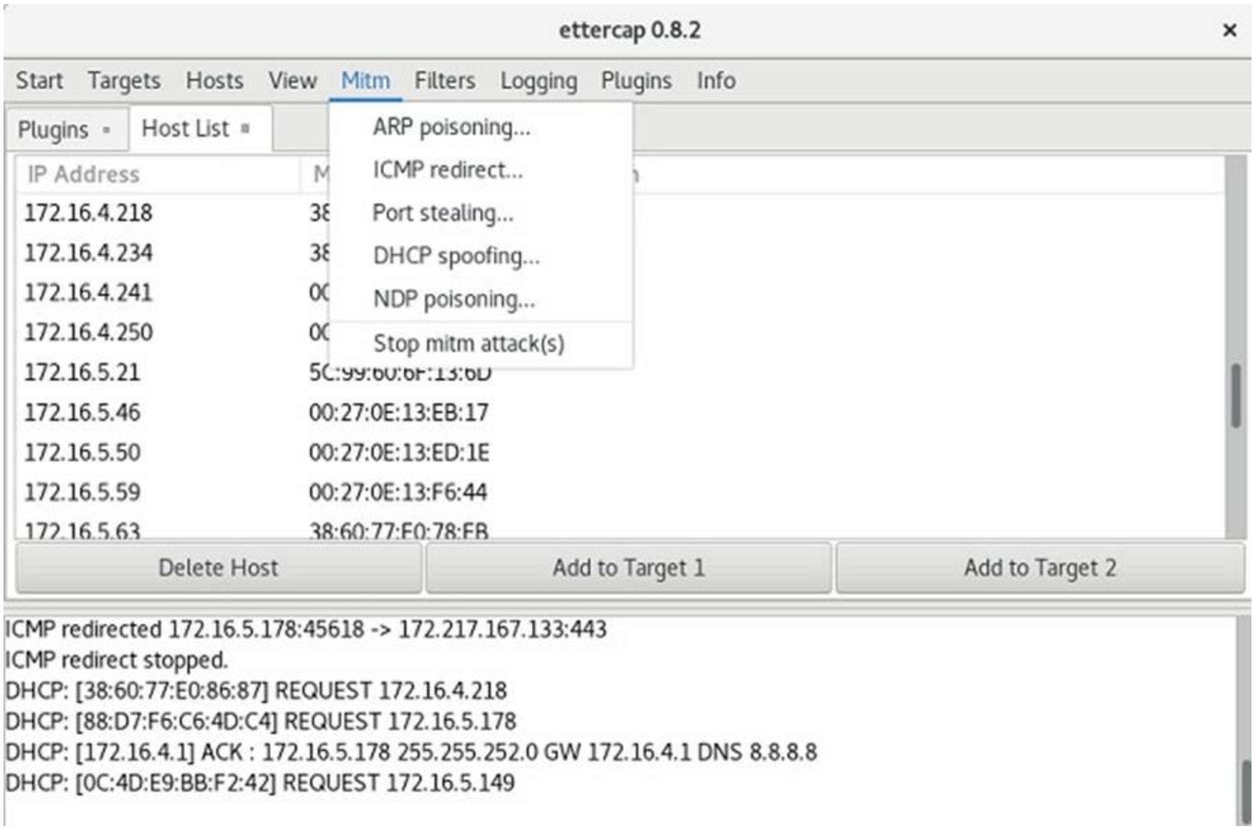
1.Install ettercap if not done already using the command- dnf install ettercap
2.Open etter.conf file and change the values of ec_uid and ec_gid to zero from default. vi /etc/ettercap/etter.conf
3.Next start ettercap in GTK ettercap -G
4.Click sniff, followed by unified sniffing.
5.Select the interface 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
```

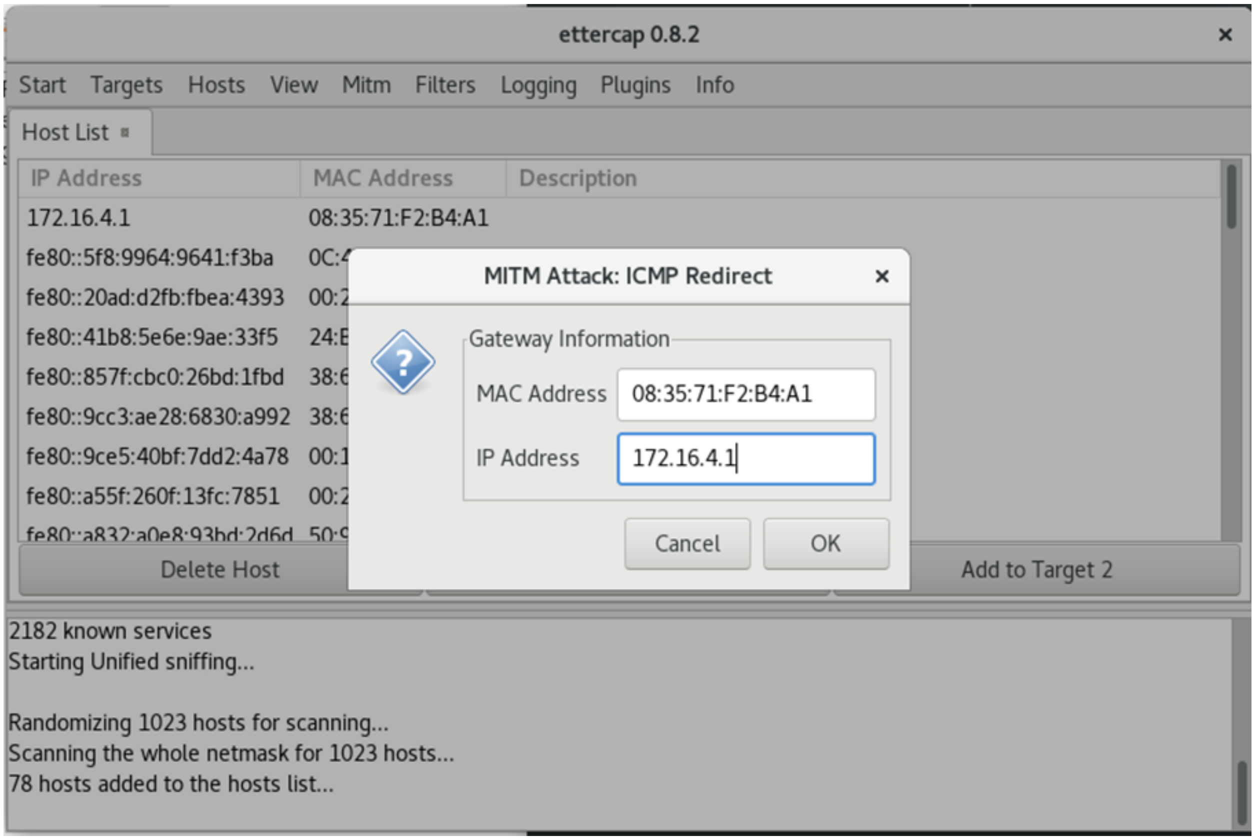


```
DHCP: [E4:46:DA:A7:DC:AD] DISCOVER
DHCP: [E4:46:DA:A7:DC:AD] REQUEST 172.16.5.226
Randomizing 1023 hosts for scanning...
Scanning the whole netmask for 1023 hosts...
74 hosts added to the hosts list...
```



```
IP Address        M
172.16.4.218      38
172.16.4.234      38
172.16.4.241      0C
172.16.4.250      0C
172.16.5.21       5C:99:60:6F:13:6D
172.16.5.46       00:27:0E:13:EB:17
172.16.5.50       00:27:0E:13:ED:1E
172.16.5.59       00:27:0E:13:F6:44
172.16.5.63       38:60:77:E0:78:EB
```

```
ICMP redirected 172.16.5.178:45618 -> 172.217.167.133:443
ICMP redirect stopped.
DHCP: [38:60:77:E0:86:87] REQUEST 172.16.4.218
DHCP: [88:D7:F6:C6:4D:C4] REQUEST 172.16.5.178
DHCP: [172.16.4.1] ACK : 172.16.5.178 255.255.252.0 GW 172.16.4.1 DNS 8.8.8.8
DHCP: [0C:4D:E9:BB:F2:42] REQUEST 172.16.5.149
```



IP Address	MAC Address	Description
172.16.4.1	08:35:71:F2:B4:A1	
fe80::5f8:9964:9641:f3ba	0C:4	
fe80::20ad:d2fb:fbea:4393	00:2	
fe80::41b8:5e6e:9ae:33f5	24:E	
fe80::857f:cbc0:26bd:1fbd	38:6	
fe80::9cc3:ae28:6830:a992	38:6	
fe80::9ce5:40bf:7dd2:4a78	00:1	
fe80::a55f:260f:13fc:7851	00:2	
fe80::a832:a0e8:93bd:2d6d	50:9	

MITM Attack: ICMP Redirect

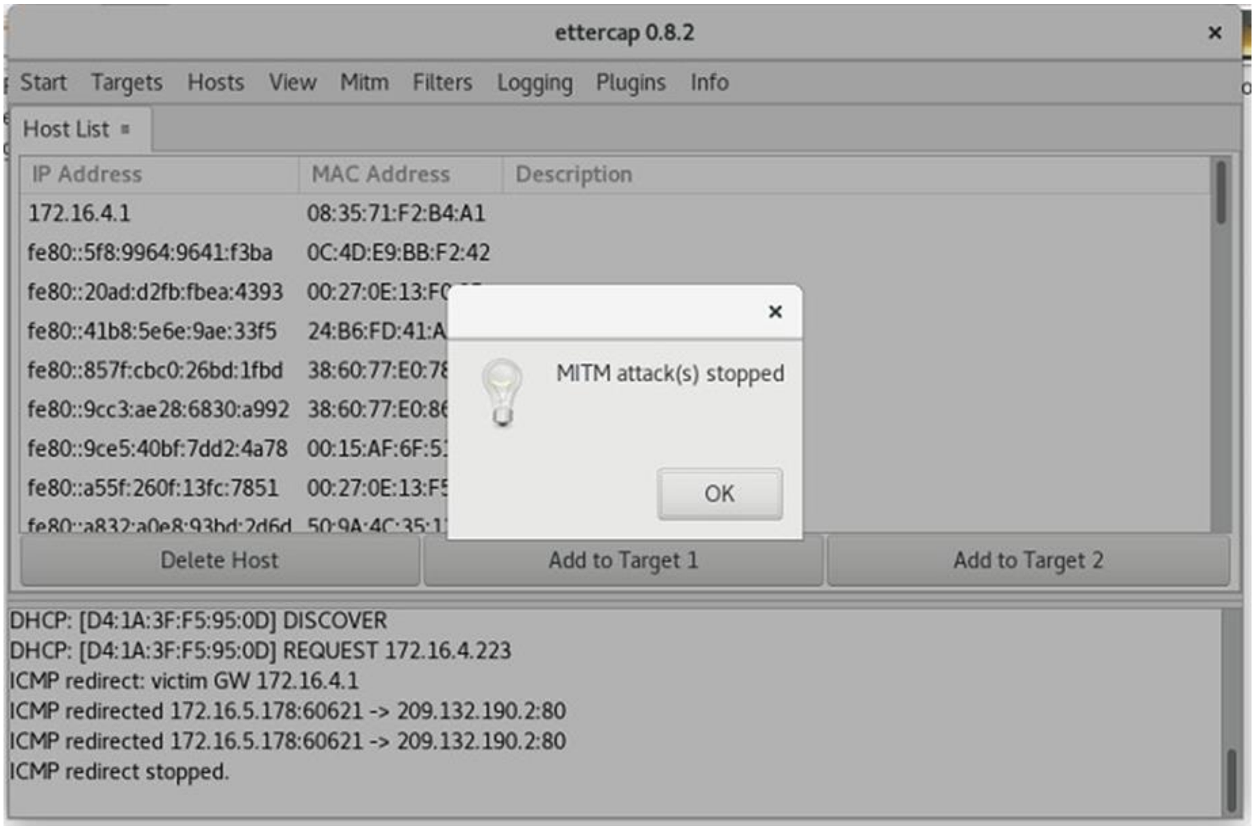
Gateway Information

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

IP Address: 172.16.4.1

```
2182 known services
Starting Unified sniffing...

Randomizing 1023 hosts for scanning...
Scanning the whole netmask for 1023 hosts...
78 hosts added to the hosts list...
```



IP Address	MAC Address	Description
172.16.4.1	08:35:71:F2:B4:A1	
fe80::5f8:9964:9641:f3ba	0C:4D:E9:BB:F2:42	
fe80::20ad:d2fb:fbea:4393	00:27:0E:13:FC	
fe80::41b8:5e6e:9ae:33f5	24:B6:FD:41:A	
fe80::857f:cbc0:26bd:1fbd	38:60:77:E0:78	
fe80::9cc3:ae28:6830:a992	38:60:77:E0:86	
fe80::9ce5:40bf:7dd2:4a78	00:15:AF:6F:51	
fe80::a55f:260f:13fc:7851	00:27:0E:13:F5	
fe80::a832:a0e8:93bd:2d6d	50:9A:4C:35:1	

MITM attack(s) stopped

```
DHCP: [D4:1A:3F:F5:95:0D] DISCOVER
DHCP: [D4:1A:3F:F5:95:0D] REQUEST 172.16.4.223
ICMP redirect: victim GW 172.16.4.1
ICMP redirected 172.16.5.178:60621 -> 209.132.190.2:80
ICMP redirected 172.16.5.178:60621 -> 209.132.190.2:80
ICMP redirect stopped.
```

Result: