

## 6. Block Facebook on IPTables

```
[root@localhost ~]# host facebook.com
facebook.com has address 157.240.24.35
```

facebook.com has IPv6 address 2a03:2880:f10c:283:face:b00c:0:25de

facebook.com mail is handled by 10 smtpin.vvv.facebook.com.

## 7. Whois

```
[root@localhost ~]# whois
157.240.24.35 | grep CIDR CIDR:
157.240.0.0/16 [root@localhost ~]#
whois 157.240.24.35 [Querying
whois.arin.net] [whois.arin.net]
```

#

# ARIN WHOIS data and services are subject to the Terms of Use # available at:  
<https://www.arin.net/resources/registry/whois/tou/> #

# If you see inaccuracies in the results, please report at

# [https://www.arin.net/resources/registry/whois/inaccuracy\\_reporting/](https://www.arin.net/resources/registry/whois/inaccuracy_reporting/) #

# Copyright 1997-2019, American Registry for Internet Numbers, Ltd. #

NetRange: 157.240.0.0 - 157.240.255.255 CIDR: 157.240.0.0/16

NetName: THEFA-3 NetHandle: NET-157-240-0-0-1

Parent: NET157 (NET-157-0-0-0-0)

NetType: Direct Assignment OriginAS:

Organization: Facebook, Inc. (THEFA-3) RegDate: 2015-05-14

Updated: 2015-05-14

Ref: <https://rdap.arin.net/registry/ip/157.240.0.0>

OrgName: Facebook, Inc. OrgId: THEFA-3

Address: 1601

Willow Rd. City: Menlo Park StateProv: CA

PostalCode: 94025

Country: US

RegDate: 2004-08-11

Updated: 2012-04-17

Ref: <https://rdap.arin.net/registry/entity/THEFA-3>



OrgTechName: Operations

OrgTechPhone: +1-650-543-4800

OrgTechEmail: [domain@facebook.com](mailto:domain@facebook.com)

OrgTechRef: <https://rdap.arin.net/registry/entity/OPERA82-ARIN>

OrgAbuseHandle: OPERA82-ARIN

OrgAbuseName: Operations

OrgAbusePhone: +1-650-543-4800

OrgAbuseEmail: [domain@facebook.com](mailto:domain@facebook.com)

OrgAbuseRef: <https://rdap.arin.net/registry/entity/OPERA82-ARIN>

#

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```
[root@localhost ~]# iptables -A OUTPUT -p tcp -d 157.240.0.0/16 -j DROP
```

Open browser and check whether <http://facebook.com> is accessible

To allow facebook use -D instead of -A option

```
[root@localhost ~]# iptables -D OUTPUT -p tcp -d 157.240.0.0/16 -j DROP
```

8. Block Access to your system from specific MAC Address(say 0F:22:1E:00:02:30)

```
[root@localhost ~]# iptables -A INPUT -m mac --mac-source 0F:22:1E:00:02:30 -j DROP
```

9. Save IPtables rules to a file

```
[root@localhost ~]# iptables-save > ~/iptables.rules
```

```
[root@localhost ~]# vi iptables.rules
```

10. Restrict number of concurrent connections to a Server(Here restrict to 3 connections only)

```
[root@localhost ~]# iptables -A INPUT -p tcp --syn --dport 22 -m connlimit --connlimit-above 3 -j REJECT
```

11. Disable outgoing mails through IPtables

```
[root@localhost ~]# iptables -A OUTPUT -p tcp --dport 25 -j REJECT
```

12. Flush IPtables Firewall chains or rules

```
[root@localhost ~]# iptables -F
```

### RESULT:

This lab provided a basic understanding of iptables installation and configuration by experimenting with different rules and options, you can gain practical skills in managing network security using iptables

## MITM ATTACK WITH ETTERCAP

EXP.NO: 12

DATE:08-04-2025

### 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
```



