Reg no: 210701092 Name: Jeffrey Jesudasan R

Ex. No.: 6 Date:

## INSTALL AND CONFIGURE IPTABLES FIREWALL

#### Aim:

To install iptables and configure it for variety of options.

#### **Common Configurations & outputs:**

# 1. Start/stop/restart firewalls

[root@localhost ~]# systemctl start firewalld [root@localhost ~]# systemctl restart firewalld [root@localhost ~]# systemctl stop firewalld [root@localhost ~]#

### 2. Check all exitsting IPtables Firewall Rules

[root@localhost ~]# iptables -L -n -v [root@localhost ~]#

# 3. Block specific IP Address(eg. 172.16.8.10) in IPtables

**Firewall** [root@localhost ~]# iptables -A INPUT -s 172.16.8.10 -j DROP [root@localhost ~]#

#### 4. Block specifig port on IPtables Firewall

[root@localhost ~]# iptables -A OUTPUT -p tcp --dport xxx -j DROP [root@localhost ~]#

# 5. Allow specific network range on particular port on iptables

[root@localhost ~]# iptables -A OUTPUT -p tcp -d 172.16.8.0/24 --dport xxx -j ACCEPT [root@localhost ~]#

## 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.

[root@localhost ~]# whois 157.240.24.35 |

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grep CIDR CIDR: 157.240.0.0/16

[root@localhost ~]#

[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\_repo

rting/#

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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)

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:

inow Ru. City.

Menlo Park

StateProv: CA PostalCode: 94025

Country: US

RegDate:

Reg no: 210701092 Name: Jeffrey Jesudasan R

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4-08-11

Updated: 2012-04-17

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

OrgTechHandle: OPERA82-

ARIN OrgTechName:

Operations OrgTechPhone: +1-650-543-4800 OrgTechEmail: 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

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

#

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#

https://www.arin.net/resources/registry/whois/inaccuracy\_repo

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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 [root@localhost ~]#

6. 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

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	0F:22:1E:00:02:30 -j DROP [root@localhost ~]#
	7.Save IPtables rules to a file [root@localhost ~]# iptables-save >
	8.Restrict number of concurrent connections to a Server(Here restrict to 3 connections only) [root@localhost ~]# iptables -A INPUT -p tcpsyndport 22 -m connlimitconnlimit-above 3 -j REJECT
	9. Disable outgoing mails through IPtables [root@localhost ~]# iptables -A OUTPUT -p tcpdport 25 -j REJECT [root@localhost ~]#
	10. Flush IPtables Firewall chains or rules [root@localhost ~]# iptables -F [root@localhost ~]#
	Result: