IP Jables! - Installation

```
# systemed stop firewalld service
# systemet disable firewalld-service
# yum install lptubles - services lptables - utils
att systemati start iphables
# systematl enable iptables
# iptubles -L -> List
# iptubles -t filter -L -> 3 stages
# 1 ptables -t nat -L -> 4 stages
# iptubles -t mangle -L -> All 5 chains
# iPtables -t raw -L -> 2 chains
# iptubles -- Flush to date from filter
# iptubles - P FORWARD DROP - chain forward=DROP
# IPtables -D INPUT 2 -> 1+ will delete line 2
                                 From INPUT PULE
                 Preroutive
```

Forward Input
APD
Postconting output

IP Forwarding: -

cat /proc/sys/net/ipv4/ip_forward La total 0 (it it is o add 1 in it) W # echo 1 > /proc/sys/net/ipv4/iptorward **W** # VI/etc/sysctl. cont --& net ipv4. ip_forward = 1 1 # iptuble -F 999 # iPtubles -t nat -A POSTROUTING -S 10.10.10.0/24 -0 ens33 -j MASQUERADE -Assignment! - Allow these sites only -> -Client 1 -> dient 2 For all _3 Youtube google. Azurc -microsoft wikipedi'q Heroky sit --centos. CISCO _2 redhat Aws doud _ all other site block. りつつつ # iptubles -A FORWARD -S 10.10.10.130 -d www.youtube · com -p tcp -- dport = 443 -j ACCEPT つつつ # iPtables - A FORWARD -d. 10.10.130 -s www. youtube . com -p ticp -- sport = HH3 - J ACCEPT <u>د</u> در # iptubles-L Now dient 1 is able to access youtube com ココココ

DNS Rule

iptables - A forew FORWARD - 15 10.10.10.0/24 - 5

192.168.44.2 - P udp - - dport 53 - j ACCEPT

iptables - A FORWARD - 1 10.10.10.0/24 - d

192.168.44.2 - P Udp - - 5 port 53 - j ACCEPT

dns.

Statetal Packet inspection threwall:

- # iptables A FORWARD 5 10.10.10.130 d www. youtube .com - p tep --dpoot = 443 - m state -- state NEW, ESTABLISHED - j ACCEPT
- # iptables -A FORWARD -d 10.10.10.130 -S www.youtube .com -ptcp --sport = 443 -m state --state NEW, ESTABLISHED -j ACCEPT

Block pinging from another ip

1 ptables - A INPUT -d 192.168: 44.138 - P ICMP -- icmp-type echo-reguest - j Drop

Dur Packate limit

1 pterbles - A INPUT - 2 192.168. HH. 138 - P ICMP - m limit -- limit 5/5 - J ACCEPT

D BBB Ping maximum limit upto 286 loytes packets # piner - 1 256 nat ip B D Block internet of client machine B # iptables - A INPUT -i ery 33 - p 10 13 PP P Apserver client ip # i pterbles -A FORWARD -5 192.168.72.10 -d 172.16.0.1 -- dport 21 -m state -- state NEW, ESTABLISHED 7 , RELATED - J ACCEPT 13 3 -m limit - allow you to specify no of packets 3 to be accepted per second 3 --m length - allow you to specify length of the packet to be accepted 3 3 1 3 3

3

3

3

3

3

2