Date: - 31/03/22 Netfiller firmall is stateful parket. If single computer mon we setup me Circuit - evaluate payload of packet but not detect the firewall cook in computer on not. openific packet. but of 100 computer mon security coplintin and protest one 100 conjects now Two firewell i) Dimilitarized Zone Nlw , -Some Afterver their available publishing: Linux firewall - Netbilter - It is protected by external firewall.

also protected by internal firewall. order to Acces mix prinewall external firewall. * IPTABLES Use to administrate the firewall i've Netfritter. it is System that help up to use valen , most suited to impotement the I Psec. 1) Bolived the travale IPTABLES -> 3 diff set of Rules. 0 -> processing overhead. - IP see truffic is encrypted. FORWARD . OUTPUT -> circuit level mory a application level Set of talely proxy can not be evaluated. Distributed firewalls: - Kinux, windios out put the parket firewal, Bitchefender Box, Cisco west General Hardware. he patter from the tiliewally opply his rule. the parter F Input then INPUT Rule is Take finvall, decition: only enty I exit point for the hort/ho apply. checked rule matching according distinguish authorized & , onauthorized. Typ table ix system administrative with come rule that > 'te header this partoct allow or my. secure outlacks.

collision reorskint.

Rules

-> partial ix evaluated from top to bothom Do than more than one rule apply and may be chance not rule apply based on hander.

first matching , take the approximate decision.

Default Malue for 1) Default policy ix . Accept and 91 matche then Rule - matching rule and I drop the packer -> Received a packet & -> not Received.

> matched - chop the 1 > S > matched - chap the partiet

one way mule is sufficient

Default -> Drop.

You receive the packet and table

conf accept the partet. two way rule is required from dient room The rives are required in 1/p table & ofp table

from Stient If the depault apolicity is accept and we accept the paulost then we have two way rule is required. From when to serve and form server - client.

In default is Accept In order 42 block the channel in any way then went not copie to understand mr, diet of the way rule.

If defeath its drop, two communichin is write at both soules a client side.

Netfilter lave. Seperate Rule table

- y filter:-
- d) NAT Network Address Translation.
 (5) Read Born net.
- 3) Mangle To alter the packet Suppose we want to change the SIP, DIP, SPOR NO & D POR NO, we do it with weighter fitewall.

Syntax of Rule: i'y ip tables < options > < chain > < Matching Int ma) In Matching Chikeria, Cip address 7 -- A Append the rule (Append at end) 891) If SIP = - drop the packet Insert the rule . (Assert at Front) -s < ip addres > Delete the rule Ty 01 P = Replace the Rule -d < ip address > particular insert me cheen 94 source port = -< chain> > -- sport port no. input, output or forwart 4) If determention port no. -- dpost post no. < chain > It partet coming through diff interpara INPUT to block packet compine comming from particular OUTPUT. interface. FORWARD packet received at i/p interface s) e'/p i'nterfeccé (matching criteria) If matching then Action take place action - s' interface 7) parket received at ofp interface can be DROP, ACCEPT , FORWARD. -0 output ip tables <options > < chain> < matching on terria> < Action The oparatest received at DROP Rules of intertaing the packet: -Accien FORWAR

L show Routor Node 2 192. 168. 1.101 192.168.101 192.168.2.2 [KI O. Arop all imp particles forwarded by the later of Node 2 want to Commentate it conqueni cirta Router Side :smayh fouter. Rule 1: iptuble - A forward -p icomp - j DROP, implement firewall at each level. Date: - 1/04/21. proficel PKITM Command to check forward chain, input chain -> Sudo uptubles -L (All rules thous) connection use @ client : -1) ping 192.168.1.1 di nouter sudo iptolole (D) forward -p icmp -j Drop.

Drop. 9) ping 192.168.201 di- server server write a rule at a nouter to accept only 1) 192-168-1,101 those temp packets that come as a response. 192 . 168 . 1 . 102 Rule 1:- iptobles - A INPUT - p icomp - J ACCEPT

A) all the mention this rule accept the all peaket but question & igo only accelet the response. for verponse partet, we love to mentioned doubthations address.

of April chain. the default policy

- sudo iphable - P INPUT DROP.

Q. Stop access to google.

· ptable - A INPUT - , www-google . com - j DROP.

Q. To drep a Tep paidet for: -.

TP address: - 190.168.1.0/24 Source IP

Port no: - 25 destination fort.

192.168.1.0/24 -p tep-dport 25 -j prop.

Q. If we have multiple completely delete O/P , I/P x forwar D chain

i) to quot or specific chain

e) all chain

3)

we can delete the mouthing critea

without delete the rule, we check the

1) Sudo iptoble - F INPUT Stelete FIP Clair

9) iptorale - D INPUT 1. Solete the Rule 1 in Enput table,

Delete all chain Sudo iptuble - F.

* iptende - D Expert - S 192. ---.

Defeat dels : To read | conte data across network connections using Tep | UDP protocols.

mekent (a) Somer.

Somer.

-> iptables - F pot no.

-> codo no. - l. 217 keyor. text.

1 Drop the packets at client Router

(g) " " " " " Server.

Drop packet at client side. sudo iptable - I output - p ftp - s' DROP Dates - 504/09. PKITM selected to delay Ferman's Theorem Chalois के मा Culer o'ler experience of our year in the contraction of the co