Experiment-5

Implement Firewall for an Organization

Date: 11/9/24

AIM

Implement a firewall for an organization.

PROCEDURE

Step-1: Login to Kali Linux, open terminal and find the IP address.

Step-2: In Windows open Command Prompt and find the IP address.

Step-3: First block the IP packets using Kali Linux. Check whether IP packets are blocked using ping command in Windows Operating System.

Step-4: Unblock the IP packets. Check whether IP packets are unblocked using ping command in Windows Operating System.

Step-5: Block the port number. To check port is blocked, open any browser in windows operating system and run the IP address of Kali Linux.

Step-6: Unblock the port number. To check port is unblocked, by open any browser in windows OS and run the IP address of Kali Linux.

SOURCECODE

steps:

1> Go to vmWare and click open terminal and type the command.

→ if config

now note the IP address of linux (192.168.94.128)

→ next go to command prompt and type the command
ipconfig
→ note the ip address of window (192.168.94.1)
→ Goto vmWare terminal and type
$ sudo service apache2 start
[sudo] password for kali : kali
$ sudo service mysql start
→ Again go to command prompt
> ping 192.168.94.128
→ Then VMWARE terminal type
$ sudo iptables -A INPUT -s 192.168.94.1 -j DROP

→ Go to command prompt:
> ping 192.168.94.128
pinging 192.168.94.128 with 32 bytes of data:

Request timed out
Request timed out
:
:

→ Go to command prompt
> ping 192.168.94.128
Ringing 192.168.94.128 with 32 bytes of data
Reply from 192.168.94.128 : bytes = 32 time<1ms TTL=64
:

Reply from 192.168.94.128 : bytes = 32
time<1ms TTL=64

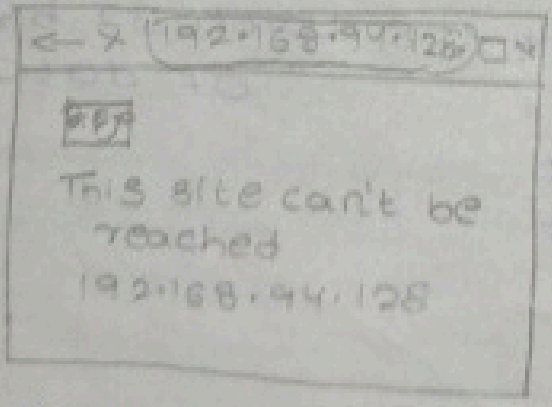
=> Then Go to vmware terminal and type the command

$ Sudo iptables -A INPUT -s 192.168.94.1
-p tcp --destination -Port 80 -j
DROP.

=> In command prompt type
>Ping 192.168.94.128.

=> Then open windows browser type the IP address of linux.
> 192.168.94.128.

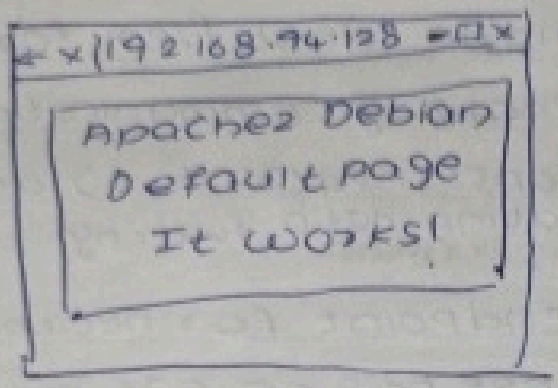
=> Then you get the output as
output:



=> In vmware type command
$ Sudo iptables -D INPUT -s 192.168.94.1
-p tcp --destination -Port 80 -j DROP
=> Go to browser and again type the

OUTPUT

same address. The output will be



So, this is the output we will get after typing the above command.

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