14-11-34

Computer Networking.

Firewall: It comes after souters Devices:

CH + Y: [Firewall . Cpy of (enter). will open the frewall. firewall does different type of filt-occutions

Advanced setting (class):

- In bound Rules (when applic - install then allow them I deny

- To discuste m-torrent (++ click - discuste).

Allow / Deny. These are rules on basis of which it allow)

deny the send receive data packets.

There are How firewalls also.

Open Google: asco. Asa. firewal seconch. Lee the image: This is a 3500souresfirewall how to leisco is worlds no. 1.

It perovides connectivity and provide special facility to tiltordata, we implement on basis of parameters

(ii) serevices reladed to some protocols (protocol hous a no; Telnet portno.28). To block website on bouis of perotocal: To not open http protocal then close port no.80. In some cases.

Rules! Dn basis of Mac we do blocking ip.

On basis of ip Then are will change ip.

Then Mac also changed by macid.

Then ! make were id.

To secure the in . out then sowices are blocked!

Frewoull

(i) Provides security
(ii) Security Parameters.

1. ip address.

2. Mac address.

3. Services
4. Protocols.

5: Tretocol

(11) It can whom / dany the data parkets.

(IV) It can be implemented at the houndary of the network.

(v) Types of firewall:

(i) H/w based: eg. Cisco As A 5500 firewall.

(ii) Application based: eg: Windows Defendent.

Defendent.

Approvion based has mound / outhord rules

newrite:

Progrecum.

Predefined

Custom.

To revoke all program.

Colvine and then in programpiles.
Program Any Dek | Any Dek. select and put in that

set on all ferograms.

Then it asks the port no for protocol wise in the list: we set Any.

Then on Ip based ! specify the i paddress. we need to define for specific Ip: Add an ip

192.168.10.20. is the i.p. of that machine.

-sor define therange of inp

Then next : Do you need to Allow / Block / Allow is sequer secure. They block.

If site is domain based. If private network.

If public network: It asks a rule: Any Desk Cimage, write description, foursh.

In The inbound Rules: It shows blocked and. status: block.

Then we make the butbound Rule

To configure con cisco, we need commands in ACL Access control list to configure the how firewall.

The ACL how 2 types:

Standard ACL & fentended AKCL. The Setting & firewall is seen in Antivirus, where that Antivirus will restrict the sites. The Router also has firewall write Keywords of the site to block). firewall will not scan the data packet.

Antivirus well scan the data packet to see

to vulnexability.

MTU firewall made ly a company darms to som the packets of data and block if required. Cisco has not this facility:

Antivirus will brown site; it is finding the data packets to be suspicious, of wo see that attacks are coming forom a site, then we create the rule to close the connection focum that source in the firewall.

Mode of Transmission: All the medicional the devices needed a part is Established. How is Transmission Done? for transmission, a corrier signal is needed cl) analog signal. (ii) digital signal. analog signal: The computer is digital: The internet connection is analog. The intermediate dervice that interconnect the digital and analog signal is required refor to call as: modern Analog signal travels in form of waves Digital signal makes the square wave discrete. pattoin. Digital signal and Analog Signal (images). analog. Praited signal. There are many ways of conversion of one form to other form. for that line cooling is done. Manchestor Lencoding Analog to Digital. Shift keying is done in digital to analog, convertin Pulse code modulation (analog) to algital Converse. The Transmission run in 3 modes nomes 2 Simplex parallel. hay duples. Synchronics full dupplex Asynchronus.

i) simplex mode: One-way one is sender, other is forever necessary Trehamel, Radio (sender); user (secetary) (ii) hay-duplex: Both direction communication Fransmit and Receive lut one process out The device: Hub will work in one Time. lither will send preceive , hay duplex. walki- talki is also an eg. done in hay duples made twough hut men The communication isdone (iii) send-receive (both) out a time. is the full Switch and Router are thederice duplex. The that follow the full duplex mode, Insimplex: oneway; one time receive Isend In half duplex: one node on receive/send at a time In full dupley. One nocle can send / receive at the scene time.