A firewall acts as a recurity quard controlling acres between on internal protected metwork and an enternal untrusted metwork based on a guin recurity policy. It helps prevent confedential inside data leaking out . It

There are 3 types of firewall?

Packet filters

- · It checks for molthes is the IP, Top and UDP headers
- · Et is often performed by the border router or access router.
- a) statiful injection
 - Here packets TCP flags and required lack numbers are used to check its authority.
 - · Draps the packet is the integrity fails.

- 3) Application level
 - . It is also willed as deep unjections frewall
 - · A porony layer is retup aubelium the client and server
 - · Et ducks the application layer for worms, virus, your, etc.
 - · To the chief promy appears as revuer and vice verra.

(2)

Packet Jellers

- 1) 3 simple and least recure
- 2) Many routers promoter This
 functionalty
- 3) Pourer or drops packets
 based on rules
- 4) Hard to monoge
- 5) Eay to make metales

Application galung

- if Most recion approch
- 2) Vuigue program jar each application
- 3) Grood for authentication
- 4) Not always tromport
- 5) wed in email, FTB TELNGT, WWW

- 1) Implementation are found only in rottore.
- 2) 3 cons corrupt files & eoftware
 - 3) country internal & enternal threats
 - 4) No couler attacks are pariable after malwore removal
 - 5) Bais of atlack injection on malicious refluore during on a computer

- 1) Implembation is botts hardware & roftwore.
- a) Monitor and filter gurating
- 3) counters entered threats only.
- 4) IP spoofing and routing attachs vaulewrably
 - 6) Encoming packets

- (4) functionality of a firewall?
 - A ecces control

 It julies incoming and onlying packets
 - Address part translation

 Providing a ret of private addresses

 that could be used by system admin on

 their system internal networks but are

 globaly invalid
 - It keps track of all all incoming and outgoing packets
 - Authentication, cooling
 It can be used for outs. and earling
 purposes also.