

Section - 1 Date: / /

Firewall Design Principles

Ans 1 Firewall is a security barrier between two networks that screen traffic coming out of the gate of one network to accept or reject connections and services according to a set of services.

Characteristics

- ① Different Protection level based on the location of the computer
- ② Protection of wireless network
- ③ Access to the network and the internet
- ④ Protection against intruders
- ⑤ Block
- ⑥ Definition of rules

Date: / /

Techniques four controls

- ① services control
- ② Direction control
- ③ user control
- ④ Behaviour control

Type of firewalls

- Packet filtering firewall
- Circuit level gateway
- Statefull inspection firewall
- Application level gateway
- next generation firewall

Design goal :-

1. All traffic from inside to outside must pass through the firewall
2. only authorized traffic will be allowed to pass.
3. All traffic from inside to outside and vice versa must pass through the firewall.