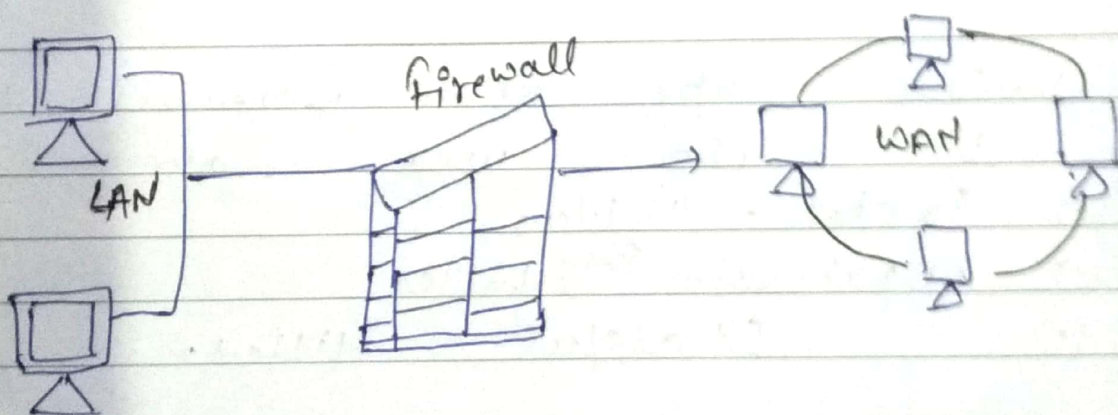


Section - 1

(1) A Firewall is a System designed to prevent unauthorized access to or from a private network. You can implement a Firewall in either hardware or Software form, or a combination of both. Firewall prevent unauthorized internet users from accessing private network connected to the internet, especially intranets.

A Firewall establishes a barrier between secured internet and outside untrusted network, such as the Internet



* Firewall wall is a security breach between two networks that screens traffic coming in and out of the gate of one network to another.

* The job of the firewall is to determine what to let into and out of the internal networks.

* Firewall provides access to the networks.

Principle Design:

(i) All traffic from inside to outside and vice versa must pass through the firewall. This is done by physically blocking all the access to local network except via the firewall.

* Various types of firewall that can be used are:-

- (i) Packet - Filters
- (ii) Application Proxy filter
- (iii) Stateful filters.

* The firewall itself is immune to penetration. This implies that use of trusted operating system with secure system.