## <u>Nomputer</u> Networks

## Prioxy Server

What is it?

\* Stands in between the client & the server.

\* The client communicates with the proxy and the proxy communicates

\* The elient cannot inject the website server directly.

It When devices on the outside have to communicate with inside

they use proxy server.
"inside have to communicate with outside, they use reverse proxy server.

\* Proxy server can also add functionality and security. Keep hogs Of all the network activities / traffic.

\* Peroxy Server makes it easier to monitor.

\* Very easily twin on logging.

\* Priory server gives the Illusion of inside tommunicating with the outside

\* Proxy servers are used to increase performance.

\*\* We calso can teach non-technical people to use proxy servers.

The ability by which managers can block certain sites by Anemselves-

\* lontrol the foubidden websites in an organization.

ACLs are complicated, we block based on the datagream.

Some sites can add/change It addresses. We block all IP addresses using proxy servers.

- \* Puoxy servers Gives Us more control on the internet. We can better monitor using peroxy servers. \* DMZ work in ronjunction of proxy and everge proxy \* Reverse puoxy are servers on the inside which want to communicate with outside devices. \* We can do these for E-mail servers, FTP protocol. What is a DMZ ? It is an area which is not on the same network. Demilitarized zone allows an organization to access any untousted networks such as the internet while enwring its private network on LAN are protected. DMZ Intranet (LAN) Muter
  - \* Devices on the outside get the illusion of communicating With the inside and get the functionality they need the Even desktop clivices can't communicate with the outside.

    \* Monitor everything.

(WAN)

Created DMZ for extra layer of security.

DMZ is just another Local Arca Network. It's a buffer between inside and the outside.

Benefits of using DMZ:-Enable Access Control

Prevent Network reconnaissance

Any attempt of attack will trigger alarms. By the time the attackers get to the second firewall, it will completely shut down the part where it connects to lets say an email server and not the whole Local Area Network. (Intrusion prevention system). Selectively shut down parts of the network.

\* Read about the Conficker Virus