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There are 3 types of file permissions in linex 1 head: permission to read a file 2. Write: permission to write a file 3. execute permission to execute a file (run as a program

to The purission are denoted as KWX where r is for read, w is for write & & is for

To revoke a permission a - ' is used in place of the letter Eg. To denote read permission I execute permission,

we would use r-x.

. (1) ipconfig / if config :-

ipconfig (Wirdows) / isconfig (Linux/Unix) commands can be used to get 1Pv4 addiess, 1Pv6 address, MAC address, DNS server, default galeways etc. It can also be used to release & renew the 1844 address, 1846 address, ollsplay DNS cache, clear DNS cache etc.

It is used to find the 1P address corresponding to a domain. We can also carry out reverse DNE (2) nslookup :look-up. nelooky slands for Name Server work-up.

(3) ping :

computer. It sends packets of data to a sperific IP address and displays the time taken to suspense. It can be used to test whether our souter is working properly or not, whether the network adapter is working properly or not.

(4) netetat: (network statistics)

It displays the ports Statistics on network activities, nouting tables, FEP and UDP ports etc. It can be used to list all part connections, actively listening ports, etc., statistics about the ports, mouting information etc

HTTP

HyperText Transfer Protocol

The info. transferred blu server & browser is NOT encrypted.

- HTTP was default port 80 - HTTP works at Application Nayer HTTPS

Hypertext Transfer Protocol Secure

HTTPs uses SSL (seems sockets layer) certificate This creates an encrypted connection bloo the server a browser making the connection more secure. HTTPs also use TLS to make the connection more secure.

- HTTPs was difault port 4433
- HTTPS works at Transport Kayer

- Of Firewall is a network security system that monitors the incoming a outgoing data based on some pre-determined rules.

 Configuration of fewall-
 - 1. Secure the fixewall- update the fixewall; change default accounts. default passwords; delete or rename default accounts.
 - 2. Set up zones identify assets I group them in gones on the basis of sensitivity level. Once all such zones are set up, create the firewall zones & assign them to firewall interfaces
 - 3 configure access control list Identify which traffic is allowed in or out of every zone. This traffic is permitted using access control lists. Derry all unnecessary traffic.
 - 4. configure other services & logging configure the exten services and disable the ones that are not going to be used
 - 5. Test fixewall configuration In a test environment, check whicher firewall works correctly, blocks all straffic that should be blocked according to access control list

Q5 Precequisites to configure a Server - LAN card Should be connected - Server should be configured to a static Il address - The partition on which window is to be installed should be in NTFS