Nw

Basic req

1 nic

2 media –cable – cat5 rj45

Protocol-

Tcp/ip

Connection oriented

Slow

Msg

6

Uses http , https ftp smtp

Udp –

Fast

No

17

Dns dhcp65536 -2 -32 –cidr

16 bit

0 1023

1024 to 49151

Udp

4 ip

5 topology

Eth ens

Eth0

Ens 1

Nw – eth

Loopback

Linux interfaces

ftp -20 ,21

ssh -22

smtp -25 email

dns -53

dhcp -6

http -80

https -443

rdp – 3389

internet security -500 –setip ip security

bgp –border gateway protocol -123

hyper text transfer p – 80

https 443 tls or ssl

tls – transport layer security

ssl –secure socket layer

ftp – uses two tcp connections for communication

utilizes two ports

data port 20send data files bw client and servers

control - command -21 –pass control info –default one

smtp – basic protocol for sending emails via servers bw two computers on a tcp/ip nw

deliver e –mail msgs over the nw internet

smtp- 25 –email sending -standard

587 – encrypted email transmissions using smtps –default port – submission on the modern web

Supports Tls – means you can securely submit mail

465-sometimes for smtps ssl or tls

Originally registered for smtps (smtp over ssl)

2525 –recognized by the ietf or iana

If 587 blocked 2525 makes good alternative

Dns – domain name system

53

rEsolve ,query, request info

both communication udp tcp/ip

enable –storage system

dhcp –dynamic host config protocol

client server

server – 67

client -68

versions

dhcpv4 dhcpv6

ip add

version

ip add

cidr

subenet amsk

cidr

gateway

classes a b c d e

mac