

RESUME

NETWORKING

type, topologi, device

is a collection of network is device and computer devices that are connected to each other through transmission media to be able share data and sdjsrbfier

network type

lan, wlan, wan

lan is the most frequently used network a wlan is a computer network that connect computers together through a common communication path.

architecture lan

peer to peer and lan for

peer to peer

connection between computer directly without any manager

client server

architecture consisting of client devices connected to the server

wireless local area network

type a computer network that acts as a local area network but makes use of wireless network technology like wifi

component wlan

wifi, wifi access point, wifi adapters

wide area network

wan is type a of computer network that connects computers routers switches and modem

network topology is a efines te structures of the networksdjifbuidsf

logical network physical topology is the placement of various network components where as logical topology describes how data flows in the network. the visuals from these topology will look identical

bus topology

where each computer and network device is connected to single cable or backbone.

advantages

low cost cable, moderate data speed, familiar technologies, limited failure

disadvantages

extensive cabling, difficult troubleshooting, signal interference, reconfiguration difficult, attenuation.

ring topology

is network architecture which devices are connected in a ring structure and send information to each other based on their ring node or neighbor

advantages

network management, product availability, cost, reliable

disadvantages difficult troubleshooting, failure, reconfiguration difficult, delay

star topology

is network topology in which each network component is physically connected to a central node such as a router

advantages

efficient troubleshooting, network control, limited failure, familiar technology, easily expandable, cost effective, high data speeds

disadvantages

cable, a central point failure

tree topology

is a special type of structure where many connected elements are arranged like the branches of a tree.

advantages

support for broadband transmission, easily expandable, easily manageable, error detection, limit failure, point to point wiring

disadvantages

difficult troubleshooting, high cost, failure, reconfiguration difficult

mesh topology

is a network setup where each computer and network device is interconnected with one another

advantages

reliable, fast communication, easier reconfiguration

disadvantages

cost, management, efficiency

network devices

are physical devices that are required for communication

router

is a device that connects two or more packet switched networks or subnetworks

wireless access point

is a access point that creates a wireless local area network or wlan

modem is a hardware device that connects a computers or router broadband

repeater

Network device that retransmits a received signal with more power than what would be capable with the original signal.

bride

network device that create single, aggregate network from multiple communication networks or network segments

switch a device in a computer network that connect other device together

hub same with switch, is device which is used to connect multiple devices in a network