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of the star-bus network, in which star networks are connected to each other by means of a bus network. In a tree topology, nodes are hierarchically linked to each other and are therefore also called hierarchical topology. Advantages Flexibility. Scalable; Easily add or remove nodes. Suitable for large networks. Easy to manage. Costly disadvantages. Complex for design and maintenance, operations and others.

Each topology we discussed above has its advantages and disadvantages. Therefore, the key to creating and configuring the appropriate network model is subjective. For any business, it is very important to first collect all the requirements and needs before adopting any particular network topology. Featured Photo: Shutterstock Post Views: 23,057 report this ad Home » Network Topology. A network Topology is the layout of connections (links, nodes, etc.) of a computer network. There are two main names used - such as ring or star - there are only rough descriptions. Computers on your home network can be circled, but that doesn't necessarily mean that it represents a ring network. Basic topology types There are seven basic topology: Point-to-point topology topology (point) topology Star ring topology Tree topology Tree topology Tree topology Full/partial grid topology Which one is selected depends on what devices need to be connected, how reliable it must be, and the cost associated with wiring. Physical topology The shape of the wiring system used to connect devices is called a physical network topology. This refers to the way cables are arranged to connect multiple computers to a single network depends on: Office layout troubleshooting techniques Cost of cable usage Cable type Physical topology types Mapping network nodes and physical connections between them — wiring layout, cables, node locations, and connections between nodes and the wiring or cabling system. Point-to-point topologies are the basic model of conventional telephony. The value of a point-to-point constant network is a guaranteed value, or almost so, communication between two endpoints. The value of an on-demand point-to-point connection is proportional to the number of potential pairs of subscribers, and has been expressed as Metcalfe's Law. The (dedicated) easiest-to-understand, variations of point-to-point topology, is a point-to-point communication channel that seems, for the user, to be permanently associated with two endpoints. One example is a phone with a children's can, and a microphone for one public speaker is another. These are examples of physical dedicated channels. In many switchable telecommunications systems it is possible to establish a fixed circuit. One example could be a phone in the lobby of a public building, which is programmed to ring only the number of the telephone dispatcher. Nailing a switched connection saves the cost of starting a physical circuit between two points. Resources in this combination can be when you do not needed, for example, a TV track with a parade route back to the studio. Switched: Using circuit switching or packet switching technology, point-to-point circuit can be configured dynamically and dropped when no longer needed. This is the basic mode of conventional telephony. Bus In local networks where the bus topology is used, each machine is connected to a single cable. Each computer or server is connected to a single bus cable through a connector. A terminator is required at each end of the bus cable to prevent the signal from bouncing back and forth on the bus cable. The signal from the source moves in both directions to all machines connected on the bus cable until it finds the MAC address or IP address on the network that is the intended recipient. If the computer address does not match the intended data address, the device ignores the data. Alternatively, if the data is accepted. Since the bus topology consists of only one wire, it is cheap to implement compared to other topology. However, network management comes at a higher cost. In addition, because only one cable is used, if the network cable breaks, the entire network will shut down Star On local network host (for example, a computer) is connected to a central hub with a point-to-point connection. All network traffic passes through the central node. The hub acts as a signal amplifier or repeater. Star topology is that it may need a lot more cables, and if the hub breaks down, everything will stop working. And if you want to pass information to only one computers interact with each other, and the information will be shared with all computers. information cannot be shared with a single computer in this topology. Ring Home: Ring Network Topology, which is configured in a circular way where data moves around the ring in one direction, and each device on the right acts as a repeater to maintain a strong signal while traveling. Each device contains an incoming signal receiver and transmitter to send data to the next device in the ring. The network depends on the signal's ability to move around the ring. Home: Mesh Network Fully connected grid topology The number of connections in a full grid network of n nodes is = n(n - 1) / 2. A fully connected mesh topology is generally too expensive and complicated for Network. It was used on networks with a small number of nodes. Partially Linked Grid Topology Network Topology Network Topology Type some network nodes are connected to more than one node on the network by using a point-to-point link— this allows you to take advantage of some of the redundancy provided by a physical fully connected mesh topology, all data sent between nodes on the network has the shortest path between nodes. The network used a longer alternate path in the event of a failure or interruption in one of the links. This requires network nodes to have some kind of logical routing algorithm to determine the correct path to use at any given time. A tree also known as a hierarchy network. A type of network topology in which the central root node (the highest level of the hierarchy) is connected to one or more other nodes that are one level lower in the hierarchy (i.e. at the second level) with a point-to-point link between each of the second-level nodes and the central top-level root node. Each of the second-level nodes that are connected to the central top-level root node will also have one or more other nodes that are one level lower in the hierarchy (i.e. the third level) connected to it, also with a point-to-point link, the top-level central root node is the only node that does not have another node above it in the hierarchy (the tree hierarchy is symmetric). Each node in a fixed-numbered network, nodes connected to it at the next lower level in the hierarchy, number, is referred to as the branching factor of the hierarchical tree. This tree has individual peripheral nodes. Logical Topology Logical topology describes how a network transmits information from a network/computer to another, not how the network looks or is deployed. The logic also describes the different speeds of cables used from one network to another. A logical topology, as opposed to a physical one, is wignals to run on network media, or the way that data passes through the network from one devices. A network logical topology is not necessarily the same as its physical topology. For example, a twisted Ethernet pair is a logical bus topology in a physical star topology system. While the IBM Token Ring is a logical ring topology, it is physically configured in a star topology typically proceeds according to the same classifications as in the physical classifications of a network topology, but describes the path that data takes between nodes used as opposed to actual physical connections between nodes. Notes: Logical topologies are often closely media access control methods and protocols. Logical topologies are typically determined by network protocols, as opposed to those determined by the physical arrangement of cables, wires and network devices, or by the flow of electrical signals, although in many cases the paths that electrical signals take between nodes can closely correspond to the logical flow of data, hence the convention of using the terms logical topology and signal topology interchangeably. Logical topologies can be dynamically reconfigured by special device types, such as routers and switches. Daisy Chains Except for star-based networks, the easiest way to add more computers to your network is to daisy-chain or connect each computer in series to the next. If the message is intended for a mid-line computer, each system bounces it in sequence until it reaches its destination. A chain network can take two basic forms: linear and annuity. Centralization Of Star Topology reduces the likelihood of network failure by connecting all peripheral nodes (computers, etc.) to the central node. When a central star topology is applied to a logical bus network, such as Ethernet, this central node (traditionally a hub) retransmissions all transmissions all transmissions all transmissions received from any peripheral node to all peripheral nodes on the network, sometimes including the source node. Therefore, all peripheral nodes can communicate with everyone else, sending only to and from the hub node. Failure of the transmission line connecting any peripheral node from all others, but the remaining peripheral nodes will remain intact. However, the disadvantage is that failure of the central node will cause all peripheral nodes to crash as well, if the hub node is passive, the source node must be able to tolerate echo reception of its own transmission, delayed by two-way round-trip transmission time (i.e. to and from the central node) plus any delays generated on the hub node. The active star network has an active central node, which usually has the means to prevent echo-related problems. A tree topology (aka hierarchical topology) can be seen as a collection of star networks arranged in a hierarchy. This tree has individual peripheral nodes (such as leaves) that are required to be transferred and received from only one node and are not required to act as repeaters or regenerators. Unlike a stellar network, individual nodes can therefore continue to be isolated from the network by a single-point failure of the transmission path to the node. If the link connecting the leaf does not up, this leaf is isolated; if the connection not covered by the is isolated from the rest. To mitigate the amount of network traffic that comes from transmitting all signals to all nodes, more advanced central nodes have been developed that are able to track the identities of nodes that are connected to the network layout by listening on each port during normal data transmission, examining data packets, and recording the address/ID of each connected node and the port to which it is connected in the lookup table stored in memory. This related table then allows future transmissions to be forwarded only to the intended destination. Decentralization In a mesh topology (i.e. a partially linked mesh topology), there are two or more nodes with two or more paths between them to provide redundant paths to use if a link containing one of the paths fails. This decentralization is often used to compensate for a single point failure defect that occurs when using a single device as a central node (e.g. in networks of stars and trees). A special type of mesh that limits the number of hops between two nodes is a hypercube. The number of arbitrary forks in mesh network makes them more difficult to design and implement, but their decentralized nature makes them very useful. This is similar in some ways to a network network where a linear or annuity topology is used to connect systems in multiple directions. For example, a multidimensional ring has a toroid topology, or full grid topology is a network topology in which there is a direct connection between all pairs of nodes. In a fully connected network with n nodes, there are n(n-1)/2 direct links. Networks designed with this topology are typically very expensive to configure, but provide a high degree of reliability due to the multiple paths for data that are provided by a large number of redundant links between nodes. This topology is most common in military applications. However, it can also be seen in the files sharing protocol BitTorrent in which users connect to other users also involved. Often in real use BitTorrent a given node is rarely connected to any other node as in a real fully connected network, but the protocol allows the ability of one node to connect to any other node when sharing files. Hybrid hybrid networks use a combination of two or more topology in such a way that the resulting network does not show one of the standard topology (e.g. bus, star, ring For example, a tree network connected to a tree network is still a tree network, but two star networks connected to each other show a hybrid network are the star ring network and the Star Ring Network Ring Network A ring network consists of two or more star topology connected by a multi-core access unit (MAU) as a centralized hub. The Star Bus network consists of two or more stars connected by the bus trunk (the bus trunk serves as the backbone of the network). Tendaishe Sigauke, (2007: 46) Explanation of tendaishe sigauke network terms, (2007: 46) Explanation of network terms Images for children Fiber optic cables are used to transmit light from one computer / network node to another 2007 map showing undersea fiber optic telecommunications cables around the world. Personal computers are very often connected to the network using wireless connections ATM interfaces are built-in. Typical home router or small office router with ADSL and Ethernet phone line connections

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