Key Definitions

Class of 2022

Network Basics

Network Audit and Network Assessment

Network assessments are used to examine your IT infrastructure and identify any potential areas for improvement or concern. They touch on topics such as bandwidth bottlenecks, network security flaws, and under and over-utilized resources. network assessment can help organizations remedy networking issues that have been plaguing their networks, applications, dampening performance, or causing additional risks and security concerns. Assessment reports are used for specific recommendations on how to improve network performance, increase network security, and reduce costs – all with the goal of maximizing the IT infrastructure and underlying network.

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| TCP/IP Protocol Suite | TCP/IP Protocol Suite |
| Topology | Topology: Topology is the term used to describe how devices are connected and how messages flow from device to device. |
| LAN | LAN Topology: Topology is the term used to describe how devices are connected and how messages flow from device to device. The physical topology describes the way the network is wired. The logical topology describes the way messages are sent.  LAN: LAN is the acronym for local area network. A LAN is a computer network that interconnects computers within a limited area.  Terminator: Terminators absorb signals and prevent them from reflecting repeatedly back and forth on the cable. Terminators are used with the Bus topology. |
| Network Topologies | |  |  |  |  | | --- | --- | --- | --- | | Types | Description | Comments |  | | Physical |  |  |  | | Logical |  |  |  | |  |  |  |  | |
| Class Discussion | 1. What is defined by the logical topology? 2. How does the logical topology differ from the physical topology? 3. Why can a single physical topology support multiple logical topologies? 4. Why is a physical mesh topology normally an impractical solution? 5. What advantage does the logical star topology have as compared to the logical bus topology? 6. Why is termination important on a physical bus topology? 7. How do hosts on a physical ring topology communicate? |
| What is a Server? | Physical computer  Specific network service |