

Networking

1. What is the difference between a LAN & a WAN?
2. Name the 7 layers of the OSI stack. (Application, Presentation, Session, Transport, Network, Data Link, and Physical)
3. Explain the difference between TCP & UDP. (guaranteed delivery vs. not guaranteed)
4. Can you name a couple of Layer 2 (Data Link) protocols? (Ethernet, FDDI, ATM, etc.)
5. "" Layer 7 (Application)? (telnet, ftp, smtp, snmp, etc.)

Networking Questions:

1. Describe at a high level how two devices communicate over a network.
2. Difference between switching and routing.
3. What are some of the routing protocols typically in use in a network.

ISO Model: 7 layers and their functions, practical considerations (i.e., what layers are really used), how various popular protocols fit in (e.g., TCP, UDP, ICMP, IP, Ethernet, Frame Relay, ATM)

Networking devices: functions of repeaters, routers, bridges, switches

Network Management

6. Explain what SNMP does (n/w mgmt. protocol for communicating with devices)
7. What is the function of a community string? (security)
8. Network management involves periodically polling different n/w elements to see if they are still up and healthy. As the number of elements polled increases, what problems would you expect to encounter? (when to mark a device down if it doesn't respond, impact on management system, etc.)
9. Network management also involves figuring out what type of device you're dealing with. How do you do that?

Network Management:

1. Please define what network management is.
2. What is the role of SNMP within network management.
3. What is a SNMP MIB.
4. What particular challenges do you see in managing a network?
5. Describe the architecture of an SNMP agent.
6. How is the SNMP protocol used to interact with the agent?

Network Management: problems associated with networking (e.g., FCAPS),
Network Management protocols (SNMP, DMI, WBEM, CIM)

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