

98-366^{Q&As}

Networking Fundamentals

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QUESTION 1

One reason to incorporate VLANs in a network is to:

- A. Increase the number of available IP addresses.
- B. Increase the number of available Media Access Control (MAC) addresses.
- C. Reduce the number of broadcast domains.
- D. Reduce the number of nodes in a broadcast domain.

Correct Answer: D

VLANs provide the following advantages:

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VLANs enable logical grouping of end-stations that are physically dispersed on a network. ...

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VLANs reduce the need to have routers deployed on a network to contain broadcast traffic. ...

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Confinement of broadcast domains on a network significantly reduces traffic.

By confining the broadcast domains, end-stations on a VLAN are prevented from listening to or receiving broadcasts not intended for them. Moreover, if a router is not connected between the VLANs, the end-stations of a VLAN cannot communicate with the end-stations of the other VLANs.

QUESTION 2

What are two differences between switches and hubs? (Choose two.)

- A. Switches are slower than hubs because of the extra addressing functions that switches perform.
- B. Switches send data to all of the computers that are connected to them for efficiency.
- C. Switches are capable of sending and receiving data at the same time.
- D. Switches identify the intended destination of the data that they receive.

Correct Answer: AD

Hubs repeat everything they receive and can be used to extend the network.

Switches control the flow of network traffic based on the address information in each packet. A switch learns which devices are connected to its ports (by monitoring the packets it receives), and then forwards on packets to the appropriate port

only. This allows simultaneous communication across the switch, improving bandwidth.

QUESTION 3

Attenuation in a wireless network signal is a result of:

- A. Number of wireless nodes connected.
- B. Distance from the access point.
- C. Interference from cellular phones.
- D. Encryption of the signal.

Correct Answer: B

Solid objects greatly attenuate (reduce) Wi-Fi radio signals, so clear line of sight is best.

QUESTION 4

To directly connect the Ethernet network interface cards (NICs) of two computers, you should use a: A. Crossover cable

- B. Straight cable
- C. Rollover cable
- D. Coaxial cable

Correct Answer: A

An Ethernet crossover cable is a type of Ethernet cable used to connect computing devices together directly. Normal straight through cables were used to connect from a host network interface controller (a computer or similar device) to a network switch, hub or router.

QUESTION 5

What type of DNS record maps host names to addresses?

- A. Mail Exchanger (MX) DNS record
- B. Service (SRV) DNS record
- C. Host (A) DNS record
- D. Canonical (CNAME) DNS record

Correct Answer: C

An A or Address record (also known as a host record) links a domain to the physical IP address of a computer hosting that domain's services.

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