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QUESTION 1:

Both switches and hubs are being utilized within the Certkiller network. Which of the following is true regarding the use of switches and hubs for network connectivity in this network?

- A. Switches take less time to process frames than hubs take
- B. Hubs can filter frames
- C. Switches do not forward broadcasts
- D. Switches increase the number of collision domains in the network
- E. Using hubs can increase the amount of bandwidth available to hosts
- F. None of the above

Answer: D

Explanation:

The biggest benefit of using switches instead of hubs in your internetwork is that each switch port is actually its own collision domain. (Conversely, a hub creates one large collision domain.) But even armed with a switch, you still can't break up broadcast domains. Neither switches nor bridges will do that. They'll typically simply forward all broadcasts instead. Switch creates the collision domain per port, so we can say switch increase the number of collision domains.

QUESTION 2:

Which one of the following characteristics is true regarding the use of hubs and switches?

- A. Hubs can have their ports be configured with VLANs
- B. Using hubs is costly with regard to bandwidth availability.
- C. Switches can not forward broadcasts.
- D. Switches are more efficient than hubs in processing frames.
- E. Switches increase the number of collision domains in the network.

Answer: E

Explanation: Switches increases the number of collisions domains in the network. Switches that are configured with VLANs will reduce the size of the collision domains by increasing the number of collision domains in a network, but making them smaller than that of one big, flat network.

Incorrect Answers:

- A. Switches are capable of VLAN configurations, but hubs are not.
 - B. Hubs are generally the least costly method possible to connect multiple devices together in a network.
 - C. Switches forward broadcasts and multicasts, by default, to all ports within the same VLAN. Only routers block all broadcast traffic by default.
 - D. Switches and hubs can be equally efficient in processing frames, in theory. In practice, switches are generally more efficient as they usually have more CPU and memory allocated to them, and are generally much more expensive than a simple hub.
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QUESTION 3:

When comparing and contrasting the similarities and differences between bridges and switches, which of the following are valid statements? Choose all the valid answer choices)

- A. Bridges are faster than switches because they have fewer ports.
- B. A switch is a multiport bridge,
- C. Bridges and switches learn MAC addresses by examining the source MAC address of each frame received.
- D. A bridge will forward a broadcast but a switch will not.
- E. Bridges and switches increase the size of a collision domain.
- F. None of the above statements are true.

Answer: B, C

Explanation:

Both bridges and switches build the bridge table by listening to incoming frames and examining the source MAC address in the frame.

Switches are multiport bridges that allow you to create multiple broadcast domains. Each broadcast domain is like a distinct virtual bridge within a switch.

Incorrect Answers:

- A. Switches are generally faster than bridges. Bridges also do not necessarily have fewer ports than switches.
 - D. Both bridges and switches will forward broadcast and multicast traffic, assuming that the traffic remains in the same VLAN.
 - E. The use of VLANs in a switch can decrease the size of the collision domain, by creating additional, smaller collision domains.
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QUESTION 4:

Which of the following correctly describe the various functions and virtues of a router? (Select all valid answer choices)

- A. Packet switching
- B. Collision prevention on a LAN segment.
- C. Packet filtering
- D. Broadcast domain enlargement
- E. Broadcast forwarding
- F. Internetwork communication
- G. None of the above

Answer: A, C, F

Explanation:

The main function of a router is to connect different, separated networks together. In doing so, switching packets from one network to another is a primary function, along with providing for communication between networks. As an additional feature, routers are capable of providing filtering on a network address and application port level, so choice C is also correct.

Incorrect Answers:

- B. Routers can indeed be used to segment a network separate a collision domain, since routers do not forward LAN broadcasts and multicasts to other interfaces. However, routers alone can not prevent all collisions from occurring on any given LAN segment.
- D. Routers actually segment LANs into smaller broadcast domains.
- E. Routers do not forward broadcast and multicast traffic out the additional interfaces by default. Unless bridging or IP helpers are configured on the router, LAN broadcasts are blocked at the router level.

QUESTION 5:

The LAN needs are expanding at the Certkiller corporate office, which is quickly growing. You are instructed to enlarge the area covered by a single LAN segment on the Certkiller network.

Which of the following are layer 1 devices that you can use? (Choose all that apply.)

- A. A switch
- B. A router
- C. A network adapter card
- D. A hub
- E. A repeater

Answer: D, E

Explanation:

A hub simply repeats the electrical signal and makes no attempt to interpret the electrical signal (layer 1) as a LAN frame (Layer 2). So, a hub actually performs OSI layer 1 functions, repeating an electrical signal, whereas a switch performs OSI layer 2 functions, actually interpreting Ethernet header information, particularly addresses, to make forwarding decisions. Hubs can be used to increase the number of stations that can be supported on a LAN.

Because the repeater does not interpret what the bits mean, but does examine and generate electrical signals, a repeater is considered to operate at Layer 1. Repeaters can be used to physically extend the LAN to greater distances.

QUESTION 6:

Cisco is the leader in the router market space. What basic functions do their routers perform in a network? (Choose two)

- A. The microsegmentation of broadcast domains
- B. Path selection
- C. Packet switching
- D. Bridging between LAN segments
- E. Access layer security
- F. VLAN membership assignment
- G. Application optimization

Answer: B, C

Explanation:

The primary functions of a router are: Packet Switching and Path Selection. It is the routers job to determine the best method for delivering the data, and switching that data as quickly as possible.

QUESTION 7:

Both bridges and switches are being used throughout the Certkiller LAN. Which of the following statements are true regarding bridges and switches in this network? (Choose 3)

- A. Switches are primarily software based while bridges are hardware based.
- B. Switches usually have a higher number of ports than most bridges.
- C. Bridges are frequently faster than switches.
- D. Bridges define broadcast domains while switches define collision domains.
- E. Both bridges and switches forward Layer 2 broadcasts.
- F. Both bridges and switches make forwarding decisions based on Layer 2 addresses.

Answer: B, E, F

QUESTION 8:

As a network administrator, you will need to decide on the appropriate network devices to use. Which of the following correctly describes the roles of devices in a WAN? (Choose three)

- A. A CSU/DSU terminates a digital local loop.
- B. A router is commonly considered a DCE device.
- C. A modem terminates an analog local loop.
- D. A router is commonly considered a DTE device.
- E. A modem terminates a digital local loop.
- F. A CSU/DSU terminates an analog local loop.
- G. A modem is used to terminate a T1

Answer: A, C, D

Explanation:

Layer 2 switching is considered hardware-based bridging because it uses specialized hardware called an application-specific integrated circuit (ASIC). ASICs can run up to gigabit speeds with very low latency rates. Switches usually have higher port number than bridge. Generally bridges have two ports. Both operates on Data link layer.

QUESTION 9:

The Certkiller network administrator needs to determine what LAN devices to install on the Certkiller network. What are two advantages of using Layer 2 Ethernet switches over hubs? (Choose two)

- A. Allowing simultaneous frame transmissions
- B. Increasing the size of broadcast domains
- C. Increasing the maximum length of UTP cabling between devices
- D. Filtering frames based on MAC addresses
- E. Decreasing the number of collision domains

Answer: A, D

Explanation:

A: A half duplex connection is where only one device can send or receive at a time. A

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