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QUESTION 1

Which of the following ports is used for secure email?

A. 25

B. 110

C. 143

D. 587

Correct Answer: D

Port 587 is typically used for secure email submission, specifically for sending emails securely using the SMTP (Simple Mail Transfer Protocol) with TLS (Transport Layer Security) or SSL (Secure Sockets Layer) encryption. It\\'s commonly used as an alternative to port 25 for secure mail submission by mail clients or applications.

QUESTION 2

A network administrator plans to install network connectivity at a new remote office location. The administrator is concerned about how to troubleshoot network connectivity issues and reconfigure the remote router. The technician should use:

A. an SD card with a backup configuration

B. a TFTP server on the main network for backup configurations

C. a modem using POTS.

D. a second Ethernet interface for remote access.

Correct Answer: A

QUESTION 3

Due to a surge in business, a company is onboarding an unusually high number of salespeople. The salespeople are assigned desktops that are wired to the network. The last few salespeople to be onboarded are able to access corporate materials on the network but not sales-specific resources. Which of the following is MOST likely the cause?

A. The switch was configured with port security.

B. Newly added machines are running into DHCP conflicts.

C. The IPS was not configured to recognize the new users.

D. Recently added users were assigned to the wrong VLAN

Correct Answer: D

In this scenario, the salespeople are assigned desktops that are wired to the network. The fact that the salespeople can

access corporate materials on the network suggests that their desktops are able to communicate with the network. However, they cannot access sales-specific resources, which could be an indication that they have been assigned to the wrong VLAN.

VLANs are used to segment a network into smaller logical pieces, which helps to improve security and network performance. VLANs are often used to group devices by function, department, or location. When a new group of users, such as the salespeople in this scenario, is added to a network, they need to be assigned to the appropriate VLAN to access resources that are specific to their role.

If the recently added users were assigned to the wrong VLAN, they would not be able to access resources that are specific to their role. In this case, it is likely that the desktops were configured to use the wrong VLAN, which is preventing the salespeople from accessing sales-specific resources.

QUESTION 4

A network engineer is investigating reports of poor performance on a videoconferencing application. Upon reviewing the report, the engineer finds that available bandwidth at the WAN connection is low. Which of the following is the MOST appropriate mechanism to handle this issue?

A. Traffic shaping

B. Flow control

C. NetFlow

D. Link aggregation

Correct Answer: A

Traffic shaping is a network management technique that controls the flow of network traffic to ensure that certain types of traffic are given higher priority over others. In this case, by implementing traffic shaping, the network engineer can prioritize and allocate sufficient bandwidth for the videoconferencing application to ensure its performance and quality.

QUESTION 5

Which of the following protocols uses Dijkstra\\'s algorithm to calculate the LOWEST cost between routers?

A. RIP

B. OSPF

C. BGP

D. EIGRP

Correct Answer: B

OSPF stands for Open Shortest Path First and is a link-state routing protocol that uses Dijkstra\\'s algorithm to calculate the lowest cost between routers. OSPF assigns a cost value to each link based on factors such as bandwidth, delay, or

reliability, and builds a map of the network topology. OSPF then uses Dijkstra\\'s algorithm to find the shortest path from each router to every other router in the network1. RIP stands for Routing Information Protocol and is a distance-vector

routing protocol that uses hop count as the metric to find the best path. BGP stands for Border Gateway Protocol and is a path-vector routing protocol that uses attributes such as AS path, local preference, or origin to select the best route.

EIGRP stands for Enhanced Interior Gateway Routing Protocol and is a hybrid routing protocol that uses a composite metric based on bandwidth, delay, load, and reliability.

References: Dijkstra\\'s algorithm - Wikipedia (https://en.wikipedia.org/wiki/Dijkstra%27s_algorithm)

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