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QUESTION 1

While troubleshooting a network, a VoIP systems engineer discovers a significant inconsistency in the amount of time required for data to reach its destination and return. Which of the following terms BEST describes this issue?

- A. Bandwidth
- B. Latency
- C. Jitter
- D. Throughput

Correct Answer: C

Jitter refers to the variation in packet arrival time at the receiving end. It can result in the loss of data packets or poor voice quality in VoIP systems due to the irregular delivery of data. Jitter is a significant concern for real-time applications such as VoIP, video conferencing, and online gaming, as it can cause delays and disruptions in communication.

Bandwidth (option A) refers to the capacity of a network to transmit data. Latency (option B) is the time delay between the sending of a data packet and the receiving of a response. Throughput (option D) refers to the actual amount of data that is successfully transmitted over a communication channel. While all these factors are important in network performance, the inconsistency described in the scenario points to the issue of jitter.

QUESTION 2

An engineer is troubleshooting poor performance on the network that occurs during work hours. Which of the following should the engineer do to improve performance?

- A. Replace the patch cables.
- B. Create link aggregation.
- C. Create separation rules on the firewall.
- D. Create subinterfaces on the existing port.

Correct Answer: B

If the poor network performance is happening during work hours, it could be due to high network traffic. Therefore, to improve performance, the engineer should create link aggregation to increase the available bandwidth

QUESTION 3

Which of the following is most likely to be implemented to actively mitigate intrusions on a host device?

- A. HIDS
- B. NIDS
- C. HIPS

D. NIPS

Correct Answer: C

HIPS is designed to operate on individual host devices (like workstations, servers, etc.) and can actively prevent and mitigate intrusions. It not only detects malicious activities but also has the capability to automatically take action against these threats, such as blocking network traffic or quarantining malware.

QUESTION 4

A technician is connecting a Cat 6 Ethernet cable to a device that only has LC ports. Which of the following will the technician MOST likely use to accomplish this task?

- A. A bridge
- B. A media converter
- C. A repeater
- D. A router

Correct Answer: B

The technician would MOST likely use a media converter to connect the Cat 6 Ethernet cable to a device that only has LC ports.

Media converters are devices that convert one type of network media to another, such as converting fiber optic signals to copper Ethernet signals. In this case, the media converter would convert the Cat 6 Ethernet cable signals to the fiber optic signals required by the device's LC ports.

QUESTION 5

A junior technician deployed new computers in a company, and users are reporting issues with file transfers to network shares being slower than with the previous computers. The network administrator verifies the switch's gigabit ports are set to autonegotiate. Which of the following should the administrator perform NEXT to determine the issue?

- A. Change the default gateway on the new computers.
- B. Update the drivers for the NIC cards.
- C. Move the computers to a different VLAN.
- D. Determine if the NIC speed on the computers is configured correctly.

Correct Answer: D