V4.2.1 - Quiz- Network Resource Issues

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Monday December 25, 2023
Seat 99 (Grade level 13)
Cyber Capstone

1. What is the purpose of Quality of Service (QoS) settings in a network?
A. To identify and troubleshoot SSL/TLS connections.
B. To allocate bandwidth based on organizational priorities.
C. To address interface errors in networking.
D. To resolve name resolution issues.
Answer:

2. What issue can arise from misconfigurations in Virtual LANs (VLANs)?
A. Dropped packets.
B. Subnetting problems.
C. Segmentation problems leading to communication issues between devices in different VLANs.
D. High latency.
Answer:

3. What is the role of firewalls in a network?
A. To allocate bandwidth based on organizational priorities.
B. To manage the flow of data between storage devices and the system.
C. To act as a barrier between a trusted internal network and untrusted external networks, controlling incoming and outgoing network traffic.
D. To troubleshoot SSL/TLS connections.
Answer:

4. What is a common cause of collisions in half-duplex Ethernet environments?
A. Transition to full-duplex mode.
B. Network congestion.
C. Use of switches instead of hubs.
D. Two devices attempting to transmit data simultaneously.
Answer:

5. What is the primary purpose of the Nmap tool?
A. Scanning remote systems, identifying open ports, and detecting services.
B. Testing SSL/TLS connections.
C. Troubleshooting interface errors.
D. Allocating bandwidth based on organizational priorities.
Answer:

6. What can cause dropped packets in a network?
A. Transition to full-duplex mode.
B. Collisions in half-duplex Ethernet environments.
C. Allocation of bandwidth based on organizational priorities.
D. Buffer overflow, congestion, or errors in the data.
Answer:

7. What issue can arise if DNS servers are unavailable or experiencing downtime?
A. VLAN misconfigurations.
B. Communication issues due to failed name resolution requests.
C. Dropped packets.
D. Outdated firewall software.
Answer:

8. What is the primary function of the openssl s_client tool?
A. Scanning remote systems and identifying open ports.
B. Allocating bandwidth based on organizational priorities.
C. Initiating an SSL/TLS handshake with a remote server and testing SSL/TLS connections.
D. Troubleshooting interface errors.
Answer:

9. What is the purpose of testing remote systems using Nmap and openssl s_client?
A. Troubleshooting name resolution issues.
B. Identifying open ports and detecting services.
C. Resolving subnetting problems.
D. Troubleshooting interface errors.
Answer:

10. What can high latency in a network result in?

A. Slow upload or download speeds.

B. VLAN misconfigurations.

C. Reduced overall network performance and slower response times.

D. Communication failures due to inaccurate DNS configurations.

Answer: