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QUESTION 1

A network technician is troubleshooting a connection to a local server and has verified that the RDP service is running on the server. After running a command, the technician receives the following output:

Proto	Local Address	Foreign Address	State
TCP	10.10.10.42:51421	10.10.10.7:3389	SYN_SENT

Which of the following MOST likely describes the issue?

- A. A host-based firewall on the server is blocking the connection.
- B. Too many collisions are occurring on the network segment.
- C. A DoS attack is occurring locally.
- D. A routing loop is in the network.

Correct Answer: A

QUESTION 2

A company has multiple site-to-site VPN connections using a pre-shared key. The Chief Information Security Officer (CISO) is concerned about the long-term security of the tunnels and has asked the network technicians to develop a plan to ensure the best security of the tunnels. Which of the following should the network technicians implement?

- A. Purchase dedicated MPLS circuits between each of the sites.
- B. Request a change of IP addresses from the ISP semiannually.
- C. Perform annual key rotations on the site-to-site VPNs.
- D. Terminate tunnels when they are not actively being used.

Correct Answer: C

QUESTION 3

A user is having difficulty with video conferencing and is looking for assistance.

Which of the following would BEST improve performance?

- A. Packet shaping
- B. Quality of service
- C. Port mirroring

D. Load balancing

Correct Answer: B

Quality of service (QoS) is a mechanism that prioritizes network traffic based on different criteria, such as application type, source and destination address, port number, etc., and allocates bandwidth and resources accordingly. QoS would best improve performance for video conferencing, as it would ensure that video traffic gets higher priority and lower latency than other types of traffic on the network. Packet shaping is a technique that controls the rate or volume of network traffic by delaying or dropping packets that exceed certain thresholds or violate certain policies, which may not improve performance for video conferencing if it causes packet loss or jitter. Port mirroring is a technique that copies traffic from one port to another port on a switch for monitoring or analysis purposes, which does not improve performance for video conferencing at all. Load balancing is a technique that distributes network traffic across multiple servers or devices for improved availability and scalability, which does not

QUESTION 4

Which of the following technologies requires a username and password to authenticate to a backbone network?

- A. PPPoE
- B. MPLS
- C. ATM
- D. SIP

Correct Answer: A

QUESTION 5

Which of the following should be used to manage outside cables that need to be routed to various multimode uplinks?

- A. Fiber distribution panel
- B. 110 punchdown block
- C. PDU
- D. TIA/EIA-568A patch bay
- E. Cat 6 patch panel

Correct Answer: A

A fiber distribution panel is a device that provides a central location for connecting and managing fiber optic cables and optical modules. It can support various types and speeds of fiber optic links, including multimode uplinks. Therefore, a fiber distribution panel should be used to manage outside cables that need to be routed to various multimode uplinks.