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QUESTION 1

A network engineer performed a migration to a new mail server. The engineer changed the MX record, verified the change was accurate, and confirmed the new mail server was reachable via the IP address in the A record. However, users are not receiving email.

Which of the following should the engineer have done to prevent the issue from occurring?

- A. Change the email client configuration to match the MX record.
- B. Reduce the TTL record prior to the MX record change.
- C. Perform a DNS zone transfer prior to the MX record change.
- D. Update the NS record to reflect the IP address change.

Correct Answer: B

Understanding TTL (Time to Live):

[uk.co.certification.simulator.questionpool.PList@5e5842cf](https://www.uk.co.certification.simulator.questionpool.PList@5e5842cf) Impact of TTL on DNS Changes:

Best Practice Before Making DNS Changes:

Verification of DNS Changes:

Comparison with Other Options:

References:

CompTIA Network+ study materials and DNS best practices.

QUESTION 2

Which of the following is a cost-effective advantage of a split-tunnel VPN?

- A. Web traffic is filtered through a web filter.
- B. More bandwidth is required on the company's internet connection.
- C. Monitoring detects insecure machines on the company's network.
- D. Cloud-based traffic flows outside of the company's network.

Correct Answer: D

A split-tunnel VPN allows some traffic to be routed through the VPN while other traffic goes directly to the internet. This setup offers several advantages, with a primary one being cost-effectiveness due to cloud-based traffic not consuming company bandwidth.

Bandwidth Utilization: Split-tunnel VPNs reduce the amount of traffic passing through the company's network, freeing up bandwidth for other uses. **Performance:** By allowing internet-bound traffic to bypass the VPN, it can reduce latency



and

improve the performance for users accessing cloud services directly. Cost Savings: Reduced load on the company's VPN infrastructure can lead to lower costs in terms of both hardware and bandwidth.

Network References:

CompTIA Network+ N10-007 Official Certification Guide: Covers VPN types, including split-tunnel configurations and their advantages. Cisco Networking Academy: Discusses VPN technologies and the benefits of split-tunneling. Network+

Certification All-in-One guide: Provides detailed information on VPN setups, including the cost-effectiveness of split-tunnel VPNs. By allowing cloud-based traffic to flow outside the company's network, a split-tunnel VPN optimizes

resource usage and enhances the overall network performance without incurring extra costs for bandwidth.

QUESTION 3

The results of a recently completed site survey indicate a significant, undesired RSSI in the parking lot and other exterior areas near the main building. The wireless technician would like to mitigate access to the wireless network in exterior access areas. The current access point settings are listed in the following table:

Name	Power	Antenna type	Channel	SSID	Passphrase
AP1	High	Omnidirectional	1	Corp01	P\$ssw0rd
AP2	Medium	Omnidirectional	6	Corp01	P\$ssw0rd
AP3	Medium	Directional	9	Corp01	P\$ssw0rd

Which of the following is the BEST step for the technician to take to resolve the issue?

- A. Reconfigure AP2 and AP3 for non-overlapping channels.
- B. Implement directional antennas on AP1 and AP2.
- C. Raise the power settings on AP2 and AP3.
- D. Change the SSID on AP1 and AP2.

Correct Answer: B

QUESTION 4

Which of the following is used to estimate the average life span of a device?

- A. RTO
- B. RPO
- C. MTBF



D. MTTR

Correct Answer: C

Understanding MTBF:

uk.co.certification.simulator.questionpool.PList@3417c0b6 Calculation and Importance:

Comparison with Other Metrics:

Application:

References:

CompTIA Network+ study materials on reliability and maintenance metrics.

QUESTION 5

A network engineer configures a new switch and connects it to an existing switch for expansion and redundancy. Users immediately lose connectivity to the network. The network engineer notes the following spanning tree information from both switches:

Switch 1

Port State Cost 1 Forward 2 2 Forward 2

Switch 2

Port State Cost 1 Forward 2 2 Forward 2

Which of the following best describes the issue?

- A. The port cost should not be equal.
- B. The ports should use link aggregation.
- C. A root bridge needs to be identified.
- D. The switch should be configured for RSTP.

Correct Answer: C

The issue is that no root bridge has been identified. In STP, a root bridge is necessary to manage redundant paths and avoid loops in the network. Without a root bridge, all switches will assume they can forward traffic, causing a network loop and connectivity problems.

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