

# N10-008<sup>Q&As</sup>

CompTIA Network+

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### QUESTION 1

A network technician performs several switch commands to enable various advanced features on the switch in the accounting department. During the configuration changes, several users from this department report connectivity issues. Which of the following logs would the network technician need to analyze to troubleshoot the connectivity issues?

- A. Router logs
- B. History logs
- C. Startup/bootup config logs
- D. Event Viewer logs

Correct Answer: B

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### QUESTION 2

A store owner would like to have secure wireless access available for both business equipment and patron use. Which of the following features should be configured to allow different wireless access through the same equipment?

- A. MIMO
- B. TKIP
- C. LTE
- D. SSID

Correct Answer: D

The feature that should be configured to allow different wireless access through the same equipment is SSID (Service Set Identifier). SSID is a unique identifier that allows wireless devices to connect to a wireless network. By configuring multiple SSIDs, the store owner can provide separate wireless access for business equipment and patron use, while using the same wireless access points

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### QUESTION 3

Which of the following would be the BEST choice to connect branch sites to a main office securely?

- A. VPN headend
- B. Proxy server
- C. Bridge
- D. Load balancer

Correct Answer: A

Host-to-Site, or Client-to-Site, VPN allows for remote servers, clients, and other hosts to establish tunnels through a

VPN gateway (or VPN headend) via a private network. The tunnel between the headend and the client host encapsulates and encrypts data.

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#### QUESTION 4

Which of the following would be used to forward requests and replies between a DHCP server and client?

- A. Relay
- B. Lease
- C. Scope
- D. Range

Correct Answer: A

A relay would be used to forward requests and replies between a DHCP (Dynamic Host Configuration Protocol) server and client. In networking, a relay is a device that receives incoming messages and then forwards them to their destination. In the context of DHCP, a relay is a device that receives DHCP requests from clients on one network and then forwards them to the DHCP server on another network. This is useful when the client and server are not on the same network and cannot communicate directly. The relay helps to ensure that the client can still receive a valid IP address and other configuration information from the server.

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#### QUESTION 5

A customer runs a DNS lookup service and needs a network technician to reconfigure the network to improve performance. The customer wants to ensure that servers are accessed based on whichever one is topographically closest to the destination. If the server does not respond, then the next topographically closest server should respond. Which of the following does the technician need to configure to meet the requirements?

- A. Multicast addressing
- B. Anycast addressing
- C. Broadcast addressing
- D. Unicast addressing

Correct Answer: B

Anycast is a network addressing and routing methodology that directs data packets to the nearest or best-performing server among a group of potential servers.

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#### QUESTION 6

A technician is troubleshooting a wireless connectivity issue in a small office located in a high-rise building. Several APs are mounted in this office. The users report that the network connections frequently disconnect and reconnect throughout the day. Which of the following is the MOST likely cause of this issue?

- A. The AP association time is set too low

- B. EIRP needs to be boosted
- C. Channel overlap is occurring
- D. The RSSI is misreported

Correct Answer: C

Channel overlap can lead to interference and disrupt wireless connectivity. In a high-rise building with multiple access points (APs), it's common for neighboring APs to use overlapping channels. When this happens, it can result in co-channel interference, where the APs and client devices may interfere with each other's signals, causing disconnects and reconnects.

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#### QUESTION 7

A network administrator needs to monitor traffic on a specific port on a switch. Which of the following should the administrator configure to accomplish the task?

- A. Port security
- B. Port tagging
- C. Port mirroring
- D. Media access control

Correct Answer: C

Port mirroring is a feature that allows a network technician to monitor traffic on a specific port on a switch by copying all the traffic from that port to another port where a monitoring device is connected. Port mirroring can be used for troubleshooting, analysis, or security purposes, such as detecting network anomalies, performance issues, or malicious activities.

References: <https://www.comptia.org/training/books/network-n10-008-study-guide> (page 156)

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#### QUESTION 8

A network device needs to discover a server that can provide it with an IPv4 address. Which of the following does the device need to send the request to?

- A. Default gateway
- B. Broadcast address
- C. Unicast address
- D. Link local address

Correct Answer: B

The DHCP client sends broadcast request packets to the network; the DHCP servers respond with broadcast packets that offer IP parameters, such as an IP address for the client. After the client chooses the IP parameters, communication

between the client and server is by unicast packets.

"When a DHCP client boots up, it automatically sends out a DHCP Discover UDP datagram to the broadcast address, 255.255.255.255. This DHCP Discover message asks "Are there any DHCP servers out there?" The client can't send unicast traffic yet, as it doesn't have a valid IP address that can be used."

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#### QUESTION 9

A technician is investigating a SAN switch that has a high number of CRC errors. Which of the following is the MOST likely cause of the errors?

- A. Break in the fiber
- B. Bad switch port
- C. Mismatched duplex
- D. Memory errors

Correct Answer: A

CRC errors and/or late collisions can be caused by a duplex mismatch. When one site of a link is configured on full-duplex and the other on half-duplex you will see the CRC errors at the interface which is configured on full-duplex. This problem occurs also when one site of a link is configured on auto-duplex and the other fixed (full-duplex).

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#### QUESTION 10

A network administrator is troubleshooting a client's device that cannot connect to the network. A physical inspection of the switch shows the RJ45 is connected. The NIC shows no activity lights. The network administrator moves the device to another location and connects to the network without issues. Which of the following tools would be the BEST option for the network administrator to use to further troubleshoot?

- A. Tone generator
- B. Multimeter
- C. Optical time-domain reflectometer
- D. Cable tester

Correct Answer: D

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#### QUESTION 11

Several employees have expressed concerns about the company monitoring their internet activity when they are working from home. The company wants to mitigate this issue and reassure employees that their private internet activity is not being monitored. Which of the following would satisfy company and employee needs?

- A. Split tunnel

- B. Full tunnel
- C. Site-to-site tunnel
- D. Virtual desktop

Correct Answer: A

Split tunnel is a configuration that allows a remote user to access both the local network and the Internet at the same time. In a split tunnel configuration, only traffic destined for the corporate network is sent through the VPN tunnel, while all other traffic is sent directly to the Internet. This allows the remote user to access the Internet without the company's VPN server being able to monitor or intercept their traffic. Using a split tunnel configuration can help the company to mitigate employee concerns about internet activity being monitored and reassure employees that their private internet activity is not being monitored.

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#### QUESTION 12

Two network technicians are installing a fiber-optic link between routers. The technicians used a light meter to verify the correct fibers. However, when they connect the fibers to the router interface, the link does not connect. Which of the following would explain the issue? (Choose two.)

- A. They used the wrong type of fiber transceiver.
- B. Incorrect TX/RX polarity exists on the link
- C. The connection has duplexing configuration issues.
- D. Halogen light fixtures are causing interference.
- E. One of the technicians installed a loopback adapter.
- F. The RSSI was not strong enough on the link

Correct Answer: AB

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#### QUESTION 13

Which of the following architectures would allow the network-forwarding elements to adapt to new business requirements with the least amount of operating effort?

- A. Software-defined network
- B. Spine and leaf
- C. Three-tier
- D. Backbone

Correct Answer: A

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**QUESTION 14**

Users have reported an issue connecting to a server over the network. A workstation was recently added to the network and configured with a shared USB printer. Which of the following is most likely causing the issue?

- A. The switch is oversubscribed and cannot handle the additional throughput.
- B. The printer is tying up the server with DHCP discover messages.
- C. The web server's back end was designed for only single-threaded applications.
- D. The workstation was configured with a static IP that is the same as the server.

Correct Answer: D

If a workstation is configured with a static IP address that is the same as the server's IP address, it can lead to network conflicts and connectivity issues. This is known as an IP address conflict, where two devices on the same network have the same IP address.

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**QUESTION 15**

A network technician is troubleshooting an area where the wireless connection to devices is poor. The technician theorizes that the signal-to-noise ratio in the area is causing the issue. Which of the following should the technician do NEXT?

- A. Run diagnostics on the relevant devices.
- B. Move the access point to a different location.
- C. Escalate the issue to the vendor's support team.
- D. Remove any electronics that might be causing interference.

Correct Answer: D

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