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QUESTION 1

A technician is investigating why a PC cannot reach a file server with the IP address 192.168.8.129. Given the following TCP/IP network configuration:

Link-local IPv6 address	fe80::28e4:a7cc:a55e:4bea
IPv4 address	192.168.8.105
Subnet mask	255.255.255.128
Default gateway	192.168.8.1

Which of the following configurations on the PC is incorrect?

- A. Subnet mask
- B. IPv4 address
- C. Default gateway
- D. IPv6 address

Correct Answer: C

The default gateway is the IP address of the router that connects the PC to other networks. The default gateway should be on the same subnet as the PC's IPv4 address. However, in this case, the default gateway is 192.168.9.1, which is on a different subnet than the PC's IPv4 address of 192.168.8.105. Therefore, the default gateway configuration on the PC is incorrect and prevents the PC from reaching the file server on another subnet.

QUESTION 2

All packets arriving at an interface need to be fully analyzed. Which of the following features should be used to enable monitoring of the packets?

- A. LACP
- B. Flow control
- C. Port mirroring
- D. NetFlow exporter

Correct Answer: C

Port mirroring is a feature that can be used to enable monitoring of all packets arriving at an interface. This feature is used to direct a copy of all traffic passing through the switch to a monitoring device, such as a network analyzer. This allows the switch to be monitored with the network analyzer in order to identify any malicious or suspicious activity. Additionally, port mirroring can be used to troubleshoot network issues, such as latency or poor performance.

**QUESTION 3**

A technician is running new Cat 5e cables to a server room. Which of the following tools should the technician use to terminate the cables at the patch panel?

- A. Multimeter
- B. Cable crimper
- C. Toner probe
- D. Punchdown tool

Correct Answer: D

The correct tool to terminate the cables at the patch panel would be a Punchdown tool. The Punchdown tool is specifically designed for terminating Ethernet cables onto a patch panel or keystone jack. It allows the technician to push the

individual wires into the appropriate slots on the patch panel, ensuring proper connections and secure termination.

A cable crimper is used to attach connectors to the ends of cables, but it is not suitable for terminating cables at a patch panel.

QUESTION 4

Which of the following is most closely associated with attempting to actively prevent network intrusion?

- A. IDS
- B. Firewall
- C. IPS
- D. VPN

Correct Answer: C

QUESTION 5

A network technician wants to deploy a new wireless access point to reduce user latency. Currently, the organization has the following deployed: Which of the following channels should the new device broadcast on?

- A. Channel 3
- B. Channel 9
- C. Channel 10
- D. Channel 11

Correct Answer: D



The best channel for a new wireless access point is one that does not overlap with the existing channels used by other devices. Overlapping channels can cause interference and degrade the performance of the wireless network. According to the web search results, the 2.4 GHz band has 11 channels in the U.S., but only channels 1, 6, and 11 are non-overlapping. Since the existing devices are using channels 1 and 6, the new device should use channel 11 to avoid adjacent-channel interference¹²

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