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GIAC Defensible Security Architect



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Question: 1

What is ARP cache poisoning primarily used for in a network attack?

Response:

- A. To increase the ARP cache size to its maximum limit
- B. To facilitate the redirection of network traffic to an attacker's machine
- C. To encrypt the ARP cache contents
- D. To enhance network performance by optimizing ARP responses

Answer: B

Question: 2

What does securing on-premise hypervisors help prevent in a cloud architecture?

Response:

- A. Data breaches
- B. Internet downtime
- C. Subscription fraud
- D. Overprovisioning

Answer: A

Question: 3

Which of the following techniques focuses on restricting network communication to verified entities only?

Response:

- A. Single Packet Authentication
- B. Red herring defenses
- C. Domain Isolation
- D. Transport Layer Security (TLS)

Answer: C

Question: 4

Which of the following best describes the purpose of IPv6 tunneling?

Response:

- A. To increase the latency and packet overhead in the network
- B. To encapsulate IPv6 packets within IPv4 packets for transport over IPv4 networks
- C. To provide additional encryption and security to IPv6 packets
- D. To replace all IPv4 traffic with IPv6 traffic without requiring any network changes

Answer: B

Question: 5

Your organization is transitioning from IPv4 to IPv6 and has configured dual stack systems. However, your security team is concerned about potential vulnerabilities. What immediate actions should you take to mitigate security risks during the transition?

Response:

- A. Implement firewall rules to block unwanted IPv6 traffic and monitor both IPv4 and IPv6 interfaces for potential threats
- B. Disable IPv4 traffic entirely to focus solely on securing IPv6
- C. Perform a full reset of all network devices to update configurations
- D. Allow all traffic through both IPv4 and IPv6 to ensure compatibility

Answer: A

Question: 6

What does micro-segmentation in network security aim to achieve?

(Choose two)

Response:

- A. Increase network traffic
- B. Strengthen internal security controls
- C. Simplify network management
- D. Reduce the attack surface within the network

Answer: B,D

Question: 7

Which security controls help reduce the attack surface on endpoints in a Zero Trust environment?

(Choose two)

Response:

- A. Implementing host-based firewalls
- B. Allowing administrator access for all users
- C. Applying regular security patches and updates
- D. Disabling encryption to improve performance

Answer: A,B

Question: 8

Which functions do next-generation firewalls perform?

(Choose two)

Response:

- A. Acting solely as a packet filtering device
- B. Providing application-level inspection
- C. Establishing VPN connections
- D. Implementing user identity tracking in traffic inspection

Answer: B,D

Question: 9

Which of the following are effective strategies for securing SNMP traffic at Layer 3?

(Choose two)

Response:

- A. Disabling SNMP on all unused devices
- B. Using SNMPv1 for better compatibility
- C. Configuring SNMP with strong authentication (e.g., SNMPv3)
- D. Allowing SNMP traffic from any IP address for easier management

Answer: A,C

Question: 10

Which of the following is the primary function of a web proxy?

Response:

- A. Encrypting all data in transit
- B. Filtering and managing web traffic between users and the internet
- C. Preventing unauthorized users from accessing the network
- D. Monitoring and blocking email-based phishing attacks

Answer: B

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