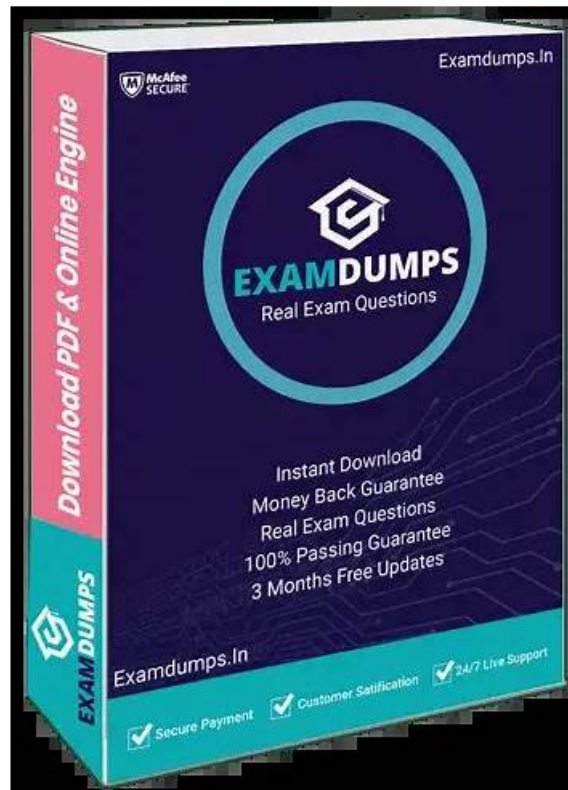


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## The SecOps Group Certified Network Security Practitioner Sample Questions (Q41-Q46):

### NEW QUESTION # 41

Which of the following attacks are associated with an ICMP protocol?

- A. All of the following
- B. ICMP flooding
- C. Ping of death
- D. Smurf attack

**Answer: A**

Explanation:

ICMP (Internet Control Message Protocol), per RFC 792, handles diagnostics (e.g., ping) and errors in IP networks. It's exploitable in:

A . Ping of Death:

Method: Sends oversized ICMP Echo Request packets (>65,535 bytes) via fragmentation. Reassembly overflows buffers, crashing older systems (e.g., Windows 95).

Fix: Modern OSes cap packet size (e.g., ping -s 65500).

B . Smurf Attack:

Method: Spoofs ICMP Echo Requests to a network's broadcast address (e.g., 192.168.255.255). All hosts reply, flooding the victim.

Amplification: 100 hosts = 100x traffic.

C . ICMP Flooding:

Method: Overwhelms a target with ICMP Echo Requests (e.g., ping -f), consuming bandwidth/CPU.

Variant: BlackNurse attack targets firewalls.

Technical Details:

ICMP Type 8 (Echo Request), Type 0 (Echo Reply) are key.

Mitigation: Rate-limit ICMP, disable broadcasts (e.g., no ip directed-broadcast).

Security Implications: ICMP attacks are DoS vectors. CNSP likely teaches filtering (e.g., iptables -p icmp -j DROP) balanced with diagnostics need.

Why other options are incorrect:

A, B, C individually: All are ICMP-based; D is comprehensive.

Real-World Context: Smurf attacks peaked in the 1990s; modern routers block them by default.

### NEW QUESTION # 42

Which of the following techniques can be used to bypass network segmentation during infrastructure penetration testing?

- A. VLAN hopping
- B. Covert channels
- C. DNS tunneling
- D. All of the above

**Answer: D**

Explanation:

Network segmentation isolates network zones for security, but certain techniques can circumvent these controls, a focus of CNSP penetration testing.

Why D is correct:

A: DNS tunneling encodes data in DNS queries, bypassing segmentation via legitimate DNS traffic.

B: VLAN hopping exploits switch misconfigurations (e.g., double tagging) to access other VLANs.

C: Covert channels use hidden communication paths (e.g., timing channels) to evade segmentation.

All are valid techniques per CNSP for testing segmentation controls.

Why other options are incomplete: A, B, or C alone exclude other viable methods, making D the comprehensive answer.

### NEW QUESTION # 43

Where is the system registry file stored in a Microsoft Windows Operating System?

- A. All of the above
- B. C:\Windows\security
- C. C:\Windows\System32\Config
- D. C:\Windows\debug

**Answer: C**

Explanation:

The Windows Registry is a hierarchical database storing configuration settings for the operating system, applications, and hardware. It's physically stored as hive files on disk, located in the directory C:\Windows\System32\Config. These files are loaded into memory at boot time and managed by the Windows kernel. Key hive files include:

SYSTEM: Contains hardware and system configuration (e.g., drivers, services).

SOFTWARE: Stores software settings.

SAM: Security Accounts Manager data (e.g., local user accounts, passwords).

SECURITY: Security policies and permissions.

DEFAULT: Default user profile settings.

USERDIFF and user-specific hives (e.g., NTUSER.DAT in C:\Users<username>) for individual profiles, though these are linked to Config indirectly.

Technical Details:

Path: C:\Windows\System32\Config is the primary location for system-wide hives. Files lack extensions (e.g., "SYSTEM" not "SYSTEM.DAT") and are backed by transaction logs (e.g., SYSTEM.LOG) for recovery.

Access: Direct file access is restricted while Windows runs, as the kernel locks them. Tools like reg save or offline forensic utilities (e.g., RegRipper) can extract them.

Backup: Copies may exist in C:\Windows\System32\config\RegBack (pre-Windows 10 1803) or repair folders (e.g., C:\Windows\Repair).

Security Implications: The registry is a prime target for attackers (e.g., persistence via Run keys) and malware (e.g., WannaCry modified registry entries). CNSP likely emphasizes securing this directory (e.g., NTFS permissions) and auditing changes (e.g., via Event Viewer, Event ID 4657). Compromising these files offline (e.g., via physical access) can extract password hashes from SAM. Why other options are incorrect:

A . C:\Windows\debug: Used for debug logs (e.g., memory.dmp) or tools like DebugView, not registry hives. It's unrelated to core configuration storage.

C . C:\Windows\security: Contains security-related files (e.g., audit logs, policy templates), but not the registry hives themselves.

D . All of the above: Only B is correct; including A and C dilutes accuracy.

Real-World Context: Forensic analysts target C:\Windows\System32\Config during investigations (e.g., parsing SAM with Mimikatz offline).

### NEW QUESTION # 44

What is the response from an open UDP port which is behind a firewall (port is open on the firewall)?

- A. A FIN Packet
- B. No response
- C. ICMP message showing Port Unreachable
- D. A SYN Packet

**Answer: B**

Explanation:

UDP (User Datagram Protocol), per RFC 768, is connectionless, lacking TCP's handshake or acknowledgment mechanisms. When a UDP packet reaches a port:

Closed Port: The host typically sends an ICMP "Destination Port Unreachable" (Type 3, Code 3) unless suppressed (e.g., by firewall or OS settings).

Open Port: If a service is listening (e.g., DNS on 53/UDP), it processes the packet but doesn't inherently reply unless the application protocol requires it (e.g., DNS sends a response).

Scenario: An open UDP port behind a firewall, with the firewall rule allowing traffic (e.g., permit udp any host 10.0.0.1 eq 123). The packet reaches the service, but UDP itself doesn't mandate a response. Most services (e.g., NTP, SNMP) only reply if the packet matches an expected request. In this question's generic context (no specific service), no response is the default, as the firewall permits the packet, and the open port silently accepts it without feedback.

Security Implications: This silence makes UDP ports harder to scan (e.g., Nmap assumes "open|filtered" for no response), but exposed open ports risk amplification attacks (e.g., DNS reflection). CNSP likely contrasts UDP's behavior with TCP for firewall rule crafting.

Why other options are incorrect:

A . ICMP message showing Port Unreachable: Occurs for closed ports, not open ones, unless the service explicitly rejects the packet (rare).

C . A SYN Packet: SYN is TCP-specific (handshake initiation), irrelevant to UDP.

D . A FIN Packet: FIN is TCP-specific (connection closure), not UDP.

Real-World Context: Testing UDP 53 (DNS) with `dig @8.8.8.8 +udp` yields a response, but generic UDP probes (e.g., `nc -u`) often get silence.

### NEW QUESTION # 45

What is the response from a closed TCP port which is behind a firewall?

- A. RST and an ACK packet
- **B. No response**
- C. A SYN and an ACK packet
- D. A FIN and an ACK packet

**Answer: B**

### NEW QUESTION # 46

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