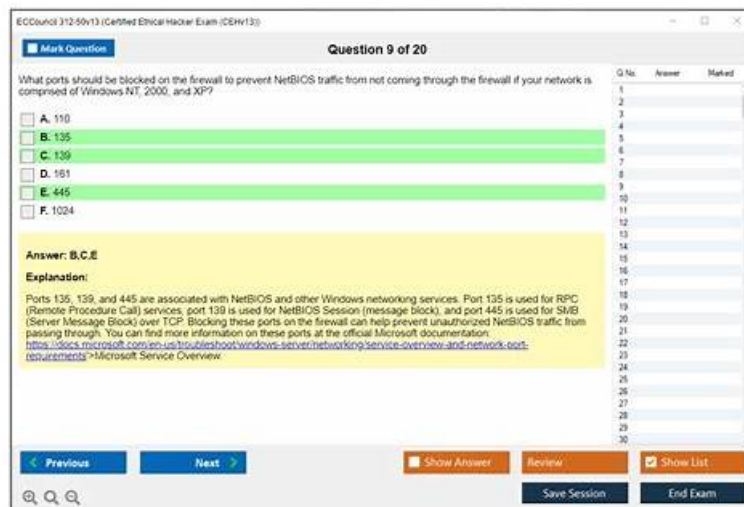


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ECCouncil Certified Ethical Hacker Exam (CEHv13) Sample Questions (Q450-Q455):

NEW QUESTION # 450

Which of the following algorithms can be used to guarantee the integrity of messages being sent, in transit, or stored?

- A. Hashing algorithms
- B. Asymmetric algorithms
- C. Symmetric algorithms
- D. Integrity algorithms

Answer: A

Explanation:

Hashing algorithms are specifically designed to ensure data integrity. A hash function takes an input and returns a fixed-length string called a hash or message digest. Even a small change in the input results in a completely different hash, making it useful for detecting tampering.

Common hashing algorithms include:

- * MD5 (now obsolete for secure uses)
- * SHA-1, SHA-2, SHA-3
- * HMAC (Hashed Message Authentication Code)

From CEH v13 Courseware:

- * Module 20: Cryptography
- * Topic: Hash Functions and Data Integrity

CEH v13 Study Guide states:

"Hashing algorithms provide integrity by generating a unique digital fingerprint of data. Any alteration in the message content will result in a different hash value, indicating that the integrity has been compromised." Incorrect Options:

- * A: Symmetric algorithms provide confidentiality.
- * B: Asymmetric algorithms provide confidentiality and authentication.
- * D: "Integrity algorithms" is not a formal cryptographic term.

Reference: CEH v13 Study Guide - Module 20: Cryptographic Hash Functions NIST FIPS 180-4 - Secure Hash Standard (SHS)

NEW QUESTION # 451

Mike, a security engineer, was recently hired by BigFox Ltd. The company recently experienced disastrous DoS attacks. The management had instructed Mike to build defensive strategies for the company's IT infrastructure to thwart DoS/DDoS attacks. Mike deployed some countermeasures to handle jamming and scrambling attacks. What is the countermeasure Mike applied to defend against jamming and scrambling attacks?

- A. Allow the transmission of all types of addressed packets at the ISP level
- B. A Disable TCP SYN cookie protection
- C. Allow the usage of functions such as gets and strcpy
- **D. Implement cognitive radios in the physical layer**

Answer: D

Explanation:

<https://ieeexplore.ieee.org/document/5567385>

NEW QUESTION # 452

In a large organization, a network security analyst discovered a series of packet captures that seem unusual.

The network operates on a switched Ethernet environment. The security team suspects that an attacker might be using a sniffer tool. Which technique could the attacker be using to successfully carry out this attack, considering the switched nature of the network?

- A. The attacker is probably using a Trojan horse with in-built sniffing capability
- **B. The attacker might be implementing MAC flooding to overwhelm the switch's memory**
- C. The attacker might be using passive sniffing, as it provides significant stealth advantages
- D. The attacker might be compromising physical security to plug into the network directly

Answer: B

Explanation:

A sniffer tool is a software or hardware device that can capture and analyze network traffic. In a switched Ethernet environment, where each port on a switch is connected to a single device, a sniffer tool can only see the traffic that is destined for or originated from the device it is attached to. However, an attacker can use various techniques to overcome this limitation and sniff the traffic of other devices on the same network. One of these techniques is MAC flooding, which exploits the finite memory of the switch's MAC address table.

The attacker sends a large number of frames with different source MAC addresses to the switch, which fills up the MAC address table and causes the switch to enter a fail-open mode, where it broadcasts all incoming frames to all ports, regardless of the destination MAC address. This way, the attacker can see all the traffic on the network and capture it with a sniffer tool.

The other options are less likely or less effective techniques for sniffing a switched Ethernet network.

Compromising physical security to plug into the network directly may allow the attacker to sniff the traffic of the device they are connected to, but not the traffic of other devices on the network. Using a Trojan horse with in-built sniffing capability may allow the attacker to sniff the traffic of the infected device, but not the traffic of other devices on the network, unless the Trojan horse also

performs MAC flooding or other techniques to bypass the switch. Using passive sniffing, which involves listening to the network traffic without sending any packets, may provide significant stealth advantages, but it does not help the attacker to see the traffic of other devices on the network, unless the switch is already in fail-open mode or the attacker uses other techniques to induce it.

References:

- * Sniffing: A Beginners Guide In 4 Important Points
- * How can I run a packet sniffer on a Router or Switch
- * Detection of Sniffers in an Ethernet Network

NEW QUESTION # 453

Joseph was the Web site administrator for the Mason Insurance in New York, whose main website was located at www.masonins.com. Joseph uses his laptop computer regularly to administer the website. One night, Joseph received an urgent phone call from his friend, Smith. According to Smith, the main Mason Insurance website had been vandalized! All of its normal content was removed and replaced with an attacker's message:

"H@cker Mess@ge: Y0u @re De@d! Fre@ks!"

From his office network (internal), Joseph saw the normal site. But from an external DSL connection, users saw the defaced site. Joseph checked the web server with Tripwire and found no system file or content change.

How did the attacker accomplish this hack?

- A. ARP spoofing
- B. SQL injection
- C. DNS poisoning
- D. Routing table injection

Answer: C

Explanation:

In this scenario, users outside the organization (like Smith and Joseph on dial-up) see the defaced site, while Joseph on the internal corporate network sees the legitimate site. Tripwire confirms that the files on the actual web server are intact. This clearly indicates that the attack was not on the server itself, but rather on how external users are being directed to a malicious server.



This behavior is indicative of a DNS poisoning attack. The attacker poisoned the DNS cache of an external DNS resolver, redirecting www.masonins.com to a malicious server. Internal DNS servers, unaffected by the poisoning, still resolved to the correct IP address.

From CEH v13:

Module 3: DNS Poisoning and Spoofing

Module 5: Vulnerability Analysis

CEH v13 Study Guide states:

"DNS poisoning involves injecting false information into a DNS resolver's cache, causing users to be redirected to malicious websites without changing the actual web server's content." Incorrect Options:

A: ARP spoofing affects local network address resolution, not global DNS.

B: SQL injection is used to exploit databases, not alter DNS records.

D: Routing table injection affects traffic routes, but wouldn't explain DNS-level redirection discrepancies.

Reference: CEH v13 Study Guide - Module 3: DNS Poisoning # Real-World Examples
NIST SP 800-81r2 - Secure DNS Deployment Guide

NEW QUESTION # 454

Clark is a professional hacker. He created and configured multiple domains pointing to the same host to switch quickly between the domains and avoid detection.

Identify the behavior of the adversary in the above scenario.

- A. Use of DNS tunneling
- B. Unspecified proxy activities
- C. Data staging
- D. use of command-line interface

Answer: B

Explanation:

A proxy server acts as a gateway between you and therefore the internet. It's an intermediary server separating end users from the websites they browse. Proxy servers provide varying levels of functionality, security, and privacy counting on your use case, needs, or company policy. If you're employing a proxy server, internet traffic flows through the proxy server on its thanks to the address you requested. A proxy server is essentially a computer on the web with its own IP address that your computer knows. Once you send an internet request, your request goes to the proxy server first. The proxy server then makes your web request on your behalf, collects the response from the online server, and forwards you the online page data so you'll see the page in your browser.

NEW QUESTION # 455

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