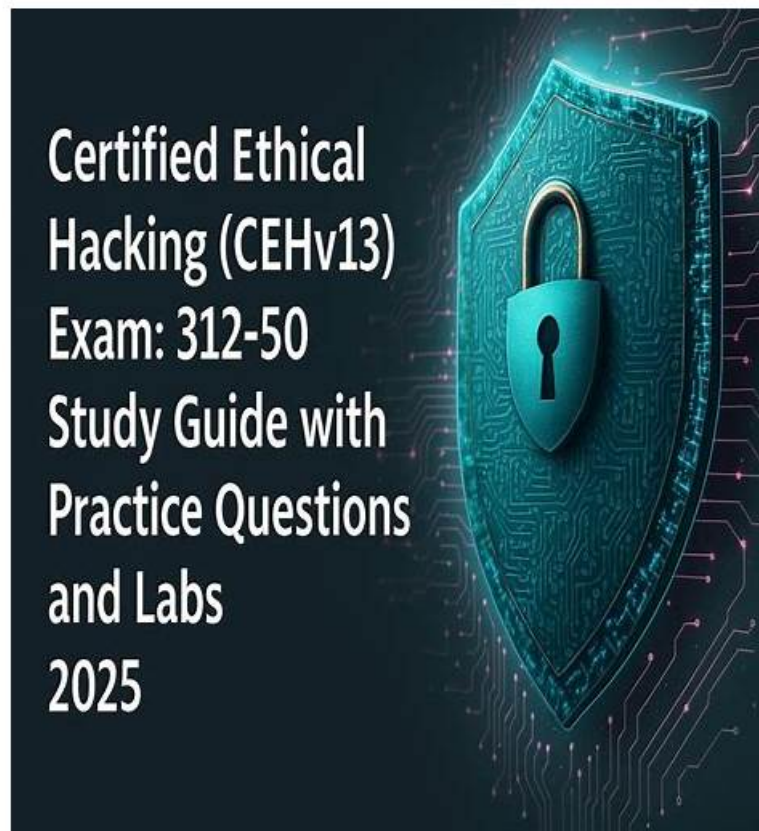


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ECCouncil Certified Ethical Hacker Exam (CEHv13) Sample Questions (Q557-Q562):

NEW QUESTION # 557

Steve, a scientist who works in a governmental security agency, developed a technological solution to identify people based on walking patterns and implemented this approach to a physical control access.

A camera captures people walking and identifies the individuals using Steve's approach.

After that, people must approximate their RFID badges. Both the identifications are required to open the door.

In this case, we can say:

- A. The solution implements the two authentication factors: physical object and physical characteristic
- B. The solution will have a high level of false positives
- C. Although the approach has two phases, it actually implements just one authentication factor
- D. Biological motion cannot be used to identify people

Answer: A

Explanation:

In authentication, Multi-Factor Authentication (MFA) involves using more than one category of authentication factors:

Something you know (e.g., password)

Something you have (e.g., RFID badge, token)

Something you are (e.g., biometrics like fingerprints, facial recognition, gait) In this scenario:

The RFID badge is "something you have" (a physical object).

The gait recognition (walking pattern) captured by the camera is a biometric-"something you are" (a physical characteristic).

Together, these two methods represent two distinct authentication factors, thereby implementing true multi- factor authentication.

Reference - CEH v13 Official Study Guide:

Module 5: System Hacking

Topic: Authentication Mechanisms

Quote:

"Examples of multi-factor authentication include combining biometrics (something you are) with a smart card or badge (something you have). Gait recognition is considered a behavioral biometric and falls under 'something you are'."

Incorrect Options Explained:

A). Incorrect - gait and RFID represent two separate factor types, not one.

C). No evidence in the scenario supports high false positives.

D). Gait analysis is a recognized biometric method and can be used for identification.

NEW QUESTION # 558

As a budding cybersecurity enthusiast, you have set up a small lab at home to learn more about wireless network security. While experimenting with your home Wi-Fi network, you decide to use a well-known hacking tool to capture network traffic and attempt to crack the Wi-Fi password. However, despite many attempts, you have been unsuccessful. Your home Wi-Fi network uses WPA2 Personal with AES encryption.

Why are you finding it difficult to crack the Wi-Fi password?

- A. Your hacking tool is outdated
- B. The network is using MAC address filtering.
- C. The network is using an uncrackable encryption method
- D. The Wi-Fi password is too complex and long

Answer: C

Explanation:

The network is using an uncrackable encryption method, which makes it difficult to crack the Wi-Fi password. WPA2 Personal with AES encryption is the strongest form of security offered by Wi-Fi devices at the moment, and it should be used for all purposes.

AES stands for Advanced Encryption Standard, and it is a symmetric-key algorithm that uses a 128-bit, 192-bit, or 256-bit key to encrypt and decrypt data. AES is considered to be uncrackable by brute force attacks, as it would take an impractical amount of time and computational power to try all possible key combinations¹². Therefore, unless you have access to the Wi-Fi password or the encryption key, you will not be able to decrypt the network traffic and crack the password.

The other options are not correct for the following reasons:

* A. The Wi-Fi password is too complex and long: This option is not relevant because the Wi-Fi password is not directly used to

encrypt the network traffic. Instead, the password is used to generate a Pre-Shared Key (PSK), which is then used to derive a Pairwise Master Key (PMK), which is then used to derive a Pairwise Transient Key (PTK), which is then used to encrypt the data. Therefore, the complexity and length of the password do not affect the encryption strength, as long as the password is not easily guessed or leaked³⁴.

* B. Your hacking tool is outdated: This option is not plausible because even if your hacking tool is outdated, it would not affect your ability to capture the network traffic and attempt to crack the password. The hacking tool may not support the latest Wi-Fi standards or protocols, but it should still be able to capture the raw data packets and save them in a file. The cracking process would depend on the encryption algorithm and the key, not on the hacking tool.

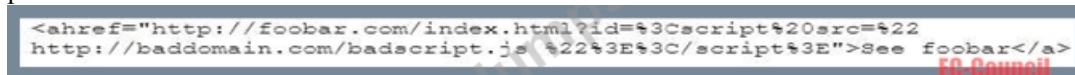
* D. The network is using MAC address filtering: This option is not feasible because MAC address filtering is a technique that restricts network access and communication to trusted devices based on their MAC addresses, which are unique identifiers assigned to network interfaces. MAC address filtering can prevent unauthorized devices from joining the network, but it cannot prevent authorized devices from capturing the network traffic. Moreover, MAC address filtering can be easily bypassed by spoofing the MAC address of an allowed device⁵⁶.

References:

- * 1: What is AES Encryption and How Does it Work? | Kaspersky
- * 2: AES Encryption: Everything You Need to Know | Comparitech
- * 3: How Does WPA2 Work? | Techwalla
- * 4: How Does WPA2 Encryption Work? | Security Boulevard
- * 5: What is MAC Address Filtering? | Definition, Types & Examples - Fortinet
- * 6: How to Bypass MAC Address Filtering on Wireless Networks - Null Byte :: WonderHowTo

NEW QUESTION # 559

This is an attack that takes advantage of a web site vulnerability in which the site displays content that includes un-sanitized user-provided data.



What is this attack?

- A. SQL Injection
- B. URL Traversal attack
- **C. Cross-site-scripting attack**
- D. Buffer Overflow attack

Answer: C

NEW QUESTION # 560

Which of the following types of SQL injection attacks extends the results returned by the original query, enabling attackers to run two or more statements if they have the same structure as the original one?

- A. Blind SQL injection
- **B. Union SQL injection**
- C. Error-based injection
- D. Boolean-based blind SQL injection

Answer: B

Explanation:

Union-based SQL injection is a technique that uses the UNION SQL operator to combine the results of the original query with the results of one or more additional queries. This allows attackers to:

Retrieve data from different database tables

Extend the result set returned to the web application

Exploit the application if both queries return the same number and type of columns According to CEH v13:

UNION SELECT can be used to enumerate tables, extract user credentials, or display sensitive data.

It requires knowledge of the structure of the original query.

Incorrect Options:

A: Error-based injection extracts data from database error messages.

B: Boolean-based blind SQLi returns true/false results to infer data.

C: Blind SQLi (generic) relies on no visible output and uses inference techniques.

Reference - CEH v13 Official Courseware:
Module 14: Hacking Web Applications
Section: "Types of SQL Injection Attacks"
Subsection: "Union-Based SQL Injection"

NEW QUESTION # 561

The "Gray-box testing" methodology enforces what kind of restriction?

- A. The internal operation of a system is only partly accessible to the tester.
- B. Only the internal operation of a system is known to the tester.
- C. Only the external operation of a system is accessible to the tester.
- **D. The internal operation of a system is completely known to the tester.**

Answer: D

Explanation:

White-box testing (also known as clear box testing, glass box testing, transparent box testing, and structural testing) is a method of software testing that tests internal structures or workings of an application, as opposed to its functionality (i.e. black-box testing). In white-box testing, an internal perspective of the system, as well as programming skills, are used to design test cases. The tester chooses inputs to exercise paths through the code and determine the expected outputs. This is analogous to testing nodes in a circuit, e.g. in-circuit testing (ICT). White-box testing can be applied at the unit, integration and system levels of the software testing process. Although traditional testers tended to think of white-box testing as being done at the unit level, it is used for integration and system testing more frequently today. It can test paths within a unit, paths between units during integration, and between subsystems during a system-level test. Though this method of test design can uncover many errors or problems, it has the potential to miss unimplemented parts of the specification or missing requirements. Where white-box testing is design-driven,[1] that is, driven exclusively by agreed specifications of how each component of the software is required to behave (as in DO-178C and ISO 26262 processes) then white-box test techniques can accomplish assessment for unimplemented or missing requirements.

White-box test design techniques include the following code coverage criteria:

Control flow testing

Data flow testing

Branch testing

Statement coverage

Decision coverage

Modified condition/decision coverage

Prime path testing

Path testing

NEW QUESTION # 562

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