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ECCouncil Certified Ethical Hacker Exam (CEHv13) Sample Questions (Q467-Q472):

NEW QUESTION # 467
Which of the following is a command line packet analyzer similar to GUI-based Wireshark?

- A. tcpdump
- B. nessus
- C. jack the ripper
- D. ethereal

Answer: A

Explanation:

Tcpdump is a data-network packet analyzer computer program that runs under a command-line interface. It allows the user to display TCP/IP and other packets being transmitted or received over a network to which the computer is attached. Distributed under the BSD license, tcpdump is free software.
https://www.wireshark.org/
Wireshark is a free and open-source packet analyzer. It is used for network troubleshooting, analysis, software and communications protocol development, and education.
NOTE: Wireshark is very similar to tcpdump, but has a graphical front-end, plus some integrated sorting and filtering options.

NEW QUESTION # 468
Your company, Encryptor Corp, is developing a new application that will handle highly sensitive user information. As a cybersecurity specialist, you want to ensure this data is securely stored. The development team proposes a method where data is hashed and then encrypted before storage. However, you want an added layer of security to verify the integrity of the data upon retrieval. Which of the following cryptographic concepts should you propose to the team?

- A. Implement a block cipher mode of operation.
- B. Switch to elliptic curve cryptography.
- C. a digital signature mechanism.
- D. Suggest using salt with hashing.

Answer: C

Explanation:
A digital signature mechanism is a cryptographic concept that you should propose to the team to verify the integrity of the data upon retrieval. A digital signature mechanism works as follows:
* A digital signature is a mathematical scheme that allows the sender of a message to sign the message with their private key, and allows the receiver of the message to verify the signature with the sender's public key. A digital signature provides two security services: authentication and non- repudiation. Authentication means that the receiver can confirm the identity of the sender, and non-repudiation means that the sender cannot deny sending the message12.
* A digital signature mechanism consists of three algorithms: key generation, signing, and verification.
Key generation produces a pair of keys: a private key for the sender and a public key for the receiver.
Signing takes the message and the private key as inputs, and outputs a signature. Verification takes the message, the signature, and the public key as inputs, and outputs a boolean value indicating whether the signature is valid or not12.
* A digital signature mechanism can be implemented using various cryptographic techniques, such as hash-based signatures, RSA signatures, or elliptic curve signatures. A common method is to use a hash function to compress the message into a fixed-length digest, and then use an asymmetric encryption algorithm to encrypt the digest with the private key. The encrypted digest is the signature, which can be decrypted with the public key and compared with the hash of the message to verify the integrity12.
A digital signature mechanism can ensure the integrity of the data upon retrieval, because:
* A digital signature is unique to the message and the sender, and it cannot be forged or altered by anyone else. If the message or the signature is modified in any way, the verification will fail and the receiver will know that the data is corrupted or tampered with12.
* A digital signature is independent of the encryption or hashing of the data, and it can be applied to any type of data, regardless of its format or size. The encryption or hashing of the data can provide confidentiality and efficiency, but they cannot provide integrity or authentication by themselves. A digital signature can complement the encryption or hashing of the data by providing an additional layer of security12.
The other options are not as suitable as option B for the following reasons:
* A. Implement a block cipher mode of operation: This option is not relevant because it does not address the integrity verification issue, but the encryption issue. A block cipher mode of operation is a method of applying a block cipher, which is a symmetric encryption algorithm that operates on fixed-length blocks of data, to a variable-length message. A block cipher mode of operation can provide different security properties, such as confidentiality, integrity, or authenticity, depending on the mode. However, a block cipher mode of operation cannot provide a digital signature, which is a form of asymmetric encryption that uses a pair of keys3 .
* C. Suggest using salt with hashing: This option is not sufficient because it does not provide a digital signature, but only a hash value. Salt is a random value that is added to the input of a hash function, which is a one-way function that maps any data to a fixed-length digest. Salt can enhance the security of hashing by making it harder to perform brute-force attacks or dictionary attacks, which are methods of finding the input that produces a given hash value. However, salt cannot provide a digital signature, which is a two-way function that uses a pair of keys to sign and verify a message .
* D. Switch to elliptic curve cryptography: This option is not specific because it does not specify a digital signature mechanism, but only a type of cryptography. Elliptic curve cryptography is a branch of cryptography that uses mathematical curves to generate keys and perform operations. Elliptic curve cryptography can be used to implement various cryptographic techniques, such as encryption, hashing, or digital signatures. However, elliptic curve cryptography is not a digital signature mechanism by itself, but rather a tool that can be used to create one .
References:

1: Digital signature - Wikipedia
2: Digital Signature: What It Is and How It Works | Kaspersky
3: Block cipher mode of operation - Wikipedia
3: Block Cipher Modes of Operation - an overview | ScienceDirect Topics
4: Salt (cryptography) - Wikipedia
5: What is Salt in Cryptography? | Cloudflare
6: Elliptic-curve cryptography - Wikipedia
7: Elliptic Curve Cryptography: What It Is and How It Works | Kaspersky

NEW QUESTION # 469
Which of the following Metasploit post-exploitation modules can be used to escalate privileges on Windows systems?

- A. keylogrecorder
- B. getsystem
- C. autoroute
- D. getuid

Answer: B

Explanation:
When using exploits, you might gain access as only a local user. This limits what you can do on the target machine. You can use Meterpreters 'getsystem` command (https://github.com/rapid7/metasploit-payloads/blob /master/c/meterpreter/source/extensions/priv/elevate.c#L70) to elevate your permissions from a local administrator to SYSTEM. This works by using three elevation techniques.

NEW QUESTION # 470
Eric has discovered a fantastic package of tools named Dsniff on the Internet. He has learnt to use these tools in his lab and is now ready for real world exploitation. He was able to effectively intercept communications between the two entities and establish credentials with both sides of the connections. The two remote ends of the communication never notice that Eric is relaying the information between the two. What would you call this attack?

- A. Interceptor
- B. Man-in-the-middle
- C. Poisoning Attack
- D. ARP Proxy

Answer: B

Explanation:
The described scenario is a textbook example of a Man-in-the-Middle (MITM) attack. In such attacks, the attacker stealthily places themselves between two communicating systems, intercepts their communications, and may even modify the traffic. The communicating parties remain unaware that their traffic is being monitored or altered.
Eric is using the Dsniff toolset, which is well-known for enabling MITM attacks through techniques such as:
* ARP spoofing (to redirect traffic)
* Credential sniffing
* Packet manipulation
From CEH v13 Official Courseware:
* Module 8: Sniffing
* Module 11: Session Hijacking
CEH v13 Study Guide states:
"In a man-in-the-middle (MITM) attack, the attacker intercepts and potentially alters the communication between two systems without either party knowing. Tools like Dsniff, Cain & Abel, and Ettercap are commonly used to launch such attacks." Incorrect Options:
* A: "Interceptor" is not a technical term in cybersecurity.
* C: ARP Proxy is a network feature; while ARP spoofing can be part of a MITM attack, it's not the attack classification itself.
* D: Poisoning (like DNS or ARP poisoning) is often a technique used to initiate MITM but not the final classification.
Reference:CEH v13 Study Guide - Module 8: Sniffing # MITM Attacks Using DsniffRFC 4949 - Internet Security Glossary (Definition of MITM)

NEW QUESTION # 471
Your company performs penetration tests and security assessments for small and medium-sized businesses in the local area. During a routine security assessment, you discover information that suggests your client is involved with human trafficking.
What should you do?

- A. Ignore the data and continue the assessment until completed as agreed.
- B. Confront the client in a respectful manner and ask her about the data.
- C. Immediately stop work and contact the proper legal authorities.
- D. Copy the data to removable media and keep it in case you need it.

Answer: C

Explanation:
Per CEH v13 Official Courseware - Module 01: Introduction to Ethical Hacking, ethical hackers and penetration testers are bound by legal and professional standards. When illegal activities such as human trafficking are discovered:
The ethical response is to cease operations and report the findings to the appropriate legal authorities.
Continuing work, ignoring the findings, or confronting the client personally is both unprofessional and may potentially expose the tester to legal liability.
Reference: CEH v13 eCourseware - Module 01: Introduction to Ethical Hacking # "Legal Implications and Reporting Requirements" CEH v13 Code of Conduct for Certified Ethical Hackers

NEW QUESTION # 472
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