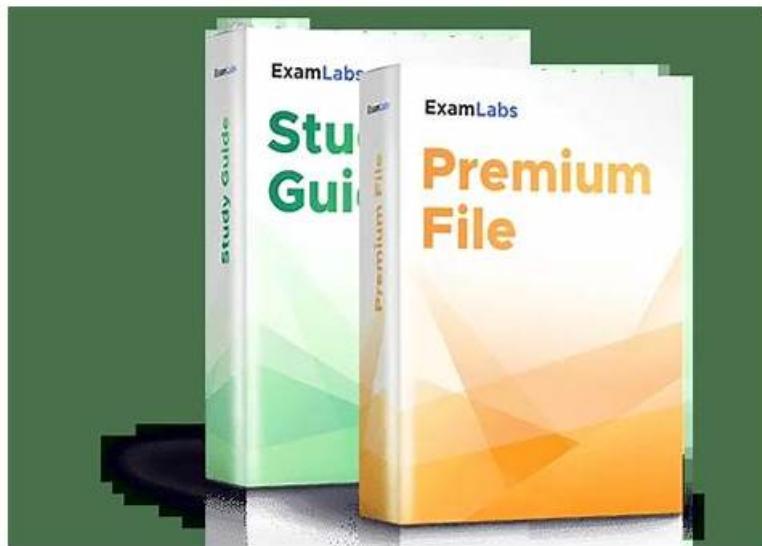


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ECCouncil Certified Ethical Hacker Exam (CEHv13) Sample Questions (Q370-Q375):

NEW QUESTION # 370

One of your team members has asked you to analyze the following SOA record.
What is the TTL?

Rutgers.edu. SOA NS1.Rutgers.edu ipad.college.edu (200302028 3600 3600 604800 2400.)

- A. 0
- **B. 1**
- C. 2
- D. 3
- E. 4
- F. 5

Answer: B

Explanation:

The SOA (Start of Authority) record contains key DNS parameters, including TTL (Time To Live). The components of an SOA record are in this order:

(domain) IN SOA (Primary Name Server) (Responsible party) (Serial) (Refresh) (Retry) (Expire) (Minimum TTL) Given:

Rutgers.edu. SOA NS1.Rutgers.edu ipad.college.edu (200302028 3600 3600 604800 2400.) Field breakdown:

- * Serial: 200302028
- * Refresh: 3600 seconds
- * Retry: 3600 seconds
- * Expire: 604800 seconds
- * Minimum TTL: 2400 seconds # This is the TTL value

From CEH v13 Courseware:

- * Module 3: Scanning Networks
- * Topic: DNS Enumeration and Zone Transfers
- * Subsection: Understanding DNS Records

CEH v13 Study Guide states:

"In an SOA record, the last value is the Minimum TTL - the amount of time other DNS servers should cache resource records for the zone." Incorrect Options:

- * A: Serial number
- * B: Refresh interval
- * C: Expiry interval
- * E/F: Arbitrary, not part of the SOA shown

Reference:CEH v13 Study Guide - Module 3: DNS Records and Zone TransfersRFC 1035 - Domain Names

- Implementation and Specification

NEW QUESTION # 371

You are the chief security officer at AlphaTech, a tech company that specializes in data storage solutions.

Your company is developing a new cloud storage platform where users can store their personal files. To ensure data security, the development team is proposing to use symmetric encryption for data at rest.

However, they are unsure of how to securely manage and distribute the symmetric keys to users. Which of the following strategies would you recommend to them?

- A. implement the Diffie-Hellman protocol for secure key exchange.
- B. Use hash functions to distribute the keys.
- C. Use digital signatures to encrypt the symmetric keys.
- **D. Use HTTPS protocol for secure key transfer.**

Answer: D

Explanation:

Symmetric encryption is a method of encrypting and decrypting data using the same secret key. Symmetric encryption is fast and efficient, but it requires a secure way of managing and distributing the keys to the users who need them. If the keys are compromised, the data is no longer secure.

One of the strategies to securely manage and distribute symmetric keys is to use HTTPS protocol for secure key transfer. HTTPS is a protocol that uses SSL/TLS to encrypt the communication between a client and a server over the Internet. HTTPS can protect the symmetric keys from being intercepted or modified by an attacker during the key transfer process. HTTPS can also authenticate the server and the client using certificates, ensuring that the keys are sent to and received by the intended parties.

To use HTTPS protocol for secure key transfer, the development team needs to implement the following steps1:

* Generate a symmetric key for each user who wants to store their files on the cloud storage platform.

The symmetric key will be used to encrypt and decrypt the user's files.

* Generate a certificate for the cloud storage server. The certificate will contain the server's public key and other information, such as the server's domain name, the issuer, and the validity period. The certificate will be signed by a trusted certificate authority (CA), which is a third-party entity that verifies the identity and legitimacy of the server.

* Install the certificate on the cloud storage server and configure the server to use HTTPS protocol for communication.

* When a user wants to upload or download their files, the user's client (such as a web browser or an app) will initiate a HTTPS connection with the cloud storage server. The client will verify the server's certificate and establish a secure session with the server using SSL/TLS. The client and the server will negotiate a session key, which is a temporary symmetric key that will be used to encrypt the data exchanged during the session.

* The cloud storage server will send the user's symmetric key to the user's client, encrypted with the session key. The user's client will decrypt the symmetric key with the session key and use it to encrypt or decrypt the user's files.

* The user's client will store the symmetric key securely on the user's device, such as in a password-protected file or a hardware token. The user's client will also delete the session key after the session is over.

Using HTTPS protocol for secure key transfer can ensure that the symmetric keys are protected from eavesdropping, tampering, or spoofing attacks. However, this strategy also has some challenges and limitations, such as:

* The development team needs to obtain and maintain valid certificates for the cloud storage server from a trusted CA, which might incur costs and administrative overhead.

* The users need to trust the CA that issued the certificates for the cloud storage server and verify the certificates before accepting them.

* The users need to protect their symmetric keys from being lost, stolen, or corrupted on their devices.

The development team needs to provide a mechanism for key backup, recovery, or revocation in case of such events.

* The users need to update their symmetric keys periodically to prevent key exhaustion or reuse attacks.

The development team needs to provide a mechanism for key rotation or renewal in a secure and efficient manner.

References:

* Key Management - OWASP Cheat Sheet Series

* Symmetric Cryptography & Key Management: Exhaustion, Rotation, Defence

* What is Key Management? How does Key Management work? | Encryption Consulting

NEW QUESTION # 372

is a set of extensions to DNS that provide the origin authentication of DNS data to DNS clients (resolvers) so as to reduce the threat of DNS poisoning, spoofing, and similar types of attacks.

- A. Resource transfer
- B. Resource records
- C. Zone transfer
- D. **DNSSEC**

Answer: D

Explanation:

The Domain Name System Security Extensions (DNSSEC) is a suite of Internet Engineering Task Force (IETF) specifications for securing certain kinds of information provided by DNS for use on IP networks.

DNSSEC is a set of extensions to DNS that provide to DNS clients (resolvers) origin authentication of DNS data, authenticated denial of existence, and data integrity, but not availability or confidentiality. DNSSEC is necessary because the original DNS design did not include security but was designed to be a scalable distributed system. DNSSEC adds security while maintaining backward compatibility.

NEW QUESTION # 373

Which of the following tools is used to analyze the files produced by several packet-capture programs such as tcpdump, WinDump, Wireshark, and EtherPeek?

- A. **tcptrace**
- B. OpenVAS
- C. Nessus
- D. tcptraceroute

Answer: A

NEW QUESTION # 374

Bella, a security professional working at an it firm, finds that a security breach has occurred while transferring important files. Sensitive data, employee usernames, and passwords are shared in plaintext, paving the way for hackers to perform successful session hijacking. To address this situation, Bella Implemented a protocol that sends data using encryption and digital certificates. Which of the following protocols Is used by Bella?

- A. HTTPS
- B. IP
- C. FTP
- D. FTPS

Answer: D

Explanation:

The File Transfer Protocol (FTP) is a standard organization convention utilized for the exchange of PC records from a worker to a customer on a PC organization. FTP is based on a customer worker model engineering utilizing separate control and information associations between the customer and the server.[1] FTP clients may validate themselves with an unmistakable book sign-in convention, ordinarily as a username and secret key, however can interface namelessly if the worker is designed to permit it. For secure transmission that ensures the username and secret phrase, and scrambles the substance, FTP is frequently made sure about with SSL/TLS (FTPS) or supplanted with SSH File Transfer Protocol (SFTP).

The primary FTP customer applications were order line programs created prior to working frameworks had graphical UIs, are as yet dispatched with most Windows, Unix, and Linux working systems.[2][3] Many FTP customers and mechanization utilities have since been created for working areas, workers, cell phones, and equipment, and FTP has been fused into profitability applications, for example, HTML editors.

NEW QUESTION # 375

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