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QUESTION 1

SQL injection (SQLi) attacks attempt to inject SQL syntax into web requests, which may Bypass authentication and allow attackers to access and/or modify data attached to a web application. Which of the following SQLi types leverages a database server's ability to make DNS requests to pass data to an attacker?

- A. Union-based SQLi
- B. Out-of-band SQLi
- C. In-band SQLi
- D. Time-based blind SQLi

Correct Answer: B

Out-of-band SQL injection occurs when an attacker is unable to use an equivalent channel to launch the attack and gather results. ... Out-of-band SQLi techniques would believe the database server's ability to form DNS or HTTP requests to deliver data to an attacker. Out-of-band SQL injection is not very common, mostly because it depends on features being enabled on the database server being used by the web application. Out-of-band SQL injection occurs when an attacker is unable to use the same channel to launch the attack and gather results. Out-of-band techniques, offer an attacker an alternative to inferential time-based techniques, especially if the server responses are not very stable (making an inferential time-based attack unreliable). Out-of-band SQLi techniques would rely on the database server's ability to make DNS or HTTP requests to deliver data to an attacker. Such is the case with Microsoft SQL Server's xp_dirtree command, which can be used to make DNS requests to a server an attacker controls; as well as Oracle Database's UTL_HTTP package, which can be used to send HTTP requests from SQL and PL/SQL to a server an attacker controls.

QUESTION 2

Thomas, a cloud security professional, is performing security assessment on cloud services to identify any loopholes. He detects a vulnerability in a bare-metal cloud server that can enable hackers to implant malicious backdoors in its firmware. He also identified that an installed backdoor can persist even if the server is reallocated to new clients or businesses that use it as an IaaS.

What is the type of cloud attack that can be performed by exploiting the vulnerability discussed in the above scenario?

- A. Man-in-the-cloud (MITC) attack
- B. Cloud cryptojacking
- C. Cloudborne attack
- D. Metadata spoofing attack

Correct Answer: C

QUESTION 3

Which of the following is the BEST way to defend against network sniffing?



- A. Using encryption protocols to secure network communications
- B. Register all machines MAC Address in a Centralized Database
- C. Use Static IP Address
- D. Restrict Physical Access to Server Rooms hosting Critical Servers

Correct Answer: A

https://en.wikipedia.org/wiki/Sniffing_attack To prevent networks from sniffing attacks, organizations and individual users should keep away from applications using insecure protocols, like basic HTTP authentication, File Transfer Protocol (FTP), and Telnet. Instead, secure protocols such as HTTPS, Secure File Transfer Protocol (SFTP), and Secure Shell (SSH) should be preferred. In case there is a necessity for using any insecure protocol in any application, all the data transmission should be encrypted. If required, VPN (Virtual Private Networks) can be used to provide secure access to users. NOTE: I want to note that the wording "best option" is valid only for the EC-Council's exam since the other options will not help against sniffing or will only help from some specific attack vectors. The sniffing attack surface is huge. To protect against it, you will need to implement a complex of measures at all levels of abstraction and apply controls at the physical, administrative, and technical levels. However, encryption is indeed the best option of all, even if your data is intercepted - an attacker cannot understand it.

QUESTION 4

What is the known plaintext attack used against DES which gives the result that encrypting plaintext with one DES key followed by encrypting it with a second DES key is no more secure than using a single key?

- A. Man-in-the-middle attack
- B. Meet-in-the-middle attack
- C. Replay attack
- D. Traffic analysis attack

Correct Answer: B

https://en.wikipedia.org/wiki/Meet-in-the-middle_attack The meet-in-the-middle attack (MITM), a known plaintext attack, is a generic space-time tradeoff cryptographic attack against encryption schemes that rely on performing multiple encryption operations in sequence. The MITM attack is the primary reason why Double DES is not used and why a Triple DES key (168-bit) can be bruteforced by an attacker with 256 space and 2¹¹² operations. The intruder has to know some parts of plaintext and their ciphertexts. Using meet-in-the-middle attacks it is possible to break ciphers, which have two or more secret keys for multiple encryption using the same algorithm. For example, the 3DES cipher works in this way. Meet-in-the-middle attack was first presented by Diffie and Hellman for cryptanalysis of DES algorithm.

QUESTION 5

A Security Engineer at a medium-sized accounting firm has been tasked with discovering how much information can be obtained from the firm's public facing web servers. The engineer decides to start by using netcat to port 80.

The engineer receives this output:

HTTP/1.1 200 OK Server: Microsoft-IIS/6 Expires: Tue, 17 Jan 2011 01:41:33 GMT Date: Mon, 16 Jan 2011 01:41:33



GMT Content-Type: text/html Accept-Ranges: bytes Last Modified: Wed, 28 Dec 2010 15:32:21 GMT
ETag:"b0aac0542e25c31:89d" Content-Length: 7369

Which of the following is an example of what the engineer performed?

- A. Banner grabbing
- B. SQL injection
- C. Whois database query
- D. Cross-site scripting

Correct Answer: A

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