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QUESTION 81A software development company needs to share information between two remote servers, using encryption to protect it. A programmer suggests developing a new encryption protocol, arguing that using an unknown protocol with secure, existing cryptographic algorithm libraries will provide strong encryption without being susceptible to attacks on other known protocols. Which of the following summarizes the BEST response to the programmer's proposal?

A. The newly developed protocol will only be as secure as the underlying cryptographic algorithms used.

B. New protocols often introduce unexpected vulnerabilities, even when developed with otherwise secure and tested algorithm libraries.

C. A programmer should have specialized training in protocol development before attempting to design a new encryption protocol.

D. The obscurity value of unproven protocols against attacks often outweighs the potential for introducing new vulnerabilities.

Answer: B

QUESTION 82A security technician would like to obscure sensitive data within a file so that it can be transferred without causing suspicion. Which of the following technologies would BEST be suited to accomplish this?

A. Transport Encryption

B. Stream Encryption

C. Digital Signature

D. Steganography

Answer: D

Explanation: Steganography is the process of hiding a message in another message so as to obfuscate its importance. It is also the process of hiding a message in a medium such as a digital image, audio file, or other file. In theory, doing this prevents analysts from detecting the real message. You could encode your message in another file or message and use that file to hide your message.

QUESTION 83A supervisor in your organization was demoted on Friday afternoon. The supervisor had the ability to modify the contents of a confidential database, as well as other managerial permissions. On Monday morning, the database administrator reported that log files indicated that several records were missing from the database. Which of the following risk mitigation strategies should have been implemented when the supervisor was demoted?

A. Incident management

B. Routine auditing

C. IT governance

D. Monthly user rights reviews

Answer: D

Explanation: Which of the following attack types is being carried out where a target is being sent unsolicited messages via Bluetooth?

A. War chalking

B. Bluejacking

C. Bluesnarfing

D. Rogue tethering

Answer: B

Explanation: Bluejacking is the sending of unsolicited messages over Bluetooth to Bluetooth-enabled devices such as mobile phones, PDAs or laptop computers, sending a vCard which typically contains a message in the name field (i.e., for bluedating or bluechat) to another Bluetooth-enabled device via the OBEX protocol.

QUESTION 85Joe is exchanging encrypted email with another party. Joe encrypts the initial email with a key. When Joe receives a response, he is unable to decrypt the response with the same key he used initially. Which of the following would explain the situation?

A. An ephemeral key was used for one of the messages

B. A stream cipher was used for the initial email; a block cipher was used for the reply

C. Out-of-band key exchange has taken place

D. Asymmetric encryption is being used

Answer: D

Explanation: Asymmetric algorithms use two keys to encrypt and decrypt data. These asymmetric keys are referred to as the public key and the private key. The sender uses the public key to encrypt a message, and the receiver uses the private key to decrypt the message; what one key does, the other one undoes.

QUESTION 86Recently several employees were victims of a phishing email that appeared to originate from the company president. The email claimed the employees would be disciplined if they did not click on a malicious link in the message.

Which of the following principles of social engineering made this attack successful?

A. Authority

B. Spamming

C. Social proof

D. Scarcity

Answer: A

QUESTION 87Which of the following is the LEAST secure hashing algorithm?

A. SHA1

B. RIPEMDC

C. MD5

D. DES

Answer: C

Explanation: An employee uses RDP to connect back to the office network. If RDP is misconfigured, which of the following security exposures would this lead to?

A. A virus on the administrator's desktop would be able to sniff the administrator's username and password

B. Result in an attacker being able to phish the employee's username and password

C. A social engineering attack could occur, resulting in the employee's password being extracted

D. A man in the middle attack could occur, resulting the employee's username and password being captured

Answer: D

QUESTION 88Joe, the security administrator, sees this in a vulnerability scan report: "The server 10.1.2.232 is running Apache 2.2.20 which may be vulnerable to a mod_cgi exploit."

Joe verifies that the mod_cgi module is not enabled on 10.1.2.232. This message is an example of:

A. a threat

B. a risk

C. a false negative

D. a false positive

Answer: D

QUESTION 89A security analyst wishes to increase the security of an FTP server. Currently, all trails to the FTP server is unencrypted. Users connecting to the FTP server use a variety of modern FTP client

software. The security analyst wants to keep the same port and protocol, while also still allowing unencrypted connections. Which of the following would BEST accomplish these goals?

A. Require the SFTP protocol to connect to the file server

B. Use implicit

TLS on the FTP server.C. Use explicit FTPS for the connections.D. Use SSH tunneling to encrypt the FTP traffic.Answer: B

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