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**QUESTION 1**

A company provides on-demand virtual computing for a sensitive project. The company implements a fully virtualized datacenter and terminal server access with two-factor authentication for access to sensitive data. The security administrator at the company has uncovered a breach in data confidentiality. Sensitive data was found on a hidden directory within the hypervisor. Which of the following has MOST likely occurred?

- A. A stolen two factor token and a memory mapping RAM exploit were used to move data from one virtual guest to an unauthorized similar token.
- B. An employee with administrative access to the virtual guests was able to dump the guest memory onto their mapped disk.
- C. A host server was left un-patched and an attacker was able to use a VMescape attack to gain unauthorized access.
- D. A virtual guest was left un-patched and an attacker was able to use a privilege escalation attack to gain unauthorized access.

Correct Answer: C

QUESTION 2

A security administrator wants to calculate the ROI of a security design which includes the purchase of new equipment. The equipment costs \$50,000 and it will take 50 hours to install and configure the equipment. The administrator plans to hire a contractor at a rate of \$100/hour to do the installation. Given that the new design and equipment will allow the company to increase revenue and make an additional \$100,000 on the first year, which of the following is the ROI expressed as a percentage for the first year?

- A. -45 percent
- B. 5.5 percent
- C. 45 percent
- D. 82 percent

Correct Answer: D

Return on investment = Net profit / Investment

where: Net profit = gross profit - expenses

investment = stock + market outstanding[when defined as?] + claims

or

Return on investment = (gain from investment - cost of investment) / cost of investment
Thus $(100,000 - 55,000) / 50,000 = 0.82 = 82\%$

References:

Gregg, Michael, and Billy Haines, CASP CompTIA Advanced Security Practitioner Study Guide, John Wiley and Sons, Indianapolis, 2012, p. 337 http://www.financeformulas.net/Return_on_Investment.html

**QUESTION 3**

The administrator is troubleshooting availability issues on an FCoE-based storage array that uses deduplication. The single controller in the storage array has failed, so the administrator wants to move the drives to a storage array from a different manufacturer in order to access the data. Which of the following issues may potentially occur?

- A. The data may not be in a usable format.
- B. The new storage array is not FCoE based.
- C. The data may need a file system check.
- D. The new storage array also only has a single controller.

Correct Answer: B

Fibre Channel over Ethernet (FCoE) is a computer network technology that encapsulates Fibre Channel frames over Ethernet networks. This allows Fibre Channel to use 10 Gigabit Ethernet networks (or higher speeds) while preserving the Fibre Channel protocol. When moving the disks to another storage array, you need to ensure that the array supports FCoE, not just regular Fiber Channel. Fiber Channel arrays and Fiber Channel over Ethernet arrays use different network connections, hardware and protocols. Fiber Channel arrays use the Fiber Channel protocol over a dedicated Fiber Channel network whereas FCoE arrays use the Fiber Channel protocol over an Ethernet network.

QUESTION 4

A developer is determining the best way to improve security within the code being developed. The developer is focusing on input fields where customers enter their credit card details. Which of the following techniques, if implemented in the code, would be the MOST effective in protecting the fields from malformed input?

- A. Client side input validation
- B. Stored procedure
- C. Encrypting credit card details
- D. Regular expression matching

Correct Answer: D

Regular expression matching is a technique for reading and validating input, particularly in web software. This question is asking about securing input fields where customers enter their credit card details. In this case, the expected input into the credit card number field would be a sequence of numbers of a certain length. We can use regular expression matching to verify that the input is indeed a sequence of numbers. Anything that is not a sequence of numbers could be malicious code.

QUESTION 5

Wireless users are reporting issues with the company's video conferencing and VoIP systems. The security administrator notices internal DoS attacks from infected PCs on the network causing the VoIP system to drop calls. The security administrator also notices that the SIP servers are unavailable during these attacks. Which of the following security controls will MOST likely mitigate the VoIP DoS attacks on the network? (Select TWO).



- A. Install a HIPS on the SIP servers
- B. Configure 802.1X on the network
- C. Update the corporate firewall to block attacking addresses
- D. Configure 802.11e on the network
- E. Configure 802.1q on the network

Correct Answer: AD

Host-based intrusion prevention system (HIPS) is an installed software package that will monitor a single host for suspicious activity by analyzing events taking place within that host. IEEE 802.11e is deemed to be of significant consequence for delay-sensitive applications, such as Voice over Wireless LAN and streaming multimedia.

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