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QUESTION 1

A security administrator is reviewing the following output from an offline password audit:

Username	Password	Crack Time
User1	Teleportation1	4s
User2	Amphitheater!	2s
User3	Undetermined4u.	10s

Which of the following should the systems administrator implement to BEST address this audit finding? (Choose two.)

- A. Cryptoprocessor
- B. Bcrypt
- C. SHA-256
- D. PBKDF2
- E. Message authentication

Correct Answer: BD

QUESTION 2

A security engineer is attempting to increase the randomness of numbers used in key generation in a system. The goal of the effort is to strengthen the keys against predictive analysis attacks.

Which of the following is the BEST solution?

- A. Use an entropy-as-a-service vendor to leverage larger entropy pools.
- B. Loop multiple pseudo-random number generators in a series to produce larger numbers.
- C. Increase key length by two orders of magnitude to detect brute forcing.
- D. Shift key generation algorithms to ECC algorithms.

Correct Answer: A

QUESTION 3

An enterprise's Chief Technology Officer (CTO) and Chief Information Security Officer (CISO) are meeting to discuss ongoing capacity and resource planning issues. The enterprise has experienced rapid, massive growth over the last 12 months, and the technology department is stretched thin for resources. A new accounting service is required to support the enterprise's growth, but the only available compute resources that meet the accounting service requirements are on the virtual platform, which is hosting the enterprise's website.



Which of the following should the CISO be MOST concerned about?

- A. Poor capacity planning could cause an oversubscribed host, leading to poor performance on the company's website.
- B. A security vulnerability that is exploited on the website could expose the accounting service.
- C. Transferring as many services as possible to a CSP could free up resources.
- D. The CTO does not have the budget available to purchase required resources and manage growth.

Correct Answer: A

QUESTION 4

A hospital is deploying new imaging software that requires a web server for access to images for both local and remote users. The web server allows user authentication via secure LDAP. The information security officer wants to ensure the server does not allow unencrypted access to the imaging server by using Nmap to gather additional information. Given the following:

1.

The imaging server IP is 192.168.101.24.

2.

The domain controller IP is 192.168.100.1.

3.

The client machine IP is 192.168.200.37.

Which of the following should be used to confirm this is the only open port on the web server?

- A. `nmap -p 80,443 192.168.101.24`
- B. `nmap -p 80, 443,389,636 192.168.100.1`
- C. `nmap --p 80,389 192.168.200.37`
- D. `nmap -p- 192.168.101.24`

Correct Answer: D

QUESTION 5

The Chief Information Officer (CIO) wants to increase security and accessibility among the organization's cloud SaaS applications. The applications are configured to use passwords, and two-factor authentication is not provided natively. Which of the following would BEST address the CIO's concerns?

- A. Procure a password manager for the employees to use with the cloud applications.



- B. Create a VPN tunnel between the on-premises environment and the cloud providers.
- C. Deploy applications internally and migrate away from SaaS applications.
- D. Implement an IdP that supports SAML and time-based, one-time passwords.

Correct Answer: B

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