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**Vendor:**CompTIA

**Exam Code:**SY0-401

**Exam Name:**CompTIA Security+ Certification

**Version:**Demo

### QUESTION 1

A security administrator implements a web server that utilizes an algorithm that requires other hashing standards to provide data integrity. Which of the following algorithms would meet the requirement?

- A. SHA
- B. MD5
- C. RIPEMD
- D. HMAC

Correct Answer: A

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### QUESTION 2

Ann, a security administrator, has concerns regarding her company's wireless network. The network is open and available for visiting prospective clients in the conference room, but she notices that many more devices are connecting to the network than should be.

Which of the following would BEST alleviate Ann's concerns with minimum disturbance of current functionality for clients?

- A. Enable MAC filtering on the wireless access point.
- B. Configure WPA2 encryption on the wireless access point.
- C. Lower the antenna's broadcasting power.
- D. Disable SSID broadcasting.

Correct Answer: C

Some access points include power level controls that allow you to reduce the amount of output provided if the signal is traveling too far.

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### QUESTION 3

Ann is an employee in the accounting department and would like to work on files from her home computer. She recently heard about a new personal cloud storage service with an easy web interface. Before uploading her work related files into the cloud for access, which of the following is the MOST important security concern Ann should be aware of?

- A. Size of the files
- B. Availability of the files
- C. Accessibility of the files from her mobile device
- D. Sensitivity of the files

Correct Answer: D

Cloud computing has privacy concerns, regulation compliance difficulties, use of open- /closed-source solutions, and adoption of open standards. It is also unsure whether cloud- based data is actually secured (or even securable).

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#### QUESTION 4

At an organization, unauthorized users have been accessing network resources via unused network wall jacks. Which of the following would be used to stop unauthorized access?

- A. Configure an access list.
- B. Configure spanning tree protocol.
- C. Configure port security.
- D. Configure loop protection.

Correct Answer: C

Port security in IT can mean several things. It can mean the physical control of all connection points, such as RJ-45 wall jacks or device ports, so that no unauthorized users or unauthorized devices can attempt to connect into an open port. This can be accomplished by locking down the wiring closet and server vaults and then disconnecting the workstation run from the patch panel (or punch-down block) that leads to a room's wall jack. Any unneeded or unused wall jacks can (and should) be physically disabled in this manner. Another option is to use a smart patch panel that can monitor the MAC address of any device connected to each and every wall port across a building and detect not just when a new device is connected to an empty port, but also when a valid device is disconnected or replaced by an invalid device.

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#### QUESTION 5

An organization is moving its human resources system to a cloud services provider. The company plans to continue using internal usernames and passwords with the service provider, but the security manager does not want the service provider to have a copy of the passwords. Which of the following options meets all of these requirements?

- A. Two-factor authentication
- B. Account and password synchronization
- C. Smartcards with PINS
- D. Federated authentication

Correct Answer: D

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#### QUESTION 6

A new client application developer wants to ensure that the encrypted passwords that are stored in their database are secure from cracking attempts. To implement this, the developer implements a function on the client application that hashes passwords thousands of times prior to being sent to the database. Which of the following did the developer MOST likely implement?

- A. RIPEMD
- B. PBKDF2
- C. HMAC
- D. ECDHE

Correct Answer: B

Password-Based Key Derivation Function 2 (PBKDF2) makes use of a hashing operation, an encryption cipher function, or an HMAC operation) on the input password, which is combined with a salt and is repeated thousands of times.

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#### QUESTION 7

An administrator receives a security alert that appears to be from one of the company's vendors. The email contains information and instructions for patching a serious flaw that has not been publicly announced. Which of the following can an employee use to validate the authenticity of the email?

- A. Hashing algorithm
- B. Ephemeral Key
- C. SSL certificate chain
- D. Private key
- E. Digital signature

Correct Answer: A

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#### QUESTION 8

Which of the following is commonly used for federated identity management across multiple organizations?

- A. SAML
- B. Active Directory
- C. Kerberos
- D. LDAP

Correct Answer: A

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#### QUESTION 9

An administrator uses a server with a trusted OS and is configuring an application to go into production tomorrow. In order to make a new application work properly, the administrator creates a new policy that labels the application and assigns it a security context within the trusted OS. Which of the following control methods is the administrator using by configuring this policy?

- A. Time based access control
- B. Mandatory access control
- C. Role based access control
- D. Rule based access control

Correct Answer: C

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#### **QUESTION 10**

Which of the following is the proper way to quantify the total monetary damage resulting from an exploited vulnerability?

- A. Calculate the ALE
- B. Calculate the ARO
- C. Calculate the MTBF
- D. Calculate the TCO

Correct Answer: A

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#### **QUESTION 11**

An application developer has coded a new application with a module to examine all user entries for the graphical user interface. The module verifies that user entries match the allowed types for each field and that OS and database commands are rejected before entries are sent for further processing within the application. These are example of:

- A. Input validation
- B. SQL injection
- C. Application whitelisting
- D. Error handling

Correct Answer: A

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#### **QUESTION 12**

A security engineer is faced with competing requirements from the networking group and database administrators. The database administrators would like ten application servers on the same subnet for ease of administration, whereas the networking group would like to segment all applications from one another. Which of the following should the security administrator do to rectify this issue?

- A. Recommend performing a security assessment on each application, and only segment the applications with the most vulnerability
- B. Recommend classifying each application into like security groups and segmenting the groups from one another

C. Recommend segmenting each application, as it is the most secure approach

D. Recommend that only applications with minimal security features should be segmented to protect them

Correct Answer: B

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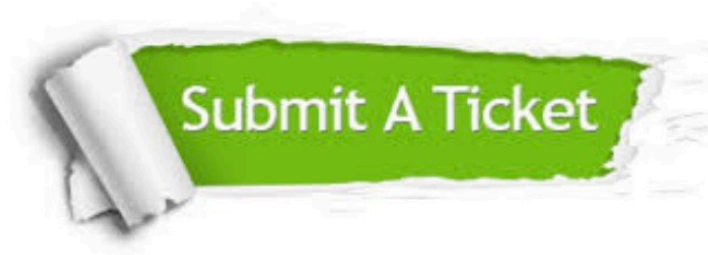
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