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ECCouncil 212-82: Certified Cybersecurity Technician exam is an entry-level certification program that tests the knowledge and skills of individuals in the field of cybersecurity. 212-82 Exam covers a wide range of topics and evaluates the candidate's ability to manage cyber threats, implement security controls, and secure network devices. Certified Cybersecurity Technician certification offers several benefits to individuals and organizations and is a valuable asset for anyone interested in pursuing a career in cybersecurity.

## ECCouncil Certified Cybersecurity Technician Sample Questions (Q53-Q58):

### NEW QUESTION # 53

Paul, a computer user, has shared information with his colleague using an online application. The online application used by Paul has

been incorporated with the latest encryption mechanism. This mechanism encrypts data by using a sequence of photons that have a spinning trait while traveling from one end to another, and these photons keep changing their shapes during their course through filters: vertical, horizontal, forward slash, and backslash.

Identify the encryption mechanism demonstrated in the above scenario.

- A. Rivest Shamir Adleman encryption
- B. Homomorphic encryption
- **C. Quantum cryptography**
- D. Elliptic curve cryptography

**Answer: C**

Explanation:

Quantum cryptography is the encryption mechanism demonstrated in the above scenario. Quantum cryptography is a branch of cryptography that uses quantum physics to secure data transmission and communication. Quantum cryptography encrypts data by using a sequence of photons that have a spinning trait, called polarization, while traveling from one end to another. These photons keep changing their shapes, called states, during their course through filters: vertical, horizontal, forward slash, and backslash. Quantum cryptography ensures that any attempt to intercept or tamper with the data will alter the quantum states of the photons and be detected by the sender and receiver. Homomorphic encryption is a type of encryption that allows computations to be performed on encrypted data without decrypting it first. Rivest Shamir Adleman (RSA) encryption is a type of asymmetric encryption that uses two keys, public and private, to encrypt and decrypt data. Elliptic curve cryptography (ECC) is a type of asymmetric encryption that uses mathematical curves to generate keys and perform encryption and decryption.

#### **NEW QUESTION # 54**

Stephen, a security professional at an organization, was instructed to implement security measures that prevent corporate data leakage on employees' mobile devices. For this purpose, he employed a technique using which all personal and corporate data are isolated on an employee's mobile device. Using this technique, corporate applications do not have any control of or communication with the private applications or data of the employees.

Which of the following techniques has Stephen implemented in the above scenario?

- A. Geofencing
- **B. Containerization**
- C. OTA updates
- D. Full device encryption

**Answer: B**

Explanation:

Containerization is the technique that Stephen has implemented in the above scenario. Containerization is a technique that isolates personal and corporate data on an employee's mobile device. Containerization creates separate encrypted containers or partitions on the device, where corporate applications and data are stored and managed. Containerization prevents corporate data leakage on employees' mobile devices by restricting access, sharing, copying, or transferring of data between containers. Containerization also allows remote wiping of corporate data in case of device loss or theft. Full device encryption is a technique that encrypts all the data on a mobile device using a password or a key. Geofencing is a technique that uses GPS or RFID to define geographical boundaries and trigger actions based on the location of a mobile device. OTA (Over-the-Air) updates are updates that are delivered wirelessly to mobile devices without requiring physical connection to a computer.

#### **NEW QUESTION # 55**

Arabella, a forensic officer, documented all the evidence related to the case in a standard forensic investigation report template. She filled different sections of the report covering all the details of the crime along with the daily progress of the investigation process. In which of the following sections of the forensic investigation report did Arabella record the "nature of the claim and information provided to the officers"?

- A. Evaluation and analysis process
- B. Investigation process
- **C. Evidence information**
- D. Investigation objectives

**Answer: C**

### NEW QUESTION # 56

A text file containing sensitive information about the organization has been leaked and modified to bring down the reputation of the organization. As a safety measure, the organization did contain the MD5 hash of the original file. The file which has been leaked is retained for examining the integrity. A file named "Sensitiveinfo.txt" along with OriginalFileHash.txt has been stored in a folder named Hash in Documents of Attacker Machine-1. Compare the hash value of the original file with the leaked file and state whether the file has been modified or not by selecting yes or no.

- A. Yes
- B. No

**Answer: A**

Explanation:

Yes is the answer to whether the file has been modified or not in the above scenario. A hash is a fixed-length string that is generated by applying a mathematical function, called a hash function, to a piece of data, such as a file or a message. A hash can be used to verify the integrity or authenticity of data by comparing it with another hash value of the same data. A hash value is unique and any change in the data will result in a different hash value. To compare the hash value of the original file with the leaked file and state whether the file has been modified or not, one has to follow these steps:

Navigate to Hash folder in Documents of Attacker-1 machine.

Open OriginalFileHash.txt file with a text editor.

Note down the MD5 hash value of the original file as 8f14e45fcee167a5a36dedd4bea2543 Open Command Prompt and change directory to Hash folder using cd command. Type certutil - hashfile Sensitiveinfo.txt MD5 and press Enter key to generate MD5 hash value of leaked file.

Note down the MD5 hash value of leaked file as 9f14e45fcee167a5a36dedd4bea2543 Compare both MD5 hash values. The MD5 hash values are different, which means that the file has been modified.

### NEW QUESTION # 57

Rhett, a security professional at an organization, was instructed to deploy an IDS solution on their corporate network to defend against evolving threats. For this purpose, Rhett selected an IDS solution that first creates models for possible intrusions and then compares these models with incoming events to make detection decisions.

Identify the detection method employed by the IDS solution in the above scenario.

- A. Not-use detection
- B. Signature recognition
- C. Protocol anomaly detection
- D. Anomaly detection

**Answer: D**

Explanation:

Anomaly detection is a type of IDS detection method that involves first creating models for possible intrusions and then comparing these models with incoming events to make a detection decision. It can detect unknown or zero-day attacks by looking for deviations from normal or expected behavior

### NEW QUESTION # 58

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