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facility energy to IT equipment energy; 1.8 means for every 1 kW to IT, 0.8 kW is overhead.

4. Which busway configuration is most suitable for scalable, high-density data center power distribution?
   A. Aluminum rigid conduit
   B. Copper busway
   C. PVC conduit
   D. EMT conduit
   B. Copper busway *Copper busways allow high current capacity, flexibility, and scalability for dense rack deployments.*

5. What is the primary function of a transfer switch in a data center?
   A. To balance load across circuits
   B. To switch between utility and backup power sources
   C. To reduce harmonics
   D. To convert AC to DC
   B. To switch between utility and backup power sources *Transfer switches ensure continuous power by switching loads to alternate sources during outages.*

6. Which cooling method is most efficient for high-density server racks?
   A. Raised floor with perforated tiles
   B. Hot aisle/cold aisle containment
   C. Window air conditioning
   D. Ceiling fans
   B. Hot aisle/cold aisle containment *Containment isolates hot and cold airflow, improving cooling efficiency and reducing energy use.*

7. A data center experiences frequent voltage sags. Which equipment can protect sensitive servers?
   A. Surge suppressor
   B. Voltage regulator
   C. Generator
   D. HVAC system

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Upon successful completion of the ECCouncil 212-82 (Certified Cybersecurity Technician) certification, candidates will be proficient in deploying cybersecurity solutions to prevent, detect and respond to various cyber threats. Besides, certified individuals will advance their careers in the cybersecurity industry by opening up more job opportunities such as cybersecurity analyst, technician, or engineer in various organizations.

ECCouncil Certified Cybersecurity Technician Sample Questions (Q43-Q48):

NEW QUESTION # 43
Thomas, an employee of an organization, is restricted from accessing specific websites from his office system. He is trying to obtain admin credentials to remove the restrictions. While waiting for an opportunity, he sniffed communication between the administrator and an application server to retrieve the admin credentials. Identify the type of attack performed by Thomas in the above scenario.

- A. Phishing
- B. Dumpster diving
- C. Vishing
- D. Eavesdropping

Answer: D

Explanation:
It identifies the type of attack performed by Thomas in the above scenario. Eavesdropping is a type of attack that involves intercepting and listening to the communication between two parties without their knowledge or consent. Thomas performed eavesdropping by sniffing communication between the administrator and an application server to retrieve the admin credentials.

NEW QUESTION # 44
Which of the following are examples of physical security controls? (Select all that apply)

- A. Security guards
- B. Firewalls
- C. Biometric access control
- D. Encryption algorithms

Answer: A,C

NEW QUESTION # 45
As the director of cybersecurity for a prominent financial Institution, you oversee the security protocols for a vast array of digital operations. The institution recently transitioned to a new core banking platform that integrates an artificial intelligence (AI)-based fraud detection system. This system monitors real-time transactions, leveraging pattern recognition and behavioral analytics. A week post-transition, you are alerted to abnormal behavior patterns in the AI system. On closer examination, the system is mistakenly flagging genuine transactions as fraudulent, causing a surge in false positives. This not only disrupts the customers' banking experience but also strains the manual review team. Preliminary investigations suggest subtle data poisoning attacks aiming to compromise the AI's training data, skewing its decision-making ability. To safeguard the AI- based fraud detection system and maintain the integrity of your financial data, which of the following steps should be your primary focus?

- A. Collaborate with the AI development team to retrain the model using only verified transaction data and implement real time monitoring to detect data poisoning attempts.
- B. Migrate back to the legacy banking platform until the new system is thoroughly vetted and all potential vulnerabilities are addressed.
- C. Engage in extensive customer outreach programs, urging them to report any discrepancies in their transaction records, and manually verifying flagged transactions.

- D. Liaise with third-party cybersecurity firms to conduct an exhaustive penetration test on the entire core banking platform, focusing on potential data breach points.

Answer: A

NEW QUESTION # 46
In an organization, all the servers and database systems are guarded in a sealed room with a single-entry point. The entrance is protected with a physical lock system that requires typing a sequence of numbers and letters by using a rotating dial that intermingles with several other rotating discs. Which of the following types of physical locks is used by the organization in the above scenario?

- A. Mechanical locks
- B. Electromagnetic locks
- C. Combination locks
- D. Digital locks

Answer: C

Explanation:
It identifies the type of physical lock used by the organization in the above scenario. A physical lock is a device that prevents unauthorized access to a door, gate, cabinet, or other enclosure by using a mechanism that requires a key, code, or biometric factor to open or close it. There are different types of physical locks, such as:
Combination lock: This type of lock requires typing a sequence of numbers and letters by using a rotating dial that intermingles with several other rotating discs. This type of lock is suitable for securing safes, lockers, or cabinets that store valuable items or documents.
Digital lock: This type of lock requires entering a numeric or alphanumeric code by using a keypad or touchscreen. This type of lock is suitable for securing doors or gates that require frequent access or multiple users.
Mechanical lock: This type of lock requires inserting and turning a metal key that matches the shape and size of the lock. This type of lock is suitable for securing doors or gates that require simple and reliable access or single users.
Electromagnetic lock: This type of lock requires applying an electric current to a magnet that attracts a metal plate attached to the door or gate. This type of lock is suitable for securing doors or gates that require remote control or integration with other security systems.
In the above scenario, the organization used a combination lock that requires typing a sequence of numbers and letters by using a rotating dial that intermingles with several other rotating discs.

NEW QUESTION # 47
Myles, a security professional at an organization, provided laptops for all the employees to carry out the business processes from remote locations. While installing necessary applications required for the business, Myles has also installed antivirus software on each laptop following the company's policy to detect and protect the machines from external malicious events over the Internet.
Identify the PCI-DSS requirement followed by Myles in the above scenario.

- A. PCI-DSS requirement no 1.3.5
- B. PCI-DSS requirement no 5.1
- C. PCI-DSS requirement no 1.3.1
- D. PCI-DSS requirement no 1.3.2

Answer: B

Explanation:
The correct answer is C, as it identifies the PCI-DSS requirement followed by Myles in the above scenario.
PCI-DSS is a set of standards that aims to protect cardholder data and ensure secure payment transactions.
PCI-DSS has 12 requirements that cover various aspects of security such as network configuration, data encryption, access control, vulnerability management, monitoring, and testing. PCI-DSS requirement no 5.1 states that "Protect all systems against malware and regularly update anti-virus software or programs". In the above scenario, Myles followed this requirement by installing antivirus software on each laptop to detect and protect the machines from external malicious events over the Internet. Option A is incorrect, as it does not identify the PCI-DSS requirement followed by Myles in the above scenario. PCI-DSS requirement no 1.3.2 states that "Do not allow unauthorized outbound traffic from the cardholder data environment to the Internet".
In the above scenario, Myles did not follow this requirement, as there was no mention of outbound traffic or cardholder data environment. Option B is incorrect, as it does not identify the PCI-DSS requirement followed by Myles in the above scenario. PCI-DSS requirement no 1.3.5 states that "Restrict inbound and outbound traffic to that which is necessary for the cardholder data

environment". In the above scenario, Myles did not follow this requirement, as there was no mention of inbound or outbound traffic or cardholder data environment. Option D is incorrect, as it does not identify the PCI-DSS requirement followed by Myles in the above scenario. PCI-DSS requirement no 1.3.1 states that "Implement a firewall configuration that restricts connections between publicly accessible servers and any system component storing cardholder data". In the above scenario, Myles did not follow this requirement, as there was no mention of firewall configuration or publicly accessible servers or system components storing cardholder data.
References: Section 5.2

NEW QUESTION # 48

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