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A security architect is designing a strategy to help continue operating in the face of a cyber-attack. Which of the following will help to accomplish this objective? Select 3 answers.

A - Heterogeneity
B - Clustering
C - COA development
D - Migrating to the cloud - ✓✓✓ Correct Answer > A, B & C;
Heterogeneity, Clustering, COA Development

Heterogeneity (or diversity) refers to components that are not the same as or similar to each other. This diversity adds a layer of complexity that can slow an adversary from infiltrating an enterprise before detection.

Clustering allows multiple redundant processing nodes that share data with one another to accept connections, providing redundancy.

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q161-Q166):

NEW QUESTION # 161

How can the organizational culture support ethical guidelines?

- A. By creating the system requirements for computers in the organization
- B. By creating the government regulations that apply to the organization
- C. By outlining the roles of IT specialists in the organization
- **D. By outlining the protocols to support security and privacy of data**

Answer: D

Explanation:

Organizational culture can support ethical guidelines by establishing clear protocols and policies that promote the security and privacy of data. This includes:

- * Data protection policies: Guidelines on how data should be handled, stored, and protected.
- * Ethical behavior: Encouraging employees to adhere to ethical standards and practices.
- * Training and awareness: Regular training sessions to educate employees on security best practices and ethical behavior.
- * Incident response: Protocols for responding to data breaches and other security incidents.

A strong organizational culture that prioritizes data security and privacy helps ensure that ethical guidelines are consistently followed.

References

- * Michael E. Whitman and Herbert J. Mattord, "Principles of Information Security," Cengage Learning.
- * Rebecca Herold, "Managing an Information Security and Privacy Awareness and Training Program," CRC Press.

NEW QUESTION # 162

In which state is data considered information?

- A. Unprocessed
- B. Raw
- C. Input
- **D. Processed**

Answer: D

Explanation:

Data is considered information when it has been processed and organized in a meaningful way. Raw data in its unprocessed state is not useful until it undergoes processing to become interpretable and actionable information. Processing can involve sorting, aggregating, and analyzing data to extract valuable insights.

NEW QUESTION # 163

A software development company is required to comply with the Payment Card Industry Data Security Standard (PCI DSS), which sets requirements for the protection of cardholder data. The company uses Secure Shell (SSH) to connect to its cloud-based development environment, which contains cardholder data.

Which security control will meet the needs of the company?

- A. Patch management
- B. Network segmentation
- C. Vulnerability analysis

- **D. Strong authentication**

Answer: D

Explanation:

The correct answer is C - Strong authentication.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488) materials, PCI DSS compliance requires strong access controls, including strong authentication mechanisms, especially when accessing environments containing cardholder data.

SSH access must be protected with methods such as multi-factor authentication or strong, complex credentials to ensure that only authorized users gain access.

Patch management (A) maintains system security but is not specifically about authentication. Network segmentation (B) limits data exposure but does not directly relate to authentication. Vulnerability analysis (D) identifies weaknesses but does not address the need for strong authentication when connecting to sensitive environments.

Reference Extract from Study Guide:

"Strong authentication mechanisms are crucial to protect access to environments that store, process, or transmit cardholder data, in compliance with PCI DSS standards."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Regulatory Compliance and Access Control

NEW QUESTION # 164

A security team is investigating multiple man-in-the-middle (MITM) attacks that have taken place on the corporate network over the past few months. The team needs a solution that will ensure that data is not exposed if a man-in-the-middle attack occurs in the future.

- A. Ensuring all users have complex passwords
- B. Disabling Wi-Fi connections
- **C. Encrypting data**
- D. Enforcing password history

Answer: C

Explanation:

Data encryption ensures confidentiality and integrity even if communications are intercepted. If properly implemented (e.g., using TLS), encryption makes the payload unreadable to the attacker.

NIST SP 800-52 Rev. 2 (Guidelines for the Selection and Use of Transport Layer Security):

"Encryption technologies provide secure channels that resist interception and unauthorized access, which is essential in mitigating MITM attacks." Passwords and Wi-Fi controls support security, but encryption is the core defense against data leakage during interception.

#WGU Course Alignment:

Domain: Cryptography

Topic: Apply encryption to secure data in transit and at rest

NEW QUESTION # 165

Which peripheral replaces the mouse on a mobile device?

- A. Jack
- B. Camera
- C. USB
- **D. Stylus**

Answer: D

NEW QUESTION # 166

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