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A financial institution is required to comply with the Payment Card Industry Data Security Standard (PCI DSS), which sets requirements for the protection of payment card data. The institution uses various software programs and utilities to manage payment card data, and it is essential to ensure that only authorized programs and utilities are allowed on the institution's systems.

Which security control will meet the needs of the institution?

Application allowlisting

What is SIEM?

Security information and event management. SIEM gives security teams a central place to collect, aggregate, and analyze volumes of data across an enterprise, effectively streamlining security workflows.

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Quiz 2026 WGU Marvelous Cybersecurity-Architecture-and-Engineering: New WGU Cybersecurity Architecture and Engineering (KFO1/D488) Test Sample

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q19-Q24):

NEW QUESTION # 19

An IT organization has recently migrated its servers to the cloud. The security team needs to delegate administrative control of multiple cloud services to various administrators inside the company. This team needs a granular solution that will offer the most flexibility while maintaining a secure posture.

What is the best solution?

- A. Security Assertion Markup Language (SAML)
- B. Open Authorization (OAuth)
- C. Kerberos
- **D. Role-based access control (RBAC)**

Answer: D

Explanation:

The correct answer is C - Role-based access control (RBAC).

WGU KFO1 / D488 course material emphasizes that RBAC allows administrators to assign permissions based on roles rather than individual users. This method provides granular control and flexibility, allowing the organization to efficiently manage access rights across multiple cloud services while maintaining a strong security posture.

OAuth (A) and SAML (B) are protocols for authentication and authorization, not detailed access control models. Kerberos (D) is used for secure authentication within a network but does not provide the granular delegation capabilities needed for cloud service administration.

Reference Extract from Study Guide:

"Role-based access control (RBAC) provides a scalable and manageable model to assign permissions to users based on their organizational roles, ensuring flexibility and maintaining secure delegation of administrative tasks."

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

NEW QUESTION # 20

A security team is investigating multiple man-in-the-middle 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.

What is the best solution?

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

Answer: C

Explanation:

The correct answer is C - Encrypting data.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) states that encryption is the best defense against man-in-the-middle attacks because even if traffic is intercepted, the data remains unreadable without the appropriate decryption keys.

Disabling Wi-Fi (A) is not practical and does not eliminate MITM threats entirely. Password policies (B and D) strengthen account security but do not protect data transmission.

Reference Extract from Study Guide:

"Encryption ensures the confidentiality of data in transit, preventing unauthorized parties from accessing the content even during man-in-the-middle attacks."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Data Transmission Security

NEW QUESTION # 21

In which generation were computers first built with transistors?

- A. Second generation
- B. Third generation
- C. Fourth generation
- D. First generation

Answer: A

Explanation:

The second generation of computers (1956-1963) saw the introduction of transistors, which replaced vacuum tubes used in the first generation. Transistors allowed computers to be smaller, faster, more reliable, and more energy-efficient compared to their predecessors.

NEW QUESTION # 22

An IT organization has recently suffered multiple data breaches. The security operations center (SOC) team has been tasked with preventing future breaches by implementing user monitoring. The proposed solution must provide insights about unusual user behaviors from a variety of internal corporate resources.

Which solution meets the requirements?

- A. Secure Shell (SSH) Protocol
- B. Web application firewall (WAF)
- C. Security information and event management (SIEM)
- D. Virtual private network (VPN)

Answer: C

Explanation:

The correct answer is D - Security information and event management (SIEM).

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) explains that a SIEM solution collects, correlates, and analyzes logs and events from multiple sources to detect unusual patterns of behavior across an organization's infrastructure. SIEM systems are specifically designed for centralized monitoring and alerting on suspicious activities, which helps prevent future breaches.

VPN (A) secures communications but does not monitor behavior. SSH (B) is a secure protocol for remote access but not a monitoring tool. WAF (C) protects web applications but does not monitor user behavior across systems.

Reference Extract from Study Guide:

"Security information and event management (SIEM) platforms aggregate and analyze security data from across an enterprise, providing actionable insights into anomalous user activities and potential threats."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Security Monitoring and Event Management

NEW QUESTION # 23

How can the organizational culture support ethical guidelines?

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

Answer: A

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 # 24

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