

Cybersecurity-Architecture-and-Engineering Actual Test & Cybersecurity-Architecture-and-Engineering Lead2pass

**WGU D488 OA PREP CYBERSECURITY ARCHITECTURE
AND ENGINEERING EXAM TEST BANK 3 / D488
OBJECTIVE ASSESSMENT TEST BANK | COMPLETE 2025
ACTUAL EXAM WITH CORRECT VERIFIED ANSWERS |
GUARANTEED A+ EXAM EXCELLENCE**

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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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q123-Q128):

NEW QUESTION # 123

Which risk management strategy will supplement privacy requirements for data on an electronic health record (EHR) system?

- A. Encryption of all network traffic between the EHR system and external networks
- B. Implementation of a strict firewall policy to restrict access to the system's server
- C. Configuration of the system to disable universal serial bus (USB) ports on all workstations
- **D. Implementation of role-based access controls and encryption of all sensitive data**

Answer: D

Explanation:

The correct answer is C - Implementation of role-based access controls and encryption of all sensitive data.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), the combination of role-based access control (RBAC) and encryption protects sensitive health data by ensuring only authorized users can access necessary information, while encryption ensures the data remains secure both at rest and in transit.

Disabling USB ports (A) prevents data exfiltration but does not fulfill broad privacy requirements. Encrypting network traffic (B) protects in-transit data only. Firewalls (D) protect against unauthorized access but do not manage user roles or internal data privacy.

Reference Extract from Study Guide:

"Protecting sensitive health data requires a combination of access control models such as RBAC and encryption, ensuring both authorization and confidentiality."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Privacy and Data Protection Strategies

NEW QUESTION # 124

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

Answer: A

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 # 125

How do data support an organization's business goals?

- A. Data can be manipulated to support desired outcomes.
- B. Data ensure an organization's business goals are met.
- C. Data create opportunities to compete for potential customers.
- **D. Data provide information for business decisions.**

Answer: D

Explanation:

Data support an organization's business goals by providing crucial information that aids in making informed decisions. Analyzing data helps identify trends, measure performance, and uncover insights that drive strategic planning and operational improvements. This informed decision-making process is vital for achieving business goals and staying competitive in the market.

NEW QUESTION # 126

In which type of network topology are the networked devices connected to a central device like a hub or switch?

- A. Ring
- B. Mesh
- C. Bus
- **D. Star**

Answer: D

Explanation:

* In a star network topology, each network device is connected to a central device like a hub or a switch.

* This central device acts as a repeater for data flow.

* The other options:

* Bus topology uses a single central cable.

* Mesh topology involves each device being connected to every other device.

* Ring topology connects devices in a circular fashion.

* Therefore, the star topology correctly describes a network where devices connect to a central hub or switch.

References:

* "Data and Computer Communications" by William Stallings, which explains different network topologies.

* "Network+ Guide to Networks" by Jill West, Tamara Dean, and Jean Andrews, which covers network configurations.

NEW QUESTION # 127

An IT organization has recently implemented a hybrid cloud deployment. The server team is deploying a new set of domain-joined Windows servers on cloud-based virtual machines. Users must be able to use their Active Directory credentials to sign in to applications regardless of whether they are running on Windows servers in the cloud or on-premises.

- A. Two-step verification
- B. Privileged identity management
- **C. Identity federation**
- D. Challenge-Handshake Authentication Protocol (CHAP)

Answer: C

Explanation:

Identity federation allows authentication credentials to be used across multiple systems or domains- including on-premises and cloud platforms-without duplicating user databases.

NIST SP 800-63C (Federated Identity Guidelines):

"Federation enables users to access multiple, disparate services using a single digital identity that can be shared securely across organizational boundaries." This approach is essential in hybrid architectures where cloud VMs and on-prem servers must recognize a centralized identity provider like Active Directory.

#WGU Course Alignment:

Domain: Access Control and Identity Management

Topic: Implement federated identity in hybrid and multi-cloud environments

NEW QUESTION # 128

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