

Cybersecurity-Architecture-and-Engineering Free Download & Cybersecurity-Architecture-and-Engineering Exam Syllabus

them. Security: Since they are hosted internally, they can be secured with internal security measures like firewalls and access controls. Incorrect Options: A: Describes applications hosted by external providers. C: Describes applications hosted by third-party web portals. D: Describes standalone applications on individual computers. References: Intranet applications; Intranet Applications

QUESTION: 6

What are two differences between a handheld computer and a desktop? Choose 2 answers.

- Option A : A handheld has more memory.
- Option B : A desktop has more memory.
- Option C : A desktop has more internal storage.
- Option D : A handheld has more internal storage.

Correct Answer: B,C

Explanation/Reference:

Desktops typically have more memory (RAM) and internal storage (hard drives or SSDs) compared to handheld computers. This allows desktops to handle more intensive computing tasks and store larger amounts of data. Handheld devices, on the other hand, prioritize portability and battery life over high storage and memory capacity.

QUESTION: 7

Which IT role is responsible for installing new hardware and troubleshooting existing hardware?

- Option A : Web administrator
- Option B : System administrator
- Option C : Security administrator
- Option D : Network administrator

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q64-Q69):

NEW QUESTION # 64

Which item is an input device?

- A. Flash Drive
- B. Printer
- C. CD
- **D. Scanner**

Answer: D

Explanation:

- * An input device is any hardware component that allows a user to enter data into a computer.
- * A scanner is an input device that converts physical documents into digital format.
- * The other options:
 - * Printer is an output device.
 - * Flash drive is a storage device.
 - * CD can be both storage and media for input/output depending on the context but is not primarily used for direct data input.
- * Therefore, a scanner is the correct answer for an input device.

References:

- * "Introduction to Computer Science" by ITL Education Solutions Limited, which discusses input and output devices.
- * "Digital Fundamentals" by Thomas L. Floyd, which includes information on various peripherals.

NEW QUESTION # 65

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.

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

Answer: C

Explanation:

SIEM systems consolidate logs and events from across the enterprise and apply behavior analysis and correlation rules to detect suspicious activity, including lateral movement, brute force, and privilege escalation.

NIST SP 800-137 (Information Security Continuous Monitoring for Federal Information Systems and Organizations):

"SIEM solutions provide security teams with insight into potentially malicious activity and enable proactive incident detection and response."

#WGU Course Alignment:

Domain: Security Operations and Monitoring

Topic: Utilize SIEM for real-time user behavior analysis

NEW QUESTION # 66

An IT organization needs to enable secure communication across virtual networks in Microsoft Azure and Amazon Web Services. Which protocol will offer the most reliable and secure method for data transport?

- **A. Internet Protocol Security (IPsec)**
- B. Secure Shell (SSH)
- C. File Transfer Protocol (FTP)

Answer: A

Explanation:

IPsec is an end-to-end encryption protocol suite that operates at the network layer, providing authentication, integrity, and confidentiality between virtual networks—even across different cloud environments like Azure and AWS.

NIST SP 800-77 Rev. 1 (Guide to IPsec VPNs):

"IPsec provides network-layer protection through authentication headers (AH) and encapsulating security payloads (ESP), suitable for securing traffic across untrusted environments." FTP is insecure, and SSH is more suitable for command-line access or remote sessions—not secure VPC-to-VPC tunnels.

#WGU Course Alignment:

Domain: Cryptography

Topic: Use encryption protocols like IPsec for secure data transmission between networks

NEW QUESTION # 67

A company is concerned about the potential risks associated with unauthorized modifications to the basic input/output system (BIOS) firmware on its servers. The company has decided to implement hardening techniques and endpoint security controls to mitigate the risk.

Which technique will prevent unauthorized modifications to the BIOS firmware on a server?

- A. BIOS monitoring
- B. Conducting regular backups of the server's data
- **C. BIOS protection**
- D. Using an intrusion detection system to detect and prevent attacks

Answer: C

Explanation:

The correct answer is D - BIOS protection.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) recommends enabling BIOS protection features such as BIOS passwords, secure boot, and firmware write protection to prevent unauthorized changes to BIOS firmware. BIOS protection locks the firmware settings to prevent tampering.

BIOS monitoring (A) detects changes but does not prevent them. IDS (B) detects network attacks, not firmware changes. Backups (C) protect data but not BIOS integrity.

Reference Extract from Study Guide:

"BIOS protection involves securing firmware with authentication methods and write protections to prevent unauthorized modifications at the hardware level."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Hardware and Firmware Security

NEW QUESTION # 68

An IT organization has seen a surge of ransomware and Trojan horse attacks recently.

Which action should the security team recommend to protect the IT infrastructure from commodity malware threats?

- A. Installing a firewall to identify malicious traffic
- **B. Installing endpoint protection software**
- C. Implementing a two-factor authentication system
- D. Rerouting suspicious communications to a remote machine

Answer: B

Explanation:

The correct answer is D - Installing endpoint protection software.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) teaches that endpoint protection (including antivirus, anti-malware, and endpoint detection and response) is critical for detecting, blocking, and removing commodity malware like ransomware and Trojans.

Firewalls (A) help with perimeter security but don't directly block malware on endpoints. Rerouting communications (B) is not a standard protection method. Two-factor authentication (C) secures logins but does not protect systems from malware infection. Reference Extract from Study Guide:

"Endpoint protection software defends individual systems against malware threats by detecting, blocking, and removing malicious files and processes."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Endpoint Security Solutions

NEW QUESTION # 69

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