

# Cybersecurity-Architecture-and-Engineering Exam Fee, Cybersecurity-Architecture-and-Engineering Test Score Report

**WGU D488 OA PREP CYBERSECURITY ARCHITECTURE AND ENGINEERING EXAM TEST BANK 3 / D488**  
**OBJECTIVE ASSESSMENT TEST BANK | COMPLETE 2025**  
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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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## **WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q128-Q133):**

### **NEW QUESTION # 128**

A government agency needs to deploy a secure network connection between its offices in Chicago and New York. What should be used to facilitate this connection?

- A. Point-to-Point Tunneling Protocol (PPTP)
- **B. Virtual private network (VPN)**
- C. Network access control (NAC)
- D. Security information and event management (SIEM)

### **Answer: B**

Explanation:

The correct answer is A - Virtual private network (VPN).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), a VPN creates an encrypted tunnel over public or private networks, ensuring confidentiality, integrity, and authentication of data transmitted between geographically dispersed offices. SIEM (B) manages security events, not secure communications. PPTP (C) is an outdated and insecure VPN protocol. NAC (D) enforces endpoint security but does not establish secure tunnels.

Reference Extract from Study Guide:

"A virtual private network (VPN) provides a secure, encrypted tunnel between geographically separated networks, enabling confidential communication over untrusted networks."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Secure Remote Access Technologies

### **NEW QUESTION # 129**

An IT organization is deploying a new secure Simple Mail Transfer Protocol (SMTP) server to handle email communications for the company. The company must ensure that the servers are secure and protected from external threats. The SMTP servers should be able to communicate with the internal network and the internet, but all incoming and outgoing traffic should be inspected and filtered to prevent cyberattacks.

- A. Open Transmission Control Protocol (TCP) port 25 on the firewall
- B. Block Transmission Control Protocol (TCP) port 25 on the firewall
- C. Deploy a firewall in front of the SMTP servers
- **D. Deploy the SMTP servers in a demilitarized zone (DMZ) between two firewalls**

### **Answer: D**

Explanation:

Deploying the SMTP server in a DMZ between two firewalls allows email traffic to be filtered before it ever touches the internal network. The DMZ serves as a security buffer zone where public-facing services are isolated but still accessible from both internal and external networks, thus reducing the attack surface.

NIST SP 800-41 Rev. 1 (Guidelines on Firewalls and Firewall Policy):

"Organizations often place publicly accessible resources (e.g., SMTP servers) in a demilitarized zone (DMZ) between two firewalls to provide layered protection and isolate internal systems from external threats."

#WGU Course Alignment:

Domain: Network Architecture and Design

Topic: Implement secure DMZ design and segmentation

### NEW QUESTION # 130

Which block cipher mode of operation for encrypting data is simple and efficient and provides no confidentiality beyond that of the underlying block cipher?

- A. Output feedback (OFB)
- B. Counter (CTR)
- C. Cipher block chaining (CBC)
- D. **Electronic codebook (ECB)**

#### Answer: D

Explanation:

The correct answer is A - Electronic codebook (ECB).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), ECB mode is the simplest and most basic mode of operation for block ciphers. It encrypts each block of plaintext independently with the same key, but identical plaintext blocks produce identical ciphertext blocks, providing no additional confidentiality beyond the block cipher itself and making patterns visible. CBC (B), CTR (C), and OFB (D) are more secure and avoid patterns.

Reference Extract from Study Guide:

"Electronic Codebook (ECB) mode encrypts each block independently and is simple but reveals patterns when identical plaintext blocks occur, thus offering minimal confidentiality beyond the underlying cipher."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Block Cipher Modes of Operation

### NEW QUESTION # 131

A company wants to secure its computer systems and prevent any unauthorized access to its network. The company wants to implement a security solution that can restrict network traffic to only approved services and applications.

Which security technology will meet the needs of this company?

- A. **Host-based firewall**
- B. Antivirus tools
- C. Hardware security module (HSM)
- D. Two-factor authentication

#### Answer: A

Explanation:

The correct answer is C - Host-based firewall.

According to the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) materials, a host-based firewall enforces traffic control policies at the endpoint level. It can allow or deny traffic based on application, port, IP address, and protocol rules, restricting access to only approved services and applications on a system.

Antivirus tools (A) detect malware but do not control network traffic. Two-factor authentication (B) secures user access but does not manage network traffic. HSMs (D) handle encryption keys, not network access control.

Reference Extract from Study Guide:

"Host-based firewalls restrict traffic at the system level, permitting only authorized services and applications, enhancing endpoint security."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Endpoint Protection and Firewalls

### NEW QUESTION # 132

Match the legislative purpose with the corresponding legislation.

Answer options may be used more than once or not at all.

DMCA  
FERPA  
HIPPA  
SEAL

Prohibits agencies from distributing an individual's health information without the individual's consent.

DMCA  
FERPA  
HIPPA  
SEAL

Gives students the right to access their own educational records and prevents schools from distributing student records without permission.

DMCA  
FERPA  
HIPPA  
SEAL

**Answer:**

Explanation:

Makes it illegal to violate copyrights by disseminating digitized material.

DMCA  
FERPA  
HIPPA  
SEAL

Prohibits agencies from distributing an individual's health information without the individual's consent.

DMCA  
FERPA  
HIPPA  
SEAL

Gives students the right to access their own educational records and prevents schools from distributing student records without permission.

DMCA  
FERPA  
HIPPA  
SEAL

\* DMCA (Digital Millennium Copyright Act)

\* Purpose: The DMCA makes it illegal to violate copyrights by disseminating digitized material.

\* Explanation: The DMCA was enacted in 1998 to address the issues of digital rights management and copyright infringement in the digital age. It provides legal protection to copyright holders against unauthorized copying, sharing, and distribution of their digital works. The legislation criminalizes the production and dissemination of technology, devices, or services intended to circumvent measures that control access to copyrighted works (commonly known as DRM- Digital Rights Management).

DMCA Overview - U.S. Copyright Office

HIPAA (Health Insurance Portability and Accountability Act)

Purpose: Prohibits agencies from distributing an individual's health information without the individual's consent.

Explanation: HIPAA, enacted in 1996, is designed to protect individuals' medical records and other personal health information. The Privacy Rule under HIPAA sets standards for the protection of health information by health plans, healthcare clearinghouses, and healthcare providers that conduct certain healthcare transactions electronically. It mandates the protection and confidential handling of protected health information (PHI).

References: HIPAA Privacy Rule - U.S. Department of Health & Human Services FERPA (Family Educational Rights and Privacy Act) Purpose: Gives students the right to access their own educational records and prevents schools from distributing student records without permission.

Explanation: FERPA is a federal law enacted in 1974 that protects the privacy of student education records.

It grants parents certain rights with respect to their children's education records, which transfer to the student when they reach 18 years of age or attend a school beyond the high school level. FERPA requires that schools must have written permission from the student or parent to release any information from a student's education record.

References: FERPA Regulations - U.S. Department of Education

**NEW QUESTION # 133**

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