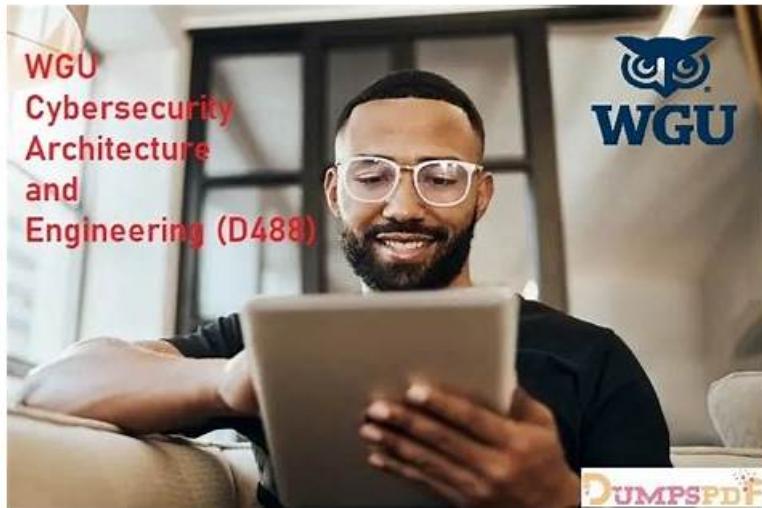


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## **WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q42-Q47):**

### **NEW QUESTION # 42**

A software development company is concerned about the potential risks associated with exploits that target vulnerabilities in the Linux operating system used by the company's servers. The company has decided to implement hardening techniques and endpoint security controls to mitigate the risk.

Which hardening technique will meet the needs of this company?

- A. Implementing a host-based intrusion detection and prevention system
- **B. Implementing shell restrictions**
- C. Enforcing strict access control policies for all users
- D. Conducting regular security assessments and penetration testing

**Answer: B**

Explanation:

The correct answer is C - Implementing shell restrictions.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), shell restrictions on Linux systems can prevent users (or attackers) from executing unauthorized commands, significantly reducing the exploitation risk on Linux servers.

Host-based IDPS (A) detects attacks but does not directly harden the OS. Access control (B) and assessments /penetration testing (D) are important but do not focus specifically on securing the Linux shell environment.

Reference Extract from Study Guide:

"Implementing shell restrictions on Linux systems minimizes the attack surface by limiting the ability of users and processes to execute unauthorized commands."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Linux System Hardening Techniques

**NEW QUESTION # 43**

A company has recently experienced a data breach in which customer information was stolen. The company is concerned about the potential for future data breaches. A review of the incident revealed that the breach originated from stolen credentials.

Which security measure will meet the needs of this company?

- A. Providing regular security awareness training to employees
- B. Conducting background checks on employees
- **C. Implementing two-factor authentication**
- D. Installing a security information and event management (SIEM) system

**Answer: C**

Explanation:

The correct answer is A - Implementing two-factor authentication.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488) content, two-factor authentication (2FA) strengthens authentication processes by requiring users to provide two forms of evidence (e.g., password + SMS code or authentication app) before accessing systems. Even if credentials are stolen, without the second factor, attackers would be unable to log in.

Background checks (B) are important for insider threats but not stolen external credentials. Security awareness training (C) is good practice but does not technically prevent the misuse of stolen credentials.

SIEM systems (D) help detect breaches but do not stop unauthorized access at the authentication layer.

Reference Extract from Study Guide:

"Two-factor authentication mitigates the risks associated with credential theft by requiring an additional factor, significantly improving the security posture."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Authentication and Identity Management

**NEW QUESTION # 44**

A medium-sized grocery chain with locations all across the United States has a new business requirement that all devices must authenticate to access its resources.

What should the grocery chain use for the devices to authenticate?

- A. Certificate signing
- **B. Public key infrastructure (PKI)**
- C. Endpoint passwords
- D. Virtual private network (VPN)

**Answer: B**

Explanation:

The correct answer is B - Public key infrastructure (PKI).

According to the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) Study Guide, PKI is the framework that enables the issuance and management of digital certificates used for device authentication. By using certificates, devices can securely authenticate themselves to access corporate resources without relying solely on passwords.

VPNs (A) secure network connections but do not authenticate devices themselves. Certificate signing (C) is a part of PKI but not the complete infrastructure. Endpoint passwords (D) authenticate users, not necessarily the devices.

Reference Extract from Study Guide:

"Public key infrastructure (PKI) enables the issuance of digital certificates used for authenticating users, systems, and devices, ensuring secure access control."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Cryptography and PKI Concepts

#### NEW QUESTION # 45

Which technique allows someone to obtain a password while it is in transit?

- A. **Packet sniffing**
- B. Black hat
- C. Buffer overflow
- D. Phishing

**Answer: A**

Explanation:

\* Packet sniffing is a technique used to capture and analyze network traffic, which can include intercepting passwords while they are in transit.

\* When data packets are transmitted over a network, a packet sniffer can capture these packets, and if they are not encrypted, it can read sensitive information like passwords.

\* The other options:

\* Buffer overflow is a type of attack that exploits a program's memory handling.  
\* Phishing is a social engineering attack to deceive users into providing sensitive information.  
\* Black hat refers to a hacker with malicious intent, not a specific technique.  
\* Therefore, packet sniffing is the correct technique for obtaining passwords in transit.

References:

\* "Network Security Essentials: Applications and Standards" by William Stallings, which explains packet sniffing and network security threats.

\* "Computer Security: Principles and Practice" by William Stallings and Lawrie Brown, which covers network attack techniques including packet sniffing.

#### NEW QUESTION # 46

The development team has requested permission to use several open-source libraries to build a corporate web application. Which resource can the security team recommend to ensure these libraries can be trusted?

- A. Agile software development
- B. Continuous delivery
- C. **Common Vulnerabilities and Exposures (CVE)**
- D. Waterfall software development

**Answer: C**

Explanation:

The correct answer is C - Common Vulnerabilities and Exposures (CVE).

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) highlights that the CVE database provides information about publicly disclosed cybersecurity vulnerabilities in software, including open-source libraries.

By consulting the CVE list, the security team can assess whether the open-source libraries have known vulnerabilities before approving their use.

Agile (A) and Waterfall (B) are software development methodologies, not vulnerability databases. Continuous delivery (D) refers to automated software deployment and not vulnerability assessment.

Reference Extract from Study Guide:

"The Common Vulnerabilities and Exposures (CVE) database provides standardized information on publicly known cybersecurity vulnerabilities, enabling risk assessment of software components."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Vulnerability Management Concepts

## NEW QUESTION # 47

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