

# Reliable Cybersecurity-Architecture-and-Engineering Study Plan, Detailed Cybersecurity-Architecture-and-Engineering Answers

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## WGU D488 – Cybersecurity Architecture & Engineering (2025/2026) | Complete Study Guide with Verified Questions & Accurate Answers

1. What is the term used to describe the assessment of whether a vendor will remain in business?  
 **Vendor viability**  
 Source code escrow  
 Vendor lock-in  
 Vendor lockout
2. Devon is using an IaaS environment and would like to provision storage that will be used as a disk attached to a server instance. What type of storage should he use?  
 Archival storage  
 Object storage  
 **Block storage**  
 Database storage
3. If a company is implementing a new security policy that requires only approved applications to run on employee workstations, which security measure should they implement?  
 Block list

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### **WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q133-Q138):**

#### **NEW QUESTION # 133**

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

**Answer: B**

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 # 134**

An organization wants to ensure that its website is free of certain vulnerabilities before the final hand-off to the client.

What testing method should the organization use to inspect traffic to detect potential issues?

- A. Port scanner
- B. Bastion scanner
- **C. HTTP interceptor**
- D. Domain interceptor

**Answer: C**

Explanation:

The correct answer is C - HTTP interceptor.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), an HTTP interceptor is a tool or method used to capture, inspect, and manipulate HTTP/S traffic between a client and server. It allows testers to identify security vulnerabilities such as improper input validation, session management flaws, and exposure of sensitive data.

A Bastion scanner (A) is not a standard tool for traffic inspection. Port scanners (B) check for open ports but do not inspect HTTP traffic content. Domain interceptors (D) are not a recognized testing tool in this context.

Reference Extract from Study Guide:

"HTTP interceptors allow for the inspection and manipulation of web traffic, helping to identify application vulnerabilities prior to deployment."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Web Application Security Testing

### NEW QUESTION # 135

A company is preparing to test its disaster recovery plan, which includes procedures for restoring critical systems in the event of a disruption. The company wants to conduct a test that is as close to a real disaster as possible without actually disrupting business operations.

Which disaster recovery test will meet the needs of the company?

- A. Full interruption test
- **B. Parallel simulation test**
- C. Walk-through test
- D. Tabletop exercise

**Answer: B**

Explanation:

The correct answer is B - Parallel simulation test.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) defines a parallel simulation test as simulating a disaster recovery process where systems are restored at an alternate site without actually taking the primary systems offline. It allows organizations to test full restoration capabilities while avoiding disruption of live operations.

Walk-throughs (A) and tabletop exercises (D) are lower-impact simulations. Full interruption tests (C) would stop operations, which the company wants to avoid.

Reference Extract from Study Guide:

"Parallel simulation tests validate the ability to recover and operate critical systems at an alternate site without affecting primary business operations."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Disaster Recovery Testing Types

### NEW QUESTION # 136

A healthcare organization has experienced a ransomware attack that has resulted in the encryption of all patient medical records. The organization has backups, but restoring the data will take several days, and during that time, patient care will be significantly diminished.

What is the most important factor to consider when evaluating the severity of the ransomware attack?

- A. Likelihood
- B. Risk
- **C. Impact**
- D. Threat actors

**Answer: C**

Explanation:

The correct answer is C - Impact.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488) materials, when evaluating the severity of an incident, the immediate and potential impact on operations, patient care, finances, or reputation is the most critical factor. In this scenario, the interruption to patient care due to encrypted records signifies a major operational impact, making it the most important consideration.

Threat actors (A) identify who is behind the attack, not the severity. Risk (B) encompasses impact and likelihood but is broader. Likelihood (D) concerns the probability of an event happening, not its current severity.

Reference Extract from Study Guide:

"Impact refers to the actual or potential harm that results from a security incident, including effects on operations, financial loss, or harm to individuals."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Incident Response and Management

### NEW QUESTION # 137

Which risk management strategy will ensure the secure configuration and deployment of a new online banking system and help prevent credit card fraud?

- A. Configuration of the system to disable all email services on all workstations
- B. Implementation of a strict firewall policy to restrict access to the system's server
- C. Use of regular system backups to an off-site location
- **D. Implementation of real-time transaction monitoring**

**Answer: D**

Explanation:

The correct answer is A - Implementation of real-time transaction monitoring.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), real-time transaction monitoring detects and alerts suspicious banking activities immediately, helping prevent credit card fraud and securing the online banking system during deployment and use.

Strict firewall policies (B) help secure access but are not transaction-specific. Disabling email (C) and performing backups (D) are good practices but do not directly address fraud prevention.

Reference Extract from Study Guide:

"Real-time transaction monitoring identifies suspicious activities, providing immediate detection and prevention of fraudulent transactions in online banking systems."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Financial Systems and Fraud Prevention Strategies

### NEW QUESTION # 138

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