

Exam Cybersecurity-Architecture-and-Engineering Sample - Cybersecurity-Architecture-and-Engineering Answers Free

**WGU D488 CYBERSECURITY
ARCHITECTURE AND ENGINEERING
FINAL EXAM 2025 WITH CORRECT
VERIFIED ANSWERS**

An IT Security Team Has Been Notified That External Contractors Are Using Their Personal Laptops To Gain Access To The Corporate Network. The Team Needs To Recommend A Solution That Will Prevent Unapproved Devices From Accessing The Network.

Which Solution Fulfills These Requirements?

- A) Implementing A Demilitarized Zone (Dmz)
- B) Installing A Hardware Security Module
- C) Implementing Port Security
- D) Deploying A Software Firewall

C) Implementing Port Security

Which Method Allows A Process To Check If A Certificate Is Still Valid By Referencing A List Of Revoked And Suspended Certificates?

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q80-Q85):

NEW QUESTION # 80

An engineer has noticed increased network traffic originating from an unknown IP address. Which action should be taken to analyze the unusual network traffic patterns?

- A. Permanently block all incoming traffic from the unknown IP address
- **B. Compare the unknown address to known IP addresses to determine if it is a threat**
- C. Temporarily block all incoming traffic from the unknown IP address
- D. Rate limit incoming traffic from the unknown IP address

Answer: B

Explanation:

Before taking disruptive actions, identification and threat classification must occur. Cross-referencing against known malicious IP lists (e.g., threat intelligence feeds) helps determine if the address is benign, malicious, or compromised.

NIST SP 800-61 Rev. 2 (Computer Security Incident Handling Guide):

"Security teams should validate the threat source by comparing it to blacklists and threat intelligence before containment steps are taken." Blocking or rate-limiting prematurely may disrupt legitimate activity, making intelligence-based comparison the prudent first step.

#WGU Course Alignment:

Domain: Security Operations and Monitoring

Topic: Perform traffic analysis and threat intelligence correlation

NEW QUESTION # 81

A financial institution is planning to conduct a business impact analysis (BIA) to evaluate the criticality of its business processes and functions.

Which steps will allow the company to perform a BIA?

- **A. Determine business processes and recovery criticality, identify resource requirements, and identify recovery priorities for system resources**
- B. Monitor network and system activity, detect security incidents, and respond quickly to minimize the impact on critical business processes
- C. Determine recovery time objectives and recovery point objectives, develop recovery strategies, and document the recovery plan
- D. Develop business continuity plans and procedures, establish a crisis management team, and test the plan regularly

Answer: A

Explanation:

The correct answer is C - Determine business processes and recovery criticality, identify resource requirements, and identify recovery priorities for system resources.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), a BIA identifies critical business functions, determines the impact of disruptions, and establishes recovery priorities, including resource needs.

A (monitoring) relates to incident response. B (developing BCP) is after BIA. D (recovery strategies) is part of disaster recovery planning after BIA findings.

Reference Extract from Study Guide:

"Business impact analysis (BIA) involves determining critical business processes, evaluating their recovery requirements, and prioritizing system recovery efforts."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Business Impact Analysis Procedures

NEW QUESTION # 82

An organization's engineering team is developing a mobile application that uses near-field communication (NFC) capabilities but wants to ensure that information communicated using this protocol remains confidential.

- A. Bluetooth device honing restrictions for increased-risk transactions
- **B. Encryption to prevent man-in-the-middle and eavesdropping attacks**
- C. Portable device management (PDM) to allow only authorized protocols
- D. Kerberos centralized server for token and certificate management

Answer: B

Explanation:

The correct answer is D - Encryption to prevent man-in-the-middle and eavesdropping attacks.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) explains that while NFC is inherently short-range, it is still vulnerable to eavesdropping and man-in-the-middle attacks. Applying encryption ensures that even if communication is intercepted, the data remains protected and confidential.

Kerberos (A) is primarily for authentication within internal networks. Bluetooth restrictions (B) are unrelated to NFC. PDM (C) restricts device usage but does not directly protect NFC communication.

Reference Extract from Study Guide:

"Encrypting near-field communication ensures confidentiality and protects against interception and manipulation through man-in-the-middle and eavesdropping attacks."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Wireless and Mobile Security Concepts

NEW QUESTION # 83

The DevSecOps team for an organization manages a continuous integration and continuous deployment (CI /CD) pipeline for a three-tier web application. Management has asked the team to perform a series of comprehensive post-deployment tests to make sure that all of the components of the application can interact and function properly.

What should the team recommend?

- A. Package scanning
- B. Dynamic code analysis
- C. Static code analysis
- **D. Integration testing**

Answer: D

Explanation:

The correct answer is C - Integration testing.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), integration testing verifies that different modules or components of an application work together as intended. This type of testing is essential after deployment to ensure the overall system functions correctly across all tiers (e.g., web, application, and database layers).

Static code analysis (A) examines source code without execution. Dynamic code analysis (B) tests running code for vulnerabilities but not necessarily component interaction. Package scanning (D) reviews third-party libraries for vulnerabilities but does not test integration.

Reference Extract from Study Guide:

"Integration testing verifies that multiple components of an application function correctly when combined, ensuring end-to-end system reliability post-deployment."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Secure Software Development and Testing

NEW QUESTION # 84

A company has recently failed a security audit. Many of the end users have passwords older than 365 days.

Which password policy type will prevent this issue?

- A. Complexity
- B. Length
- C. Expiration
- D. Recovery

Answer: C

Explanation:

The correct answer is A - Expiration.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), password expiration policies require users to change their passwords after a certain period, ensuring that long-term credential exposure risk is minimized.

Length (B) defines minimum password size. Recovery (C) relates to resetting forgotten passwords.

Complexity (D) enforces character requirements, not age.

Reference Extract from Study Guide:

"Password expiration policies require users to update passwords regularly, minimizing the risk of long-term credential exposure."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Password Security Best Practices

NEW QUESTION # 85

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