

WGU Cybersecurity-Architecture-and-Engineering Questions - Highly Recommended By Professionals

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 (Q155-Q160):

NEW QUESTION # 155

A small start-up is setting up its first network, and it needs to ensure that its network security is adequate. The start-up is aware of the latest cybersecurity threats and the need for strong security measures. In addition to network security, the start-up wants to ensure that it has a disaster recovery plan in place in case of any unexpected events.

Which approach will meet the needs of the start-up?

- A. Virtual private network (VPN)
- B. Bootstrapping
- C. Packet filtering
- D. Intrusion detection system (IDS)

Answer: D

Explanation:

The correct answer is A - Intrusion detection system (IDS).

As outlined in WGU Cybersecurity Architecture and Engineering (KFO1 / D488), an IDS helps monitor network traffic for suspicious activities and security threats, making it a fundamental component of securing a network for a start-up. It enables early detection of attacks, contributing both to cybersecurity defense and incident response efforts.

Packet filtering (B) is a limited firewall technique and not as comprehensive. Bootstrapping (C) is a startup or initialization process, not a security measure. VPN (D) secures remote access but does not inherently monitor for threats.

Reference Extract from Study Guide:

"An intrusion detection system (IDS) monitors network traffic for suspicious activity and potential threats, enhancing a network's security posture and supporting incident detection."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Network Security Monitoring and Defense Here are your fully verified and properly formatted answers for this final batch, based on WGU Cybersecurity Architecture and Engineering (KFO1 / D488) official materials:

NEW QUESTION # 156

What is a function of a compiler?

- A. It translates a source code and creates an executable program that may be run at a later time.
- B. It gathers together multiple executable programs and translates them into a readable format.
- C. It takes the most recent instruction and translates it as machine language.
- D. It takes a program written in a high-level language and converts it to a different high-level language program.

Answer: A

Explanation:

A compiler translates high-level programming language code into machine code, creating an executable program.

* Process: The compiler goes through various phases such as parsing, semantic analysis, and optimization to produce the final machine code.

* Purpose: This machine code can be executed by the computer's processor at a later time without the need for the original source code.

References

* "Programming Language Pragmatics" by Michael L. Scott

* "Modern Compiler Implementation in C" by Andrew W. Appel

NEW QUESTION # 157

A software company is reviewing its disaster recovery plan and wants to identify the criticality of its business processes to prioritize

its recovery efforts.

Which will determine the criticality of its business processes?

- **A. Business impact analysis (BIA)**
- B. Incident response (IR)
- C. Disaster recovery (DR)
- D. Business continuity planning (BCP)

Answer: A

Explanation:

The correct answer is B - Business impact analysis (BIA).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), a BIA identifies and prioritizes critical business functions and assesses the impact of disruptions on those functions. It determines recovery priorities and establishes the framework for disaster recovery and business continuity planning.

BCP (A) is the broader planning effort. DR (C) focuses on restoring systems. IR (D) responds to specific incidents, not overall business impacts.

Reference Extract from Study Guide:

"Business impact analysis (BIA) determines the criticality of business processes by assessing the potential impacts of disruptions, providing the foundation for prioritizing recovery efforts."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Business Continuity and Disaster Recovery Planning

NEW QUESTION # 158

The cybersecurity analyst at a hardware company conducted a vulnerability assessment to identify potential security risks to the organization and discovered multiple vulnerabilities on the company's webpage. The analyst then provided the results to the chief information security officer (CISO), who then decided to decommission the website and create a new page with increased security controls.

Which risk mitigation strategy is demonstrated in this scenario?

- **A. Avoid**
- B. Transfer
- C. Mitigate
- D. Accept

Answer: A

Explanation:

The correct answer is B - Avoid.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) materials explain that risk avoidance involves eliminating the source of risk entirely. In this scenario, by decommissioning the vulnerable website and starting anew, the organization is removing the risky environment instead of trying to fix or transfer the risk, which is a clear example of risk avoidance.

Accepting (A) would mean tolerating the risk without action. Transferring (C) would involve shifting the risk to a third party (like insurance). Mitigating (D) would involve reducing the risk without removing the vulnerable system.

Reference Extract from Study Guide:

"Risk avoidance entails eliminating the conditions that expose the organization to a threat, thereby completely removing the associated risk."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Response Strategies

NEW QUESTION # 159

Which method is frequently used to protect software?

- A. Fair use
- B. Trademarks
- **C. Copyrights**
- D. GNU General Public License

Answer: C

Explanation:

- * Copyrights are a common legal method used to protect software.
- * A copyright gives the creator of the software exclusive rights to use and distribute the software.
- * It protects against unauthorized copying, modification, and distribution of the software.
- * Software creators can enforce their copyrights to prevent others from infringing on their intellectual property.
- * Example: Copyright law is often invoked in cases of software piracy.

References:

- * "Copyright Law for the Internet and Information Technology" by Gerakline Collins.
- * "Understanding Copyright Law" by Marshall A. Leaffer.

NEW QUESTION # 160

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