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WGU D488 CYBERSECURITY ARCHITECTURE & ENGINEERING OBJECTIVE ASSESSMENT ACTUAL EXAM 2025-2026 COMPLETE QUESTIONS AND CORRECT DETAILED ANSWERS || 100% GUARANTEED PASS <LATEST VERSION>

1. A private subnet must use a _____ located in a public subnet in order to connect to the Internet. - ANSWER ✓ Network Address Translation (NAT) Gateway

2. In a cloud environment, the _____ is a Virtual Private Cloud component used to allow communication between the VPC and the Internet. - ANSWER ✓ Internet Gateway

3. Methods of Defending against DDoS Attacks - ANSWER ✓ 1. Rate Limiting
2. Web Application Firewall (WAF)
3. Blackhole Routing
4. Cloud Service Providers (CSP)
5. DDoS Mitigation Software/Appliance

4. Can be used to reduce the amount of throughput available to the server or service that may be experiencing a DDoS attack. - ANSWER ✓ Rate Limiting

5. A device or virtual appliance which provides multiple security services in a single solution. It can be a useful mechanism for the protection of branch

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

NEW QUESTION # 133

A financial institution conducted a cybersecurity assessment, which identified several vulnerabilities, including outdated software and weak password policies. The company also needs to implement a new core banking system that can handle a large number of transactions while ensuring the security of customer data.
Which risk mitigation process is the most effective approach to address these vulnerabilities, and what is the best topology for the new core banking system?

- A. Implementing security patches and updates on a regular basis and using hybrid cloud topology
- B. Conducting regular security audits and penetration testing and using private cloud topology
- C. Creating strong password policies and enforcing multifactor authentication and using public cloud topology
- D. Installing antivirus software on all endpoints and using on-premise topology

Answer: A

Explanation:
The correct answer is B - Implementing security patches and updates on a regular basis and using hybrid cloud topology.
WGU Cybersecurity Architecture and Engineering (KFO1 / D488) emphasizes that timely application of security patches is critical to addressing vulnerabilities like outdated software. A hybrid cloud topology offers the flexibility and scalability needed by financial institutions while keeping sensitive data protected in more controlled environments.
Strong password policies (A) help, but public cloud alone may not be best for sensitive banking systems.
Antivirus (C) addresses only part of the threat. Private cloud (D) improves security but may not offer the scalability benefits of a hybrid approach.
Reference Extract from Study Guide:
"Timely application of security patches mitigates vulnerabilities, and hybrid cloud models balance the need for scalability and sensitive data protection in financial institutions."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Mitigation Strategies and Cloud Topologies

NEW QUESTION # 134

A government agency is evaluating its business continuity plan to ensure that its operations can continue during a crisis.
What is the term used to describe the critical services that must be maintained during a disruption?

- A. Mission essential functions (MEFs)
- B. Recovery point objective (RPO)
- C. Disaster recovery (DR)
- D. Business continuity planning (BCP)

Answer: A

Explanation:
The correct answer is D - Mission essential functions (MEFs).
WGU Cybersecurity Architecture and Engineering (KFO1 / D488) specifies that mission essential functions (MEFs) are those activities that must be maintained or resumed quickly during or after a disruption to ensure continuity of critical operations, particularly for government agencies.

BCP (A) is the plan itself. DR (B) focuses on IT and system recovery. RPO (C) measures acceptable data loss but does not define critical services.
Reference Extract from Study Guide:
"Mission essential functions (MEFs) are critical activities that must be performed continuously or resumed quickly after disruption to support business or agency operations."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Continuity of Operations Planning

NEW QUESTION # 135
Which item facilitates communication between applications and databases?

- A. Application driver
- B. Application database
- C. Database driver
- D. Database application

Answer: C

Explanation:
A database driver is a software component that enables communication between an application and a database.
* Function: It acts as a bridge, allowing applications to send queries to the database and retrieve results.
* Types: Common database drivers include ODBC (Open Database Connectivity) and JDBC (Java Database Connectivity).
References
* "Database System Concepts" by Abraham Silberschatz, Henry F. Korth, and S. Sudarshan
* "Data Management for Researchers" by Kristin Briney
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NEW QUESTION # 136
An e-learning company uses Amazon Simple Storage Service (Amazon S3) to store e-books and video files that are served to customers through a custom application. The company has realized that someone has been stealing its intellectual property.
Which threat actor is most likely in this scenario?

- A. Advanced persistent threat
- B. Competitor
- C. Novice hacker
- D. Hacktivist

Answer: B

Explanation:
The correct answer is C - Competitor.
According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), competitors often attempt to steal intellectual property to gain a business advantage. Given the theft of valuable business assets (e-books and videos), the most likely actor is a competitor motivated by financial or market advantage, not ideology or random hacking.
An APT (A) is usually nation-state-sponsored and targets critical infrastructure. A novice hacker (B) might deface or cause damage but is less likely focused on IP theft. Hacktivists (D) are politically motivated, not financially.
Reference Extract from Study Guide:
"Competitors may engage in cyber espionage to steal intellectual property and gain market advantage, representing a significant threat to business assets."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Threat Actor Categories

NEW QUESTION # 137
A financial services company is concerned about the potential risks associated with sensitive customer data stored on employee laptops. 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 local drive encryption on employee laptops
- B. Restricting user permissions for laptop software installation

- C. Conducting regular security awareness training for employees
- D. Implementing biometric authentication for laptop log-ins

Answer: A

Explanation:
The correct answer is C - Implementing local drive encryption on employee laptops.
WGU Cybersecurity Architecture and Engineering (KFO1 / D488) explains that encryption protects sensitive data at rest, ensuring that if a laptop is lost or stolen, the data remains unreadable without the decryption key.
This control directly addresses the protection of sensitive customer data.
Restricting software installation (A) is a good security practice but does not specifically protect stored sensitive data. Biometric authentication (B) strengthens authentication but does not encrypt data. Awareness training (D) helps users behave securely but does not technically protect the data itself.
Reference Extract from Study Guide:
"Local drive encryption protects sensitive data stored on mobile devices such as laptops, ensuring confidentiality even if the device is lost or stolen."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Endpoint Security and Device Hardening

NEW QUESTION # 138

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