

# 100% WGU Cybersecurity-Architecture-and-Engineering Correct Answers, Visual Cybersecurity-Architecture-and-Engineering Cert Test

## WGU D488 Objective Assessment (Latest Update 2025 / 2026) Cybersecurity Architecture and Engineering | Questions and Answers | Grade A | 100% Correct (Verified Solutions)

### Question:

single sign-on (SSO)

### Answer:

Using one authentication credential to access multiple accounts or applications. In Windows this is provided by the Kerberos framework.

### Question:

Remote Authentication Dial-In User Service (RADIUS)

### Answer:

The RADIUS client is configured with the IP address of the RADIUS server and with a shared secret. Clients are switches and access points or VPN gateways and lot user laptops. This was developed in the time of dial up networking.

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## WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q175-Q180):

### NEW QUESTION # 175

Which method is frequently used to protect software?

- A. Trademarks
- B. Fair use
- 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 Geraldine Collins.
- \* "Understanding Copyright Law" by Marshall A. Leaffer.

### NEW QUESTION # 176

A security analyst for a financial institution is in the process of planning to upgrade the institution's IT infrastructure to meet current industry standards. There are various potential risks associated with the upgrade, including data breaches, system outages, and cost overruns. The analyst is tasked with managing these risks to ensure a successful upgrade.

What is the first step in the risk management life cycle in this scenario?

- A. Control
- B. Assess
- C. Identify
- D. Review

**Answer: C**

Explanation:

The correct answer is D - Identify.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), the first step in risk management is identifying potential risks. Only once risks are identified can they be assessed, controlled, and reviewed. In this case, identifying potential data breaches, outages, and cost issues is the starting point.

Assess (A) happens after identification. Control (B) involves implementing responses. Review (C) happens later to check effectiveness.

Reference Extract from Study Guide:

"The first phase of risk management is risk identification, where potential threats and vulnerabilities are recognized and documented."  
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Management Life Cycle

### NEW QUESTION # 177

A company has recently experienced a data breach from an insider threat and wants to implement a policy to reduce the risk of similar incidents in the future. During the incident, the insider threat accessed sensitive information stored in the administrator account from their user account. The insider threat was not in a supervisory role at the time of the incident.

Which policy should the company implement?

- A. Password complexity policy
- **B. Least privilege**
- C. Separation of duties
- D. Job rotation

### Answer: B

Explanation:

The correct answer is C - Least privilege.

According to the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) course material, the principle of least privilege ensures that users are granted only the minimum level of access required to perform their job functions. In this case, if the insider only had access to resources necessary for their user role, they would not have been able to access sensitive administrative information. Password complexity (A) strengthens account security but does not prevent excessive access. Separation of duties (B) divides critical tasks but is not solely about limiting access. Job rotation (D) moves employees between roles but is not an access control measure.

Reference Extract from Study Guide:

"The principle of least privilege requires limiting user access rights to the minimum necessary to perform their tasks, reducing the risk of insider threats and unauthorized access to sensitive information."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Access Control Principles

### NEW QUESTION # 178

How should a security analyst detect a potential structured query language (SQL) injection attack?

- **A. By looking for extra and unexpected symbols and characters in certain queries**
- B. By looking for repeated failed login attempts to the database server
- C. By looking for database primary key changes on the production environment
- D. By looking for administrative command attempts within database log files

### Answer: A

Explanation:

The correct answer is A - By looking for extra and unexpected symbols and characters in certain queries.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), SQL injection attacks often include malicious SQL code in input fields, with unusual symbols such as semicolons, apostrophes, or comments ('; -- ;). Analysts detect these attacks by monitoring for unexpected or abnormal input patterns in database queries.

Changes to primary keys (B) and repeated login failures (C) are unrelated to SQLi detection. Administrative commands (D) relate more to privilege escalation.

Reference Extract from Study Guide:

"SQL injection attacks typically involve abnormal input that includes special SQL characters or commands; monitoring for such anomalies can reveal attempted injections."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Application and Database Security Threats

### NEW QUESTION # 179

A company has discovered a vulnerability in its domain name system (DNS) that could allow attackers to redirect users to malicious websites. The company has decided to implement a risk management strategy to mitigate this vulnerability.

What is the most effective risk management strategy for this vulnerability?

- **A. Implementing domain name system security extensions (DNSSEC) to digitally sign DNS responses and prevent DNS spoofing attacks**
- B. Increasing the frequency of DNS server patching
- C. Conducting regular security awareness training for employees on the risks of phishing attacks
- D. Restricting DNS access to trusted internet protocol (IP) addresses only

## Answer: A

Explanation:

The correct answer is B - Implementing domain name system security extensions (DNSSEC) to digitally sign DNS responses and prevent DNS spoofing attacks.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) teaches that DNSSEC protects the integrity and authenticity of DNS responses, thereby preventing DNS spoofing (also called DNS cache poisoning), which could redirect users to malicious sites. Restricting DNS access (A) is not sufficient against spoofing. Increasing patching frequency (C) is good practice but does not specifically stop spoofing. Security awareness training (D) helps against phishing, not DNS vulnerabilities.

Reference Extract from Study Guide:

"DNSSEC digitally signs DNS data to ensure the integrity and authenticity of DNS responses, mitigating risks such as DNS spoofing and cache poisoning."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Secure Networking Protocols

## NEW QUESTION # 180

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