

# WGU Cybersecurity-Architecture-and-Engineering Examsfragen & Cybersecurity-Architecture-and-Engineering Deutsch Prüfung

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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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Wenn Sie finden, dass unsere Cybersecurity-Architecture-and-Engineering Prüfungsmaterialien Qualitätsproblem hat oder wenn Sie die Prüfung nicht bestanden haben, zahlen wir Ihnen bedingungslos die gesamte Summe zurück. Die Fragen und Antworten zur WGU Cybersecurity-Architecture-and-Engineering Zertifizierungsprüfung von ZertFragen umfassen fast alle Wissensgebiete der WGU Cybersecurity-Architecture-and-Engineering Zertifizierungsprüfung.

### WGU Cybersecurity Architecture and Engineering (KFO1/D488) Cybersecurity-Architecture-and-Engineering Prüfungsfragen mit Lösungen (Q147-Q152):

#### 147. Frage

Which encryption technique can be used to enable a third-party provider to perform calculations on encrypted data without decrypting the data?

- A. Secure Sockets Layer (SSL)
- B. Secure function evaluation (SFE)
- C. Private information retrieval (PIR)
- **D. Homomorphic encryption**

**Antwort: D**

Begründung:

The correct answer is A - Homomorphic encryption.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), homomorphic encryption allows computations to be performed directly on encrypted data without needing to decrypt it first. This ensures the confidentiality of the data even during processing.

SFE (B) allows two parties to jointly compute a function without revealing inputs but is not the same. SSL (C) secures communication channels. PIR (D) is for retrieving information privately, not computing on encrypted data.

Reference Extract from Study Guide:

"Homomorphic encryption allows operations on encrypted data, enabling secure processing by third parties without exposing underlying data."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Advanced Encryption Techniques

#### 148. Frage

A healthcare organization is concerned about the potential risks associated with unauthorized access to sensitive patient information on its endpoint devices. The organization has decided to implement hardening techniques and endpoint security controls to mitigate the risk.

Which hardening technique will meet the needs of this organization?

- A. Implementing a network-based intrusion detection and prevention system
- B. Conducting regular vulnerability assessments and penetration testing
- **C. Enforcing strict password policies for all user accounts**
- D. Logging and monitoring endpoint devices

**Antwort: C**

Begründung:

The correct answer is D - Enforcing strict password policies for all user accounts.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), enforcing strong password policies on endpoints is a critical step in hardening devices. Strong passwords prevent unauthorized users from easily gaining access to sensitive data on endpoint devices.

Network-based IDPS (A) protects the network but not specifically endpoints. Vulnerability assessments and penetration testing (B)

identify vulnerabilities but do not directly secure endpoints. Logging and monitoring (C) detect incidents but do not prevent initial unauthorized access.

Reference Extract from Study Guide:

"Implementing strong password policies for endpoint devices ensures that unauthorized users cannot easily access sensitive information, helping to harden systems against attacks."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Endpoint Security Controls

#### 149. Frage

Which block cipher mode of operation for encrypting data is simple and efficient but provides no confidentiality beyond that of the underlying block cipher?

- A. Electronic Codebook (ECB)
- B. Output Feedback (OFB)
- C. Cipher Block Chaining (CBC)
- D. Counter (CTR)

**Antwort: A**

Begründung:

Electronic Codebook (ECB) is the simplest mode of block cipher operation, but it encrypts each block independently, which results in identical ciphertext for identical plaintext blocks - making it unsafe for use with structured or repetitive data.

NIST SP 800-38A (Recommendation for Block Cipher Modes of Operation):

"ECB reveals patterns in plaintext and should not be used when such patterns are meaningful and predictable." Though efficient, ECB lacks semantic security and is rarely recommended in practice.

#WGU Course Alignment:

Domain: Cryptography

Topic: Evaluate block cipher modes for appropriate use cases

#### 150. Frage

When is it better to purchase software rather than build a software solution in-house?

- A. When the company wants internal growth
- B. When there is a short timeline
- C. When the company has very specific needs
- D. When the company wants to develop the skill sets of its internal IT staff

**Antwort: B**

Begründung:

It is better to purchase software rather than build a software solution in-house when there is a short timeline.

Building software from scratch requires significant time for development, testing, and deployment. Purchasing off-the-shelf software can significantly reduce the time needed to implement a solution. Other considerations include:

\* Cost-effectiveness: Pre-built software can be more cost-effective than developing a custom solution, especially when factoring in the costs of development, maintenance, and support.

\* Immediate availability: Purchased software is usually ready to deploy immediately, whereas custom development can take months or even years.

\* Proven reliability: Commercial software often has a track record of reliability and user support, reducing the risk of bugs and issues that may arise with custom development.

Therefore, when time is of the essence, purchasing software is the preferable option.

References

\* Ian Sommerville, "Software Engineering," Pearson.

\* Steve McConnell, "Rapid Development: Taming Wild Software Schedules," Microsoft Press.

#### 151. Frage

A company is developing a new mobile application to support external customers and contractors. The application needs to allow users to sign in using third-party social identities.

What is the best protocol?

- A. Security Assertion Markup Language (SAML)
- **B. Open Authorization (OAuth)**
- C. Lightweight Directory Access Protocol (LDAP)
- D. Kerberos

**Antwort: B**

Begründung:

The correct answer is D - Open Authorization (OAuth).

According to the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) Study Guide, OAuth is the standard protocol used for authorizing access to third-party applications without revealing user credentials.

It allows users to log in using social identity providers like Google, Facebook, or LinkedIn, which is perfect for external customers and contractors accessing a mobile application. OAuth is designed for modern applications requiring delegated access.

SAML (A) is generally used for enterprise single sign-on (SSO) solutions, primarily for internal enterprise authentication, not social login. Kerberos (B) is used within controlled internal network environments for authentication. LDAP (C) is a directory access protocol, not an authorization protocol for third-party sign-in.

Reference Extract from Study Guide:

"OAuth enables users to grant a third-party application limited access to their resources without exposing their credentials, making it ideal for mobile and web applications involving external users."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Authentication and Authorization Concepts

## 152. Frage

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