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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q17-Q22):

NEW QUESTION # 17

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

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

Answer: C

Explanation:

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

NEW QUESTION # 18

What is the role of the compiler?

- **A. To create an executable program by translating all of the code at one time**
- B. To create executable code that is compatible with different operating systems
- C. To take the most recent line of code, translate it, and execute the machine code
- D. To run scripting languages to test one line of code at a time

Answer: A

Explanation:

Step by Step Comprehensive Detailed Explanation

A compiler is a program that translates source code written in a high-level programming language into machine code.

Definition: A compiler processes the entire source code of a program and translates it into a machine code executable.

Functionality: This process is typically done in several stages, including lexical analysis, syntax analysis, semantic analysis, optimization, and code generation.

Output: The result is an executable file that can be run on a specific operating system.

References

"Compilers: Principles, Techniques, and Tools" by Alfred V. Aho, Monica S. Lam, Ravi Sethi, and Jeffrey D.

Ullman

NISTIR 7860, "C++ Coding Standards"

NEW QUESTION # 19

An IT organization recently implemented a hybrid cloud deployment. The security team must be able to correlate event data combined from different sources in a central location.

What is the best solution?

- A. File integrity monitoring (FIM)
- B. Data loss prevention (DLP)
- C. Intrusion detection system (IDS)
- **D. Security information and event management (SIEM)**

Answer: D

Explanation:

The correct answer is D - Security information and event management (SIEM).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), a SIEM collects and correlates event data from multiple sources (such as cloud and on-premises environments) in real-time. It provides centralized visibility, analysis, and alerting, which is critical in hybrid cloud deployments.

File integrity monitoring (A) watches for unauthorized file changes, not event correlation. DLP (B) protects sensitive data but does not correlate events. IDS (C) detects network intrusions but does not combine event data centrally.

Reference Extract from Study Guide:

"Security information and event management (SIEM) systems collect, normalize, correlate, and analyze security event data from multiple sources, providing centralized monitoring and alerting."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Security Monitoring and Event Management

NEW QUESTION # 20

What is the correct order of project phases?

- A. 1) Executing 2) Monitoring and Controlling 3) Initiation 4) Planning 5) Closing
- **B. 1) Initiation 2) Planning 3) Executing 4) Monitoring and Controlling 5) Closing**
- C. 1) Planning 2) Initiation 3) Monitoring and Controlling 4) Executing 5) Closing
- D. 1) Initiation 2) Executing 3) Planning 4) Monitoring and Controlling 5) Closing

Answer: B

Explanation:

The correct order of project phases according to the Project Management Institute (PMI) and other standard project management methodologies is:

Initiation: This phase involves defining the project at a high level and getting approval to start.

Planning: In this phase, detailed planning is done to set the project's scope, objectives, and procedures.

Executing: This phase is where the project plan is put into action and the project deliverables are created.

Monitoring and Controlling: This phase involves tracking, reviewing, and regulating the project's progress and performance, ensuring that everything aligns with the project plan.

Closing: This is the final phase, where the project is formally closed, and final deliverables are handed over.

References

Project Management Institute, "A Guide to the Project Management Body of Knowledge (PMBOK Guide)," PMI.

Harold Kerzner, "Project Management: A Systems Approach to Planning, Scheduling, and Controlling," Wiley.

NEW QUESTION # 21

An IT team must allow on-premises users to log in to the Azure portal using their corporate credentials.

Which strategy should be used to enable identity federation in this scenario?

- A. Integrating with lightweight directory access protocol (LDAP)
- **B. Configuring third-party authentication with Security Assertion Markup Language (SAML)**
- C. Encrypting with Transport Layer Security (TLS)
- D. Deploying a hardware-based two-factor authentication (2FA) solution

Answer: B

Explanation:

The correct answer is D - Configuring third-party authentication with Security Assertion Markup Language (SAML). According to the WGU KFO1 / D488 Study Guide, SAML enables Single Sign-On (SSO) and federated identity across different domains by securely exchanging authentication and authorization data between an identity provider (such as an organization's Active Directory Federation Services) and a service provider (such as Azure). This allows on-premises users to log into cloud services using their existing corporate credentials.

TLS (A) provides secure communication but does not manage identity federation. 2FA (B) strengthens authentication but is not about identity federation setup. LDAP (C) is a protocol for accessing directory services, not specifically designed for federation across cloud platforms.

Reference Extract from Study Guide:

"SAML is used to implement Single Sign-On (SSO) and federated identity management, allowing organizations to extend on-premises authentication capabilities to cloud services seamlessly."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Identity and Access Management Concepts

NEW QUESTION # 22

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