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WGU Managing Cloud Security (JY02) Sample Questions (Q64-Q69):

NEW QUESTION # 64

Which action should be taken to ensure that unencrypted network traffic is protected?

- A. Data should be transmitted using the transport layer security (TLS) protocol.
- B. Data should be transmitted after it is compressed and password protected using gunzip (GZ).
- C. Data should be transmitted using generic routing encapsulation (GRE).
- D. Data should be transmitted using the secure socket layer (SSL) protocol.

Answer: A

Explanation:

The most effective way to protect network traffic from interception is Transport Layer Security (TLS). TLS provides confidentiality, integrity, and authentication by encrypting data as it travels between client and server. Unlike older protocols like SSL, which is now deprecated due to vulnerabilities, TLS is the industry-standard protocol endorsed by modern security frameworks.

Compression and password protection through GZ is not a reliable method, as it does not offer strong encryption or resistance against sophisticated interception attacks. GRE is a tunneling protocol and does not inherently provide encryption.

By implementing TLS, organizations ensure protection against on-path attacks, replay attacks, and packet sniffing. TLS also supports features such as forward secrecy and certificate-based authentication, ensuring both secure data transmission and mutual trust between endpoints. In compliance-driven industries like healthcare and finance, TLS is explicitly mandated for protecting sensitive information in transit.

NEW QUESTION # 65

A cloud provider that processes third-party credit card payments is unable to encrypt its customers' cardholder data because of constraints on a legacy payment processing system. What should it implement to maintain Payment Card Industry Data Security Standard (PCI DSS) compliance?

- A. Risk acceptance
- B. Privacy control
- C. Protection levels
- D. Compensating control

Answer: D

Explanation:

When a required PCI DSS control cannot be implemented due to technical limitations, the organization must apply a compensating control. A compensating control is an alternative safeguard that meets the intent and rigor of the original requirement.

Risk acceptance is insufficient under PCI DSS, as compliance demands enforceable safeguards. Privacy controls and protection levels may enhance data security but do not formally replace mandatory encryption requirements.

For example, a provider may use strict access controls, network segmentation, or monitoring to mitigate risks from unencrypted cardholder data. Documenting these compensating controls is essential during audits, ensuring compliance despite system limitations.

NEW QUESTION # 66

Which component allows customers to transfer data into and out of a cloud computing vendor's environment?

- A. Network
- B. Load balancer
- C. Firewall
- D. Virtual display

Answer: A

Explanation:

The network is the component that enables customers to transfer data into and out of a cloud environment. It provides the connectivity through which data is uploaded, downloaded, and exchanged between customer systems and cloud infrastructure. Firewalls protect the network by filtering traffic, load balancers distribute requests across resources, and virtual displays present interfaces, but none directly facilitate the transfer of data.

In cloud models, secure networking is critical. Protocols like TLS encrypt traffic, while VPNs and private links provide additional isolation. Reliable networking ensures availability, while strong controls safeguard confidentiality and integrity. Customers must ensure that the cloud provider offers secure, high-performance network services to support business needs.

NEW QUESTION # 67

An organization is considering using vendor-specific application programming interfaces (APIs) and internal tools to set up a new service. However, the engineers are against this plan and are advocating for a new policy to prevent issues that could arise. Which common concern in cloud applications are the engineers concerned about?

- A. Scalability
- B. Availability
- C. Portability
- D. Reliability

Answer: C

Explanation:

The engineers are concerned about portability. Vendor-specific APIs and tools create a dependency on a single provider, leading to vendor lock-in. This limits the ability to migrate services or workloads to another provider without significant rework.

Reliability and availability refer to service uptime and continuity, while scalability addresses performance under demand. Although important, none of these directly relate to cross-platform flexibility. Portability ensures that services, data, and applications can be easily moved or integrated across environments.

By adopting portable solutions—such as open standards, containerization, and multi-cloud strategies—organizations reduce long-term risks, increase negotiation power with providers, and enhance resilience.

NEW QUESTION # 68

Which device is used to create and manage encryption keys used for data transmission in a cloud-based environment?

- A. Hardware security module (HSM)
- B. RAID controller
- C. Trusted platform module (TPM)
- D. Memory controller

Answer: A

Explanation:

A Hardware Security Module (HSM) is a dedicated, tamper-resistant device designed for creating, managing, and storing encryption keys. In cloud environments, HSMs are essential for securing cryptographic operations, such as SSL/TLS key management, digital signatures, and secure data transmission.

TPMs are hardware chips used to secure local devices, such as laptops. Memory controllers and RAID controllers manage system performance and storage but are not cryptographic devices.

HSMs provide strong protection against key theft or misuse by isolating cryptographic functions from general-purpose computing resources. They are often certified under standards like FIPS 140-2, ensuring compliance with stringent security requirements. In cloud services, customers can use provider-managed HSMs or deploy dedicated virtual HSM instances for secure key management.

NEW QUESTION # 69

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