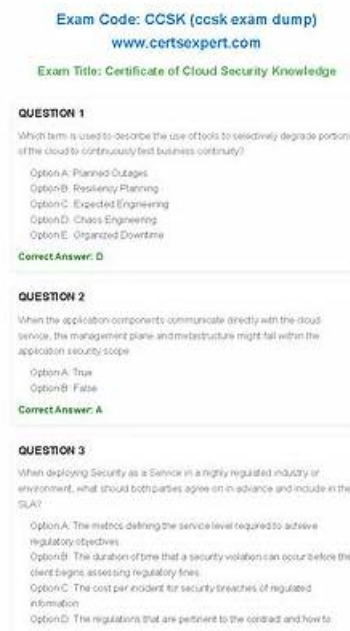


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Cloud Security Alliance Certificate of Cloud Security Knowledge v5 (CCSKv5.0) Sample Questions (Q193-Q198):

NEW QUESTION # 193

Which approach is commonly used by organizations to manage identities in the cloud due to the complexity of scaling across providers?

- A. Decentralization
- B. Outsourcing
- C. Centralization
- **D. Federation**

Answer: D

Explanation:

Managing identities across multiple cloud providers is complex due to the need for scalability, interoperability, and consistent access control. The federation approach is commonly used to address this challenge. Identity federation allows organizations to use a single set of credentials across different cloud providers by leveraging standards such as SAML, OAuth, or OpenID Connect. This enables seamless authentication and authorization without requiring separate identity management systems for each provider. From the CCSK v5.0 Study Guide, Domain 6 (Identity, Entitlement, and Access Management), Section 6.3:

"Identity federation is a critical approach for managing identities in cloud environments, especially when scaling across multiple providers. Federation allows organizations to use a trusted identity provider (IdP) to authenticate users, enabling single sign-on (SSO) and consistent access control across disparate cloud services." Option C (Federation) is the correct answer.

Option A (Decentralization) is incorrect because decentralizing identity management increases complexity and reduces consistency across providers.

Option B (Centralization) is incorrect because, while centralized identity management may be used within a single organization, it does not scale effectively across multiple cloud providers without federation.

Option D (Outsourcing) is incorrect because outsourcing identity management does not inherently address the scalability and interoperability challenges of cloud environments.

References:

CCSK v5.0 Study Guide, Domain 6, Section 6.3: Identity Federation.

CSA Security Guidance for Critical Areas of Focus in Cloud Computing v4.0, Domain 11.

NEW QUESTION # 194

Which plane in a network architecture is responsible for controlling all administrative actions?

- A. Application plane
- B. Data plane
- C. Forwarding plane
- **D. Management plane**

Answer: D

Explanation:

The Management plane in a network architecture is responsible for controlling all administrative actions, including configuration, management, monitoring, and maintenance of network devices and services. It provides the interface for administrators to interact with the network, perform system management tasks, and enforce policies.

The management plane typically includes functions such as:

- * Configuration management
- * Monitoring and logging
- * Administrative access control
- * Policy enforcement

In the context of cloud environments, the management plane also includes APIs and web-based consoles that allow administrators to manage virtual resources. Due to its critical role in controlling network and system settings, securing the management plane is of utmost importance to prevent unauthorized access and potential control over the entire network infrastructure.

Why Other Options Are Incorrect:

- * A. Forwarding plane: Responsible for the actual forwarding of data packets through the network based on predefined rules. It

does not handle administrative functions.

* C. Data plane: Responsible for data transmission and the forwarding of packets through the network but does not involve management tasks.

* D. Application plane: This is not a commonly used term in network architecture, and it generally refers to application-specific functions rather than network administration.

References:

CSA Security Guidance v4.0, Domain 6: Management Plane and Business Continuity Cloud Computing Security Risk Assessment (ENISA) - Management Interface Compromise Cloud Controls Matrix (CCM) v3.0.1 - IAM Domain

NEW QUESTION # 195

What is a key benefit of using customer-managed encryption keys with cloud key management service (KMS)?

- A. Customers can bypass the need for encryption
- **B. Customers retain control over their encryption keys**
- C. Customers can share their encryption keys more easily
- D. It reduces the computational load on the cloud service provider

Answer: B

Explanation:

The correct answer is B. Customers retain control over their encryption keys.

Using customer-managed encryption keys (CMEK) with a cloud Key Management Service (KMS) allows the customer to retain full control over the encryption keys used to encrypt their data. This is crucial in maintaining data sovereignty, privacy, and compliance with regulatory requirements.

Key Benefits of Customer-Managed Encryption Keys:

* Key Ownership and Control: Unlike cloud provider-managed keys, CMEK ensures that the customer has full authority over the key's lifecycle, including creation, rotation, and deletion.

* Enhanced Security: Customers can enforce strict access controls and audit who accesses the keys.

* Compliance: Many regulations (like GDPR or HIPAA) mandate that data owners maintain control over encryption keys.

* Data Privacy: Even though the data is stored on the cloud, the provider cannot access unencrypted data without the customer's permission.

* Flexibility: Customers can choose when to revoke or rotate keys, which directly impacts data availability and access.

Why Other Options Are Incorrect:

* A. Bypass the need for encryption: CMEK does not eliminate the need for encryption; it strengthens it by giving customers direct control.

* C. Share encryption keys more easily: Sharing encryption keys can increase security risks, and CMEK is designed to restrict, not ease, key sharing.

* D. Reduces computational load on the cloud service provider: CMEK does not impact the computational load. It focuses on key management and control rather than reducing processing overhead.

Real-World Example:

In AWS KMS, using CMEK allows customers to bring their own keys (BYOK) and manage them directly through AWS Key Management Service. Similar practices exist in Google Cloud KMS and Azure Key Vault, where customers can generate and control their own encryption keys.

Practical Use Case:

A healthcare provider using a cloud service to store patient records may use CMEK to ensure that sensitive data is encrypted under keys they control, ensuring compliance with regulations like HIPAA.

References:

CSA Security Guidance v4.0, Domain 11: Data Security and Encryption

Cloud Computing Security Risk Assessment (ENISA) - Key Management and Encryption Cloud Controls Matrix (CCM) v3.0.1 - Data Protection and Encryption Domain

NEW QUESTION # 196

What is the most effective way to identify security vulnerabilities in an application?

- A. Performing code reviews of the application source code just prior to release
- **B. Conducting automated and manual security testing throughout the development**
- C. Waiting until the application is fully developed and performing a single penetration test
- D. Relying solely on secure coding practices by the developers without any testing

Answer: B

Explanation:

The most effective way to identify security vulnerabilities in an application is to conduct automated and manual security testing throughout the development lifecycle. This approach ensures that security is continuously evaluated at every stage of development, rather than waiting until the end. Automated tools can help identify common vulnerabilities quickly, while manual testing allows for more in-depth analysis, including testing for complex, contextual security issues. This proactive and ongoing approach reduces the risk of vulnerabilities being overlooked and helps ensure that security is integrated into the application from the start.

Performing code reviews just prior to release is valuable, but it's not comprehensive enough. Security testing should be done early and continuously, not just before release. Relying solely on secure coding practices is important but not sufficient. Even with secure coding practices, testing is essential to identify vulnerabilities.

Waiting for a single penetration test after development is not effective because waiting until the end can allow many vulnerabilities to go unnoticed during development, leaving the application exposed.

NEW QUESTION # 197

Which of the following is a common risk factor related to misconfiguration and inadequate change control in cybersecurity?

- **A. Failure to update access controls after employee role changes**
- B. Excessive SBOM focus
- C. Lack of sensitive data encryption
- D. Lack of 3rd party service provider specialized in patch management procedures

Answer: A

Explanation:

Correct Option: A. Failure to update access controls after employee role changes This falls under one of the most common risk factors related to cloud misconfiguration and poor change management. Misconfiguration errors often stem from insufficient change control, especially in dynamic environments like the cloud. According to CSA's Security Guidance v4.0, poor governance of identity and access management (IAM) changes - such as not updating access privileges when user roles change - introduces serious security risks.

"Cloud computing is dynamic by nature. This places more importance on automation and proper governance, especially for identity and access control. Failure to remove or update access permissions after personnel changes leads to orphaned or over-permissioned accounts, which are prime targets for attackers."

- Domain 2: Governance and Enterprise Risk Management, CSA Security Guidance v4.0 Also highlighted in ENISA's Cloud Risk Assessment:

"Loss of governance includes failing to maintain proper control over access privileges and role assignments. Poor change management and inadequate configuration reviews can leave systems open to unauthorized access."

- ENISA Cloud Computing Risk Assessment, Section R.2: Loss of Governance Why the Other Options Are Incorrect:

B . Lack of sensitive data encryption: While encryption is critical, it is not directly tied to change control or misconfiguration, but rather falls under Data Security and Encryption domain.

C . Lack of 3rd party service provider specialized in patch management procedures: This refers more to vendor management and Security-as-a-Service, not internal change control or misconfigurations.

D . Excessive SBOM focus: Software Bill of Materials (SBOM) is important for supply chain transparency, but excessive focus on it isn't a typical misconfiguration or change control risk.

Reference:

CSA Security Guidance v4.0 - Domain 2: Governance and Enterprise Risk Management ENISA Cloud Computing Security Risk Assessment - R.2 Loss of Governance

NEW QUESTION # 198

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