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CCSK Test Questions & Answers

What NIST publication is focused on cloud computing? - ANS - NIST 800-145

Cloud computing is defined by describing: - ANS - 5 (6) essential characteristics

- 3 cloud service models

- 4 cloud deployment models

5 (7) essential characteristics of cloud computing - ANS - 1. broad network access

2. rapid elasticity

3. measured service

4. on-demand service

5. resource pooling

(6). multi-tenancy

(7). used with virtualization tech

3 cloud service models - ANS - 1. SaaS

2. PaaS

3. IaaS

4 cloud deployment models - ANS - 1. public

2. private

3. community

4. hybrid

multi-tenancy - ANS - When the same resources or applications are used by multiple users

public cloud characteristics - ANS - - owned by the CSP and made available to the public

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The CCSK Exam is designed for professionals who are involved in cloud security, including IT and security professionals, auditors, and compliance personnel. CCSK exam covers a broad range of topics, including cloud computing concepts, architecture, and design, governance and enterprise risk management, legal and compliance, and data security and encryption. Passing the CCSK Exam demonstrates that an individual has a thorough understanding of these topics and is capable of implementing cloud security solutions in a real-world environment.

The CCSK Certification Exam is an essential certification for any IT professional who works with cloud computing technologies. It provides a comprehensive understanding of cloud security principles and best practices, which are critical for ensuring the security of cloud-based systems and applications.

Cloud Security Alliance Certificate of Cloud Security Knowledge v5 (CCSKv5.0) Sample Questions (Q232-Q237):

NEW QUESTION # 232

Which of the following is a primary benefit of using Infrastructure as Code (IaC) in a security context?

- A. Ad hoc security policies
- B. Manual patch management
- C. Static resource allocation
- **D. Automated compliance checks**

Answer: D

Explanation:

The correct answer is D. Automated compliance checks.

Infrastructure as Code (IaC) is a key DevSecOps practice where infrastructure configurations are defined and managed through code. In a security context, the primary benefit of using IaC is the ability to automate compliance checks and enforce security best practices consistently across environments.

Key Benefits of IaC in Security:

- * **Automated Compliance:** IaC allows for the embedding of security policies directly into configuration scripts. This means that when infrastructure is deployed, it automatically adheres to compliance requirements (like NIST, CIS benchmarks).
- * **Consistency and Repeatability:** Since IaC scripts are version-controlled, any configuration changes are tracked, minimizing the risk of configuration drift.
- * **Security by Design:** By coding security configurations (like IAM roles, network ACLs, encryption settings), organizations ensure that every deployment meets security standards.
- * **Reduced Human Error:** Automating infrastructure provisioning reduces manual errors that can lead to vulnerabilities.

Why Other Options Are Incorrect:

- * **A. Manual patch management:** IaC promotes automated and repeatable configurations, reducing the need for manual patching.
- * **B. Ad hoc security policies:** IaC encourages standardized and consistent policies rather than ad hoc management.
- * **C. Static resource allocation:** IaC is dynamic and scalable, allowing for automatic scaling and configuration management rather than static resource setups.

Real-World Example:

Using tools like Terraform or AWS CloudFormation, organizations can define IAM policies, security group rules, and data encryption settings as part of the infrastructure code. These configurations are then automatically checked for compliance against established policies during deployment.

Security and Compliance in IaC:

Organizations can integrate tools like Terraform Compliance or AWS Config Rules to automatically verify that infrastructure settings align with regulatory requirements and internal security policies.

References:

CSA Security Guidance v4.0, Domain 10: Application Security

Cloud Computing Security Risk Assessment (ENISA) - Infrastructure as Code Best Practices Cloud Controls Matrix (CCM) v3.0.1 - Configuration and Change Management Domain

NEW QUESTION # 233

Which of the following is key component of regulated PII components?

- A. Cloud Service Provider Consent
- **B. Mandatory Breach Reporting**
- C. Data disclosure
- D. E-discovery

Answer: B

Explanation:

The key component and differentiator related to regulated PII is mandatory breach reporting requirements. At present, 47 states and territories within the United States, including the District of Columbia, Puerto Rico, and the Virgin Islands, have legislation in place that requires both private and government entities to notify and inform individuals of any security breaches involving PII.

NEW QUESTION # 234

Which aspect of assessing cloud providers poses the most significant challenge?

- A. Excessive details shared by the cloud provider and consequent information overload.
- B. Poor provider documentation and over-reliance on pooled audit.
- **C. Limited visibility into internal operations and technology.**
- D. Inconsistent policy standards and the proliferation of provider requirements.

Answer: C

Explanation:

One of the biggest challenges in cloud security risk assessment is the lack of transparency regarding cloud provider operations and security controls.

Key Issues with Limited Visibility:

- * Cloud providers manage infrastructure at a global scale:
- * Customers cannot directly inspect security implementations.
- * Rely on third-party attestations like SOC 2, ISO 27001, CSA STAR instead of direct assessments.
- * Multi-tenancy complexities:
- * Cloud customers share infrastructure with other tenants.
- * Data isolation mechanisms (e.g., virtual private clouds, encryption) must be trusted without direct verification.
- * Regulatory compliance challenges:
- * Organizations handling sensitive data (e.g., healthcare, finance) require strict controls.
- * Cloud providers may not offer sufficient audit logs or control over data residency and processing.
- * Incident response limitations:
- * In traditional IT, organizations control log access, forensic analysis, and recovery.
- * In the cloud, incident investigation depends on the provider's logging and notification practices.

This visibility issue is extensively covered in:

- * CCSK v5 - Security Guidance v4.0, Domain 4 (Compliance and Audit Management)
- * ENISA's Cloud Computing Risk Assessment (Limited visibility into cloud provider security policies)

NEW QUESTION # 235

When configured properly, logs can track every code, infrastructure, and configuration change and connect it back to the submitter and approver, including the test results.

- A. False
- **B. True**

Answer: B

NEW QUESTION # 236

Operating System management is done by customer in which service model of cloud computing?

- **A. IaaS**
- B. XaaS
- C. SaaS
- D. PaaS

Answer: A

Explanation:

