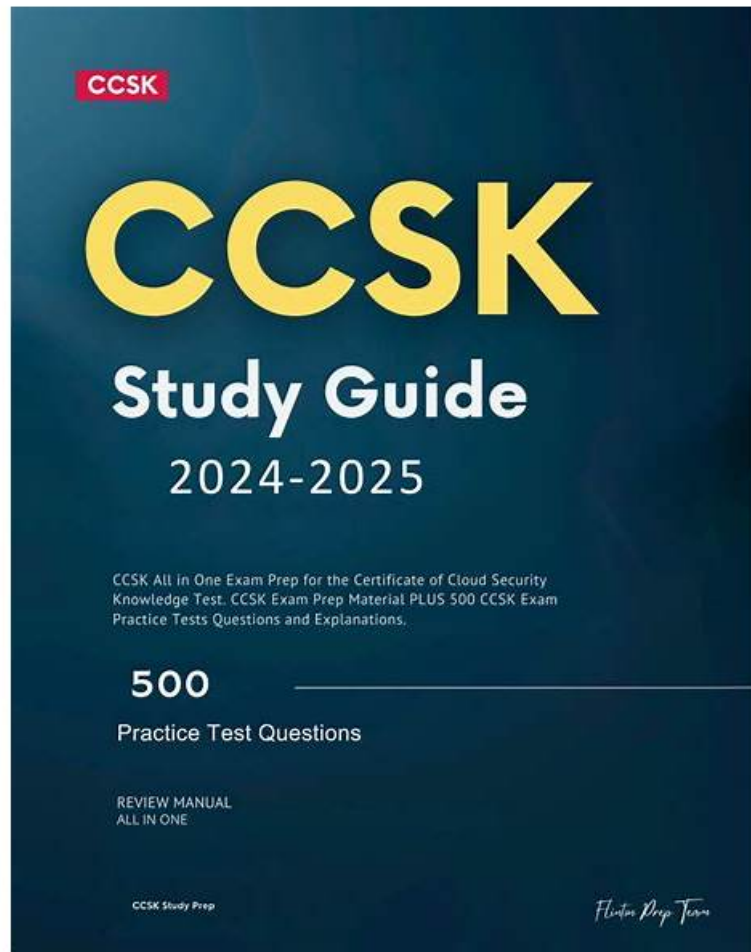


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Cloud Security Alliance Certificate of Cloud Security Knowledge v5 (CCSKv5.0) Sample Questions (Q299-Q304):

NEW QUESTION # 299

How does network segmentation primarily contribute to limiting the impact of a security breach?

- A. Monitoring and detecting unauthorized access attempts
- **B. Confining breaches to a smaller portion of the network**
- C. By reducing the threat of breaches and vulnerabilities
- D. Allowing faster data recovery and response

Answer: B

Explanation:

Network segmentation isolates sections of the network, limiting the spread of a breach and containing it to a specific segment.

Reference: [Security Guidance v5, Domain 7 - Infrastructure & Networking]

NEW QUESTION # 300

Cloud applications can use virtual networks and other structures, for hyper-segregated environments.

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

Answer: A

NEW QUESTION # 301

When investigating an incident in an Infrastructure as a Service (IaaS) environment, what can the user investigate on their own?

- A. The CSP server facility
- **B. Their own virtual instances in the cloud**
- C. The logs of all customers in a multi-tenant cloud
- D. The CSP office spaces
- E. The network components controlled by the CSP

Answer: B

NEW QUESTION # 302

Which two key capabilities are required for technology to be considered cloud computing?

- **A. Abstraction and resource pooling**
- B. Abstraction and orchestration
- C. Virtualization and multi-tenancy
- D. Multi-tenancy and isolation

Answer: A

Explanation:

The CCSK v5.0 Study Guide defines cloud computing based on the NIST SP 800-145 definition, which outlines five essential

characteristics: on-demand self-service, broad network access, resource pooling, rapid elasticity, and measured service. Two key capabilities that underpin these characteristics are abstraction and resource pooling.

Abstraction refers to the virtualization layer that hides the underlying physical infrastructure, allowing users to interact with resources (e.g., compute, storage, networking) without needing to manage the hardware directly.

Resource pooling enables the provider's computing resources to be pooled to serve multiple consumers using a multi-tenant model, with resources dynamically assigned and reassigned based on demand.

From the CCSK v5.0 Study Guide, Domain 1 (Cloud Computing Concepts and Architectures), Section 1.2:

"Cloud computing relies on abstraction to simplify the user experience and resource pooling to efficiently allocate resources across multiple tenants. Resource pooling is a defining characteristic, where the provider's computing resources are pooled to serve multiple consumers, with different physical and virtual resources dynamically assigned and reassigned according to consumer demand."

Option B correctly identifies abstraction and resource pooling as the two key capabilities.

Option A (Abstraction and orchestration) is incorrect because orchestration, while important for automation, is not a defining characteristic of cloud computing.

Option C (Multi-tenancy and isolation) is incorrect because, while multi-tenancy is a feature of resource pooling, isolation is a security mechanism, not a core capability of cloud computing.

Option D (Virtualization and multi-tenancy) is incorrect because virtualization is a technology that enables abstraction, but multi-tenancy alone is not sufficient to define cloud computing.

Reference:

CCSK v5.0 Study Guide, Domain 1, Section 1.2: Cloud Computing Definitions and Characteristics.

NIST SP 800-145: The NIST Definition of Cloud Computing.

NEW QUESTION # 303

Which type of AI workload typically requires large data sets and substantial computing resources?

- A. Inference
- B. Data Preparation
- C. Training
- D. Evaluation

Answer: C

Explanation:

Among AI workloads, Training requires the most computational power and data resources.

Why AI Training is Computationally Intensive?

* Large datasets:

* AI models (e.g., deep learning, neural networks) require millions or billions of labeled data points.

* Training involves processing massive amounts of structured/unstructured data.

* High computational power:

* Training deep learning models involves running multiple passes (epochs) over data, adjusting weights, and optimizing parameters.

* Requires specialized hardware like GPUs (Graphics Processing Units), TPUs (Tensor Processing Units), and HPC (High-Performance Computing).

* Long training times:

* AI model training can take days, weeks, or even months depending on complexity.

* Cloud platforms offer distributed computing (multi-GPU training, parallel processing, auto-scaling).

* Cloud AI Training Benefits:

* Cloud providers (AWS, Azure, GCP) offer ML training services with on-demand scalable compute instances.

* Supports frameworks like TensorFlow, PyTorch, and Scikit-learn.

This aligns with:

* CCSK v5 - Security Guidance v4.0, Domain 14 (Related Technologies - AI and ML Security)

* Cloud AI Security Risks and AI Data Governance (CCM - AI Security Controls)

NEW QUESTION # 304

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