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**Question: 731**

In the context of automated administration, which of the following technologies is most effective for managing configuration drift in cloud environments?

- A. Manual configuration files
- B. Basic monitoring solutions
- C. Configuration management tools
- D. Cloud provider documentation

Answer: C

Explanation: Configuration management tools are designed to detect and manage configuration drift, ensuring that systems remain in their desired state across cloud environments.

**Question: 732**

What challenge is commonly associated with rich container deployment in multi-cloud environments, particularly in terms of compatibility and operational management?

- A. Limited access to cloud-native services
- B. Dependence on a single cloud provider's infrastructure
- C. Variability in container orchestration tools across platforms
- D. Increased costs due to vendor lock-in

Answer: C

Explanation: Variability in container orchestration tools across platforms poses a significant challenge for rich container deployment in multi-cloud environments. Organizations must navigate different tools and configurations, which complicates operational management and integration efforts.

**Question: 733**

What is the primary benefit of using infrastructure as code (IaC) in managing cloud resources?

- A. Manual configuration of all resources
- B. Enhanced security through hidden configurations
- C. Increased complexity in resource management
- D. Consistent and repeatable resource provisioning

Answer: D

Explanation: Infrastructure as code (IaC) allows for consistent and repeatable provisioning of resources, reducing human error and enabling easier management of infrastructure changes.

**Question: 734**

Which of the following mechanisms primarily provides the architectural framework for achieving high availability and disaster recovery in cloud environments, ensuring minimal downtime and data loss during unexpected failures?

- A. Virtual Private Cloud
- B. Load Balancers
- C. Multi-Zone Deployment
- D. Content Delivery Networks

Answer: C

Explanation: Multi-Zone Deployment involves distributing resources across multiple availability zones, which enhances fault tolerance and ensures high availability, thereby minimizing downtime and data loss.

**Question: 735**

Understanding the implications of data governance in cloud environments is crucial for compliance and security. Which of the following statements accurately reflect key considerations in cloud data governance?

- A. Data governance frameworks must adapt to the unique compliance requirements of cloud deployments
- B. Effective data governance eliminates the need for data encryption and access controls
- C. Continuous monitoring and auditing are essential components of cloud data governance
- D. Data lineage tracking becomes more complex in cloud environments due to distributed data storage

Answer: A,C,D

Explanation: Data governance must adapt to cloud-specific compliance, continuous monitoring is essential, and tracking data lineage can be complex due to distribution. However, effective governance does not eliminate the need for encryption and access controls.

**Question: 736**

When discussing the challenges associated with adopting SaaS solutions, which of the following concerns is often highlighted by organizations considering this delivery model?

- A. The complexity and resource demands of configuring hardware for applications.
- B. The inability to access applications without an internet connection.
- C. The requirement for extensive coding knowledge to adapt the application.
- D. The potential for vendor lock-in and limited customization options.

Answer: D

Explanation: One of the primary challenges of SaaS is the potential for vendor lock-in, which can limit customization and flexibility for organizations that require specific functionalities.

**Question: 737**

Live migration of virtual machines across hypervisors can be affected by various factors. Which of the following is a critical requirement for ensuring successful live migration without downtime?

- A. Both source and destination hypervisors must have identical configurations.
- B. Sufficient network bandwidth must be available to handle data transfer.
- C. The VM must not use any shared resources during migration.
- D. The destination hypervisor must be physically closer to the source.

Answer: B

Explanation: Sufficient network bandwidth is crucial for successful live migration, as it affects the speed of data transfer. If the bandwidth is inadequate, the migration may result in performance degradation or failure.

**Question: 738**

In the SaaS delivery model, how can organizations mitigate the risks associated with vendor lock-in?

- A. Choosing providers with open standards
- B. Avoiding all third-party integrations
- C. Regularly evaluating service contracts
- D. Ensuring data portability options are available

Answer: A,C,D

Explanation: Organizations can mitigate vendor lock-in by choosing providers with open standards,

regularly evaluating contracts, and ensuring that data portability options are available for easy migration.

**Question: 739**

In the context of cloud architecture, which practices help maintain a synchronized operating state across various services?

- A. Implementing asynchronous data processing models
- B. Using messaging queues to facilitate communication
- C. Ensuring consistent application versions across services
- D. Allowing each service to maintain its own data independently

Answer: B, C

Explanation: Messaging queues facilitate communication and help maintain synchronization between services. Consistent application versions prevent compatibility issues. Asynchronous processing can lead to states diverging, and allowing independent data management can create inconsistencies.

**Question: 740**

When analyzing the implications of PaaS on software development, which of the following outcomes is most likely to be achieved due to the characteristics of this delivery model?

- A. Enhanced collaboration among developers through shared tools and environments.
- B. Increased time spent on infrastructure management by development teams.
- C. Higher costs associated with application deployment compared to traditional methods.
- D. Decreased flexibility in choosing programming languages and frameworks.

Answer: A

Explanation: PaaS typically enhances collaboration among developers by providing shared tools and environments, facilitating teamwork and innovation.

**Question: 741**

What is the main advantage of using containerized environments over traditional virtual machines in cloud deployments?

- A. Containers provide better resource efficiency and faster startup times.
- B. Containers are less portable than VMs.
- C. Containers require a full OS for each instance.
- D. Containers offer more complex networking configurations.

Answer: A

Explanation: Containers provide better resource efficiency and faster startup times because they share the host OS kernel, unlike traditional VMs, which require a full OS instance.

**Question: 742**

What key strategies should be utilized for maintaining effective dynamic data normalization in cloud systems?

- A. Establishing centralized control over data formats
- B. Allowing data redundancy for performance improvements
- C. Regularly auditing data for consistency
- D. Implementing automated tools for normalization

Answer: A, C, D

Explanation: Centralized control helps maintain consistent data formats, while regular audits ensure data integrity. Automated tools streamline the normalization process, enhancing efficiency. Allowing redundancy can lead to inconsistencies in data.

**Question: 743**

Which characteristics are inherently tied to the definition of cloud computing as per the NIST framework?

- A. Broad network access
- B. Resource pooling
- C. Rapid elasticity
- D. Fixed pricing model

Answer: A, B, C

Explanation: The NIST framework highlights broad network access, resource pooling, and rapid elasticity as core characteristics of cloud computing. A fixed pricing model is not a defining characteristic, as cloud pricing can vary based on usage.

**Question: 744**

Which strategies are effective in managing load-balanced virtual server instances to maintain high availability?

- A. Implementing health checks to monitor server status

- B. Configuring servers to operate independently without redundancy
- C. Using multiple load balancers for failover scenarios
- D. Regularly updating load balancer configurations to reflect changes

Answer: A, C, D

Explanation: Health checks allow for proactive monitoring of server status, ensuring issues are addressed promptly. Utilizing multiple load balancers provides redundancy in case of failures. Regular updates to configurations ensure that the load balancer reflects the current architecture. Independent operation without redundancy can lead to single points of failure.

**Question: 745**

Which of the following best describes the concept of "infrastructure as code" (IaC) in cloud environments?

- A. Manual configuration of networking and security settings
- B. Use of high-level programming languages to define and manage infrastructure
- C. A method for deploying physical servers on-premises
- D. A technique for optimizing cloud resource costs

Answer: B

Explanation: Infrastructure as code (IaC) uses high-level programming languages and scripts to define and manage infrastructure, enabling automated deployment and version control.

**Question: 746**

How do concepts of on-demand self-service impact the user experience in cloud computing environments?

- A. Users can provision resources without requiring human intervention from the service provider.
- B. It reduces the overall cost of cloud services by eliminating the need for specialized training.
- C. It allows for faster resource allocation, which is crucial for dynamic workloads.
- D. Users must adhere to a standardized set of options provided by the cloud service.

Answer: A, C

Explanation: On-demand self-service enables users to provision resources autonomously and quickly, crucial for adapting to dynamic workloads. While it can simplify processes, it does not inherently reduce costs or impose standardized options.

**Question: 747**

When implementing cloud balancing techniques, what factors should be prioritized to achieve optimal resource allocation and performance?

- A. Regularly updating algorithms based on usage patterns
- B. Ensuring that all resources are utilized to their maximum capacity at all times
- C. Implementing redundancy to mitigate potential failures
- D. Analyzing user behavior to inform resource distribution strategies

Answer: A, C, D

Explanation: Prioritized factors include updating algorithms (A), implementing redundancy (C), and analyzing user behavior (D). Maximizing capacity at all times (B) can lead to inefficiencies.

**Question: 748**

In the context of cloud service roles, the relationship between Cloud Service Owners and Cloud Service Consumers is crucial for success. Which of the following statements best represents this dynamic?

- A. Effective communication between Cloud Service Owners and Consumers is essential for service improvement.
- B. Cloud Service Consumers dictate the terms of service development to owners.
- C. Cloud Service Owners operate independently of consumer feedback.
- D. Cloud Service Owners can rely solely on internal metrics without considering consumer input.

Answer: A

Explanation: Effective communication between Cloud Service Owners and Consumers is vital for understanding needs and improving services, leading to enhanced user satisfaction.

**Question: 749**

In the realm of service grids, which of the following features are critical for achieving efficient resource utilization?

- A. Dynamic load balancing to distribute workloads evenly across services.
- B. Centralized control that limits autonomy of individual services.
- C. Real-time analytics for monitoring service performance.
- D. Standardized service interfaces to facilitate interoperability.

Answer: A, C, D

Explanation: Efficient utilization is achieved through dynamic load balancing (A), real-time analytics (C),



and standardized interfaces (D). Centralized control (B) can hinder adaptability.

**Question: 750**

When implementing Direct I/O access in a virtualized environment, which of the following benefits is primarily achieved compared to traditional methods?

- A. Enhanced Throughput
- B. Increased Latency
- C. Simplified Management
- D. Resource Overhead

Answer: A

Explanation: Direct I/O access allows virtual machines to bypass the hypervisor for storage operations, resulting in significantly enhanced throughput due to reduced overhead and improved performance.

**Question: 751**

How do the ownership structures of public, private, hybrid, and community clouds impact decision-making for organizations considering cloud adoption?

- A. Public clouds are owned by third-party providers
- B. Private clouds are typically managed internally
- C. Community clouds are collaborative ventures
- D. Hybrid clouds require exclusive vendor partnerships

Answer: A,B,C

Explanation: Public clouds are managed by third-party providers, while private clouds are typically owned and managed internally. Community clouds represent collaborative efforts among organizations, affecting adoption strategies.

**Question: 752**

Which factors are important for ensuring effective load-balanced virtual switches in a cloud environment?

- A. Support for QoS (Quality of Service) policies
- B. Centralized control without user customization
- C. Integration with existing on-premises networks
- D. Flexibility to adapt to changing network demands

Answer: A, C, D

Explanation: Support for QoS ensures that critical applications receive the necessary bandwidth, while integration with existing networks aids in smoother transitions. Flexibility is crucial for adapting to evolving network demands. Centralized control without customization limits scalability.





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