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**IBM**

# C1000-176

*IBM Certified Advanced Architect - Cloud v2 (C9006300)*

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## Question: 1

Which strategies can be employed to maintain response time, throughput, and cost targets on IBM Cloud?

- A. Increasing the size of virtual machines
- B. Utilizing content delivery networks (CDNs)
- C. Reducing redundancy and fault tolerance
- D. Allocating more resources to non-critical applications

Answer: B

Explanation: Content delivery networks (CDNs) can improve response time and throughput by caching content closer to end users, reducing latency and network congestion. CDNs distribute content across geographically dispersed servers, resulting in faster and more efficient content delivery. This strategy can help optimize performance and reduce costs associated with data transfer.

## Question: 2

Which of the following is a key consideration for cloud migration and modernization on IBM Cloud?

- A. Avoiding the use of cloud-native services
- B. Migrating all applications simultaneously
- C. Conducting a thorough assessment of existing applications
- D. Ignoring scalability and performance requirements

Answer: C

Explanation: Conducting a thorough assessment of existing applications is essential for successful cloud migration and modernization. A comprehensive assessment helps identify dependencies, performance requirements, and

potential challenges associated with migrating and modernizing applications. It enables organizations to develop a migration strategy and determine the most suitable approach for each application, resulting in a smoother and more efficient migration process.

### **Question: 3**

Which of the following design principles should be considered when designing secure solutions from the ground up on IBM Cloud?

- A. Implementing encryption at rest and in transit
- B. Utilizing single-factor authentication
- C. Allowing unrestricted access to cloud resources
- D. Avoiding network segmentation

Answer: A

Explanation: Implementing encryption at rest and in transit is a fundamental security measure that helps protect sensitive data from unauthorized access. It ensures that data is encrypted when stored and when transmitted over networks, thereby reducing the risk of data breaches and ensuring the confidentiality and integrity of the data.

### **Question: 4**

Which of the following best describes the process of cloud migration?

- A. Moving all applications and data to the cloud simultaneously
- B. Replicating the entire on-premises infrastructure in the cloud
- C. Analyzing, planning, and executing the transfer of applications and data to the cloud
- D. Decommissioning on-premises infrastructure without migrating to the cloud

Answer: C

Explanation: Cloud migration involves a systematic approach that includes analyzing the existing environment, planning the migration strategy, and executing the transfer of applications and data to the cloud. It is a phased process that requires careful consideration of dependencies, security, performance, and migration methods. A successful cloud migration involves thorough planning and execution to ensure a smooth transition to the cloud environment.

### Question: 5

When designing solutions using IBM Cloud services, which architectural pattern can be used to achieve cost optimization and scalability?

- A. Service-oriented architecture (SOA)
- B. Event-driven architecture (EDA)
- C) Serverless computing
- D. Peer-to-peer networking

Answer: C

Explanation: Serverless computing is an architectural pattern that allows developers to focus on writing code without having to manage underlying infrastructure. With serverless computing, organizations can achieve cost optimization and scalability by paying only for the actual usage of resources and automatically scaling resources based on demand. This pattern eliminates the need for provisioning and managing servers, resulting in cost savings and improved scalability.

### Question: 6

When designing hybrid multicloud platform architectures, which of the

following considerations is important?

- A. Avoiding integration with third-party services
- B. Standardizing on a single cloud provider
- C. Implementing hybrid cloud management solutions
- D. Ignoring interoperability requirements

Answer: C

Explanation: Implementing hybrid cloud management solutions is crucial when designing hybrid multicloud platform architectures. These solutions provide a unified management framework to orchestrate and govern resources across multiple cloud providers and on-premises environments. By implementing hybrid cloud management solutions, organizations can streamline operations, ensure interoperability, and leverage the benefits of different cloud providers.

### Question: 7

Which of the following design considerations helps ensure solutions can survive outages and perform auto-healing on IBM Cloud?

- A. Relying on a single availability zone
- B. Implementing manual failover procedures
- C. Utilizing load balancers and auto-scaling groups
- D. Ignoring fault tolerance and redundancy

Answer: C

Explanation: Load balancers and auto-scaling groups are architectural components that help distribute traffic across multiple instances and automatically adjust resource capacity based on demand. By using load balancers and auto-scaling groups, solutions can adapt to changes in workload and recover from failures, enabling auto-healing and improving overall



resilience.

### **Question: 8**

When designing solutions for ease of operations and automation on IBM Cloud, which practice should be followed?

- A. Manual provisioning and configuration management
- B. Minimizing monitoring and logging
- C. Implementing infrastructure as code (IaC)
- D. Using proprietary scripting languages

Answer: C

Explanation: Implementing infrastructure as code (IaC) is a best practice for automating the provisioning, configuration, and management of infrastructure resources. By using declarative configuration files, IaC allows for consistent and repeatable deployments, simplifies operations, and enables efficient scaling and management of cloud resources.

### **Question: 9**

When designing solutions using IBM Cloud services, which architectural pattern can be used to satisfy the requirement of fault tolerance and high availability?

- A. Serverless computing
- B. Microservices architecture
- C. Monolithic architecture
- D. Peer-to-peer networking

Answer: B

Explanation: Microservices architecture is a design pattern that decomposes an application into a collection of loosely coupled, independently deployable services. This pattern enables fault isolation, scalability, and resilience. By breaking down an application into smaller, independent components, failures in one service do not impact the overall system, resulting in improved fault tolerance and high availability.



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