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SAE-C01

**Alibaba Cloud Certified Expert - Solutions Architect
(SAE-C01)**



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Question: 1

As its business and customer base keep growing, a company needs to transform itself digitally. The original online trading system uses a chimney-style architecture that has become incapable of dealing with the increasing number of requests.

Given this, the company executives decide to upgrade the original system with the help of Alibaba Cloud to solve the problem. They want the new system to go online as soon as possible.

As an architect, how do you design the most appropriate upgrade solution?

Response:

- A. Without any reconstruction, upgrade the original system to a high-performance host system to improve performance.
- B. Without any reconstruction, upgrade the original system by building a load balancing cluster to improve performance.
- C. Upgrade the original system by building a load balancing cluster, reconstructing the original system into a stateless application, and separating the application and database.
- D. Reconstruct the original system into a distributed microservice architecture in which database and table shards are used for distributed processing.

Answer: C

Question: 2

What is a common challenge in managing distributed infrastructure for high-performance applications?

Response:

- A. Limited scalability
- B. Increased network latency
- C. Decreased fault tolerance
- D. Simplified system administration

Answer: B

Question: 3

Distributed locks, a fundamental feature in large-scale applications, are implemented in redis-based systems to ensure mutually exclusive access to shared resources. In scenarios where resources are accessed by multiple hosts, distributed locks prevent logical failures due to resource contention.

Understanding the properties of distributed locks helps in designing efficient synchronization mechanisms. Which of the following are features of distributed locks?

(Choose three)

Response:

- A. Mutual exclusion
- B. Atomicity
- C. Consistency
- D. Isolation

Answer: A,B,C

Question: 4

Which distributed infrastructure technology allows for the automatic scaling of resources based on workload demands?

Response:

- A. Virtualization
- B. Clustering
- C. Elasticity
- D. Centralization

Answer: C

Question: 5

A company stores data in OSS buckets. According to the company's security policy, static data must be encrypted at rest. Which of the following methods can meet this requirement?

An e-commerce platform, implementing a highavailability architecture, uses an Alibaba Cloud Server Load Balancer (SLB) instance to connect user terminals to its applications. Users note login states not being updated after logging in and items disappearing from shopping carts. Addressing this issue revolves around the management of user sessions and persistence.

Which solutions can resolve issues such as session inconsistency and cleared shopping cart items?

(Choose three)

Response:

- A. Enable session persistence for SLB instances, ensuring user requests maintain session continuity with backend processing servers. Upload an object and specify a server-side encryption method for the object.
- B. Use OSS bucket policies to restrict access to static data.
- C. Use custom keys to encrypt the data at the client before importing it to OSS.
- D. Upload data over HTTPS and encrypt the data before transmitting it to OSS.

Answer: A,C,D

Question: 6

Which Alibaba Cloud deployment model allows multiple organizations with similar compliance needs to share resources?

Response:

- A. Public Cloud
- B. Private Cloud
- C. Hybrid Cloud
- D. Community Cloud

Answer: D

Question: 7

What is the term for a distributed infrastructure design that spans multiple geographic regions to enhance availability and disaster recovery capabilities?

Response:

- A. Multi-cloud architecture
- B. Global distribution
- C. Data mirroring
- D. Local clustering

Answer: B

Question: 8

An Internet finance company has deployed its official website on Elastic Compute Service (ECS) based on Virtual Private Cloud (VPC). For security reasons, the company did not configure any public IP addresses for ECS when purchasing ECS instances.

In the meantime, the company deployed the official website on multiple ECS instances to guarantee the concurrency and performance of frontend access. To give users of this enterprise access to services on ECS over the Internet, which of the following methods are correct for establishing a cloud architecture? (two correct answers)

Response:

- A. Create a Server Load Balancer (SLB) instance on VPC, and add multiple ECS instances to the backend of the SLB instance. Then, users can send requests to the SLB instance, and the SLB instance will forward the requests to backend ECS instances for processing.

- B. Create a Network Address Translation (NAT) gateway on VPC and configure destination NAT (DNAT) entries to map a public IP address to ECS instances on VPC, so that users can have access to ECS over the Internet.
- C. Create a NAT gateway on VPC and configure source NAT (SNAT) entries to map a public IP address to ECS instances on VPC, so that users can have access to ECS over the Internet.
- D. Create an SLB instance on VPC, add multiple ECS instances to the backend of the SLB instance, and bind an Elastic IP Address (EIP) to this SLB instance. Then, users can send requests to the EIP bound to the SLB instance, and the SLB instance will forward the requests to backend ECS instances for processing.

Answer: A,D

Question: 9

What strategies help manage non-production environments efficiently on Alibaba Cloud?

(Select two)

Response:

- A. Using Elastic Compute Service (ECS) with scaling policies
- B. Employing ApsaraDB for RDS for database replication
- C. Deploying all environments on a single server
- D. Using Container Service for Kubernetes (ACK) for staging environments

Answer: A,D

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