Alibaba
ACE-Cloud1
ACE Cloud Computing Expert

Questions&AnswersPDF

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Question: 1

In Cloud and Global Network Design, what is the primary benefit of using a direct cloud interconnect, such as AWS Direct Connect or Azure ExpressRoute?
Response:

A. Reduced cloud service costs
B. Enhanced cloud resource scalability
C. Improved network security
D. Lower latency and more reliable connections to cloud providers

Answer: D

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

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: 4

A cloud e-commerce platform is going to hold a sales promotion during Christmas. At present, the customer has built an online shopping platform on Alibaba Cloud by using Server Load Balancer (SLB), Elastic Compute Service (ECS), Relational Database Service (RDS), and Object Storage Service (OSS).

When handling a surge of business traffic during the past holiday sales promotions, the customer's platform encountered the following problems: Because of great purchase demands for certain holiday products, the number of access requests for such products was too large, resulting in image loading failures on shopping pages.

Transaction pages of hot-selling products were loading slowly or even could not be opened. To build the cloud architecture in advance to cope with the growth of business traffic during the sales promotion, if you are an Alibaba Cloud architect, which of the following solutions do you think are the most reasonable and effective?

(two correct answers)
Response:

A. Enable Alibaba Cloud Content Delivery Network (CDN) and separate the details pages of hot-selling products from those of general products in the business system. Statically process the details pages of hot-selling products to allow servers to dynamically determine only user clicks for buying products, and cache other static data on CDN.
B. Use the data control module of the business system to cache the data of hot-selling products in advance on ApsaraDB for Redis, implementing high concurrency and relieving the RDS access pressure.
C. Change the instance type to upgrade the configuration of SLB instances and increase the bandwidth to handle the traffic surge.
D. Configure existing RDS instances as single RDS instances to improve database performance.

Answer: A B

Question: 5

Which technology is commonly used to analyze large volumes of textual data to extract insights and patterns?
Response:

A. Natural Language Processing (NLP)
B. Data warehousing
C. Data masking
D. Data archiving

Answer: A

Question: 6

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: 7

A startup company has hired you to build a mobile application that is expected to see a doubling of the quantity of images (now billions) and videos stored on Alibaba Cloud Object Storage Service (OSS) every six months.

Due to the business nature, the company predicts a sudden dramatic increase in traffic flowing to and from OSS. In addition, the company has to fulfill performance requirements for processing the application.

What information do you need to determine whether OSS is the right choice for the business?
Response:

A. Total number of OSS requests per second at peak times
B. Whether the amount of OSS storage is sufficient for an appropriate space design of the application architecture
C. Size of a single object being written to OSS (which allows for appropriate adjustments to the application architecture)
D. How many customers the company now has (which is critical to understanding the company's customer base over the past two years)

Answer: A

Question: 8

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: 9

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: 10

Which ACE Cloud Computing deployment model is known for sharing cloud resources among multiple organizations with similar interests, such as industry-specific compliance requirements?
Response:

A. Public Cloud

B. Private Cloud
C. Hybrid Cloud
D. Community Cloud

Answer: D