# Alibaba ACA-Cloud1 Practice Questions

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## Question 1

Question Type: MultipleChoice

Alibaba Cloud CDN can directly accelerate the access to the files stored in OSS and reduce OSS traffic costs.

### Options:

A- TRUE
B- FALSE

### Answer:

A

### Explanation:

Alibaba Cloud CDN can directly accelerate the access to the files stored in OSS and reduce OSS traffic costs. Alibaba Cloud CDN is a global network of points of presence (POPs) that are distributed across the globe. Alibaba Cloud CDN serves to reduce back-to-origin traffic. This in turn prevents network congestion and reduces latency.If you use Alibaba Cloud CDN to accelerate access to OSS, you can benefit from the following advantages1:

Improved user experience: Alibaba Cloud CDN caches the files stored in OSS to the POPs that are nearest to the users. This reduces the distance that the files need to travel and improves the access speed and user experience.

Reduced OSS traffic costs: Alibaba Cloud CDN reduces the number of requests that are sent to OSS. This reduces the OSS traffic costs and the load on the OSS servers.

Enhanced security: Alibaba Cloud CDN supports HTTPS secure acceleration and anti-leech protection. This ensures the security and integrity of the files stored in OSS.Reference:Use Alibaba Cloud CDN to accelerate access to OSS

## Question 2

Question Type: MultipleChoice

What is the full name of ECS?

## Options:

A- Elastic Compute Service
B- Elastic Computing Server
C- Elastic Cost Server
D- Elastic Communication Server

## Answer:

A

## Explanation:

Elastic Compute Service (ECS) is an IaaS offering on Alibaba Cloud that provides high-performance, stable, reliable, and scalable compute capacity in the cloud. ECS eliminates your need to invest in hardware up front. You can create as many or as few instances as you need in response to changes in requirements or popularity of your workloads. With an ever-growing selection of instance types, ECS provides broader and deeper choices to match a wide spectrum of computing needs.Reference:What is ECS? - Alibaba Cloud

# Question 3

Question Type: MultipleChoice

RDS provides whitelist access policies. You can set permitted IP addresses and IP network segments to effectively prevent hackers from attacking the server by port scanning.

## Options:

A- TRUE
B- FALSE

## Answer:

A

## Explanation:

A is the correct answer because RDS provides whitelist access policies that allow you to set permitted IP addresses and IP network segments to effectively prevent hackers from attacking the server by port scanning. A whitelist is a security feature that specifies the IP addresses or

CIDR blocks that are allowed to access your RDS instance. By default, the whitelist is empty, which means that no IP address can access your RDS instance. You can add IP addresses or CIDR blocks to the whitelist according to your business needs. You can also create multiple whitelist groups and assign different IP addresses or CIDR blocks to each group.This can help you manage the access permissions of different users or applications12

## Question 4

Question Type: MultipleChoice

Your friend purchases some Alibaba Cloud resources and uses them to build an online training website. Before the site goes online, your friend wants to perform some performance tests but doesn't know how to do it. In this case, Which option best services can help?

### Options:

A- After-Sales Support Service
B- Support Ticket Service
C- Load and Performance Testing Service
D- You want to flexibly adjust elastic computing resources based on your business needs, and ECS instances will be automatically upgraded (with more Memory, more powerful CPU) when needed.

### Answer:

C

### Explanation:

Load and Performance Testing Service (LPTS) is a service that helps users to test the performance and stability of their websites, applications, or servers under different load conditions. LPTS can simulate a large number of concurrent users and requests, and generate detailed reports on the response time, throughput, error rate, and other metrics of the target system. LPTS can help users to identify and resolve performance bottlenecks, optimize resource utilization, and ensure the reliability and availability of their online services.Reference:Load and Performance Testing Service - Alibaba Cloud Academy, Load and Performance Testing Service - Alibaba Cloud Documentation Center

## Question 5

Question Type: MultipleChoice

Server Load Balancer supports health checks for ECS instances and allows user to specify the frequency. If an ECS instance does not qualify the health check, traffic will not be forwarded to that instance, thereby ensuring application availability.

### Options:

A- TRUE
B- FALSE

### Answer:

A

### Explanation:

Server Load Balancer (SLB) is a service that distributes traffic among multiple ECS instances to improve the service capabilities of applications. SLB monitors the health of ECS instances in real time and automatically isolates unhealthy instances from the server pool according to the configured health check policy. This ensures that the traffic is only forwarded to healthy instances, thereby improving the availability and fault tolerance of applications.Reference:ACA Cloud Computing Certification - Alibaba Cloud Academy,E-Learning Courses - Alibaba Cloud Academy, Server Load Balancer - Alibaba Cloud Documentation Center

## Question 6

Question Type: MultipleChoice

www.company.com is a newly launched social portal for exchanging automotive information. The portal is based on PHP, including 10GB of images, and some JavaScripts files. Currently one single ECS instance is used to host all the application content as well as a MySQL database. With the growing number of users, the portal is getting slower to load images or respond to user requests. Moreover, there will be additional 50GB image content uploaded to the portal every week. Which combination of Alibaba Cloud services below can help resolve the storage and performance issue at the same time?

## Options:

A- OSS + CDN combination
B- OSS + MTS combination
C- OSS + RDS combination
D- OSS + ECS combination

## Answer:

A

## Explanation:

Object Storage Service (OSS) is a cloud storage service that provides secure, cost-effective, and scalable storage for various data types, such as images, videos, and documents. OSS can store large amounts of data and support concurrent access from multiple users. OSS can also integrate with other Alibaba Cloud services, such as Media Transcoding Service (MTS), Server Load Balancer (SLB), and Elastic Compute Service (ECS). By using OSS, the portal can offload the storage and delivery of the image content from the ECS instance, which can improve the performance and availability of the application.

Content Delivery Network (CDN) is a distributed network that delivers content to users based on their geographic locations, the origin servers, and the content delivery policies. CDN can accelerate the delivery of static and dynamic content, such as images, videos, and web pages, by caching the content at edge nodes that are closer to the users. CDN can also reduce the network latency and bandwidth consumption, as well as enhance the security and reliability of the content delivery. By using CDN, the portal can speed up the loading of images and improve the user experience.

Therefore, the combination of OSS and CDN can help resolve the storage and performance issue of the portal at the same time. The other combinations are not as effective or suitable for the portal's scenario. OSS + MTS combination can help with the storage and transcoding of media files, but not with the delivery of images. OSS + RDS combination can help with the storage and management of relational databases, but not with the loading of images. OSS + ECS combination can help with the storage and computing of data, but not with the acceleration of content delivery.

Alibaba Cloud Object Storage Service

Alibaba Cloud Content Delivery Network

ACA Cloud Computing Certification Exam Preparation Course

# Question 7

Question Type: MultipleChoice

Auto Scaling is a management service that can automatically adjust elastic computing resources based on your business needs and policies. It supports adding an existing ECS instance into the scaling group but imposes certain requirements on instance region. In this case, which of the following statements is true?

## Options:

A- The instance and the scaling group must be in the same region but not necessarily the same zone.
B- The instance and the scaling group must be in the same region and zone.
C- The instance and the scaling group can be in different regions and zones.
D- Each scaling group can span up to two regions. After adding the ECS instance, the number of regions of all the ECS instances in the scaling group must be no greater than two.

## Answer:

A

## Explanation:

Auto Scaling is a management service that can automatically adjust elastic computing resources based on your business needs and policies.It can help you cope with traffic spikes, reduce costs, and improve service availability1.Auto Scaling supports adding an existing ECS instance into the scaling group, which is a collection of ECS instances that share the same scaling configuration and scaling rules2.However, the existing ECS instance must meet certain requirements, one of which is that the instance and the scaling group must be in the same region3. A region is a physical location where Alibaba Cloud deploys its data centers.Each region consists of multiple isolated zones that have independent power grids and networks4. Therefore, the instance and the scaling group do not have to be in the same zone, as long as they are in the same region.

# Question 8

Question Type: MultipleChoice

_____feature in Server Load Balancer means that it can forward the access requests from a single user to the same ECS instance within a certain period to ensure session continuity.

## Options:

A- session persistence
B- health check
C- Weighted Round Robin
D- least connections scheduling

## Answer:

A

## Explanation:

Session persistence feature in Server Load Balancer means that it can forward the access requests from a single user to the same ECS instance within a certain period to ensure session continuity. This feature is useful for applications that require users to maintain a stateful connection with the backend servers, such as online shopping or banking. Session persistence can be enabled by configuring a cookie timeout period or a source IP hash method in the Server Load Balancer console.Reference:ACA Cloud Computing Certification - Alibaba Cloud Academy,Server Load Balancer - Alibaba Cloud Academy, Session Persistence - Alibaba Cloud Documentation Center

# Question 9

Question Type: MultipleChoice

A company uses Alibaba Cloud SLB and Auto Scaling at the same time, hoping this combination can help save O&M cost and provide a stable and reliable system.

However, because they do not have relevant experience, the company's engineers listed some precautions based on their understanding, and turned the list to you for advice.

As an expert of Alibaba Cloud, you tell them only_____is correct.

## Options:

A- SLB instances must have Health Check enabled, or they cannot be used together with Auto Scaling
B- All ECS instances under the same SLB instance must be running on the same operating system
C- All backend servers under the same SLB instance must be in the same Scaling Group
D- All backend servers under the same SLB instance must have the same configuration

## Answer:

A

## Explanation:

SLB and Auto Scaling are two Alibaba Cloud services that can work together to provide high availability, scalability, and performance for your applications. SLB is a load balancing service that distributes incoming traffic across multiple ECS instances. Auto Scaling is a service that automatically adjusts the number of ECS instances based on your business needs. When you use SLB and Auto Scaling together, you need to follow some best practices and precautions to ensure the optimal performance and reliability of your system.One of the precautions is that SLB instances must have Health Check enabled, or they cannot be used together with Auto Scaling1. Health Check is a feature of SLB that monitors the health status of the backend ECS instances. If an ECS instance becomes unhealthy or fails, SLB automatically stops sending traffic to that instance and redirects the traffic to other healthy instances. This ensures that your application can continue to serve user requests without interruption. Health Check is also essential for Auto Scaling, because Auto Scaling relies on the health status reported by SLB to decide whether to add or remove ECS instances. If an ECS instance is unhealthy, Auto Scaling will automatically replace it with a new one. If the traffic increases and the average health status of the ECS instances decreases, Auto Scaling will automatically add more instances. If the traffic decreases and the average health status of the ECS instances increases, Auto Scaling will automatically remove some instances. Therefore, Health Check is a prerequisite for using SLB and Auto Scaling together. If you disable Health Check, SLB and Auto Scaling will not be able to communicate with each other and coordinate their actions. This may result in performance degradation, service interruption, or resource waste. The other options are incorrect, because they are not necessary or relevant for using SLB and Auto Scaling together. The backend ECS instances under the same SLB instance can have different operating systems, configurations, and scaling groups, as long as they can provide the same service and respond to the same requests. SLB and Auto Scaling do not impose any restrictions on these aspects of the ECS instances.Reference:Associate SLB instances with or disassociate SLB instances from a scaling group

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# Question 10

Question Type: MultipleChoice

Which option best statements to OSS bucket is not correct?

## Options:

A- Every user can create more than one bucket
B- Bucket name can be changed after creation

C- Every bucket should have a unique name
D- There is no limitation to objects number inside one bucket

## Answer:

B

## Explanation:

A bucket is a container for objects in Object Storage Service (OSS). Every user can create more than one bucket, but every bucket should have a unique name in OSS. There is no limitation to the number of objects inside one bucket. However, the bucket name cannot be changed after creation.You cannot customize, change, or request a namespace name change1.If you want to modify an object, you must upload a new object with the same name as the existing one to replace it2.Reference:3: Create a bucket - Object Storage Service - Alibaba Cloud34: Manage objects in a versioning-enabled bucket - Object Storage Service - Alibaba Cloud41: Understanding Object Storage Namespaces - Oracle12: OSS Concepts - Alibaba Object Storage Service Course - Cloud Academy2

# Question 11

Question Type: MultipleChoice

You are developing a highly available web application using stateless web servers. Which services are suitable for storing session state data? (Choose two.)

## Options:

A- RDS
B- Table Store
C- MaxCompute
D- OSS

## Answer:

A, B

## Explanation:

Session state data is the information that is associated with a specific user session, such as user preferences, shopping cart items, authentication tokens, etc. Session state data needs to be

stored in a persistent and scalable way, so that it can be accessed by multiple web servers and survive server failures. Therefore, the suitable services for storing session state data are those that provide reliable, distributed, and high-performance data storage, such as RDS and Table Store.

RDS (Relational Database Service) is a fully managed online database service that supports various database engines, such as MySQL, SQL Server, PostgreSQL, MariaDB, and PPAS (PostgreSQL with Oracle compatibility)1. RDS provides high availability, backup and recovery, security, and monitoring features for your databases. RDS can store session state data in relational tables, and you can use SQL queries to access and manipulate the data.

Table Store is a fully managed NoSQL database service that provides consistent, scalable, and high-performance data storage for structured and semi-structured data2. Table Store organizes data in tables, rows, and columns, and supports primary key and attribute columns. Table Store can store session state data in flexible schemas, and you can use primary key queries or secondary index queries to access and manipulate the data.

## Question 12

Question Type: MultipleChoice

Alibaba Cloud provides anti-DDoS products of different levels. If the service availability needs to be kept at 99.9% or higher under DDoS attacks, which of the following is the MOST suitable product?

### Options:

A- Anti-DDoS Service Basic
B- Managed Security Service
C- Situation Awareness
D- Anti-DDoS Service Pro

### Answer:

D

### Explanation:

Alibaba Cloud provides anti-DDoS products of different levels to protect your applications and data from DDoS attacks. Among them, Anti-DDoS Service Pro is the most suitable product for ensuring high service availability under DDoS attacks.Anti-DDoS Service Pro is a proxy-based mitigation service that diverts network traffic to the Alibaba Cloud global anti-DDoS network through DNS resolution, mitigates volumetric DDoS attacks and resource exhaustion DDoS

attacks, and ensures the stability and availability of your origin servers1.Anti-DDoS Service Pro provides the following features and benefits2:

Over 10 Tbit/s mitigation capacity: Anti-DDoS Service Pro can defend against large-scale DDoS attacks at the Tbit/s level and ensure high service availability.

AI-enabled for mitigating sophisticated attacks: Anti-DDoS Service Pro can automatically detect and mitigate sophisticated DDoS attacks, such as HTTP flood, HTTPS flood, and DNS flood, and quickly adjust protection policies based on the attack characteristics.

Hiding origin server IPs: Anti-DDoS Service Pro can hide the IP addresses of your origin servers and prevent attackers from bypassing the proxy and directly attacking your origin servers.

Multiple protection modes: Anti-DDoS Service Pro supports normal protection mode, emergency protection mode, and always-on protection mode, which can be switched based on your business needs and risk levels.

Comprehensive security reports: Anti-DDoS Service Pro provides comprehensive security reports that display the attack details, protection status, and traffic statistics of your protected domains.Reference:1:Anti-DDoS: Intelligent DDoS Protection Service - Alibaba Cloud2:Anti-DDoS Pro and Anti-DDoS Premium features - Anti-DDoS Pro and Anti-DDoS Premium - Alibaba Cloud Documentation Center.

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