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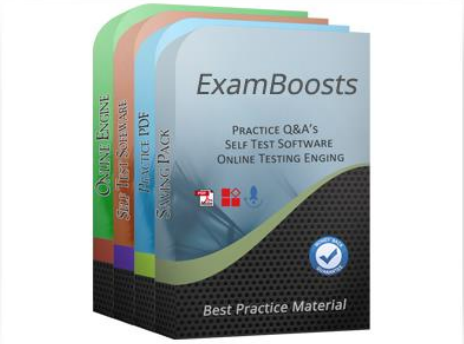

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Reliable & Efficient Test Practice Questions to Satisfy All Candidates

Exam : **ACA-Cloud1**

Title : ACA Cloud Computing Associate

Vendor : Alibaba Cloud

Version : DEMO

NO.1 Company A builds a sales management platform based on Alibaba Cloud services, using 3 ECS instances. One of the ECS instance has MySQL installed as the database server of the platform, the other two are used as WEB servers. After some time, due to the rapid increase of employees and sales analysis requests, the performance of the platform is challenged in terms of response time. Through CloudMonitor, it is found that the average CPU usage reaches 70% for the two WEB server ECS instances and the database load reaches
75% for the database server ECS instance. In this situation, company A may choose which Alibaba Cloud services to improve the performance. (Choose two.)

A. Use content delivery network, CDN, to accelerate the caching of the platform's css, JavaScript files etc.

B. By adding a SLB instance and increase the number of ECS instances to reduce the work load on current ECS instances.

C. Use RDS to replace existing self-built database, in order to obtain better database performance; also creating RDS read-only instances to handle read-only requests, hence reduce the work load on master RDS instance.

D. Import data into OSS to share the storage load of the platform.

Answer: A C

Explanation

A and C are the correct answers because they can improve the performance of the platform by reducing the load on the ECS instances and the database server.

A is correct because using CDN can accelerate the delivery of static content such as CSS and JavaScript files, which can reduce the bandwidth consumption and latency of the ECS instances. CDN can also cache the content in edge nodes closer to the end users, which can improve the user experience and response time of the platform1 C is correct because using RDS can replace the existing self-built database, which can provide better database performance, reliability, security, and scalability. RDS can also handle the backup, recovery, monitoring, and maintenance of the database, which can reduce the management overhead and cost of the platform. Moreover, creating RDS read-only instances can handle read-only requests, which can reduce the workload on the master RDS instance and improve the database availability and performance23 References: 1: CDN Overview 2: RDS Overview 3: RDS Read-only Instances

NO.2 Your website has oscillating traffic peaks that are difficult to predict in advance. In this scenario, it is recommended to use SLB andtogether with ECS.

A. RDS

B. Auto Scaling

C. VPC

D. MaxCompute

Answer: B

Explanation

Your website has oscillating traffic peaks that are difficult to predict in advance. In this scenario, it is recommended to use SLB and Auto Scaling together with ECS. SLB is a service that distributes traffic among multiple ECS instances according to the configured forwarding rules. It can be used to balance the load and improve the service availability and fault tolerance of applications. Auto Scaling is a service that automatically adjusts computing resources based on your volume of user requests. When the demand for computing resources increases, Auto Scaling automatically adds ECS instances to

serve additional user requests, or alternatively removes instances in the case of decreased user requests. By using SLB and Auto Scaling together with ECS, you can achieve high scalability and elasticity for your website, and cope with the changing traffic patterns12. References: 1: ACA Cloud Computing Exam Preparation Course - Alibaba Cloud3 2: Auto Scaling: Automatically Adjusts Computing Resources - Alibaba Cloud4

NO.3 Which of the following statements is wrong when comparing RDS with self-built database?

A. RDS features a high availability of 99.95% while self-built database requires you to implement data protection, primary-standby replication, and RAID all by yourself.

B. RDS provides automatic backup while self-built database requires you to prepare storage space for backup copies and regularly verify that these copies can be restored.

C. Self-built database supports quick deployment and elastic scaling.

D. RDS requires no O&M while self-built database requires a dedicated DBA for maintenance, which results in high HR cost.

Answer: C

Explanation

ApsaraDB RDS is a cloud-based relational database service that provides secure, cost-effective, and scalable database solutions for various applications. RDS has many advantages over self-built databases, such as high availability, automatic backup, and easy O&M. One of the statements that is wrong when comparing RDS with self-built database is that self-built database supports quick deployment and elastic scaling. This is not true, because self-built database requires users to purchase, install, and configure hardware and software by themselves, which can be time-consuming and complex. Moreover, self-built database cannot easily adjust the computing and storage resources according to the business needs, which can lead to over-provisioning or under-provisioning. RDS, on the other hand, supports quick deployment and elastic scaling, because users can create, modify, or delete RDS instances in minutes through the console or API. Users can also scale up or down the RDS instance specifications, storage capacity, or network bandwidth without affecting the business continuity.

References:

ApsaraDB RDS

ACA Cloud Computing Certification Exam Preparation Course

Which of the following statements is NOT correct, when comparing RDS ...

NO.4 SQL injection is a common application layer attack, usually through building special input parameters and pass it to web applications to steal or sabotage the application data. Which of the following is the target for SQL injection?

A. Web application

B. Confidential files on the server

C. Pictures on server

D. Database

Answer: D

Explanation

SQL injection is a common application layer attack that targets the database of a web application. SQL injection exploits a security vulnerability in the application's software, such as incorrect filtering of user input, that allows an attacker to send malicious SQL statements to the database. These

statements can then be executed to steal, modify, or delete data, or even execute commands on the server1. SQL injection can also bypass authentication and authorization mechanisms, and sometimes even impersonate or damage the underlying system2. SQL injection is one of the most common and dangerous web attacks, and it can cause serious damage to the confidentiality, integrity, and availability of web applications3. References: 1: SQL Injection - OWASP2: SQL Injection - We b Application Firewall - Alibaba Cloud Documentation Center3: Web Application Firewall:What is WAF? - Alibaba Cloud.

NO.5 Server Load Balancer can help protect fromattack.

A. DDoS

B. Virus

C. Ransomware

D. SQL injection

Answer: A

Explanation

Server Load Balancer (SLB) can help protect from distributed denial-of-service (DDoS) attacks by distributing network traffic across groups of backend servers to improve the service capability and application availability. SLB also supports built-in Anti-DDoS services to ensure business security. Anti-DDoS services can mitigate DDoS attacks at the Tbit/s level and provide multiple defense methods, such as blackhole filtering, traffic scrubbing, and access control1. In addition, you can integrate Application Load Balancer (ALB) with Web Application Firewall (WAF) in the console to ensure security at the application layer and prevent attacks such as SQL injection2. References: 1: Server Load Balancer(SLB) - Alibaba Cloud2: Associate an EIP protected by Anti-DDoS Pro/Premium with an ALB instance - Server Load Balancer - Alibaba Cloud Documentation Center.

NO.6 _____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.

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. References: ACA Cloud Computing Certification - Alibaba Cloud Academy, Server Load Balancer - Alibaba Cloud Academy, Session Persistence - Alibaba Cloud Documentation Center

NO.7 Cloud disks are reliable because they use_____ to provide block-level data storage for ECS instances, ensuring 99.9999999% data reliability.

A. a distributed file management system with 3 redundant copies

B. a file system

C. a double copy distributed system

D. a Linux file system

Answer: A

Explanation

Cloud disks are reliable because they use a distributed file management system with 3 redundant copies to provide block-level data storage for ECS instances, ensuring 99.9999999% data reliability. This means that the data stored on cloud disks is automatically replicated across three different physical servers in the same zone.

If one server fails, the data can still be accessed from the other two servers. Cloud disks also support snapshot backup and recovery, which can help users restore data to a previous point in time in case of accidental deletion or corruption. References: Elastic Compute Service (ECS) - Alibaba Cloud Academy, Cloud Disk - Alibaba Cloud Documentation Center An ECS disk can be used jointly or separately to meet the requirements of different application scenarios. ECS disks are categorized into ephemeral SSD disks and cloud disks. Compared with ephemeral SSD disks, cloud disks are more reliable as they use a triplicate distributed system to provide block-level data storage for ECS instances, ensuring 99.9999999% data reliability.