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Question: 1

Which of the following statements is NOT correct, when comparing RDS with a self-built database?

- A. Self-built database support quick deployment and elastic scaling.
- B. RDS requires no O&M while self-built database require a dedicated DBA for maintenance, which results in high HR costs.
- C. RDS features a high availability of 99.95% while self-built databases require you to implement data protection primary-standby replication, and RAID all by yourself.
- D. RDS provides automatic backup while self-built databases require you to prepare storage space for backup copies and regularly verify that these copies can be restored.

Answer: A

Explanation:

The statement A is not correct, because self-built databases do not support quick deployment and elastic scaling. On the contrary, self-built databases require hardware procurement, data center hosting, and machine deployment, which can be time consuming and costly. Moreover, self-built databases have low resource utilization, as they have to accommodate peak traffic requirements, while RDS can scale elastically according to the actual demand. Reference: = ApsaraDB for RDS vs. Self-built Databases - Alibaba Cloud

Question: 2

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?

- A. The instance and the scaling group must be in the same region and zone.
- B. The instance and the scaling group must be in the same region but not necessarily the same zone.
- C. 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.
- D. The instance and the scaling group can be in different regions and zones.

Answer: B

Explanation:

According to the Alibaba Cloud documentation¹, Auto Scaling is a service that automatically adjusts the number of elastic computing resources based on your business demands and policies. When the demand for computing resources increases, Auto Scaling automatically adds ECS instances to ensure

sufficient computing capabilities. When the demand decreases, Auto Scaling automatically removes ECS instances to reduce costs.

Auto Scaling supports adding an existing ECS instance into the scaling group, but the instance must meet some requirements¹. One of the requirements is that the instance and the scaling group must be in the same region. However, they do not have to be in the same zone. A zone is a physical area within a region that has independent power grids and networks. A region is a geographic area where Alibaba Cloud deploys its resources. Therefore, the correct answer is B.

Reference:

1: Auto Scaling: Automatically Adjusts Computing Resources - Alibaba Cloud

2: Introduction to Auto Scaling - Alibaba Cloud Document Center

Question: 3

Recently, response speed of a certain Alibaba Cloud Elastic Compute Service (ECS) instance is unacceptably slow. By using CloudMonitor we discovered that the ECS instance utilizes more than 80% of the assigned bandwidth.

Which of the following approach can address this issue and without the need to reboot the ECS instance?

- A. Upgrade the bandwidth of the ECS instance
- B. None of the above
- C. Upgrade the CPU and memory of the ECS ins
- D. Add a disk to the ECS instance

Answer: A

Explanation:

According to the Alibaba Cloud Elastic Compute Service documentation, if the current public bandwidth does not meet your business requirements, you can upgrade or downgrade the public bandwidth configurations without the need to reboot the ECS instance. This can improve the network performance and response speed of the ECS instance. Upgrading the CPU, memory, or disk of the ECS instance may not solve the issue of bandwidth utilization, and may require rebooting the ECS instance. Reference: Public bandwidth - Elastic Compute Service

Question: 4

The backend server pool of an Alibaba Cloud SLB contains multiple ECS instances, which may have different service capacities. To exploit the different service capacities of backend ECS instances, which of the following statements is correct?

- A. Choose Weighted Round Robin mode to set higher weights to ECS instances with higher capacities. The higher the weight of the backend ECS instance the higher chance that the instance will receive requests.
- B. SLB cannot assign more requests to certain ECS instances.

- C. Choose Round-Robin model and ECS instances with higher capacities will surely be assigned with more requests.
- D. Choose Weighted Least-Connection mode, and ECS instances with higher capacities will surely be assigned with more requests.

Answer: A

Explanation:

Weighted Round Robin (WRR) is a load balancing mode that assigns requests to backend ECS instances based on their weights. The higher the weight of the backend ECS instance, the higher the chance that the instance will receive requests. This mode can exploit the different service capacities of backend ECS instances by setting higher weights to ECS instances with higher capacities. For example, if there are two ECS instances in the backend server pool, one with a weight of 10 and the other with a weight of 20, the ECS instance with a weight of 20 will receive twice as many requests as the ECS instance with a weight of 10.

Reference:

- 1: SLB overview - Server Load Balancer - Alibaba Cloud Documentation Center
- 4: Server Load Balancer - Alibaba Cloud
- 5: Alibaba Server Load Balancer (SLB) Course - Cloud Academy

Question: 5

Which of the following statements is most accurate about the Data Transmission Service (DTS) database migration function?

- A. Supports database schema replication between instances.
- B. Supports warning when source and destination has some unresolved conflict found.
- C. Supports all of the above functions.
- D. Supports migrating MySQL databases from external sources.

Answer: C

Explanation:

Data Transmission Service (DTS) is a real-time data streaming service that supports data transmission between data sources such as relational databases, NoSQL, and Big Data (OLAP). DTS supports data migration, data synchronization, and change data subscription scenarios. DTS can migrate your data to and from most of the widely used commercial and open source databases. It supports homogeneous migrations such as MySQL to MySQL, as well as heterogeneous migrations between different database platforms, such as Oracle to MySQL. Migrations can be from on-premises databases to RDS or ECS, databases running on ECS to RDS, or vice versa, as well as from one RDS database to another RDS database. DTS also supports database schema replication between instances, which means that DTS can automatically create the same schema as the source database in the target database. DTS also supports warning when source and destination has some unresolved conflict found, such as data type mismatch, primary key conflict, or foreign key constraint violation. DTS can help you resolve these conflicts by providing suggestions or allowing you to modify the data mapping rules. Therefore, the correct answer is

C. Supports all of the above functions. Reference:

1: Data Transmission Service - Alibaba Cloud

2: What is Data Transmission Service? - Alibaba Cloud

3: Database Migration - AlibabaCloud

4: Cloud Migration without Stopping Services: Alibaba Cloud DTS



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