SAA-C02$^{Q\&As}$

AWS Certified Solutions Architect - Associate (SAA-C02)

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QUESTION 1

A company is migrating a three-tier application to AWS. The application requires a MySQL database. In the past, the application users reported poor application performance when creating new entries. These performance issues were

caused by users generating different real-time reports from the application duringworking hours.

Which solution will improve the performance of the application when it is moved to AWS?

A. Import the data into an Amazon DynamoDB table with provisioned capacity. Refactor the application to use DynamoDB for reports.

B. Create the database on a compute optimized Amazon EC2 instance. Ensure compute resources exceed the on-premises database.

C. Create an Amazon Aurora MySQL Multi-AZ DB cluster with multiple read replicas. Configure the application reader endpoint for reports.

D. Create an Amazon Aurora MySQL Multi-AZ DB cluster. Configure the application to use the backup instance of the cluster as an endpoint for the reports.

Correct Answer: D

Amazon RDS Read Replicas Now Support Multi-AZ Deployments Starting today, Amazon RDS Read Replicas for MySQL and MariaDB now support Multi-AZ deployments. Combining Read Replicas with Multi-AZ enables you to build a resilient disaster recovery strategy and simplify your database engine upgrade process. Amazon RDS Read Replicas enable you to create one or more read-only copies of your database instance within the same AWS Region or in a different AWS Region. Updates made to the source database are then asynchronously copied to your Read Replicas. In addition to providing scalability for read-heavy workloads, Read Replicas can be promoted to become a standalone database instance when needed.

Amazon RDS Multi-AZ deployments provide enhanced availability for database instances within a single AWS Region. With Multi-AZ, your data is synchronously replicated to a standby in a different Availability Zone (AZ). In the event of an infrastructure failure, Amazon RDS performs an automatic failover to the standby, minimizing disruption to your applications. You can now use Read Replicas with Multi-AZ as part of a disaster recovery (DR) strategy for your production databases. A well-designed and tested DR plan is critical for maintaining business continuity after a disaster. A Read Replica in a different region than the source database can be used as a standby database and promoted to become the new production database in case of a regional disruption. You can also combine Read Replicas with Multi-AZ for your database engine upgrade process. You can create a Read Replica of your production database instance and upgrade it to a new database engine version. When the upgrade is complete, you can stop applications, promote the Read Replica to a standalone database instance, and switch over your applications. Since the database instance is already a Multi-AZ deployment, no additional steps are needed. Overview of Amazon RDS Read Replicas Deploying one or more read replicas for a given source DB instance might make sense in a variety of scenarios, including the following: Scaling beyond the compute or I/O capacity of a single DB instance for read-heavy database workloads. You can direct this excess read traffic to one or more read replicas. Serving read traffic while the source DB instance is unavailable. In some cases, your source DB instance might not be able to take I/O requests, for example due to I/O suspension for backups or scheduled maintenance. In these cases, you can direct read traffic to your read replicas. For this use case, keep in mind that the data on the read replica might be "stale" because the source DB instance is unavailable.

Business reporting or data warehousing scenarios where you might want business reporting queries to run against a read replica, rather than your primary, production DB instance. Implementing disaster recovery. You can promote a read replica to a standalone instance as a disaster recovery solution if the source DB instance fails.

https://aws.amazon.com/about-aws/whats-new/2018/01/amazon-rds-read-replicas-now-support- multi-az-deployments/

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ReadRepl.html

QUESTION 2

A company with facilities in North America Europe, and Asia is designing new distributed application to optimize its global supply chain and manufacturing process. The orders booked on one continent should be visible to all Regions in a second or less. The database should be able to support failover with a short Recovery Time Objective (RTO) The uptime of the application is important to ensure that manufacturing is not impacted What should a solutions architect recommend?

A. Use Amazon DynamoDB global tables

B. Use Amazon Aurora Global Database

C. Use Amazon RDS for MySQL with a cross-Region read replica

D. Use Amazon RDS for PostgreSQL with a cross-Region read replica

Correct Answer: A

QUESTION 3

A company has an AWS account used for software engineering. The AWS account has access to the company\\'s on-premises data center through a pair of AWS Direct Connect connections. All non-VPC traffic routes to the virtual private gateway.

A development team recently created an AWS Lambada function through the console. The development team needs to allow the function to access a database that runs in a private subnet in the company\\'s data center.

Which solution will meet these requirements?

A. Configure the Lambda function to run in the VPC with the appropriate security group.

B. Set up a VPN connection from AWS to the data center. Route the traffic from the Lambda function through the VPN

C. Update the route tables in the VPC to allow the Lambda function to access the on-premises data center through direct connect.

D. Create an Elastic IP address. Configure the Lambda function to send traffic through the Elastic IP address without an elastic network interface.

Correct Answer: A

QUESTION 4

A company stores confidential data in an Amazon Aurora PostgreSQL database in the ap-southeast-3 Region The database is encrypted with an AWS Key Management Service (AWS KMS) customer managed key The company was recently acquired and must securely share a backup of the database with the acquiring company\\'s AWS account in ap-southeast-3.

What should a solutions architect do to meet these requirements?

A. Create a database snapshot Copy the snapshot to a new unencrypted snapshot Share the new snapshot with the acquiring company\\'s AWS account.

B. Create a database snapshot Add the acquiring company\\'s AWS account to the KMS key policy Share the snapshot with the acquiring company\\'s AWS account.

C. Create a database snapshot that uses a different AWS managed KMS key Add the acquiring company\\'s AWS account to the KMS key alias. Share the snapshot with the acquiring company\\'s AWS account.

D. Create a database snapshot Download the database snapshot Upload the database snapshot to an Amazon S3 bucket Update the S3 bucket policy to allow access from the acquiring company\\'s AWS account.

Correct Answer: A

QUESTION 5

A company has a multi-tier application deployed on several Amazon EC2 instances in an Auto Scaling group. An Amazon RDS for Oracle instance is the application\\'\\', data layer that uses Oracle-specific PUSQL functions. Traffic to the application has been steadily increasing This is causing the EC2 instances to become overloaded an i RDS instance to run out of storage. The Auto Scaling group does not have any scaling metrics and defines the minimum healthy instance count only. The company predicts that traffic will continue to increase at a steady but unpredictable rate before leveling off.

What should a solutions architect do to ensure the system can automatically scale for the increased traffic? (Select TWO)

A. Configure storage Auto Scaling on the RDS for Oracle instance.

B. Migrate the database to Amazon Aurora to use Auto Scaling storage

C. Configure an alarm on the RDS for Oracle instance for low free storage space.

D. Configure the Auto Scaling group to use the average CPU as the scaling metric.

E. Configure the Auto Scaling group to use the average free memory as the scaling metric.

Correct Answer: AC