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QUESTION 1

A company is using Amazon Aurora MySQL as the database for its retail application on AWS. The company receives a notification of a pending database upgrade and wants to ensure upgrades do not occur before or during the most critical time of year. Company leadership is concerned that an Amazon RDS maintenance window will cause an outage during data ingestion.

Which step can be taken to ensure that the application is not interrupted?

A. Disable weekly maintenance on the DB cluster.

B. Clone the DB cluster and migrate it to a new copy of the database.

C. Choose to defer the upgrade and then find an appropriate down time for patching.

D. Set up an Aurora Replica and promote it to primary at the time of patching.

Correct Answer: C

QUESTION 2

A company uses an on-premises Microsoft SQL Server database to host relational and JSON data and to run daily ETL and advanced analytics. The company wants to migrate the database to the AWS Cloud. Database specialist must choose one or more AWS services to run the company\\'s workloads.

Which solution will meet these requirements in the MOST operationally efficient manner?

A. Use Amazon Redshift for relational data. Use Amazon DynamoDB for JSON data

B. Use Amazon Redshift for relational data and JSON data.

C. Use Amazon RDS for relational data. Use Amazon Neptune for JSON data

D. Use Amazon Redshift for relational data. Use Amazon S3 for JSON data.

Correct Answer: B

Explanation: https://docs.aws.amazon.com/redshift/latest/dg/super-overview.htm

QUESTION 3

A company recently migrated its line-of-business (LOB) application to AWS. The application uses an Amazon RDS for SQL Server DB instance as its database engine.

The company must set up cross-Region disaster recovery for the application. The company needs a solution with the lowest possible RPO and RTO.

Which solution will meet these requirements?

A. Create a cross-Region read replica of the DB instance. Promote the read replica at the time of failover.

B. Set up SQL replication from the DB instance to an Amazon EC2 instance in the disaster recovery Region. Promote the EC2 instance as the primary server.

C. Use AWS Database Migration Service (AWS KMS) for ongoing replication of the DB instance in the disaster recovery Region.

D. Take manual snapshots of the DB instance in the primary Region. Copy the snapshots to the disaster recovery Region.

Correct Answer: C

Explanation: https://aws.amazon.com/blogs/database/cross-region-disaster-recovery-of- amazon-rds-for-sql-server/

QUESTION 4

In one AWS account, a business runs a two-tier ecommerce application. An Amazon RDS for MySQL Multi-AZ database instance serves as the application\\'s backend. A developer removed the database instance in the production

environment by accident. Although the organization recovers the database, the incident results in hours of outage and financial loss.

Which combination of adjustments would reduce the likelihood that this error will occur again in the future? (Select three.)

A. Grant least privilege to groups, IAM users, and roles.

B. Allow all users to restore a database from a backup.

C. Enable deletion protection on existing production DB instances.

D. Use an ACL policy to restrict users from DB instance deletion.

E. Enable AWS CloudTrail logging and Enhanced Monitoring.

Correct Answer: ACD

QUESTION 5

A company is building a new web platform where user requests trigger an AWS Lambda function that performs an insert into an Amazon Aurora MySQL DB cluster. Initial tests with less than 10 users on the new platform yielded successful execution and fast response times. However, upon more extensive tests with the actual target of 3,000 concurrent users, Lambda functions are unable to connect to the DB cluster and receive too many connections errors.

Which of the following will resolve this issue?

A. Edit the my.cnf file for the DB cluster to increase max_connections

B. Increase the instance size of the DB cluster

C. Change the DB cluster to Multi-AZ

D. Increase the number of Aurora Replicas

Correct Answer: B

Explanation: Max_connection is a formula in RDS parameter group:
GREATEST({log(DBInstanceClassMemory/805306368)*45},{log(DBInstanceClassMemory/ 8187281408)*1000})

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Managi ng.Performance.html You can increase the maximum number of connections to your Aurora MySQL DB instance by scaling the instance up to a DB instance class with more memory, or by setting a larger value for the max_connections parameter in the DB parameter group for your instance, up to 16,000. You must change a larger value for the max_connections parameter in the DB parameter group, not edit my.cnf, it is not physical server hosting MySQL.

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