



Amazon-Web-Services

Exam Questions DBS-C01

AWS Certified Database - Specialty

NEW QUESTION 1

A clothing company uses a custom ecommerce application and a PostgreSQL database to sell clothes to thousands of users from multiple countries. The company is migrating its application and database from its on premises data center to the AWS Cloud. The company has selected Amazon EC2 for the application and Amazon RDS for PostgreSQL for the database. The company requires database passwords to be changed every 60 days. A Database Specialist needs to ensure that the credentials used by the web application to connect to the database are managed securely. Which approach should the Database Specialist take to securely manage the database credentials?

- A. Store the credentials in a text file in an Amazon S3 bucket
- B. Restrict permissions on the bucket to the IAM role associated with the instance profile onl
- C. Modify the application to download the text file and retrieve the credentials on start u
- D. Update the text file every 60 days.
- E. Configure IAM database authentication for the application to connect to the databas
- F. Create an IAM user and map it to a separate database user for each ecommerce use
- G. Require users to update their passwords every 60 days.
- H. Store the credentials in AWS Secrets Manage
- I. Restrict permissions on the secret to only the IAM role associated with the instance profil
- J. Modify the application to retrieve the credentials from Secrets Manager on start u
- K. Configure the rotation interval to 60 days.
- L. Store the credentials in an encrypted text file in the application AM
- M. Use AWS KMS to store the key fordecrypting the text fil
- N. Modify the application to decrypt the text file and retrieve the credentials on start u
- O. Update the text file and publish a new AMI every 60 days.

Answer: B

NEW QUESTION 2

A team of Database Specialists is currently investigating performance issues on an Amazon RDS for MySQL DB instance and is reviewing related metrics. The team wants to narrow the possibilities down to specific database wait events to better understand the situation. How can the Database Specialists accomplish this?

- A. Enable the option to push all database logs to Amazon CloudWatch for advanced analysis
- B. Create appropriate Amazon CloudWatch dashboards to contain specific periods of time
- C. Enable Amazon RDS Performance Insights and review the appropriate dashboard
- D. Enable Enhanced Monitoring with the appropriate settings

Answer: C

NEW QUESTION 3

A Database Specialist is migrating a 2 TB Amazon RDS for Oracle DB instance to an RDS for PostgreSQL DB instance using AWS DMS. The source RDS Oracle DB instance is in a VPC in the us-east-1 Region. The target RDS for PostgreSQL DB instance is in a VPC in the us-west-2 Region. Where should the AWS DMS replication instance be placed for the MOST optimal performance?

- A. In the same Region and VPC of the source DB instance
- B. In the same Region and VPC as the target DB instance
- C. In the same VPC and Availability Zone as the target DB instance
- D. In the same VPC and Availability Zone as the source DB instance

Answer: D

NEW QUESTION 4

A company has a production Amazon Aurora Db cluster that serves both online transaction processing (OLTP) transactions and compute-intensive reports. The reports run for 10% of the total cluster uptime while the OLTP transactions run all the time. The company has benchmarked its workload and determined that a six-node Aurora DB cluster is appropriate for the peak workload. The company is now looking at cutting costs for this DB cluster, but needs to have a sufficient number of nodes in the cluster to support the workload at different times. The workload has not changed since the previous benchmarking exercise. How can a Database Specialist address these requirements with minimal user involvement?

- A. Split up the DB cluster into two different clusters: one for OLTP and the other for reportin
- B. Monitor and set up replication between the two clusters to keep data consistent.
- C. Review all evaluate the peak combined workloa
- D. Ensure that utilization of the DB cluster node is at an acceptable leve
- E. Adjust the number of instances, if necessary.
- F. Use the stop cluster functionality to stop all the nodes of the DB cluster during times of minimal workloa
- G. The cluster can be restarted again depending on the workload at the time.
- H. Set up automatic scaling on the DB cluste
- I. This will allow the number of reader nodes to adjust automatically to the reporting workload, when needed.

Answer: D

NEW QUESTION 5

A gaming company is designing a mobile gaming app that will be accessed by many users across the globe. The company wants to have replication and full support for multi-master writes. The company also wants to ensure low latency and consistent performance for app users. Which solution meets these requirements?

- A. Use Amazon DynamoDB global tables for storage and enable DynamoDB automatic scaling
- B. Use Amazon Aurora for storage and enable cross-Region Aurora Replicas
- C. Use Amazon Aurora for storage and cache the user content with Amazon ElastiCache

D. Use Amazon Neptune for storage

Answer: A

NEW QUESTION 6

A company maintains several databases using Amazon RDS for MySQL and PostgreSQL. Each RDS database generates log files with retention periods set to their default values. The company has now mandated that database logs be maintained for up to 90 days in a centralized repository to facilitate real-time and after-the-fact analyses.

What should a Database Specialist do to meet these requirements with minimal effort?

- A. Create an AWS Lambda function to pull logs from the RDS databases and consolidate the log files in an Amazon S3 bucket.
- B. Set a lifecycle policy to expire the objects after 90 days.
- C. Modify the RDS databases to publish log to Amazon CloudWatch Log
- D. Change the log retention policy for each log group to expire the events after 90 days.
- E. Write a stored procedure in each RDS database to download the logs and consolidate the log files in an Amazon S3 bucket
- F. Set a lifecycle policy to expire the objects after 90 days.
- G. Create an AWS Lambda function to download the logs from the RDS databases and publish the logs to Amazon CloudWatch Log
- H. Change the log retention policy for the log group to expire the events after 90 days.

Answer: A

NEW QUESTION 7

A Database Specialist is setting up a new Amazon Aurora DB cluster with one primary instance and three Aurora Replicas for a highly intensive, business-critical application. The Aurora DB cluster has one medium-sized primary instance, one large-sized replica, and two medium-sized replicas. The Database Specialist did not assign a promotion tier to the replicas.

In the event of a primary failure, what will occur?

- A. Aurora will promote an Aurora Replica that is of the same size as the primary instance
- B. Aurora will promote an arbitrary Aurora Replica
- C. Aurora will promote the largest-sized Aurora Replica
- D. Aurora will not promote an Aurora Replica

Answer: A

NEW QUESTION 8

A company developed an AWS CloudFormation template used to create all new Amazon DynamoDB tables in its AWS account. The template configures provisioned throughput capacity using hard-coded values. The company wants to change the template so that the tables it creates in the future have independently configurable read and write capacity units assigned.

Which solution will enable this change?

- A. Add values for the rcuCount and wcuCount parameters to the Mappings section of the template. Configure DynamoDB to provision throughput capacity using the stack's mappings.
- B. Add values for two Number parameters, rcuCount and wcuCount, to the template.
- C. Replace the hard-coded values with calls to the Ref intrinsic function, referencing the new parameters.
- D. Add values for the rcuCount and wcuCount parameters as outputs of the template.
- E. Configure DynamoDB to provision throughput capacity using the stack outputs.
- F. Add values for the rcuCount and wcuCount parameters to the Mappings section of the template. Replace the hard-coded values with calls to the Ref intrinsic function, referencing the new parameters.

Answer: B

NEW QUESTION 9

A company is planning to close for several days. A Database Specialist needs to stop all applications along with the DB instances to ensure employees do not have access to the systems during this time. All databases are running on Amazon RDS for MySQL.

The Database Specialist wrote and executed a script to stop all the DB instances. When reviewing the logs, the Database Specialist found that Amazon RDS DB instances with read replicas did not stop.

How should the Database Specialist edit the script to fix this issue?

- A. Stop the source instances before stopping their read replicas
- B. Delete each read replica before stopping its corresponding source instance
- C. Stop the read replicas before stopping their source instances
- D. Use the AWS CLI to stop each read replica and source instance at the same time

Answer: D

NEW QUESTION 10

A company is using 5 TB Amazon RDS DB instances and needs to maintain 5 years of monthly database backups for compliance purposes. A Database Administrator must provide Auditors with data within 24 hours.

Which solution will meet these requirements and is the MOST operationally efficient?

- A. Create an AWS Lambda function to run on the first day of every month to take a manual RDS snapshot. Move the snapshot to the company's Amazon S3 bucket.
- B. Create an AWS Lambda function to run on the first day of every month to take a manual RDS snapshot.
- C. Create an RDS snapshot schedule from the AWS Management Console to take a snapshot every 30 days.
- D. Create an AWS Lambda function to run on the first day of every month to create an automated RDS snapshot.

Answer: B

NEW QUESTION 10

A company is developing a multi-tier web application hosted on AWS using Amazon Aurora as the database. The application needs to be deployed to production and other non-production environments. A Database Specialist needs to specify different MasterUsername and MasterUserPassword properties in the AWS CloudFormation templates used for automated deployment. The CloudFormation templates are version controlled in the company's code repository. The company also needs to meet compliance requirement by routinely rotating its database master password for production. What is most secure solution to store the master password?

- A. Store the master password in a parameter file in each environmen
- B. Reference the environment-specific parameter file in the CloudFormation template.
- C. Encrypt the master password using an AWS KMS ke
- D. Store the encrypted master password in theCloudFormation template.
- E. Use the secretsmanager dynamic reference to retrieve the master password stored in AWS SecretsManager and enable automatic rotation.
- F. Use the ssm dynamic reference to retrieve the master password stored in the AWS Systems ManagerParameter Store and enable automatic rotation.

Answer: C

NEW QUESTION 13

A Database Specialist is designing a new database infrastructure for a ride hailing application. The application data includes a ride tracking system that stores GPS coordinates for all rides. Real-time statistics and metadata lookups must be performed with high throughput and microsecond latency. The database should be fault tolerant with minimal operational overhead and development effort. Which solution meets these requirements in the MOST efficient way?

- A. Use Amazon RDS for MySQL as the database and use Amazon ElastiCache
- B. Use Amazon DynamoDB as the database and use DynamoDB Accelerator
- C. Use Amazon Aurora MySQL as the database and use Aurora's buffer cache
- D. Use Amazon DynamoDB as the database and use Amazon API Gateway

Answer: D

NEW QUESTION 14

A Database Specialist must create a read replica to isolate read-only queries for an Amazon RDS for MySQLDB instance. Immediately after creating the read replica, users that query it report slow response times. What could be causing these slow response times?

- A. New volumes created from snapshots load lazily in the background
- B. Long-running statements on the master
- C. Insufficient resources on the master
- D. Overload of a single replication thread by excessive writes on the master

Answer: B

NEW QUESTION 15

A company is running its line of business application on AWS, which uses Amazon RDS for MySQL at the persistent data store. The company wants to minimize downtime when it migrates the database to Amazon Aurora. Which migration method should a Database Specialist use?

- A. Take a snapshot of the RDS for MySQL DB instance and create a new Aurora DB cluster with the option to migrate snapshots.
- B. Make a backup of the RDS for MySQL DB instance using the mysqldump utility, create a new Aurora DB cluster, and restore the backup.
- C. Create an Aurora Replica from the RDS for MySQL DB instance and promote the Aurora DB cluster.
- D. Create a clone of the RDS for MySQL DB instance and promote the Aurora DB cluster.

Answer: A

NEW QUESTION 17

A company needs a data warehouse solution that keeps data in a consistent, highly structured format. The company requires fast responses for end-user queries when looking at data from the current year, and users must have access to the full 15-year dataset, when needed. This solution also needs to handle a fluctuating number incoming queries. Storage costs for the 100 TB of data must be kept low. Which solution meets these requirements?

- A. Leverage an Amazon Redshift data warehouse solution using a dense storage instance type while keeping all the data on local Amazon Redshift storag
- B. Provision enough instances to support high demand.
- C. Leverage an Amazon Redshift data warehouse solution using a dense storage instance to store the most recent dat
- D. Keep historical data on Amazon S3 and access it using the Amazon Redshift Spectrum laye
- E. Provision enough instances to support high demand.
- F. Leverage an Amazon Redshift data warehouse solution using a dense storage instance to store the most recent dat
- G. Keep historical data on Amazon S3 and access it using the Amazon Redshift Spectrum laye
- H. Enable Amazon Redshift Concurrency Scaling.
- I. Leverage an Amazon Redshift data warehouse solution using a dense storage instance to store the most recent dat
- J. Keep historical data on Amazon S3 and access it using the Amazon Redshift Spectrum laye
- K. Leverage Amazon Redshift elastic resize.

Answer: C

NEW QUESTION 21

A manufacturing company's website uses an Amazon Aurora PostgreSQL DB cluster. Which configurations will result in the LEAST application downtime during a failover? (Choose three.)

- A. Use the provided read and write Aurora endpoints to establish a connection to the Aurora DB cluster.
- B. Create an Amazon CloudWatch alert triggering a restore in another Availability Zone when the primary Aurora DB cluster is unreachable.

- C. Edit and enable Aurora DB cluster cache management in parameter groups.
- D. Set TCP keepalive parameters to a high value.
- E. Set JDBC connection string timeout variables to a low value.
- F. Set Java DNS caching timeouts to a high value.

Answer: ABC

NEW QUESTION 24

A company is running an Amazon RDS for PostgreSQL DB instance and wants to migrate it to an Amazon Aurora PostgreSQL DB cluster. The current database is 1 TB in size. The migration needs to have minimal downtime.

What is the FASTEST way to accomplish this?

- A. Create an Aurora PostgreSQL DB cluster
- B. Set up replication from the source RDS for PostgreSQL DB instance using AWS DMS to the target DB cluster.
- C. Use the pg_dump and pg_restore utilities to extract and restore the RDS for PostgreSQL DB instance to the Aurora PostgreSQL DB cluster.
- D. Create a database snapshot of the RDS for PostgreSQL DB instance and use this snapshot to create the Aurora PostgreSQL DB cluster.
- E. Migrate data from the RDS for PostgreSQL DB instance to an Aurora PostgreSQL DB cluster using an Aurora Replic
- F. Promote the replica during the cutover.

Answer: C

NEW QUESTION 26

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