Amazon-Web-Services

Exam Questions DBS-C01

AWS Certified Database - Specialty

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NEW QUESTION 1
A large company is using an Amazon RDS for Oracle Multi-AZ DB instance with a Java application. As a part of its disaster recovery annual testing, the company would like to simulate an Availability Zone failure and record how the application reacts during the DB instance failover activity. The company does not want to make any code changes for this activity.
What should the company do to achieve this in the shortest amount of time?

A. Use a blue-green deployment with a complete application-level failover test
B. Use the RDS console to reboot the DB instance by choosing the option to reboot with failover
C. Use RDS fault injection queries to simulate the primary node failure
D. Add a rule to the NACL to deny all traffic on the subnets associated with a single Availability Zone

Answer: C

NEW QUESTION 2
A company is concerned about the cost of a large-scale, transactional application using Amazon DynamoDB that only needs to store data for 2 days before it is deleted. In looking at the tables, a Database Specialist notices that much of the data is months old, and goes back to when the application was first deployed.
What can the Database Specialist do to reduce the overall cost?

A. Create a new attribute in each table to track the expiration time and create an AWS Glue transformation to delete entries more than 2 days old.
B. Create a new attribute in each table to track the expiration time and enable DynamoDB Streams on each table.
C. Create a new attribute in each table to track the expiration time and enable time to live (TTL) on each table.
D. Create an Amazon CloudWatch Events event to export the data to Amazon S3 daily using AWS Data Pipeline and then truncate the Amazon DynamoDB table.

Answer: A

NEW QUESTION 3
An ecommerce company has tasked a Database Specialist with creating a reporting dashboard that visualizes critical business metrics that will be pulled from the core production database running on Amazon Aurora. Data that is read by the dashboard should be available within 100 milliseconds of an update.
The Database Specialist needs to review the current configuration of the Aurora DB cluster and develop a cost-effective solution. The solution needs to accommodate the unpredictable read workload from the reporting dashboard without any impact on the write availability and performance of the DB cluster.
Which solution meets these requirements?

A. Turn on the serverless option in the DB cluster so it can automatically scale based on demand.
B. Provision a clone of the existing DB cluster for the new Application team.
C. Create a separate DB cluster for the new workload, refresh from the source DB cluster, and set up ongoingreplication using AWS DMS change data capture (CDC).
D. Add an automatic scaling policy to the DB cluster to add Aurora Replicas to the cluster based on CPUconsumption.

Answer: A

NEW QUESTION 4
A company has deployed an e-commerce web application in a new AWS account. An Amazon RDS for MySQL Multi-AZ DB instance is part of this deployment with a
database-1.xxxxxxxxxxxx.us-east-1.rds.amazonaws.com endpoint listening on port 3306. The company's Database Specialist is able to log in to MySQL and run queries from the bastion host using these details.
When users try to utilize the application hosted in the AWS account, they are presented with a generic error message. The application servers are logging a "could not connect to server: Connection times out" error message to Amazon CloudWatch Logs.
What is the cause of this error?

A. The user name and password the application is using are incorrect.
B. The security group assigned to the application servers does not have the necessary rules to allow inbound connections from the DB instance.
C. The security group assigned to the DB instance does not have the necessary rules to allow inbound connections from the application servers.
D. The user name and password are correct, but the user is not authorized to use the DB instance.

Answer: C

NEW QUESTION 5
A company with branch offices in Portland, New York, and Singapore has a three-tier web application that leverages a shared database. The database runs on Amazon RDS for MySQL and is hosted in the us-west-2 Region. The application has a distributed front end deployed in the us-west-2, ap-southheast-1, and us-east-2 Regions.
This front end is used as a dashboard for Sales Managers in each branch office to see current sales statistics. There are complaints that the dashboard performs more slowly in the Singapore location than it does in Portland or New York. A solution is needed to provide consistent performance for all users in each location.
Which set of actions will meet these requirements?

A. Take a snapshot of the instance in the us-west-2 Regio
B. Create a new instance from the snapshot in the ap-southeast-1 Regio
C. Reconfigure the ap-southeast-1 front-end dashboard to access this instance.
D. Create an RDS read replica in the ap-southeast-1 Region from the primary RDS DB instance in the uswest- 2 Regio
E. Reconfigure the ap-southeast-1 front-end dashboard to access this instance.
F. Create a new RDS instance in the ap-southeast-1 Regio
G. Use AWS DMS and change data capture (CDC) to update the new instance in the ap-southeast-1 Regio
H. Reconfigure the ap-southeast-1 front-end dashboard to access this instance.
I. Create an RDS read replica in the us-west-2 Region where the primary instance reside
J. Create a read replica in the ap-southeast-1 Region from the read replica located on the us-west-2 Regio
K. Reconfigure the ap-southeast-1 front-end dashboard to access this instance.

Answer: A

NEW QUESTION 6
An AWS CloudFormation stack that included an Amazon RDS DB instance was accidentally deleted and recent data was lost. A Database Specialist needs to add RDS settings to the CloudFormation template to reduce the chance of accidental instance data loss in the future.
Which settings will meet this requirement? (Choose three.)

A. Set DeletionProtection to True
B. Set MultiAZ to True
C. Set TerminationProtection to True
D. Set DeleteAutomatedBackups to False
E. Set DeletionPolicy to Delete
F. Set DeletionPolicy to Retain

Answer: ACF

NEW QUESTION 7
A Database Specialist needs to define a database migration strategy to migrate an on-premises Oracle database to an Amazon Aurora MySQL DB cluster. The company requires near-zero downtime for the data migration. The solution must also be cost-effective.
Which approach should the Database Specialist take?

A. Dump all the tables from the Oracle database into an Amazon S3 bucket using datapump (expdp).Rundata transformations in AWS Glu
B. Load the data from the S3 bucket to the Aurora DB cluster.
C. Order an AWS Snowball appliance and copy the Oracle backup to the Snowball applianc
D. Once theSnowball data is delivered to Amazon S3, create a new Aurora DB cluste
E. Enable the S3 integration tomigrate the data directly from Amazon S3 to Amazon RDS.
F. Use the AWS Schema Conversion Tool (AWS SCT) to help rewrite database objects to MySQL during theschema migratio
G. Use AWS DMS to perform the full load and change data capture (CDC) tasks.
H. Use AWS Server Migration Service (AWS SMS) to import the Oracle virtual machine image as an AmazonEC2 instanc
I. Use the Oracle Logical Dump utility to migrate the Oracle data from Amazon EC2 to anAurora DB cluster.

Answer: D

NEW QUESTION 8
A company has migrated a single MySQL database to Amazon Aurora. The production data is hosted in a DB cluster in VPC_PROD, and 12 testing environments are hosted in VPC_TEST using the same AWS account. Testing results in minimal changes to the test data. The Development team wants each environment refreshed nightly so each test database contains fresh production data every day.
Which migration approach will be the fastest and most cost-effective to implement?

A. Run the master in Amazon Aurora MySQ
B. Create 12 clones in VPC_TEST, and script the clones to bedeleted and re-created nightly.
C. Run the master in Amazon Aurora MySQ
D. Take a nightly snapshot, and restore it into 12 databases inVPC_TEST using Aurora Serverless.
E. Run the master in Amazon Aurora MySQ
F. Create 12 Aurora Replicas in VPC_TEST, and script thereplicas to be deleted and re-created nightly.
G. Run the master in Amazon Aurora MySQL using Aurora Serverles
H. Create 12 clones in VPC_TEST, andscript the clones to be deleted and re-created nightly.

Answer: A

NEW QUESTION 9
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 10
A Database Specialist is creating a new Amazon Neptune DB cluster, and is attempting to load fata from Amazon S3 into the Neptune DB cluster using the Neptune bulk loader API. The Database Specialist receives the following error:
“Unable to connect to s3 endpoint. Provided source = s3://mybucket/graphdata/ and region = us-east-1. Please verify your S3 configuration.”
Which combination of actions should the Database Specialist take to troubleshoot the problem? (Choose two.)

A. Check that Amazon S3 has an IAM role granting read access to Neptune
B. Check that an Amazon S3 VPC endpoint exists
C. Check that a Neptune VPC endpoint exists
D. Check that Amazon EC2 has an IAM role granting read access to Amazon S3
E. Check that Neptune has an IAM role granting read access to Amazon S3

Answer: BD

NEW QUESTION 10
A company just migrated to Amazon Aurora PostgreSQL from an on-premises Oracle database. After the migration, the company discovered there is a period of time every day around 3:00 PM where the response time of the application is noticeably slower. The company has narrowed down the cause of this issue to the

database and not the application.
Which set of steps should the Database Specialist take to most efficiently find the problematic PostgreSQL query?

A. Create an Amazon CloudWatch dashboard to show the number of connections, CPU usage, and diskspace consumptio
B. Watch these dashboards during the next slow period.
C. Launch an Amazon EC2 instance, and install and configure an open-source PostgreSQL monitoring toolthat will run reports based on the output error logs.
D. Modify the logging database parameter to log all the queries related to locking in the database and thencheck the logs after the next slow period for this information.
E. Enable Amazon RDS Performance Insights on the PostgreSQL databas
F. Use the metrics to identify anyqueries that are related to spikes in the graph during the next slow period.

Answer: D

NEW QUESTION 14
A global digital advertising company captures browsing metadata to contextually display relevant images,pages, and links to targeted users. A single page load can generate multiple events that need to be storedindividually. The maximum size of an event is 200 KB and the average size is 10 KB. Each page load mustquery the user's browsing history to provide targeting recommendations. The advertising company expectsover 1 billion page visits per day from users in the United States, Europe, Hong Kong, and India. The structureof the metadata varies depending on the event. Additionally, the browsing metadata must be written and readwith very low latency to ensure a good viewing experience for the users.
Which database solution meets these requirements?

A. Amazon DocumentDB
B. Amazon RDS Multi-AZ deployment
C. Amazon DynamoDB global table
D. Amazon Aurora Global Database

Answer: C

NEW QUESTION 16
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 RDSsnapshot.

Answer: B

NEW QUESTION 18
A company is looking to move an on-premises IBM Db2 database running AIX on an IBM POWER7 server. Due to escalating support and maintenance costs, the company is exploring the option of moving the workload to an Amazon Aurora PostgreSQL DB cluster.
What is the quickest way for the company to gather data on the migration compatibility?

A. Perform a logical dump from the Db2 database and restore it to an Aurora DB cluste
B. Identify the gaps andcompatibility of the objects migrated by comparing row counts from source and target tables.
C. Run AWS DMS from the Db2 database to an Aurora DB cluste
D. Identify the gaps and compatibility of theobjects migrated by comparing the row counts from source and target tables.
E. Run native PostgreSQL logical replication from the Db2 database to an Aurora DB cluster to evaluate themigration compatibility.
F. Run the AWS Schema Conversion Tool (AWS SCT) from the Db2 database to an Aurora DB cluster.Create a migration assessment report to evaluate the migration compatibility.

Answer: D

NEW QUESTION 23
A company wants to automate the creation of secure test databases with random credentials to be stored safely for later use. The credentials should have sufficient information about each test database to initiate a connection and perform automated credential rotations. The credentials should not be logged or stored anywhere in an unencrypted form.
Which steps should a Database Specialist take to meet these requirements using an AWS CloudFormation template?

A. Create the database with the MasterUserName and MasterUserPassword properties set to the default value
B. Then, create the secret with the user name and password set to the same default value
C. Add a Secret Target Attachment resource with the SecretId and TargetId properties set to the Amazon Resource Names (ARNs) of the secret and the databas
D. Finally, update the secret's password value with a randomly generated string set by the GenerateSecretString property.
E. Add a Mapping property from the database Amazon Resource Name (ARN) to the secret AR
F. Then, create the secret with a chosen user name and a randomly generated password set by the GenerateSecretString propert
G. Add the database with the MasterUserName and MasterUserPassword properties set to the user name of the secret.
H. Add a resource of type AWS::SecretsManager::Secret and specify the GenerateSecretString property.Then, define the database user name in the SecureStringTemplate templat
I. Create a resource for the database and reference the secret string for the MasterUserName and MasterUserPassword propertie
J. Then, add a resource of type AWS::SecretsManagerSecretTargetAttachment with the SecretId and TargetId properties set to the Amazon Resource Names (ARNs) of the secret and the database.
K. Create the secret with a chosen user name and a randomly generated password set by the GenerateSecretString propert
L. Add an SecretTargetAttachment resource with the SecretId property set to the Amazon Resource Name (ARN) of the secret and the TargetId property set to a parameter value matching the desired database AR
M. Then, create a database with the MasterUserName and MasterUserPassword properties set to the previously created values in the secret.

Answer: C

NEW QUESTION 26
A Database Specialist is performing a proof of concept with Amazon Aurora using a small instance to confirm a simple database behavior. When loading a large dataset and creating the index, the Database Specialist encounters the following error message from Aurora:
ERROR: cloud not write block 7507718 of temporary file: No space left on device
What is the cause of this error and what should the Database Specialist do to resolve this issue?

A. The scaling of Aurora storage cannot catch up with the data loadin
B. The Database Specialist needs tomodify the workload to load the data slowly.
C. The scaling of Aurora storage cannot catch up with the data loadin
D. The Database Specialist needs toenable Aurora storage scaling.
E. The local storage used to store temporary tables is ful
F. The Database Specialist needs to scale up theinstance.
G. The local storage used to store temporary tables is ful
H. The Database Specialist needs to enable localstorage scaling.

Answer: C

NEW QUESTION 28
A company has a database monitoring solution that uses Amazon CloudWatch for its Amazon RDS for SQL Server environment. The cause of a recent spike in CPU utilization was not determined using the standard metrics that were collected. The CPU spike caused the application to perform poorly, impacting users. A Database Specialist needs to determine what caused the CPU spike.
Which combination of steps should be taken to provide more visibility into the processes and queries running during an increase in CPU load? (Choose two.)

A. Enable Amazon CloudWatch Events and view the incoming T-SQL statements causing the CPU to spike.
B. Enable Enhanced Monitoring metrics to view CPU utilization at the RDS SQL Server DB instance level.
C. Implement a caching layer to help with repeated queries on the RDS SQL Server DB instance.
D. Use Amazon QuickSight to view the SQL statement being run.
E. Enable Amazon RDS Performance Insights to view the database load and filter the load by waits, SQLstatements, hosts, or users.

Answer: BE

NEW QUESTION 32
The Security team for a finance company was notified of an internal security breach that happened 3 weeks ago. A Database Specialist must start producing audit logs out of the production Amazon Aurora PostgreSQL cluster for the Security team to use for monitoring and alerting. The Security team is required to perform real-time alerting and monitoring outside the Aurora DB cluster and wants to have the cluster push encrypted files to the chosen solution.
Which approach will meet these requirements?

A. Use pg_audit to generate audit logs and send the logs to the Security team.
B. Use AWS CloudTrail to audit the DB cluster and the Security team will get data from Amazon S3.
C. Set up database activity streams and connect the data stream from Amazon Kinesis to consumer applications.
D. Turn on verbose logging and set up a schedule for the logs to be dumped out for the Security team.

Answer: B

NEW QUESTION 36
A user has a non-relational key-value database. The user is looking for a fully managed AWS service that will offload the administrative burdens of operating and scaling distributed databases. The solution must be cost-effective and able to handle unpredictable application traffic.
What should a Database Specialist recommend for this user?

A. Create an Amazon DynamoDB table with provisioned capacity mode
B. Create an Amazon DocumentDB cluster
C. Create an Amazon DynamoDB table with on-demand capacity mode
D. Create an Amazon Aurora Serverless DB cluster

Answer: C

NEW QUESTION 40
A company is going to use an Amazon Aurora PostgreSQL DB cluster for an application backend. The DB cluster contains some tables with sensitive data. A Database Specialist needs to control the access privileges at the table level.
How can the Database Specialist meet these requirements?

A. Use AWS IAM database authentication and restrict access to the tables using an IAM policy.
B. Configure the rules in a NACL to restrict outbound traffic from the Aurora DB cluster.
C. Execute GRANT and REVOKE commands that restrict access to the tables containing sensitive data.
D. Define access privileges to the tables containing sensitive data in the pg_hba.conf file.

Answer: C

NEW QUESTION 45
A company has an Amazon RDS Multi-AZ DB instances that is 200 GB in size with an RPO of 6 hours. To meet the company's disaster recovery policies, the database backup needs to be copied into another Region. The company requires the solution to be cost-effective and operationally efficient.
What should a Database Specialist do to copy the database backup into a different Region?

A. Use Amazon RDS automated snapshots and use AWS Lambda to copy the snapshot into another Region
B. Use Amazon RDS automated snapshots every 6 hours and use Amazon S3 cross-Region replication tocopy the snapshot into another Region

C. Create an AWS Lambda function to take an Amazon RDS snapshot every 6 hours and use a secondLambda function to copy the snapshot into another Region
D. Create a cross-Region read replica for Amazon RDS in another Region and take an automated snapshot ofthe read replica

Answer: D

NEW QUESTION 50
A company is running a finance application on an Amazon RDS for MySQL DB instance. The application is governed by multiple financial regulatory agencies. The RDS DB instance is set up with security groups to allow access to certain Amazon EC2 servers only. AWS KMS is used for encryption at rest.
Which step will provide additional security?

A. Set up NACLs that allow the entire EC2 subnet to access the DB instance
B. Disable the master user account
C. Set up a security group that blocks SSH to the DB instance
D. Set up RDS to use SSL for data in transit

Answer: D

NEW QUESTION 51
A financial company has allocated an Amazon RDS MariaDB DB instance with large storage capacity to accommodate migration efforts. Post-migration, the company purged unwanted data from the instance. The company now want to downsize storage to save money. The solution must have the least impact on production and near-zero downtime.
Which solution would meet these requirements?

A. Create a snapshot of the old databases and restore the snapshot with the required storage
B. Create a new RDS DB instance with the required storage and move the databases from the old instancesto the new instance using AWS DMS
C. Create a new database using native backup and restore
D. Create a new read replica and make it the primary by terminating the existing primary

Answer: A

NEW QUESTION 56
An Amazon RDS EBS-optimized instance with Provisioned IOPS (PIOPS) storage is using less than half of its allocated IOPS over the course of several hours under constant load. The RDS instance exhibits multi-second read and write latency, and uses all of its maximum bandwidth for read throughput, yet the instance uses less than half of its CPU and RAM resources.
What should a Database Specialist do in this situation to increase performance and return latency to sub-second levels?

A. Increase the size of the DB instance storage
B. Change the underlying EBS storage type to General Purpose SSD (gp2)
C. Disable EBS optimization on the DB instance
D. Change the DB instance to an instance class with a higher maximum bandwidth

Answer: B

NEW QUESTION 59
A company is using an Amazon Aurora PostgreSQL DB cluster with an xlarge primary instance master and two large Aurora Replicas for high availability and read-only workload scaling. A failover event occurs and application performance is poor for several minutes. During this time, application servers in all Availability Zones are healthy and responding normally.
What should the company do to eliminate this application performance issue?

A. Configure both of the Aurora Replicas to the same instance class as the primary DB instance.Enablecache coherence on the DB cluster, set the primary DB instance failover priority to tier-0, and assign afailover priority of tier-1 to the replicas.
B. Deploy an AWS Lambda function that calls the DescribeDBInstances action to establish which instancehas failed, and then use the PromoteReadReplica operation to promote one Aurora Replica to be theprimary DB instanc
C. Configure an Amazon RDS event subscription to send a notification to an AmazonSNS topic to which the Lambda function is subscribed.
D. Configure one Aurora Replica to have the same instance class as the primary DB instance.ImplementAurora PostgreSQL DB cluster cache managemen
E. Set the failover priority to tier-0 for the primary DBinstance and one replica with the same instance clas
F. Set the failover priority to tier-1 for the otherreplicas.
G. Configure both Aurora Replicas to have the same instance class as the primary DB instance.ImplementAurora PostgreSQL DB cluster cache managemen
H. Set the failover priority to tier-0 for the primary DBinstance and to tier-1 for the replicas.

Answer: D

NEW QUESTION 60
A company is load testing its three-tier production web application deployed with an AWS CloudFormation template on AWS. The Application team is making changes to deploy additional Amazon EC2 and AWS Lambda resources to expand the load testing capacity. A Database Specialist wants to ensure that the changes made by the Application team will not change the Amazon RDS database resources already deployed.
Which combination of steps would allow the Database Specialist to accomplish this? (Choose two.)

A. Review the stack drift before modifying the template
B. Create and review a change set before applying it
C. Export the database resources as stack outputs
D. Define the database resources in a nested stack
E. Set a stack policy for the database resources

Answer: AD

NEW QUESTION 64

A company is running an Amazon RDS for PostgeSQL 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 cluste
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 69
A company has multiple applications serving data from a secure on-premises database. The company is migrating all applications and databases to the AWS Cloud. The IT Risk and Compliance department requires that auditing be enabled on all secure databases to capture all log ins, log outs, failed logins, permission changes, and database schema changes. A Database Specialist has recommended Amazon Aurora MySQL as the migration target, and leveraging the Advanced Auditing feature in Aurora.
Which events need to be specified in the Advanced Auditing configuration to satisfy the minimum auditing requirements? (Choose three.)

A. CONNECT
B. QUERY_DCL
C. QUERY_DDL
D. QUERY_DML
E. TABLE
F. QUERY

Answer: ACE

NEW QUESTION 72
A company has a web-based survey application that uses Amazon DynamoDB. During peak usage, when survey responses are being collected, a Database Specialist sees the ProvisionedThroughputExceededException error.
What can the Database Specialist do to resolve this error? (Choose two.)

A. Change the table to use Amazon DynamoDB Streams
B. Purchase DynamoDB reserved capacity in the affected Region
C. Increase the write capacity units for the specific table
D. Change the table capacity mode to on-demand
E. Change the table type to throughput optimized

Answer: CE

NEW QUESTION 77
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