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QUESTION 1

A company is using an Amazon Aurora PostgreSQL DB cluster for the backend of its mobile application. The application is running continuously and a database specialist is satisfied with high availability and fast failover, but is concerned about performance degradation after failover.

How can the database specialist minimize the performance degradation after failover?

A. Enable cluster cache management for the Aurora DB cluster and set the promotion priority for the writer DB instance and replica to tier-0

B. Enable cluster cache management tor the Aurora DB cluster and set the promotion priority for the writer DB instance and replica to tier-1

C. Enable Query Plan Management for the Aurora DB cluster and perform a manual plan capture

D. Enable Query Plan Management for the Aurora DB cluster and force the query optimizer to use the desired plan

Correct Answer: A

Explanation:

QUESTION 2

A company has a heterogeneous six-node production Amazon Aurora DB cluster that handles online transaction processing (OLTP) for the core business and OLAP reports for the human resources department. To match compute resources to the use case, the company has decided to have the reporting workload for the human resources department be directed to two small nodes in the Aurora DB cluster, while every other workload goes to four large nodes in the same DB cluster.

Which option would ensure that the correct nodes are always available for the appropriate workload while meeting these requirements?

A. Use the writer endpoint for OLTP and the reader endpoint for the OLAP reporting workload.

B. Use automatic scaling for the Aurora Replica to have the appropriate number of replicas for the desired workload.

C. Create additional readers to cater to the different scenarios.

D. Use custom endpoints to satisfy the different workloads.

Correct Answer: D

https://aws.amazon.com/about-aws/whats-new/2018/11/amazon-aurora-simplifies- workload-management-with-custom-endpoints/

You can now create custom endpoints for Amazon Aurora databases. This allows you to distribute and load balance workloads across different sets of database instances in your Aurora cluster. For example, you may provision a set of Aurora Replicas to use an instance type with higher memory capacity in order to run an analytics workload. A custom endpoint can then help you route the analytics workload to these appropriately-configured instances, while keeping other instances in your cluster isolated from this workload. As you add or remove instances from the custom endpoint to match your workload, the endpoint helps spread the load around.

QUESTION 3

After restoring an Amazon RDS snapshot from 3 days ago, a company\\'s Development team cannot connect to the restored RDS DB instance. What is the likely cause of this problem?

A. The restored DB instance does not have Enhanced Monitoring enabled

B. The production DB instance is using a custom parameter group

C. The restored DB instance is using the default security group

D. The production DB instance is using a custom option group

Correct Answer: C

Explanation: https://aws.amazon.com/premiumsupport/knowledge-center/rds-cannot- connect/
https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_RestoreFromSnapsho t.html

QUESTION 4

A major organization maintains a number of Amazon DB clusters. Each of these clusters is configured differently to meet certain needs. These configurations may be classified into wider groups based on the team and use case.

A database administrator wishes to streamline the process of storing and updating these settings. Additionally, the database administrator want to guarantee that changes to certain configuration categories are automatically implemented to all

instances as necessary.

Which AWS service or functionality will assist in automating and achieving this goal?

A. AWS Systems Manager Parameter Store

B. DB parameter group

C. AWS Config

D. AWS Secrets Manager

Correct Answer: B

Explanation: Database parameters specify how the database is configured. For example, database parameters can specify the amount of resources, such as memory, to allocate to a database.

QUESTION 5

A gaming company has implemented a leaderboard in AWS using a Sorted Set data structure within Amazon ElastiCache for Redis. The ElastiCache cluster has been deployed with cluster mode disabled and has a replication group deployed with two additional replicas. The company is planning for a worldwide gaming event and is anticipating a higher write load than what the current cluster can handle.

Which method should a Database Specialist use to scale the ElastiCache cluster ahead of the upcoming event?

A. Enable cluster mode on the existing ElastiCache cluster and configure separate shards for the Sorted Set across all nodes in the cluster.

B. Increase the size of the ElastiCache cluster nodes to a larger instance size.

C. Create an additional ElastiCache cluster and load-balance traffic between the two clusters.

D. Use the EXPIRE command and set a higher time to live (TTL) after each call to increment a given key.

Correct Answer: B

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