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Amazon SAP-C02 is a certification exam that tests the knowledge and skills of an individual in designing and deploying AWS solutions using best practices and architectural principles. It is intended for professionals who have experience in the field of AWS solutions architecture and want to validate their skills and knowledge. Passing the SAP-C02 Exam demonstrates that an individual has the ability to design and deploy scalable, highly available, and fault-tolerant systems on AWS.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q643-Q648):

NEW QUESTION # 643

A company hosts a software as a service (SaaS) solution on AWS. The solution has an Amazon API Gateway API that serves an HTTPS endpoint. The API uses AWS Lambda functions for compute. The Lambda functions store data in an Amazon Aurora Serverless V1 database.

The company used the AWS Serverless Application Model (AWS SAM) to deploy the solution. The solution extends across multiple Availability Zones and has no disaster recovery (DR) plan.

A solutions architect must design a DR strategy that can recover the solution in another AWS Region. The solution has an RTO of 5 minutes and an RPO of 1 minute.

What should the solutions architect do to meet these requirements?

- A. Change the Aurora Serverless V1 database to a standard Aurora MySQL global database that extends across the source

- Region and the target Region. Use AWS SAM to create a runbook to deploy the solution to the target Region.
- B. Create an Aurora Serverless V1 DB cluster that has multiple writer instances in the target Region. Launch the solution in the target Region. Configure the two Regional solutions to work in an active-passive configuration.
 - C. Create a read replica of the Aurora Serverless V1 database in the target Region. Use AWS SAM to create a runbook to deploy the solution to the target Region. Promote the read replica to primary in case of disaster.
 - **D. Change the Aurora Serverless V1 database to a standard Aurora MySQL global database that extends across the source Region and the target Region. Launch the solution in the target Region. Configure the two Regional solutions to work in an active-passive configuration.**

Answer: D

Explanation:

Reference:

Working with Amazon Aurora global database

Active-passive failover

NEW QUESTION # 644

Question:

A company is running a large containerized workload in the AWS Cloud using Amazon ECS. The development team recently started using AWS Fargate instead of EC2 in the ECS cluster. The company is worried about reaching the maximum number of ECS tasks allowed in the account.

A solutions architect must implement a solution that notifies the development team when Fargate usage reaches 80% of the quota. What should the architect do?

- A. Use CloudWatch to monitor the Sample Count for each service. Alert when usage exceeds 80%.
- B. Use AWS Config to monitor Fargate quotas. Notify via SES if non-compliant.
- **C. Use CloudWatch to monitor ECS service quotas under the AWS/Usage namespace. Create an alarm when utilization exceeds 80%. Notify via SNS.**
- D. Use a Lambda function to poll Fargate metrics. Notify via SES when usage exceeds 80%.

Answer: C

Explanation:

B is correct because AWS/Usage namespace in CloudWatch provides built-in metrics for service quota usage.

You can create an alarm for Fargate task count usage and notify the dev team using SNS when it reaches 80% of the quota.

* A misuses "Sample Count" and doesn't relate to service quota.

* C is overly complex and not needed - native metrics exist.

* D misuses Config (meant for compliance, not utilization).

Reference: <https://docs.aws.amazon.com/servicequotas/latest/userguide/monitoring-using-cloudwatch.html>

NEW QUESTION # 645

A company's compliance audit reveals that some Amazon Elastic Block Store (Amazon EBS) volumes that were created in an AWS account were not encrypted. A solutions architect must implement a solution to encrypt all new EBS volumes at rest.

Which solution will meet this requirement with the LEAST effort?

- A. Create an Amazon EventBridge rule to detect the creation of unencrypted EBS volumes. Invoke an AWS Lambda function to delete noncompliant volumes.
- B. Use AWS Audit Manager with data encryption.
- C. Create an AWS Config rule to detect the creation of a new EBS volume. Encrypt the volume by using AWS Systems Manager Automation.
- **D. Turn on EBS encryption by default in all AWS Regions.**

Answer: D

NEW QUESTION # 646

A car rental company has built a serverless REST API to provide data to its mobile app. The app consists of an Amazon API Gateway API with a Regional endpoint, AWS Lambda functions, and an Amazon Aurora MySQL Serverless DB cluster. The

company recently opened the API to mobile apps of partners. A significant increase in the number of requests resulted, causing sporadic database memory errors. Analysis of the API traffic indicates that clients are making multiple HTTP GET requests for the same queries in a short period of time. Traffic is concentrated during business hours, with spikes around holidays and other events. The company needs to improve its ability to support the additional usage while minimizing the increase in costs associated with the solution.

Which strategy meets these requirements?

- A. Enable throttling in the API Gateway production stage. Set the rate and burst values to limit the incoming calls.
- B. Modify the Aurora Serverless DB cluster configuration to increase the maximum amount of available memory.
- **C. Convert the API Gateway Regional endpoint to an edge-optimized endpoint. Enable caching in the production stage.**
- D. Implement an Amazon ElastiCache for Redis cache to store the results of the database calls. Modify the Lambda functions to use the cache.

Answer: C

Explanation:

Explanation: This option allows the company to use Amazon CloudFront to improve the latency and availability of the API requests by caching the responses at the edge locations closest to the clients¹. By enabling caching in the production stage, the company can reduce the number of calls made to the backend services, such as Lambda functions and Aurora Serverless DB cluster, and save on costs and resources². This option also helps to handle traffic spikes and reduce database memory errors by serving cached responses instead of querying the database repeatedly.

References:

Choosing an API endpoint type

Enabling API caching to enhance responsiveness

NEW QUESTION # 647

A company has multiple AWS accounts that are in an organization in AWS Organizations. The company needs to store AWS account activity and query the data from a central location by using SQL.

Which solution will meet these requirements?

- A. Use a delegated administrator account to create an AWS CloudTrail trail. Specify CloudTrail management events for the trail. Enable the trail for all accounts in the organization. Keep all other settings as default. Query the CloudTrail data from the CloudTrail event history page.
- B. Use AWS CloudFormation StackSets to deploy AWS CloudTrail Lake data stores in each account. Specify CloudTrail management events for the data stores. Keep all other settings as default. Query the data in CloudTrail Lake.
- **C. Use a delegated administrator account to create an AWS CloudTrail Lake data store. Specify CloudTrail management events for the data store. Enable the data store for all accounts in the organization. Query the data in CloudTrail Lake.**
- D. Create an AWS CloudTrail trail in each account. Specify CloudTrail management events for the trail. Configure CloudTrail to send the events to Amazon CloudWatch Logs. Configure CloudWatch cross-account observability. Query the data in CloudWatch Logs Insights.

Answer: C

NEW QUESTION # 648

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