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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q18-Q23):

NEW QUESTION # 18

An online magazine will launch its latest edition this month. This edition will be the first to be distributed globally. The magazine's

dynamic website currently uses an Application Load Balancer in front of the web tier, a fleet of Amazon EC2 instances for web and application servers, and Amazon Aurora MySQL. Portions of the website include static content and almost all traffic is read-only. The magazine is expecting a significant spike in internet traffic when the new edition is launched. Optimal performance is a top priority for the week following the launch. Which combination of steps should a solutions architect take to reduce system response times for a global audience? (Choose two.)

- **A. Introduce Amazon Route 53 with latency-based routing and Amazon CloudFront distributions. Ensure the web and application tiers are each in Auto Scaling groups.**
- B. Use logical cross-Region replication to replicate the Aurora MySQL database to a secondary Region. Replace the web servers with Amazon S3. Deploy S3 buckets in cross-Region replication mode.
- **C. Use an Aurora global database for physical cross-Region replication. Use Amazon S3 with cross-Region replication for static content and resources. Deploy the web and application tiers in Regions across the world.**
- D. Ensure the web and application tiers are each in Auto Scaling groups. Introduce an AWS Direct Connect connection. Deploy the web and application tiers in Regions across the world.
- E. Migrate the database from Amazon Aurora to Amazon RDS for MySQL. Ensure all three of the application tiers--web, application, and database--are in private subnets.

Answer: A,C

Explanation:

Aurora Global DB is a must & Latency Based routing & Cloud front.

NEW QUESTION # 19

A company that uses AWS Organizations allows developers to experiment on AWS. As part of the landing zone that the company has deployed, developers use their company email address to request an account. The company wants to ensure that developers are not launching costly services or running services unnecessarily. The company must give developers a fixed monthly budget to limit their AWS costs.

Which combination of steps will meet these requirements? (Choose three.)

- **A. Create an AWS Budgets alert action to send an Amazon Simple Notification Service (Amazon SNS) notification when the budgeted amount is reached. Invoke an AWS Lambda function to terminate all services.**
- B. Create an IAM policy to deny access to costly services and components. Apply the IAM policy to the developer accounts.
- C. Create an AWS Budgets alert action to terminate services when the budgeted amount is reached. Configure the action to terminate all services.
- **D. Use AWS Budgets to create a fixed monthly budget for each developer's account as part of the account creation process.**
- E. Create an SCP to set a fixed monthly account usage limit. Apply the SCP to the developer accounts.
- **F. Create an SCP to deny access to costly services and components. Apply the SCP to the developer accounts.**

Answer: A,D,F

Explanation:

Option A is incorrect because creating an SCP to set a fixed monthly account usage limit is not possible. SCPs are policies that specify the services and actions that users and roles can use in the member accounts of an AWS Organization. SCPs cannot enforce budget limits or prevent users from launching costly services or running services unnecessarily. Option B is correct because using AWS Budgets to create a fixed monthly budget for each developer's account as part of the account creation process meets the requirement of giving developers a fixed monthly budget to limit their AWS costs. AWS Budgets allows you to plan your service usage, service costs, and instance reservations. You can create budgets that alert you when your costs or usage exceed (or are forecasted to exceed) your budgeted amount. Option C is correct because creating an SCP to deny access to costly services and components meets the requirement of ensuring that developers are not launching costly services or running services unnecessarily. SCPs can restrict access to certain AWS services or actions based on conditions such as region, resource tags, or request time. For example, an SCP can deny access to Amazon Redshift clusters or Amazon EC2 instances with certain instance types. Option D is incorrect because creating an IAM policy to deny access to costly services and components is not sufficient to meet the requirement of ensuring that developers are not launching costly services or running services unnecessarily. IAM policies can only control access to resources within a single AWS account. If developers have multiple accounts or can create new accounts, they can bypass the IAM policy restrictions. SCPs can apply across multiple accounts within an AWS Organization and prevent users from creating new accounts that do not comply with the SCP rules. Option E is incorrect because creating an AWS Budgets alert action to terminate

services when the budgeted amount is reached is not possible. AWS Budgets alert actions can only perform one of the following actions: apply an IAM policy, apply an SCP, or send a notification through Amazon SNS. AWS Budgets alert actions cannot terminate services directly.

Option F is correct because creating an AWS Budgets alert action to send an Amazon SNS notification when the budgeted amount is reached and invoking an AWS Lambda function to terminate all services meets the requirement of giving developers a fixed monthly budget to limit their AWS costs. AWS Budgets alert actions can send notifications through Amazon SNS when a budget threshold is breached. Amazon SNS can trigger an AWS Lambda function that can perform custom logic such as terminating all services in the developer's account. This way, developers cannot exceed their budget limit and incur additional costs.

NEW QUESTION # 20

A company uses an Amazon Aurora PostgreSQL DB cluster for applications in a single AWS Region. The company's database team must monitor all data activity on all the databases.

Which solution will achieve this goal?

- A. Set up an AWS Database Migration Service (AWS DMS) change data capture (CDC) task. Specify the Aurora DB cluster as the source. Specify Amazon Kinesis Data Firehose as the target. Use Kinesis Data Firehose to upload the data into an Amazon OpenSearch Service cluster for further analysis.
- B. Start a database activity stream on the Aurora DB cluster to capture the activity stream in Amazon EventBridge. Define an AWS Lambda function as a target for EventBridge. Program the Lambda function to decrypt the messages from EventBridge and to publish all database activity to Amazon S3 for further analysis.
- C. Start a database activity stream on the Aurora DB cluster to push the activity stream to an Amazon Kinesis data stream. Configure Amazon Kinesis Data Firehose to consume the Kinesis data stream and to deliver the data to Amazon S3 for further analysis.
- D. Set up an AWS Database Migration Service (AWS DMS) change data capture (CDC) task. Specify the Aurora DB cluster as the source. Specify Amazon Kinesis Data Firehose as the target. Use Kinesis Data Firehose to upload the data into an Amazon Redshift cluster. Run queries on the Amazon Redshift data to determine database activities on the Aurora database.

Answer: C

Explanation:

<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/DBActivityStreams.Monitoring.html>

NEW QUESTION # 21

A company collects air quality data from sensors. The company plans to use the MQTT protocol to send the data to AWS IoT Core. The company will process the data and then will store the data in an Amazon Aurora database.

During periods of low air quality, sensors will send data more frequently. The company must buffer the data during these periods to make sure that no data is lost before the data is processed and stored.

Which solution will meet these requirements?

- A. Create an Amazon Kinesis data stream. Create an AWS IoT rule action and set the data stream as the target. Create an AWS Step Functions state machine that is invoked by the data stream. Use the state machine to process and store the data.
- B. Create an Amazon SNS topic. Create an AWS IoT rule action and set the SNS topic as the target. Create an application that runs on an Amazon ECS cluster with the AWS Fargate launch type. Configure the application to read data from the SNS topic, process the data, and store the data.
- C. Create an Amazon SQS queue. Create an AWS IoT rule action and set the SQS queue as the target. Create an AWS Step Functions state machine that is invoked by the SQS queue. Use the state machine to process and store the data.
- D. Create an Amazon Kinesis data stream. Create an AWS IoT rule action and set the data stream as the target. Create an application that runs on an Amazon ECS cluster with the AWS Fargate launch type. Configure the application to read data from the data stream, process the data, and store the data.

Answer: D

Explanation:

Using an Amazon Kinesis data stream as a target for the IoT Core rule ensures durable and scalable buffering of data during traffic spikes.

An ECS Fargate application reads data from Kinesis, processes it, and stores it in Aurora, meeting the requirement for flexible, serverless data handling.

This solution guarantees no data loss while providing real-time or near-real-time data processing capabilities.

NEW QUESTION # 22

A company provides a software as a service (SaaS) application that runs in the AWS Cloud. The application runs on Amazon EC2 instances behind a Network Load Balancer (NLB). The instances are in an Auto Scaling group and are distributed across three Availability Zones in a single AWS Region.

The company is deploying the application into additional Regions. The company must provide static IP addresses for the application to customers so that the customers can add the IP addresses to allow lists.

The solution must automatically route customers to the Region that is geographically closest to them.

Which solution will meet these requirements?

- A. Create an AWS Global Accelerator custom routing accelerator. Create a listener for the custom routing accelerator. Add the IP address and ports for the NLB in each additional Region. Provide customers with the Global Accelerator IP address.
- B. Create an Amazon CloudFront distribution. Create a custom origin for the NLB in each additional Region. Provide customers with the IP address ranges of the distribution's edge locations.
- C. Create an Amazon CloudFront distribution. Create a CloudFront origin group. Add the NLB for each additional Region to the origin group. Provide customers with the IP address ranges of the distribution's edge locations.
- **D. Create an AWS Global Accelerator standard accelerator. Create a standard accelerator endpoint for the NLB in each additional Region. Provide customers with the Global Accelerator IP address.**

Answer: D

Explanation:

AWS Global Accelerator is a networking service that helps you improve the availability and performance of the applications that you offer to your global users¹. It provides static IP addresses that act as a fixed entry point to your applications and route user traffic to the optimal endpoint based on performance, health, and policies that you configure¹. By creating a standard accelerator endpoint for the NLB in each additional Region, you can ensure that customers are automatically directed to the Region that is geographically closest to them². You can also provide customers with the Global Accelerator IP address, which is anycast from AWS edge locations and does not change when you add or remove endpoints³.

What is AWS Global Accelerator?

Standard accelerator endpoints

AWS Global Accelerator IP addresses

NEW QUESTION # 23

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