

SAA-C03^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A company wants to reduce the cost of its existing three-tier web architecture. The web, application, and database servers are running on Amazon EC2 instances for the development, test, and production environments. The EC2 instances average 30% CPU utilization during peak hours and 10% CPU utilization during non-peak hours.

The production EC2 instances run 24 hours a day. The development and test EC2 instances run for at least 8 hours each day. The company plans to implement automation to stop the development and test EC2 instances when they are not in use.

Which EC2 instance purchasing solution will meet the company's requirements MOST cost-effectively?

- A. Use Spot Instances for the production EC2 instances. Use Reserved Instances for the development and test EC2 instances.
- B. Use Reserved Instances for the production EC2 instances. Use On-Demand Instances for the development and test EC2 instances.
- C. Use Spot blocks for the production EC2 instances. Use Reserved Instances for the development and test EC2 instances.
- D. Use On-Demand Instances for the production EC2 instances. Use Spot blocks for the development and test EC2 instances.

Correct Answer: B

QUESTION 2

A company wants to migrate an Oracle database to AWS. The database consists of a single table that contains millions of geographic information systems (GIS) images that are high resolution and are identified by a geographic code.

When a natural disaster occurs tens of thousands of images get updated every few minutes. Each geographic code has a single image or row that is associated with it. The company wants a solution that is highly available and scalable during such events

Which solution meets these requirements MOST cost-effectively?

- A. Store the images and geographic codes in a database table. Use Oracle running on an Amazon RDS Multi-AZ DB instance.
- B. Store the images in Amazon S3 buckets. Use Amazon DynamoDB with the geographic code as the key and the image S3 URL as the value.
- C. Store the images and geographic codes in an Amazon DynamoDB table. Configure DynamoDB Accelerator (DAX) during times of high load.
- D. Store the images in Amazon S3 buckets. Store geographic codes and image S3 URLs in a database table. Use Oracle running on an Amazon RDS Multi-AZ DB instance.

Correct Answer: D

Simple use case, highly available, and scalable -> Choose DynamoDB over RDS in terms of cost.

QUESTION 3

A solutions architect is designing a customer-facing application for a company. The application's database will have a clearly defined access pattern throughout the year and will have a variable number of reads and writes that depend on the time of year. The company must retain audit records for the database for 7 days. The recovery point objective (RPO) must be less than 5 hours.

Which solution meets these requirements?

- A. Use Amazon DynamoDB with auto scaling Use on-demand backups and Amazon DynamoDB Streams
- B. Use Amazon Redshift. Configure concurrency scaling. Activate audit logging. Perform database snapshots every 4 hours.
- C. Use Amazon RDS with Provisioned IOPS Activate the database auditing parameter Perform database snapshots every 5 hours
- D. Use Amazon Aurora MySQL with auto scaling. Activate the database auditing parameter

Correct Answer: B

QUESTION 4

A payment processing company records all voice communication with its customers and stores the audio files in an Amazon S3 bucket. The company needs to capture

the text from the audio files. The company must remove from the text any personally identifiable information (PII) that belongs to customers.

What should a solutions architect do to meet these requirements?

- A. Process the audio files by using Amazon Kinesis Video Streams. Use an AWS Lambda function to scan for known PII patterns.
- B. When an audio file is uploaded to the S3 bucket, invoke an AWS Lambda function to start an Amazon Textract task to analyze the call recordings.
- C. Configure an Amazon Transcribe transcription job with PII redaction turned on. When an audio file is uploaded to the S3 bucket, invoke an AWS Lambda function to start the transcription job. Store the output in a separate S3 bucket.
- D. Create an Amazon Connect contact flow that ingests the audio files with transcription turned on. Embed an AWS Lambda function to scan for known PII patterns. Use Amazon EventBridge (Amazon CloudWatch Events) to start the contact flow when an audio file is uploaded to the S3 bucket.

Correct Answer: C

it suggests using Amazon Transcribe with PII redaction turned on. When an audio file is uploaded to the S3 bucket, an AWS Lambda function can be used to start the transcription job. The output can be stored in a separate S3 bucket to ensure that the PII redaction is applied to the transcript. Amazon Transcribe can redact PII such as credit card numbers, social security numbers, and phone numbers.

QUESTION 5

A company needs to run a critical application on AWS. The company needs to use Amazon EC2 for the application's database. The database must be highly available and must fail over automatically if a disruptive event occurs.

Which solution will meet these requirements?

- A. Launch two EC2 instances, each in a different Availability Zone in the same AWS Region. Install the database on both EC2 instances. Configure the EC2 instances as a cluster. Set up database replication.
- B. Launch an EC2 instance in an Availability Zone. Install the database on the EC2 instance. Use an Amazon Machine Image (AMI) to back up the data. Use AWS CloudFormation to automate provisioning of the EC2 instance if a disruptive event occurs.
- C. Launch two EC2 instances, each in a different AWS Region. Install the database on both EC2 instances. Set up database replication. Fail over the database to a second Region.
- D. Launch an EC2 instance in an Availability Zone. Install the database on the EC2 instance. Use an Amazon Machine Image (AMI) to back up the data. Use EC2 automatic recovery to recover the instance if a disruptive event occurs.

Correct Answer: A

ECS Spread placement strategy ECS groups available capacity used to place Tasks into ECS Clusters with ECS Tasks being launched into an ECS Cluster. An ECS Clusters configured to use EC2 will have EC2 Instances registered with it and each EC2 instance resides in a single Availability Zone. You should be ensuring that you have EC2 instances registered with your Cluster from multiple Availability Zones. <https://aws.amazon.com/blogs/containers/amazon-ecs-availability-best-practices/#:~:text=An%20ECS%20Clusters%20configured%20to,Cluster%20from%20multiple%20Availability%20Zones>

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