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QUESTION 1

A company is using AWS to design a web application that will process insurance quotes Users will request quotes from the application Quotes must be separated by quote type, must be responded to within 24 hours, and must not get lost The solution must maximize operational efficiency and must minimize maintenance.

Which solution meets these requirements?

A. Create multiple Amazon Kinesis data streams based on the quote type Configure the web application to send messages to the proper data stream Configure each backend group of application servers to use the Kinesis Client Library (KCL) to pool messages from its own data stream

B. Create an AWS Lambda function and an Amazon Simple Notification Service (Amazon SNS) topic for each quote type Subscribe the Lambda function to its associated SNS topic Configure the application to publish requests tot quotes to the appropriate SNS topic

C. Create a single Amazon Simple Notification Service (Amazon SNS) topic Subscribe Amazon Simple Queue Service (Amazon SQS) queues to the SNS topic Configure SNS message filtering to publish messages to the proper SQS queue based on the quote type Configure each backend application server to use its own SQS queue

D. Create multiple Amazon Kinesis Data Firehose delivery streams based on the quote type to deliver data streams to an Amazon Elasucsearch Service (Amazon ES) cluster Configure the application to send messages to the proper delivery stream Configure each backend group of application servers to search for the messages from Amazon ES and process them accordingly

Correct Answer: C

Quote types need to be separated: SNS message filtering can be used to publish messages to the appropriate SQS queue based on the quote type, ensuring that quotes are separated by type. Quotes must be responded to within 24 hours

and must not get lost: SQS provides reliable and scalable queuing for messages, ensuring that quotes will not get lost and can be processed in a timely manner. Additionally, each backend application server can use its own SQS queue,

ensuring that quotes are processed efficiently without any delay.

Operational efficiency and minimizing maintenance: Using a single SNS topic and multiple SQS queues is a scalable and cost-effective approach, which can help to maximize operational efficiency and minimize maintenance. Additionally,

SNS and SQS are fully managed services, which means that the company will not need to worry about maintenance tasks such as software updates, hardware upgrades, or scaling the infrastructure.

https://aws.amazon.com/getting-started/hands-on/filter-messages-published-to-topics/

QUESTION 2

A company recently migrated its web application to AWS by rehosting the application on Amazon EC2 instances in a single AWS Region. The company wants to redesign its application architecture to be highly available and fault tolerant. Traffic must reach all running EC2 instances randomly.

Which combination of steps should the company take to meet these requirements? (Choose two.)

A. Create an Amazon Route 53 failover routing policy.

B. Create an Amazon Route 53 weighted routing policy.

C. Create an Amazon Route 53 multivalue answer routing policy.

D. Launch three EC2 instances: two instances in one Availability Zone and one instance in another Availability Zone.

E. Launch four EC2 instances: two instances in one Availability Zone and two instances in another Availability Zone.

Correct Answer: CE

Option C, creating an Amazon Route 53 multivalue answer routing policy, is the correct choice. With this routing policy, Route 53 returns multiple IP addresses for the same domain name, allowing the traffic to be distributed randomly among the available EC2 instances. This ensures that the traffic is evenly distributed across the instances launched in different Availability Zones, achieving the desired randomness and load balancing.

Option E is the correct choice. By launching instances in different Availability Zones, the company ensures that there are redundant copies of the application running in separate physical locations, providing fault tolerance. With two instances in one Availability Zone and two instances in another, traffic can be distributed randomly among them, improving availability and load balancing.

https://aws.amazon.com/premiumsupport/knowledge-center/multivalue-versus-simple-policies/

QUESTION 3

A company is using a centralized AWS account to store log data in various Amazon S3 buckets. A solutions architect needs to ensure that the data is encrypted at rest before the data is uploaded to the S3 buckets. The data also must be encrypted in transit.

Which solution meets these requirements?

A. Use client-side encryption to encrypt the data that is being uploaded to the S3 buckets.

B. Use server-side encryption to encrypt the data that is being uploaded to the S3 buckets.

C. Create bucket policies that require the use of server-side encryption with S3 managed encryption keys (SSE-S3) for S3 uploads.

D. Enable the security option to encrypt the S3 buckets through the use of a default AWS Key Management Service (AWS KMS) key.

Correct Answer: A

Use client-side encryption to encrypt the data that is being uploaded to the S3 buckets

QUESTION 4

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 5

A company hosts an internal serverless application on AWS by using Amazon API Gateway and AWS Lambda. The company\\'s employees report issues with high latency when they begin using the application each day. The company wants to reduce latency.

Which solution will meet these requirements?

A. Increase the API Gateway throttling limit.

B. Set up a scheduled scaling to increase Lambda provisioned concurrency before employees begin to use the application each day.

C. Create an Amazon CloudWatch alarm to initiate a Lambda function as a target for the alarm at the beginning of each day.

D. Increase the Lambda function memory.

Correct Answer: B

AWS Lambda is a serverless compute service that lets you run code without provisioning or managing servers. Lambda scales automatically based on the incoming requests, but it may take some time to initialize new instances of your function if there is a sudden increase in demand. This may result in high latency or cold starts for your application. To avoid this, you can use provisioned concurrency, which ensures that your function is initialized and ready to respond at any time. You can also set up a scheduled scaling policy that increases the provisioned concurrency before employees begin to use the application each day, and decreases it when the demand is low.

References: https://docs.aws.amazon.com/lambda/latest/dg/configuration-concurrency.html

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