DVA-C02Q&As

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QUESTION 1

A company hosts its application in the us-west-1 Region. The company wants to add redundancy in the us-east-1 Region.

The application secrets are stored in AWS Secrets Manager in us-west-1. A developer needs to replicate the secrets to us-east-1.

Which solution will meet this requirement?

A. Configure secret replication for each secret. Add us-east-1 as a replication Region. Choose an AWS Key Management Service (AWS KMS) key in us-east-1 to encrypt the replicated secrets.

B. Create a new secret in us-east-1 for each secret. Configure secret replication in us-east-1. Set the source to be the corresponding secret in us-west-1. Choose an AWS Key Management Service (AWS KMS) key in us-west-1 to encrypt the replicated secrets.

C. Create a replication rule for each secret. Set us-east-1 as the destination Region. Configure the rule to run during secret rotation. Choose an AWS Key Management Service (AWS KMS) key in us-east-1 to encrypt the replicated secrets.

D. Create a Secrets Manager lifecycle rule to replicate each secret to a new Amazon S3 bucket in us-west-1. Configure an S3 replication rule to replicate the secrets to us-east-1.

Correct Answer: A

AWS Secrets Manager provides a built-in feature for cross-region replication of secrets. By configuring secret replication, you can add the us-east-1 Region as a replication destination. This ensures that the secrets are automatically and securely replicated from us-west-1 to us-east-1. You also have the option to specify an AWS KMS key in the destination region (us-east-1) to encrypt the replicated secrets, ensuring they are protected by encryption keys in the appropriate region.

QUESTION 2

A company has an ecommerce platform. A developer is designing an Amazon DynamoDB table to store customer order data for the platform. The table uses the order ID as the partition key.

The developer needs to modify the table to get all order IDs that are associated with a given customer email address in a single query. The solution must give the developer the ability to query order IDs by other item attributes in the future.

Which solution will meet these requirements?

A. Configure the partition key to use the customer email address as the sort key.

B. Update the table to use the customer email address as the partition key.

C. Create a local secondary index (LSI) with the customer email address as the sort key.

D. Create a global secondary index (GSI) with the customer email address as the partition key.

Correct Answer: D

QUESTION 3

A company has a critical application on AWS. The application exposes an HTTP API by using Amazon API Gateway. The API is integrated with an AWS Lambda function. The application stores data in an Amazon RDS for MySQL DB instance with 2 virtual CPUs (vCPUs) and 64 GB of RAM.

Customers have reported that some of the API calls return HTTP 500 Internal Server Error responses. Amazon CloudWatch Logs shows errors for "too many connections." The errors occur during peak usage times that are unpredictable.

The company needs to make the application resilient. The database cannot be down outside of scheduled maintenance hours.

Which solution will meet these requirements?

A. Decrease the number of vCPUs for the DB instance. Increase the max_connections setting.

B. Use Amazon RDS Proxy to create a proxy that connects to the DB instance. Update the Lambda function to connect to the proxy.

C. Add a CloudWatch alarm that changes the DB instance class when the number of connections increases to more than 1,000.

D. Add an Amazon EventBridge rule that increases the max_connections setting of the DB instance when CPU utilization is above 75%.

Correct Answer: B

QUESTION 4

A developer wants to reduce risk when deploying a new version of an existing AWS Lambda function. To test the Lambda function, the developer needs to split the traffic between the existing version and the new version of the Lambda function.

Which solution will meet these requirements?

A. Configure a weighted routing policy in Amazon Route 53. Associate the versions of the Lambda function with the weighted routing policy.

B. Create a function alias. Configure the alias to split the traffic between the two versions of the Lambda function.

C. Create an Application Load Balancer (ALB) that uses the Lambda function as a target. Configure the ALB to split the traffic between the two versions of the Lambda function.

D. Create the new version of the Lambda function as a Lambda layer on the existing version. Configure the function to split the traffic between the two layers.

Correct Answer: B

QUESTION 5

A developer is building an application on AWS. The application includes an AWS Lambda function that processes messages from an Amazon Simple Queue Service (Amazon SQS) queue.

The Lambda function sometimes fails or times out. The developer needs to figure out why the Lambda function fails to process some messages.

Which solution will meet these requirements with the LEAST operational overhead?

A. Increase the maximum timeout of the Lambda function to 15 minutes. Check the AWS CloudTrail event history for error details.

B. Increase the visibility timeout of the SQS queue. Check logs in Amazon CloudWatch Logs for error details.

C. Create a dead-letter queue. Configure the Lambda function to send the failed messages to the dead-letter queue.

D. Create an Amazon DynamoDB table. Update the Lambda function to send the failed messages to the DynamoDB table.

Correct Answer: B