DVA-C01^{Q&As}

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QUESTION 1

A developer is creating an AWS Serverless Application Model (AWS SAM) template. The AWS SAM template contains the definition of multiple AWS Lambda functions, an Amazon S3 bucket, and an Amazon CloudFront distribution. One of

the Lambda functions runs on Lambda@Edge in the CloudFront distribution. The S3 bucket is configured as an origin for the CloudFront distribution.

When the developer deploys the AWS SAM template in the eu-west-1 Region, the creation of the stack fails.

What could have caused this issue?

A. CloudFront distributions can be created only in the us-east-1 Region.

B. Lambda@Edge functions can be created only in the us-east-1 Region.

C. A single AWS SAM template cannot contain multiple Lambda functions.

D. The CloudFront distribution and the S3 bucket cannot be created in the same Region.

Correct Answer: C

Reference: https://itnext.io/creating-aws-lambda-applications-with-sam-dd13258c16dd?gi=dc8343f6c2ba

QUESTION 2

A developer is building an application that runs behind an application Load Balancer (ALB). The application is configured as the origin for an Amazon CloudFront distribution. Users will log in to the application using their social media

accounts.

How can the developer authenticate and authorize users?

A. Validate the user by inspecting the tokens using AWS Lambda authorizers on the ALB

B. Configure the ALB to use Amazon Cognito as one of the authentication providers

C. Configure Cloudfront to use Amazon Cognito as one of the authentication providers

D. Authorize the users by calling the Amazon Cognito API in the AWS Lambda authorizer on the ALB

Correct Answer: C

QUESTION 3

A developer is designing a web application in which new users will use their email addresses to create accounts. Millions of users are expected to sign up. The application will store attributes for each user. Which AWS service or

feature should the developer implement to meet these requirements?

A. Amazon Cognito user pools

B. AWS Mobile Hub User File Storage

C. AWS AppSync

D. AWS Mobile Hub Cloud Logic

Correct Answer: A

Reference: https://docs.aws.amazon.com/cognito/latest/developerguide/cognito-user-identity-pools.html

QUESTION 4

A developer is running an application on an Amazon EC2 instance. When the application tries to read an Amazon S3 bucket the application fails. The developer notices that the associated IAM role is missing the S3 read permission. The developer needs to give the application the ability to read the S3 bucket.

Which solution will meet this requirement with the LEAST application disruption?

A. Add the permission to the role. Terminate the existing EC2 instance. Launch a new EC2 instance

B. Add the permission to the role so that the change will take effect automatically

C. Add the permission to the role. Hibernate and restart the existing EC2 instance.

D. Add the permission to the S3 bucket. Restart the EC2 instance.

Correct Answer: D

Reference: https://aws.amazon.com/premiumsupport/knowledge-center/ec2-instance-access-s3-bucket/

QUESTION 5

An AWS Lambda function generates a 3MB JSON file and then uploads it to an Amazon S3 bucket daily. The file contains sensitive information, so the Developer must ensure that it is encrypted before uploading to the bucket. Which of the following modifications should the Developer make to ensure that the data is encrypted before uploading it to the bucket?

A. Use the default AWS KMS customer master key for S3 in the Lambda function code.

B. Use the S3 managed key and call the GenerateDataKey API to encrypt the file.

C. Use the GenerateDateKey API, then use that data key to encrypt the file in the Lambda function code.

D. Use a custom KMS customer master key created for S3 in the Lambda function code.

Correct Answer: C