



# DVA-C02<sup>Q&As</sup>

AWS Certified Developer - Associate

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**QUESTION 1**

A company has a three-tier application that is deployed in Amazon Elastic Container Service (Amazon ECS). The application is using an Amazon RDS for MySQL DB instance. The application performs more database reads than writes.

During times of peak usage, the application's performance degrades. When this performance degradation occurs, the DB instance's ReadLatency metric in Amazon CloudWatch increases suddenly.

How should a developer modify the application to improve performance?

- A. Use Amazon ElastiCache to cache query results.
- B. Scale the ECS cluster to contain more ECS instances.
- C. Add read capacity units (RCUs) to the DB instance.
- D. Modify the ECS task definition to increase the task memory.

Correct Answer: A

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**QUESTION 2**

A company hosts a client-side web application for one of its subsidiaries on Amazon S3. The web application can be accessed through Amazon CloudFront from <https://www.example.com>. After a successful rollout, the company wants to host three more client-side web applications for its remaining subsidiaries on three separate S3 buckets.

To achieve this goal, a developer moves all the common JavaScript files and web fonts to a central S3 bucket that serves the web applications. However, during testing, the developer notices that the browser blocks the JavaScript files and web fonts.

What should the developer do to prevent the browser from blocking the JavaScript files and web fonts?

- A. Create four access points that allow access to the central S3 bucket. Assign an access point to each web application bucket.
- B. Create a bucket policy that allows access to the central S3 bucket. Attach the bucket policy to the central S3 bucket.
- C. Create a cross-origin resource sharing (CORS) configuration that allows access to the central S3 bucket. Add the CORS configuration to the central S3 bucket.
- D. Create a Content-MD5 header that provides a message integrity check for the central S3 bucket. Insert the Content-MD5 header for each web application request.

Correct Answer: C

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/cors.html>

Using cross-origin resource sharing (CORS):

Cross-origin resource sharing (CORS) defines a way for client web applications that are loaded in one domain to interact with resources in a different domain.

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**QUESTION 3**

A developer is building an application that uses AWS API Gateway APIs, AWS Lambda functions, and AWS DynamoDB tables. The developer uses the AWS Serverless Application Model (AWS SAM) to build and run serverless applications on AWS. Each time the developer pushes changes for only to the Lambda functions, all the artifacts in the application are rebuilt.

The developer wants to implement AWS SAM Accelerate by running a command to only redeploy the Lambda functions that have changed.

Which command will meet these requirements?

- A. `sam deploy --force-upload`
- B. `sam deploy --no-execute-changeset`
- C. `sam package`
- D. `sam sync --watch`

Correct Answer: D

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**QUESTION 4**

A developer is writing an AWS Lambda function. The developer wants to log key events that occur while the Lambda function runs. The developer wants to include a unique identifier to associate the events with a specific function invocation. The developer adds the following code to the Lambda function:

```
function handler(event, context) {  
  
}
```

Which solution will meet this requirement?

- A. Obtain the request identifier from the AWS request ID field in the context object. Configure the application to write logs to standard output.
- B. Obtain the request identifier from the AWS request ID field in the event object. Configure the application to write logs to a file.
- C. Obtain the request identifier from the AWS request ID field in the event object. Configure the application to write logs to standard output.
- D. Obtain the request identifier from the AWS request ID field in the context object. Configure the application to write logs to a file.

Correct Answer: A

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**QUESTION 5**



A developer needs to perform geographic load testing of an API. The developer must deploy resources to multiple AWS Regions to support the load testing of the API.

How can the developer meet these requirements without additional application code?

- A. Create and deploy an AWS Lambda function in each desired Region. Configure the Lambda function to create a stack from an AWS CloudFormation template in that Region when the function is invoked.
- B. Create an AWS CloudFormation template that defines the load test resources. Use the AWS CLI create-stack-set command to create a stack set in the desired Regions.
- C. Create an AWS Systems Manager document that defines the resources. Use the document to create the resources in the desired Regions.
- D. Create an AWS CloudFormation template that defines the load test resources. Use the AWS CLI deploy command to create a stack from the template in each Region.

Correct Answer: B

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/stacksets-concepts.html>

<https://awscli.amazonaws.com/v2/documentation/api/2.1.30/reference/cloudformation/create-stack-set.html>

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