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## Amazon AWS Certified Developer - Associate Sample Questions (Q21-Q26):

## NEW QUESTION # 21

A developer has implemented an AWS Lambda function that inserts new customers into an Amazon RDS database. The function is expected to run hundreds of times each hour. The function and RDS database are in the same VPC. The function is configured to use 512 MB of RAM and is based on the following pseudo code:

```
def lambda_handler (event, context):  
  
    db = database.connect()  
    db.statement('INSERT INTO Customers (CustomerName) VALUES (event.name)')  
    db.execute()  
    db.close()
```

After successfully testing the function multiple times, the developer notices that the execution time is longer than expected. What should the developer do to improve performance?

- A. Move the database connection and close statement out of the handler. Place the connection in the global space.
- B. Replace Amazon RDS with Amazon DynamoDB to implement control over the number of writes per second.
- C. Increase the size of the RDS database to facilitate an increased number of database connections each hour.
- D. Increase the reserved concurrency of the Lambda function.

**Answer: A**

## NEW QUESTION # 22

A developer has written the following IAM policy to provide access to an Amazon S3 bucket:

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Effect": "Allow",  
            "Action": [  
                "s3:GetObject",  
                "s3:PutObject"  
            ],  
            "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"  
        },  
        {  
            "Effect": "Deny",  
            "Action": "s3:*",  
            "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/secrets*"  
        }  
    ]  
}
```

Which access does the policy allow regarding the s3:GetObject and s3:PutObject actions?

- A. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket along with access to all S3 actions for objects in the "DOC-EXAMPLE-BUCKET" bucket that start with "secrets"
- B. Access on all buckets that start with "DOC-EXAMPLE-BUCKET" except the "DOC-EXAMPLE-BUCKET/secrets" bucket
- C. Access on all buckets except the "DOC-EXAMPLE-BUCKET" bucket
- D. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket except on objects that start with "secrets"

**Answer: D**

Explanation:

Explanation

The IAM policy shown in the image is a resource-based policy that grants or denies access to an S3 bucket based on certain

conditions. The first statement allows access to any S3 action on any object in the "DOC-EXAMPLE-BUCKET" bucket when the request is made over HTTPS (the value of aws:SecureTransport is true). The second statement denies access to the s3:GetObject and s3:PutObject actions on any object in the "DOC-EXAMPLE-BUCKET/secrets" prefix when the request is made over HTTP (the value of aws:SecureTransport is false). Therefore, the policy allows access on all objects in the "DOC-EXAMPLE-BUCKET" bucket except on objects that start with "secrets". Reference: Using IAM policies for Amazon S3

#### NEW QUESTION # 23

A development team has an Amazon API Gateway REST API that is backed by an AWS Lambda function. Users have reported performance issues for the Lambda function. The development team identified the source of the issues as a cold start of the Lambda function. The development team needs to reduce the time needed for the Lambda function to initialize. Which solution will meet this requirement?

- A. Configure provisioned concurrency for the Lambda function.
- B. Change the Lambda concurrency to reserved concurrency.
- C. Increase the memory allocation of the Lambda function.
- D. Increase the timeout of the Lambda function.

**Answer: A**

#### NEW QUESTION # 24

A developer needs to migrate an online retail application to AWS to handle an anticipated increase in traffic. The application currently runs on two servers: one server for the web application and another server for the database. The web server renders webpages and manages session state in memory. The database server hosts a MySQL database that contains order details. When traffic to the application is heavy, the memory usage for the web server approaches 100% and the application slows down considerably.

The developer has found that most of the memory increase and performance decrease is related to the load of managing additional user sessions. For the web server migration, the developer will use Amazon EC2 instances with an Auto Scaling group behind an Application Load Balancer.

Which additional set of changes should the developer make to the application to improve the application's performance?

- A. Use Amazon ElastiCache for Memcached to store and manage the session data. Use an Amazon RDS for MySQL DB instance to store the application data.
- B. Use the EC2 instance store to manage the session data. Use an Amazon RDS for MySQL DB instance to store the application data.
- C. Use an EC2 instance to host the MySQL database. Store the session data and the application data in the MySQL database.
- D. Use Amazon ElastiCache for Memcached to store and manage the session data and the application data.

**Answer: A**

Explanation:

Using Amazon ElastiCache for Memcached to store and manage the session data will reduce the memory load and improve the performance of the web server. Using Amazon RDS for MySQL DB instance to store the application data will provide a scalable, reliable, and managed database service. Option A is not optimal because it does not address the memory issue of the web server. Option C is not optimal because it does not provide a persistent storage for the application data. Option D is not optimal because it does not provide a high availability and durability for the session data.

#### NEW QUESTION # 25

An online food company provides an Amazon API Gateway HTTP API 1.0 to receive orders for partners. The API is integrated with an AWS Lambda function. The Lambda function stores the orders in an Amazon DynamoDB table.

The company expects to onboard additional partners. Some partners require additional Lambda functions to receive orders. The company has created an Amazon S3 bucket. The company needs to store all orders and updates in the S3 bucket for future analysis. How can the developer ensure that all orders and updates are stored to Amazon S3 with the LEAST development effort?

- A. Modify the Lambda function to publish to a new Amazon Simple Lambda function. The new Lambda function receives orders. Subscribe a new Lambda function to the topic. Configure the new Lambda function to write to the S3 bucket as updates come through the

topic.

- B. Enable DynamoDB Streams on the DynamoDB table. Create a new Lambda function. Associate the stream's Amazon Resource Name (ARN) with the Lambda Function. Configure the Lambda function to write to the S3 bucket as records appear in the table's stream
- C. Create a new Lambda function and a new API Gateway API endpoint. Configure the new Lambda function to write to the S3 bucket. Modify the original Lambda function to post updates to the new API endpoint.
- D. Use Amazon Kinesis Data Streams to create a new data stream. Modify the Lambda function to publish orders to the data stream. Configure the data stream to write to the S3 bucket.

#### Answer: B

Explanation:

This solution will ensure that all orders and updates are stored to Amazon S3 with the least development effort because it uses DynamoDB Streams to capture changes in the DynamoDB table and trigger a Lambda function to write those changes to the S3 bucket. This way, the original Lambda function and API Gateway API endpoint do not need to be modified, and no additional services are required. Option A is not optimal because it will require more development effort to create a new Lambda function and a new API Gateway API endpoint, and to modify the original Lambda function to post updates to the new API endpoint. Option B is not optimal because it will introduce additional costs and complexity to use Amazon Kinesis Data Streams to create a new data stream, and to modify the Lambda function to publish orders to the data stream. Option D is not optimal because it will require more development effort to modify the Lambda function to publish to a new Amazon SNS topic, and to create and subscribe a new Lambda function to the topic.

References: Using DynamoDB Streams, Using AWS Lambda with Amazon S3

#### NEW QUESTION # 26

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