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QUESTION 1

A Developer is building a serverless application using AWS Lambda and must create a REST API using an HTTP GET method. What needs to be defined to meet this requirement? (Choose two.)

- A. A Lambda@Edge function
- B. An Amazon API Gateway with a Lambda function
- C. An exposed GET method in an Amazon API Gateway
- D. An exposed GET method in the Lambda function
- E. An exposed GET method in Amazon Route 53

Correct Answer: BC

Reference: <https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-getting-started-with-rest-apis.html>

QUESTION 2

A company is building an application to track athlete performance using an Amazon DynamoDB table. Each item in the table is identified by a partition key (`user_id`) and a sort key (`sport_name`). The table design is shown below:

```
Partition Key: user_id
Sort Key:     sport_name
Attributes:  score
             score_datetime
```

(Note: Not all table attributes are shown)

A Developer is asked to write a leaderboard application to display the top performers (`user_id`) based on the score for each `sport_name`.

What process will allow the Developer to extract results MOST efficiently from the DynamoDB table?

- A. Use a DynamoDB query operation with the key attributes of `user_id` and `sport_name` and order the results based on the score attribute.
- B. Create a global secondary index with a partition key of `sport_name` and a sort key of `score`, and get the results
- C. Use a DynamoDB scan operation to retrieve scores and `user_id` based on `sport_name`, and order the results based on the score attribute.
- D. Create a local secondary index with a primary key of `sport_name` and a sort key of `score` and get the results based on the score attribute.

Correct Answer: B

<https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/SecondaryIndexes.html>
https://docs.aws.amazon.com/zh_cn/amazondynamodb/latest/developerguide/GSI.html

QUESTION 3

A company is running a custom web application on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Auto Scaling group. The company's development team is using AWS CloudFormation to deploy all the services. The application is time-consuming to install and configure when the development team launches a new instance

Which combination of steps should a developer take to optimize the performance when a new instance is launched? (Choose two.)

- A. Use an AWS Marketplace Amazon Machine Image (AMI) with a prebuilt application.
- B. Create a prebuilt Amazon Machine Image (AMI) with the application installed and configured.
- C. Update the launch template resource in the CloudFormation template.
- D. Use AWS Systems Manager Run Command to install and configure the application.
- E. Use CloudFormation helper scripts to install and configure the application.

Correct Answer: CE

Reference: <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/best-practices.html>

QUESTION 4

A company is migrating a single-server, on-premises web application to AWS. The company intends to use multiple servers behind an Elastic Load Balancer (ELB) to balance the load, and will also store session data in memory on the web server. The company does not want to lose that session data if a server fails or goes offline, and it wants to minimize user's downtime.

Where should the company move session data to MOST effectively reduce downtime and make users' session data more fault tolerant?

- A. An Amazon ElastiCache for Redis cluster
- B. A second Amazon EBS volume
- C. The web server's primary disk
- D. An Amazon EC2 instance dedicated to session data

Correct Answer: A

QUESTION 5

A company recently migrated its web, application and NoSQL database tiers to AWS. The company is using Auto Scaling to scale the web and application tiers. More than 95 percent of the Amazon DynamoDB requests are repeated

read-requests.

How can the DynamoDB NoSQL tier be scaled up to cache these repeated requests?

- A. Amazon EMR
- B. Amazon DynamoDB Accelerator
- C. Amazon SQS
- D. Amazon CloudFront

Correct Answer: B

Reference: <https://aws.amazon.com/dynamodb/dax/>

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