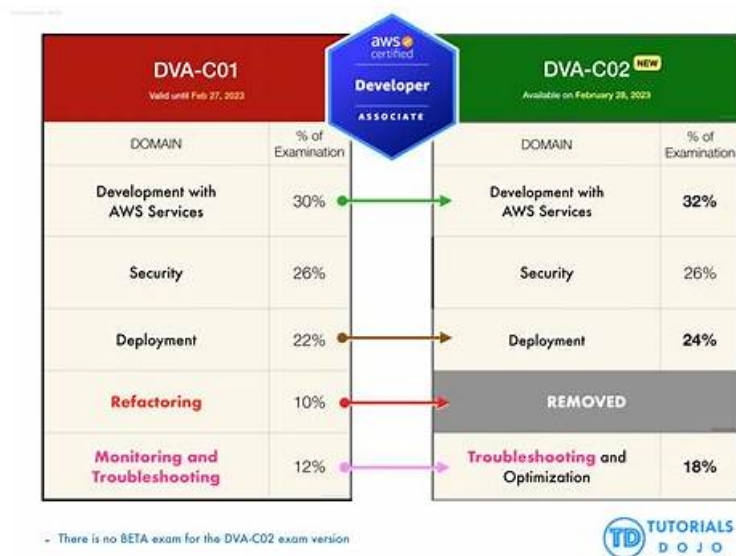


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The AWS Certified Developer - Associate certification exam, also known as Amazon DVA-C02, is designed for professionals who want to demonstrate their expertise in developing and deploying AWS applications. DVA-C02 Exam Tests a candidate's ability to write code using AWS services, design and deploy scalable and highly available systems, and troubleshoot common issues.

Amazon DVA-C02 (AWS Certified Developer - Associate) Certification Exam is an industry-recognized certification for developers who have expertise in building and deploying applications on the Amazon Web Services (AWS) platform. AWS Certified Developer - Associate certification exam validates the candidate's ability to design, develop, and maintain applications on AWS, and it is intended for professionals who have a minimum of one year of experience in developing and maintaining AWS-based applications.

Amazon DVA-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Troubleshooting and Optimization: This topic prepares AWS developers to assist in root cause analysis, integrate observability into their code with instrumentation, and optimize applications using AWS services and features. Mastery of these skills ensures developers can maintain and enhance application performance and reliability efficiently.
Topic 2	<ul style="list-style-type: none"> Deployment: AWS developers learn to prepare application artifacts for deployment, conduct rigorous testing in development environments, and automate deployment testing workflows. This topic also introduces the use of AWS CI CD services for efficient code deployment. The knowledge ensures effective application lifecycle management in production environments.

Topic 3	<ul style="list-style-type: none"> • Security: This topic empowers AWS developers to implement robust authentication and authorization mechanisms for applications and AWS services. It also highlights best practices in applying encryption using AWS tools and securely managing sensitive data within application code. Developers enhance their ability to create secure, compliant applications in the AWS ecosystem.
Topic 4	<ul style="list-style-type: none"> • Development with AWS Services: In this topic, AWS developers gain expertise in writing and managing code for applications hosted on AWS, including leveraging AWS Lambda for serverless architectures. The focus also includes using data stores effectively in application development. The topic sharpens skills in cloud-native application development, aligning with the requirements of scalable, efficient systems.

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Amazon AWS Certified Developer - Associate Sample Questions (Q53-Q58):

NEW QUESTION # 53

An developer is building a serverless application by using the AWS Serverless Application Model (AWS SAM). The developer is currently testing the application in a development environment. When the application is nearly finished, the developer will need to set up additional testing and staging environments for a quality assurance team.

The developer wants to use a feature of the AWS SAM to set up deployments to multiple environments.

Which solution will meet these requirements with the LEAST development effort?

- A. Use the existing AWS SAM template. Add additional parameters to configure specific attributes for the serverless function and database table resources that are in each environment. Deploy updates to the testing and staging environments by using the sam deploy command.
- B. Add a configuration file in TOML format to group configuration entries to every environment. Add a table for each testing and staging environment. Deploy updates to the environments by using the sam deploy command and the --config-env flag that corresponds to the each environment.
- C. Create additional AWS SAM templates for each testing and staging environment. Write a custom shell script that uses the sam deploy command and the --template-file flag to deploy updates to the environments.
- D. Create one AWS SAM configuration file that has default parameters. Perform updates to the testing and staging environments by using the -parameter-overrides flag in the AWS SAM CLI and the parameters that the updates will override.

Answer: B

NEW QUESTION # 54

A developer is building a highly secure healthcare application using serverless components. This application requires writing temporary data to /tmp storage on an AWS Lambda function.

How should the developer encrypt this data?

- A. Enable Amazon EBS volume encryption with an AWS KMS key in the Lambda function configuration so that all storage attached to the Lambda function is encrypted.
- B. Use OpenSSL to generate a symmetric encryption key on Lambda startup. Use this key to encrypt the data prior to writing to /tmp.
- C. Use an on-premises hardware security module (HSM) to generate keys, where the Lambda function requests a data key from the HSM and uses that to encrypt data on all requests to the function.
- D. Set up the Lambda function with a role and key policy to access an AWS KMS key. Use the key to generate a data key used to encrypt all data prior to writing to /tmp storage.

Answer: D

NEW QUESTION # 55

A developer must analyze performance issues with production-distributed applications written as AWS Lambda functions. These distributed Lambda applications invoke other components that make up the applications. How should the developer identify and troubleshoot the root cause of the performance issues in production?

- A. Run Amazon Inspector agents and then analyze performance.
- B. Add logging statements to the Lambda functions, then use Amazon CloudWatch to view the logs.
- **C. Use AWS X-Ray, then examine the segments and errors.**
- D. Use AWS CloudTrail and then examine the logs.

Answer: C

Explanation:

This solution will meet the requirements by using AWS X-Ray to analyze and debug the performance issues with the distributed Lambda applications. AWS X-Ray is a service that collects data about requests that the applications serve, and provides tools to view, filter, and gain insights into that data. The developer can use AWS X-Ray to identify the root cause of the performance issues by examining the segments and errors that show the details of each request and the components that make up the applications. Option A is not optimal because it will use logging statements and Amazon CloudWatch, which may not provide enough information or visibility into the distributed applications. Option B is not optimal because it will use AWS CloudTrail, which is a service that records API calls and events for AWS services, not application performance data.

Option D is not optimal because it will use Amazon Inspector, which is a service that helps improve the security and compliance of applications on Amazon EC2 instances, not Lambda functions.

References: AWS X-Ray, Using AWS X-Ray with AWS Lambda

NEW QUESTION # 56

A developer is creating an AWS Lambda function that searches for items from an Amazon DynamoDB table that contains customer contact information. The DynamoDB table items have the customer's email_address as the partition key and additional properties such as customer_type, name, and job_title.

The Lambda function runs whenever a user types a new character into the customer_type text input. The developer wants the search to return partial matches of all the email_address property of a particular customer_type. The developer does not want to recreate the DynamoDB table.

What should the developer do to meet these requirements?

- A. Add a local secondary index (LSI) to the DynamoDB table. With customer_type as the partition key and email_address as the sort key. Perform a query operation on the LSI by using the begins_with key condition expression. With the email_address property.
- B. Add a global secondary index (GSI) to the DynamoDB table. With email_address as the partition key and customer_type as the sort key. Perform a query operation on the GSI by using the begins_with key condition expression. With the email_address property.
- C. Add a local secondary index (LSI) to the DynamoDB table. With job_title as the partition key and email_address as the sort key. Perform a query operation on the LSI by using the begins_with key condition expression. With the email_address property.
- **D. Add a global secondary index (GSI) to the DynamoDB table with customer_type as the partition key and email_address as the sort key. Perform a query operation on the GSI by using the begins_with key condition expression. With the email_address property.**

Answer: D

Explanation:

Understand the Problem: The existing DynamoDB table has email_address as the partition key. Searching by customer_type requires a different data access pattern. We need an efficient way to query for partial matches on email_address based on customer_type.

Why Global Secondary Index (GSI):

GSIs allow you to define a different partition key and sort key from the main table, enabling new query patterns.

In this case, having customer_type as the GSI's partition key lets you group all emails with the same customer_type together.

Using email_address as the sort key allows ordering within each customer_type, facilitating the partial matching.

Querying the GSI:

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