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Amazon DVA-C02 Practice Questions

AWS Certified Developer - Associate

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1. A company has deployed infrastructure on AWS. A development team wants to create an AWS

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The Amazon DVA-C02 exam is intended for individuals who have experience in developing and maintaining applications in AWS. It is also recommended that candidates have a basic understanding of at least one programming language and a working knowledge of RESTful API design principles. The Amazon DVA-C02 Certification is an excellent way for developers to demonstrate their expertise and differentiate themselves in a competitive job market.

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It can be said that our DVA-C02 study materials are the most powerful in the market at present, not only because our company is

leader of other companies, but also because we have loyal users. DVA-C02 study materials are not only the domestic market, but also the international high-end market. We are studying some learning models suitable for high-end users. Our research materials have many advantages. Now, I will briefly introduce some details about our DVA-C02 Study Materials for your reference.

Amazon DVA-C02 (AWS Certified Developer - Associate) exam is a certification exam designed for developers who work with Amazon Web Services (AWS). DVA-C02 exam validates a developer's ability to design, develop, and deploy cloud-based solutions using AWS services. It is intended for individuals who have experience in developing and maintaining AWS-based applications.

The AWS Certified Developer - Associate certification exam is intended for individuals who have at least one year of experience in developing and maintaining applications on AWS. Candidates should have a good understanding of AWS services, programming languages, and development frameworks. They should also be familiar with AWS deployment and management tools, as well as best practices for developing and testing applications on AWS.

Amazon AWS Certified Developer - Associate Sample Questions (Q374-Q379):

NEW QUESTION # 374

A Developer has been asked to make changes to the source code of an AWS Lambda function.

The function is managed using an AWS CloudFormation template. The template is configured to load the source code from an Amazon S3 bucket. The Developer manually created a .ZIP file deployment package containing the changes and put the file into the correct location on Amazon S3. When the function is invoked, the code changes have not been applied.

What step is required to update the function with the changes?

- A. Delete the .ZIP file on S3, and re-upload by using a different object key name.
- **B. Update the CloudFormation stack with the correct values for the function code properties S3Bucket, S3Key, or S3ObjectVersion.**
- C. Ensure that the function source code is base64-encoded before uploading the deployment package to S3.
- D. Modify the execution role of the Lambda function to allow S3 access permission to the deployment package .ZIP file.

Answer: B

Explanation:

Changes to a deployment package in Amazon S3 are not detected automatically during stack updates. To update the function code, change the object key or version in the template.

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-properties-lambda-function-code.html>

NEW QUESTION # 375

An ecommerce startup is preparing for an annual sales event. As the traffic to the company's application increases, the development team wants to be notified when the Amazon EC2 instance's CPU utilization exceeds 80%.

Which solution will meet this requirement?

- A. Create a cron job on the EC2 instance that invokes the `--describe-instance-information` command on the host instance every 15 minutes and sends the results to an Amazon SNS topic.
- B. Create an AWS Lambda function that queries the AWS CloudTrail logs for the CPUUtilization metric every 15 minutes and sends a notification to an Amazon SNS topic when the CPU utilization exceeds 80%.
- C. Create a custom AWS CloudTrail alarm that sends a notification to an Amazon SNS topic when the CPU utilization exceeds 80%.
- **D. Create a custom Amazon CloudWatch alarm that sends a notification to an Amazon SNS topic when the CPU utilization exceeds 80%.**

Answer: D

Explanation:

Step-by-Step Breakdown:

Requirement Summary:

* Get notified when EC2 CPU Utilization > 80%

Option A: CloudWatch Alarm with SNS

* #Correct and standard AWS practice

- * CloudWatch automatically collects EC2 metrics, including CPU utilization.
 - * You can set a CloudWatch Alarm with a threshold (80% in this case).
 - * Then, trigger an SNS notification to email, SMS, Lambda, etc.
- Option B: AWS CloudTrail alarm
- * #Incorrect: CloudTrail logs API activity, not performance metrics.
 - * It doesn't track metrics like CPU utilization.
- Option C: Cron job on EC2 running --describe-instance-information
- * #Incorrect: This doesn't give CPU usage.
 - * Also inefficient, and polling is bad practice when CloudWatch already monitors this natively.
- Option D: Lambda function querying CloudTrail for CPU usage
- * #Incorrect and conceptually flawed.
 - * CloudTrail does not store performance metrics; CloudWatch does.
- * CloudWatch Alarms for EC2: <https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/AlarmThatSendsEmail.html>
- * EC2 Metrics in CloudWatch: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/viewing_metrics_with_cloudwatch.html
- * Amazon SNS Notification Setup: <https://docs.aws.amazon.com/sns/latest/dg/sns-email-notifications.html>

NEW QUESTION # 376

A company is expanding the compatibility of its photo-snaring mobile app to hundreds of additional devices with unique screen dimensions and resolutions. Photos are stored in Amazon S3 in their original format and resolution. The company uses an Amazon CloudFront distribution to serve the photos. The app includes the dimension and resolution of the display as GET parameters with every request.

A developer needs to implement a solution that optimizes the photos that are served to each device to reduce load time and increase photo quality.

Which solution will meet these requirements MOST cost-effectively?

- A. Use S3 Batch Operations to invoke an AWS Lambda function to create new variants of the photos with the required dimensions and resolutions. Create a Lambda@Edge function to route requests to the corresponding photo variant by using request headers.
- **B. Create a Lambda@Edge function that optimizes the photos upon request and returns the photos as a response. In the same function store a copy of the processed photos on Amazon S3 for subsequent requests.**
- C. Create a Lambda@Edge function that optimizes the photos upon request and returns the photos as a response. Change the CloudFront TTL cache policy to the maximum value possible.
- D. Use S3 Batch Operations to invoke an AWS Lambda function to create new variants of the photos with the required dimensions and resolutions. Create a dynamic CloudFront origin that automatically maps the request of each device to the corresponding photo variant.

Answer: B

Explanation:

This solution meets the requirements most cost-effectively because it optimizes the photos on demand and caches them for future requests. Lambda@Edge allows the developer to run Lambda functions at AWS locations closer to viewers, which can reduce latency and improve photo quality. The developer can create a Lambda@Edge function that uses the GET parameters from each request to optimize the photos with the required dimensions and resolutions and returns them as a response. The function can also store a copy of the processed photos on Amazon S3 for subsequent requests, which can reduce processing time and costs. Using S3 Batch Operations to create new variants of the photos will incur additional storage costs and may not cover all possible dimensions and resolutions. Creating a dynamic CloudFront origin or a Lambda@Edge function to route requests to corresponding photo variants will require maintaining a mapping of device types and photo variants, which can be complex and error-prone.

NEW QUESTION # 377

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. 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.

- B. 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.
- 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. 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.

Answer: A

Explanation:

The correct answer is A. 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.

A: 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. This is correct. This solution will meet the requirements with the least development effort, because it uses a feature of the AWS SAM CLI that supports a project-level configuration file that can be used to configure AWS SAM CLI command parameter values¹. The configuration file can have multiple environments, each with its own set of parameter values, such as stack name, region, capabilities, and more². The developer can use the --config-env option to specify which environment to use when deploying the application³. This way, the developer can avoid creating multiple templates or scripts, or manually overriding parameters for each environment.

B: 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.

This is incorrect. This solution will not meet the requirements with the least development effort, because it requires creating and maintaining multiple templates and scripts for each environment. This can introduce duplication, inconsistency, and complexity in the deployment process.

C: 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. This is incorrect. This solution will not meet the requirements with the least development effort, because it requires manually specifying and overriding parameters for each environment every time the developer deploys the application. This can be error-prone, tedious, and inefficient.

D: 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. This is incorrect. This solution will not meet the requirements with the least development effort, because it requires modifying the existing template and adding complexity to the resource definitions for each environment. This can also make it difficult to manage and track changes across different environments.

References:

* 1: AWS SAM CLI configuration file - AWS Serverless Application Model

* 2: Configuration file basics - AWS Serverless Application Model

* 3: Specify a configuration file - AWS Serverless Application Model

NEW QUESTION # 378

A developer is working on a web application that uses Amazon DynamoDB as its data store. The application has two DynamoDB tables: one table that is named artists and one table that is named songs. The artists table has artistName as the partition key. The songs table has songName as the partition key and artistName as the sort key.

The table usage patterns include the retrieval of multiple songs and artists in a single database operation from the webpage. The developer needs a way to retrieve this information with minimal network traffic and optimal application performance.

Which solution will meet these requirements?

- A. Perform a Scan operation on each table that filters by the list of songName/artistName for the songs table and the list of artistName in the artists table.
- B. Perform a BatchGetItem operation on the songs table that uses the songName/artistName keys. Perform a BatchGetItem operation on the artists table that uses artistName as the key.
- C. Create a local secondary index (LSI) on the songs table that uses artistName as the partition key. Perform a query operation for each artistName on the songs table that filters by the list of songName. Perform a query operation for each artistName on the artists table.
- D. Perform a BatchGetItem operation that returns items from the two tables. Use the list of songName/artistName keys for the songs table and the list of artistName key for the artists table.

Answer: D

Explanation:

BatchGetItem can return one or multiple items from one or more tables.

https://docs.aws.amazon.com/amazondynamodb/latest/APIReference/API_BatchGetItem.html

NEW QUESTION # 379

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