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The DVA-C02 Exam is designed for developers who have a minimum of one year of experience in developing and maintaining AWS-based applications. Candidates should have a good understanding of at least one programming language, such as Python, Java, or C#. They should also have experience in using AWS services, such as AWS Elastic Beanstalk, AWS CloudFormation, AWS CodeCommit, AWS CodePipeline, and AWS CodeBuild.

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Amazon DVA-C02 exam covers a wide range of AWS services and concepts, including AWS Lambda, AWS Elastic Beanstalk, AWS DynamoDB, AWS Simple Queue Service (SQS), and AWS Simple Notification Service (SNS). DVA-C02 exam also tests a candidate's knowledge of AWS security and compliance, cost optimization, and troubleshooting. DVA-C02 Exam consists of 65 multiple-choice and multiple-response questions and must be completed within 130 minutes.

Amazon AWS Certified Developer - Associate Sample Questions (Q173-Q178):

NEW QUESTION # 173

A developer is designing a serverless application with two AWS Lambda functions to process photos. One Lambda function stores objects in an Amazon S3 bucket and stores the associated metadata in an Amazon DynamoDB table. The other Lambda function fetches the objects from the S3 bucket by using the metadata from the DynamoDB table. Both Lambda functions use the same Python library to perform complex computations and are approaching the quota for the maximum size of zipped deployment packages.

What should the developer do to reduce the size of the Lambda deployment packages with the LEAST operational overhead?

- A. Package each Python library in its own .zip file archive. Deploy each Lambda function with its own copy of the library.
- B. Download the Python library to an S3 bucket. Program the Lambda functions to reference the object URLs.
- **C. Create a Lambda layer with the required Python library. Use the Lambda layer in both Lambda functions.**
- D. Combine the two Lambda functions into one Lambda function. Deploy the Lambda function as a single .zip file archive.

Answer: C

Explanation:

AWS Lambda is a service that lets developers run code without provisioning or managing servers. Lambda layers are a distribution mechanism for libraries, custom runtimes, and other dependencies. The developer can create a Lambda layer with the required Python library and use the layer in both Lambda functions. This will reduce the size of the Lambda deployment packages and avoid reaching the quota for the maximum size of zipped deployment packages. The developer can also benefit from using layers to manage dependencies separately from function code.

NEW QUESTION # 174

A developer is testing an application that invokes an AWS Lambda function asynchronously. During the testing phase the Lambda function fails to process after two retries.

How can the developer troubleshoot the failure?

- A. Configure AWS CloudTrail logging to investigate the invocation failures.
- B. Configure Amazon Simple Workflow Service to process any direct unprocessed events.
- **C. Configure Dead Letter Queues by sending events to Amazon SQS for investigation.**
- D. Configure AWS Config to process any direct unprocessed events.

Answer: C

Explanation:

This solution allows the developer to troubleshoot the failure by capturing unprocessed events in a queue for further analysis. Dead Letter Queues (DLQs) are queues that store messages that could not be processed by a service, such as Lambda, for various reasons, such as configuration errors, throttling limits, or permissions issues. The developer can configure DLQs for Lambda functions by sending events to either an Amazon Simple Queue Service (SQS) queue or an Amazon Simple Notification Service (SNS) topic. The developer can then inspect the messages in the queue or topic to identify and fix the root cause of the failure. Configuring AWS CloudTrail logging will not capture invocation failures for asynchronous Lambda invocations, but only record API calls made by or on behalf of Lambda. Configuring Amazon Simple Workflow Service (SWF) or AWS Config will not process any direct unprocessed events, but require additional integration and configuration.

Reference: [Using AWS Lambda with DLQs], [Asynchronous invocation]

NEW QUESTION # 175

A developer is creating an application that will be deployed on IoT devices. The application will send data to a RESTful API that is deployed as an AWS Lambda function. The application will assign each API request a unique identifier. The volume of API requests from the application can randomly increase at any given time of day.

During periods of request throttling, the application might need to retry requests. The API must be able to handle duplicate requests without inconsistencies or data loss.

Which solution will meet these requirements?

- A. Create an Amazon RDS for MySQL DB instance. Store the unique identifier for each request in a database table. Modify the Lambda function to check the table for the identifier before processing the request.
- B. Create an Amazon ElastiCache for Memcached instance. Store the unique identifier for each request in the cache. Modify the Lambda function to check the cache for the identifier before processing the request.
- **C. Create an Amazon DynamoDB table. Store the unique identifier for each request in the table. Modify the Lambda function to check the table for the identifier before processing the request.**
- D. Create an Amazon DynamoDB table. Store the unique identifier for each request in the table. Modify the Lambda function to return a client error response when the function receives a duplicate request.

Answer: C

Explanation:

Amazon DynamoDB is a fully managed NoSQL database service that can store and retrieve any amount of data with high

availability and performance. DynamoDB can handle concurrent requests from multiple IoT devices without throttling or data loss. To prevent duplicate requests from causing inconsistencies or data loss, the Lambda function can use DynamoDB conditional writes to check if the unique identifier for each request already exists in the table before processing the request. If the identifier exists, the function can skip or abort the request; otherwise, it can process the request and store the identifier in the table. Reference: Using conditional writes

NEW QUESTION # 176

A company has a front-end application that runs on four Amazon EC2 instances behind an Elastic Load Balancer (ELB) in a production environment that is provisioned by AWS Elastic Beanstalk.

A developer needs to deploy and test new application code while updating the Elastic Beanstalk platform from the current version to a newer version of Node.js. The solution must result in zero downtime for the application.

Which solution meets these requirements?

- A. Perform an immutable update to deploy the new application code to new EC2 instances. Serve traffic to the new instances after they pass health checks.
- B. Use a rolling deployment for the new application code. Apply the code to a subset of EC2 instances until the tests pass. Redeploy the previous code if the tests fail.
- **C. Clone the production environment to a different platform version. Deploy the new application code, and test it. Swap the environment URLs upon verification.**
- D. Deploy the new application code in an all-at-once deployment to the existing EC2 instances. Test the code. Redeploy the previous code if verification fails.

Answer: C

Explanation:

A developer also needs to update to a new platform version and it's more likely a new major version of node.js. To update to the new major version there is only one method and it is a blue/green deployment by creating (cloning) a new environment with the latest platform version.

Then deploy a new app version to it. Test it, then swap the env URL without downtime.

Not C: While an immutable update can ensure zero downtime during the deployment process, it doesn't account for updating the Elastic Beanstalk platform version.

NEW QUESTION # 177

A developer is building an ecommerce application that uses multiple AWS Lambda functions. Each function performs a specific step in a customer order workflow, such as order processing and inventory management.

The developer must ensure that the Lambda functions run in a specific order.

Which solution will meet this requirement with the LEAST operational overhead?

- **A. Configure an AWS Step Functions state machine to invoke the Lambda functions in a specific order.**
- B. Configure an Amazon Simple Notification Service (Amazon SNS) topic to contain notifications about each step a function must perform. Subscribe the Lambda functions to the SNS topic. Use subscription filters based on the step each function must perform.
- C. Configure Amazon EventBridge Scheduler schedules to invoke the Lambda functions in a specific order.
- D. Configure an Amazon Simple Queue Service (Amazon SQS) queue to contain messages about each step a function must perform. Configure the Lambda functions to run sequentially based on the order of messages in the SQS queue.

Answer: A

NEW QUESTION # 178

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