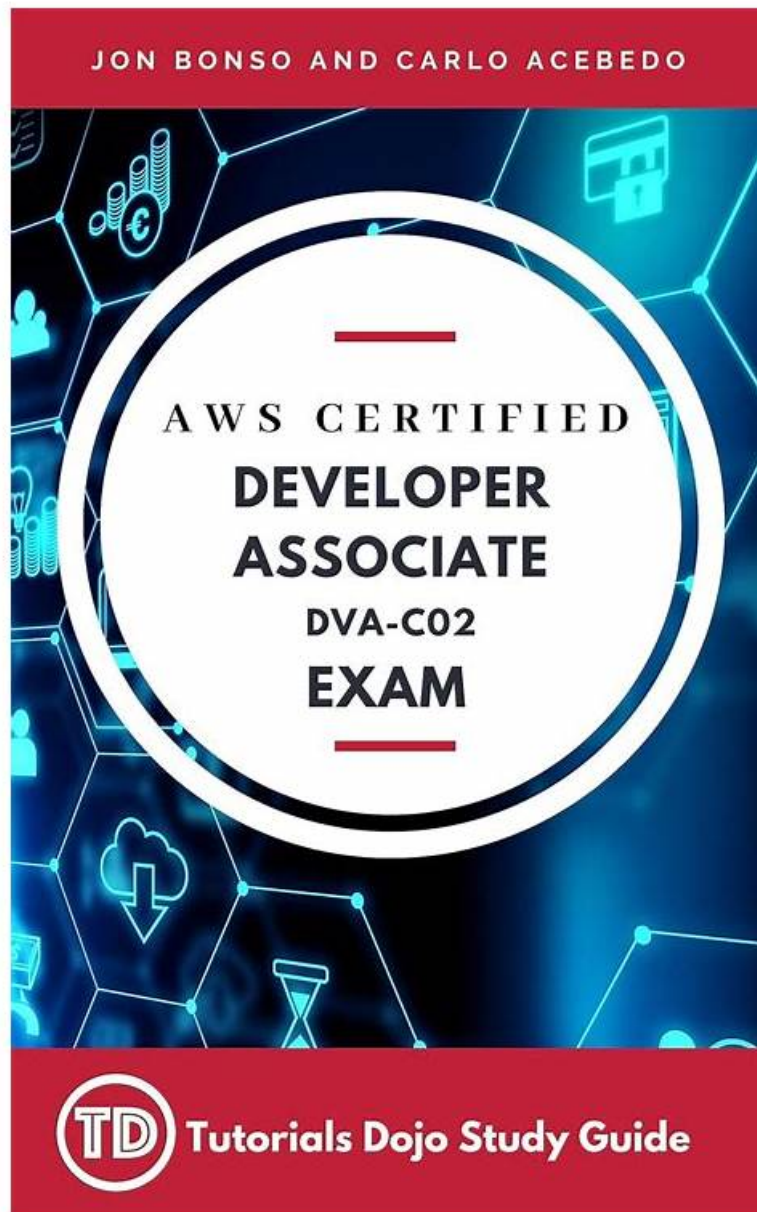


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Amazon AWS Certified Developer - Associate Sample Questions (Q558-Q563):

NEW QUESTION # 558

A developer needs to modify an application architecture to meet new functional requirements. Application data is stored in Amazon DynamoDB and processed for analysis in a nightly batch. The system analysts do not want to wait until the next day to view the processed data and have asked to have it available in near-real time.

Which application architecture pattern would enable the data to be processed as it is received?

- A. Fan-out driven
- **B. Event driven**
- C. Schedule driven
- D. Client-server driven

Answer: B

NEW QUESTION # 559

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 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.
- D. Configure Amazon EventBridge Scheduler schedules to invoke the Lambda functions in a specific order.

Answer: A

Explanation:

The requirement here is to ensure that Lambda functions are executed in a specific order. AWS Step Functions is a low-code workflow orchestration service that enables you to sequence AWS services, such as AWS Lambda, into workflows. It is purpose-built for situations like this, where different steps need to be executed in a strict sequence.

* AWS Step Functions: Step Functions allows developers to design workflows as state machines, where each state corresponds to a particular function. In this case, the developer can create a Step Functions state machine where each step (order processing, inventory management, etc.) is represented by a Lambda function.

* Operational Overhead: Step Functions have very low operational overhead because it natively handles retries, error handling, and function sequencing.

* Alternatives:

* Amazon SQS (Option A): While SQS can manage message ordering, it requires more manual handling of each step and the logic to sequentially invoke the Lambda functions.

* Amazon SNS (Option B): SNS is a pub/sub service and is not designed to handle sequences of Lambda executions.

* EventBridge (Option D): EventBridge Scheduler allows you to invoke Lambda functions based on scheduled times, but it doesn't directly support sequencing based on workflow logic.

Therefore, AWS Step Functions is the most appropriate solution due to its native orchestration capabilities and minimal operational

complexity.

AWS Step Functions documentation

NEW QUESTION # 560

A developer designed an application on an Amazon EC2 instance. The application makes API requests to objects in an Amazon S3 bucket. Which combination of steps will ensure that the application makes the API requests in the MOST secure manner? (Select TWO.)

- A. Add the IAM role to an instance profile. Attach the instance profile to the EC2 instance.
- B. Create an IAM role that has permissions to the S3 bucket. Assign the role to an IAM group.
- C. Store the credentials of the IAM user in the environment variables on the EC2 instance.
- D. Create an IAM user that has permissions to the S3 bucket. Add the user to an IAM group.
- E. Create an IAM role that has permissions to the S3 bucket.

Answer: A,E

Explanation:

IAM Roles for EC2: IAM roles are the recommended way to provide AWS credentials to applications running on EC2 instances.

Here's how this works:

You create an IAM role with the necessary permissions to access the target S3 bucket.

You create an instance profile and associate the IAM role with this profile.

When launching the EC2 instance, you attach this instance profile.

Temporary Security Credentials: When the application on the EC2 instance needs to access S3, it doesn't directly use access keys. Instead, the AWS SDK running on the instance retrieves temporary security credentials associated with the role. These are rotated automatically by AWS.

Reference:

IAM Roles for Amazon EC2: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_switch-role-ec2.html

Temporary Security Credentials: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp.html

NEW QUESTION # 561

A developer maintains a critical business application that uses Amazon DynamoDB as the primary data store. The DynamoDB table contains millions of documents and receives 30-60 requests each minute. The developer needs to perform processing in near-real time on the documents when they are added or updated in the DynamoDB table. How can the developer implement this feature with the LEAST amount of change to the existing application code?

- A. Update the application to send a PutEvents request to Amazon EventBridge. Create an EventBridge rule to invoke an AWS Lambda function to process the documents.
- B. Update the application to synchronously process the documents directly after the DynamoDB write.
- C. Enable a DynamoDB stream on the table. Invoke an AWS Lambda function to process the documents.
- D. Set up a cron job on an Amazon EC2 instance. Run a script every hour to query the table for changes and process the documents.

Answer: C

Explanation:

* DynamoDB Streams: Capture near real-time changes to DynamoDB tables, triggering downstream actions.

* Lambda for Processing: Lambda functions provide a serverless way to execute code in response to events like DynamoDB Stream updates.

* Minimal Code Changes: This solution requires the least modifications to the existing application.

References:

DynamoDB Streams: <https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Streams.html>

AWS Lambda: <https://aws.amazon.com/lambda/>

NEW QUESTION # 562

A retail company runs a sales analytics application that uses an AWS Lambda function to process transaction data that is stored in Amazon DocumentDB. The application aggregates daily sales data across 500 stores and uses the data to generate reports for senior managers.

Application users report that the application is taking longer to generate reports and that their requests sometimes time out. A developer investigates and notices that the application's average response time for report generation has increased from 3 seconds to over 25 seconds.

The developer needs to identify the application's performance bottlenecks.

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

- **A. Enable AWS X-Ray tracing for the Lambda function and DocumentDB cluster. Implement custom subsegments to track query execution to identify slow-performing queries.**
- B. Add logging statements within the Lambda function to output query execution times and database connection attempts. Store IDs in Amazon CloudWatch Logs. Use CloudWatch Logs Insights to analyze the logs.
- C. Add Amazon CloudWatch Logs error streaming. Create custom CloudWatch metrics based on the logs. Create a CloudWatch dashboard that shows Lambda metrics.
- D. Modify the Lambda function to use DocumentDB connection pooling. Implement async/await patterns for database operations.

Answer: A

Explanation:

The goal is to identify performance bottlenecks across a Lambda function that calls a database (DocumentDB). The most operationally efficient way to pinpoint where time is being spent-without building custom logging/metrics pipelines-is to use distributed tracing. AWS X-Ray provides end-to-end request traces, timing breakdowns, and service maps that help identify whether latency is dominated by Lambda initialization, downstream calls, or database queries.

By enabling X-Ray tracing on the Lambda function, the developer can capture traces for report-generation requests and examine segments that show duration spent inside the function and in downstream dependencies.

To specifically diagnose database time, the developer can add custom subsegments around DocumentDB operations (query execution, connection acquisition, cursor iteration). This produces precise timing data for each step, making it straightforward to identify slow queries, excessive connection setup time, or serialization overhead. Because X-Ray aggregates and visualizes traces, the developer can quickly compare "fast" and "slow" traces and isolate the bottleneck.

Option B focuses on errors and generic metrics dashboards; it's useful for monitoring, but it won't precisely attribute the extra 22+ seconds to a particular downstream call path. Option C proposes performance improvements (pooling/async), but the question asks to identify bottlenecks first, and it also requires code changes and validation without confirming the root cause. Option D requires adding detailed logging statements and then querying logs; this is more development effort and more ongoing log volume/cost than turning on X-Ray and using trace analysis, especially when the intent is bottleneck identification rather than permanent instrumentation.

Therefore, A is the best choice: enable AWS X-Ray for the Lambda function and trace DocumentDB interactions with custom subsegments to quickly and efficiently identify the specific source(s) of increased latency.

NEW QUESTION # 563

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