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Current DVA-C02 Exam Content & DVA-C02 Flexible Learning Mode

Itexamguide has assembled a brief yet concise study material that will aid you in acing the AWS Certified Developer - Associate (DVA-C02) exam on the first attempt. This prep material has been compiled under the expert guidance of 90,000 experienced Amazon professionals from around the globe. Itexamguide offers the complete package that includes all exam questions conforming to the syllabus for passing the AWS Certified Developer - Associate (DVA-C02) exam certificate in the first try.

Amazon AWS Certified Developer - Associate Sample Questions (Q197-Q202):

NEW QUESTION # 197

A developer is creating an AWS Lambda function. The Lambda function needs an external library to connect to a third-party solution. The external library is a collection of files with a total size of 100 MB. The developer needs to make the external library available to the Lambda execution environment and reduce the Lambda package space. Which solution will meet these requirements with the LEAST operational overhead?

- A. Load the external library to the Lambda function's /tmp directory during deployment of the Lambda package. Import the library from the /tmp directory.
- B. Create a Lambda layer to store the external library. Configure the Lambda function to use the layer.
- C. Create an Amazon Elastic File System (Amazon EFS) volume. Upload the external library to the EFS volume. Mount the

EFS volume in the Lambda function. Import the library by using the proper folder in the mount point.

- D. Create an Amazon S3 bucket Upload the external library into the S3 bucket. Mount the S3 bucket folder in the Lambda function Import the library by using the proper folder in the mount point.

Answer: B

Explanation:

* Lambda Layers: These are designed to package dependencies that you can share across functions.

* How to Use:

* Create a layer, upload your 100MB library as a zip.

* Attach the layer to your function.

* In your function code, import the library from the standard layer path.

References:

* Lambda Layers: <https://docs.aws.amazon.com/lambda/latest/dg/configuration-layers.html>

NEW QUESTION # 198

A company runs an application on AWS The application uses an AWS Lambda function that is configured with an Amazon Simple Queue Service (Amazon SQS) queue called high priority queue as the event source A developer is updating the Lambda function with another SQS queue called low priority queue as the event source The Lambda function must always read up to 10 simultaneous messages from the high priority queue before processing messages from low priority queue. The Lambda function must be limited to 100 simultaneous invocations.

Which solution will meet these requirements'?

- A. Set the event source mapping batch window to 10 for the high priority queue and to 90 for the low priority queue
- **B. Set the event source mapping maximum concurrency to 10 for the high priority queue and to 90 for the low priority queue**
- C. Set the delivery delay to 0 seconds for the high priority queue and to 10 seconds for the low priority queue
- D. Set the event source mapping batch size to 10 for the high priority queue and to 90 for the low priority queue

Answer: B

Explanation:

* Lambda Concurrency: The 'maximum concurrency' setting in event source mappings controls the maximum number of simultaneous invocations Lambda allows for that specific source.

* Prioritizing Queues: Setting a lower maximum concurrency for the 'high priority queue' ensures it's processed first while allowing more concurrent invocations from the 'low priority queue'.

* Batching: Batch size settings affect the number of messages Lambda retrieves from a queue per invocation, which is less relevant to the prioritization requirement.

NEW QUESTION # 199

A company runs an AWS CodeBuild project on medium-sized Amazon EC2 instances. The company wants to cost optimize the project and reduce the provisioning time.

- **A. Set up Amazon S3 caching for the CodeBuild project.**
- B. Configure the project to run on a CodeBuild on-demand fleet.
- C. Configure the project to run on a CodeBuild reserved capacity fleet.
- D. Select AWS Lambda as the compute mode for the CodeBuild project.

Answer: A

Explanation:

Comprehensive and Detailed Step-by-Step Explanation:

* Option D: Set up Amazon S3 Caching for CodeBuild:

* CodeBuild supports S3 caching to store intermediate build artifacts and dependencies. This reduces the time required to download dependencies during subsequent builds, effectively lowering costs and improving build performance.

* By using S3 caching, developers can optimize costs without changing the compute type or adding complexity.

* Why Other Options Are Incorrect:

* Option A: CodeBuild does not have a "reserved capacity fleet" option.

* Option B: AWS Lambda cannot be used as the compute mode for CodeBuild projects.

CodeBuild uses its own managed build environments.

* Option C: CodeBuild already operates on an on-demand basis, so this does not address the need for optimization or reduced provisioning time.

References:

* AWS CodeBuild Caching Documentation

NEW QUESTION # 200

A web application is using Amazon Kinesis Data Streams for clickstream data that may not be consumed for up to 12 hours. How can the developer implement encryption at rest for data within the Kinesis Data Streams?

- A. Use Amazon Kinesis Consumer Library.
- B. Enable SSL connections to Kinesis.
- C. Enable server-side encryption in Kinesis Data Streams.
- D. Encrypt the data once it is at rest with a Lambda function.

Answer: C

Explanation:

Amazon Kinesis Data Streams is designed for real-time data streaming and allows multiple consumers to process data concurrently and in real-time. It can handle millions of events and provides a scalable and cost-effective solution for handling high-throughput data streams.

NEW QUESTION # 201

A developer is investigating recent performance bottlenecks within a company's distributed web application that runs on various AWS services, including Amazon EC2 and Amazon DynamoDB.

How can the developer determine the length of time of the application's calls to the various downstream AWS services?

- A. Enable VPC Flow Logs and analyze them in Amazon OpenSearch Service.
- B. Implement AWS X-Ray with client handlers for the various downstream calls.
- C. Use Amazon CloudWatch Logs to analyze application logs for the various calls.
- D. Enable detailed monitoring for the EC2 instances in Amazon CloudWatch.

Answer: B

Explanation:

To measure how long an application spends calling downstream AWS services (for example, DynamoDB, S3, SNS, etc.) in a distributed system, the most effective AWS-native approach is AWS X-Ray with appropriate instrumentation. X-Ray provides distributed tracing by capturing end-to-end request paths and breaking each request into segments and subsegments with precise timing information. When the application is instrumented with the X-Ray SDK, client handlers/interceptors automatically create subsegments for calls to AWS services, recording latency, response status, and error/throttle indicators.

This directly satisfies the requirement: determine the length of time of calls to various downstream services.

In the X-Ray trace map and trace details, the developer can see per-service timing, identify which dependency is slow, and distinguish application processing time from downstream call time. This is specifically designed for performance bottleneck analysis and root cause investigation across distributed components.

Option A (VPC Flow Logs) captures network flow metadata (source/destination, ports, bytes, accept/reject), not application-level request timing to AWS service APIs, and it won't show the latency breakdown per downstream service call.

Option B can work only if the application is already logging detailed timing for each call, but this is manual, inconsistent across services, and does not give a unified distributed trace view. It is also higher effort than using standard tracing instrumentation.

Option C increases CloudWatch metric granularity for EC2 but does not show per-request downstream service call durations. Therefore, implementing AWS X-Ray with client handlers is the correct solution.

NEW QUESTION # 202

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