

# Pass Guaranteed DVA-C02 - High-quality AWS Certified Developer - Associate Certification Exam



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## Amazon DVA-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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</li><li>• CD services for efficient code deployment. The knowledge ensures effective application lifecycle management in production environments.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• 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.</li></ul>

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### Amazon AWS Certified Developer - Associate Sample Questions (Q327-Q332):

#### NEW QUESTION # 327

A company uses more than 100 AWS Lambda functions to handle application services. One Lambda function is critical and must always run successfully. The company notices that occasionally, the critical Lambda function does not initiate. The company investigates the issue and discovers instances of the Lambda TooManyRequestsException: Rate Exceeded error in Amazon CloudWatch logs. Upon further review of the logs, the company notices that some of the non-critical functions run properly while the critical function fails. A developer must resolve the errors and ensure that the critical Lambda function runs successfully. Which solution will meet these requirements with the LEAST operational overhead?

- **A. Configure reserved concurrency for the critical Lambda function. Set reserved concurrent executions to the appropriate level.**
- B. Configure CloudWatch alarms for TooManyRequestsException errors. Add the critical Lambda function as an alarm state change action to invoke the critical function again after a failure.
- C. Configure provisioned concurrency for the critical Lambda function. Set provisioned concurrent executions to the appropriate level.
- D. Configure CloudWatch alarms for TooManyRequestsException errors. Add Amazon EventBridge as an action for the alarm state change. Use EventBridge to invoke the critical function again after a failure.

**Answer: A**

Explanation:

Reserved concurrency guarantees a specific number of concurrent executions for a critical Lambda function. This ensures that the critical function always has sufficient resources to execute, even if other functions are consuming concurrency.

Ensures Function Availability: Reserved concurrency isolates the critical Lambda function from other functions.

Low Overhead: Configuring reserved concurrency is straightforward and requires minimal setup.

#### NEW QUESTION # 328

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 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.
- **B. 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.**
- C. 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.
- D. 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.

**Answer: B**

Explanation:

The resolution is to make the Lambda function idempotent.

<https://repost.aws/knowledge-center/lambda-function-idempotent>

<https://aws.amazon.com/builders-library/making-retries-safe-with-idempotent-APIs/>

### NEW QUESTION # 329

A company has an Amazon S3 bucket containing premier content that it intends to make available to only paid subscribers of its website. The S3 bucket currently has default permissions of all objects being private to prevent inadvertent exposure of the premier content to non-paying website visitors.

How can the company limit the ability to download a premier content file in the S3 bucket to paid subscribers only?

- A. Add a bucket policy that requires multi-factor authentication for requests to access the S3 bucket objects.
- B. Enable server-side encryption on the S3 bucket for data protection against the non-paying website visitors.
- **C. Generate a pre-signed object URL for the premier content file when a paid subscriber requests a download.**
- D. Apply a bucket policy that allows anonymous users to download the content from the S3 bucket.

**Answer: C**

Explanation:

By generating a pre-signed object URL for the main content file when a paid subscriber requests a download, the company can control who can download the file. The pre-signed object URL will be valid for a limited period of time and can only be used by the paid subscriber who requested the download.

### NEW QUESTION # 330

A developer is creating a service that uses an Amazon S3 bucket for image uploads. The service will use an AWS Lambda function to create a thumbnail of each image. Each time an image is uploaded the service needs to send an email notification and create the thumbnail. The developer needs to configure the image processing and email notifications setup.

Which solution will meet these requirements?

- **A. Create an Amazon Simple Notification Service (Amazon SNS) topic. Configure S3 event notifications with a destination of the SNS topic. Subscribe the Lambda function to the SNS topic. Create an email notification subscription to the SNS topic.**
- B. Create an Amazon Simple Queue Service (Amazon SQS) queue. Send S3 event notifications to Amazon EventBridge. Create an EventBridge rule that runs the Lambda function when images are uploaded to the S3 bucket. Create an EventBridge rule that sends notifications to the SQS queue. Create an email notification subscription to the SQS queue.
- C. Create an Amazon Simple Notification Service (Amazon SNS) topic. Configure S3 event notifications with a destination of the SNS topic. Subscribe the Lambda function to the SNS topic. Create an Amazon Simple Queue Service (Amazon SQS) queue. Subscribe the SQS queue to the SNS topic. Create an email notification subscription to the SQS queue.
- D. Create an Amazon Simple Queue Service (Amazon SQS) queue. Configure S3 event notifications with a destination of the SQS queue. Subscribe the Lambda function to the SQS queue. Create an email notification subscription to the SQS queue.

**Answer: A**

Explanation:

\* SNS as a Fan-out Mechanism: SNS is perfect for triggering multiple actions from a single event (here, the image upload).

\* Workflow:

\* SNS Topic: Create an SNS topic that will be the central notification point.

\* S3 Event Notification: Configure the S3 bucket to send 'Object Created' event notifications to the SNS topic.

\* Lambda Subscription: Subscribe your thumbnail-creating Lambda function to the SNS topic.

\* Email Subscription: Subscribe an email address to the SNS topic to trigger notifications.

References:

\* S3 Event Notifications: <https://docs.aws.amazon.com/AmazonS3/latest/userguide/EventNotifications.html>

html

\* SNS Subscriptions: <https://docs.aws.amazon.com/sns/latest/dg/SNSMobilePush.html>

### NEW QUESTION # 331

A banking company is building an application for users to create accounts, view balances, and review recent transactions. The company integrated an Amazon API Gateway REST API with AWS Lambda functions. The company wants to deploy a new version of a Lambda function that gives customers the ability to view their balances. The new version of the function displays customer transaction insights. The company wants to test the new version with a small group of users before deciding whether to make the feature available for all users. Which solution will meet these requirements with the LEAST disruption to users?

- A. Deploy the new version of the function to a new stage in the REST API. Route traffic to the new stage. If the new version fails, route traffic to the original stage.
- B. Redeploy the REST API stage to use the new version of the function. If issues are detected, update the REST API to

point to the previous version of the function.

- C. Create a new REST API stage for the new version of the function. Create a weighted alias record set in Amazon Route 53 to distribute traffic between the original stage and the new stage.
- **D. Create a canary deployment for the REST API. Gradually increase traffic to the new version of the function. Revert traffic to the old version if issues are detected.**

**Answer: D**

Explanation:

API Gateway's canary deployments allow gradual traffic shifting to a new version of a function, minimizing disruption while testing. Gradual Rollout: Reduces risk by incrementally increasing traffic.

Rollback Support: Canary deployments make it easy to revert to the previous version.

## NEW QUESTION # 332

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