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AWS Certified Developer - Associate

Amazon Web Services DVA-C02

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QUESTION NO: 1

A company is using an AWS Lambda function to process records from an Amazon Kinesis data stream. The company recently observed slow processing of the records. A developer notices that the iterator age metric for the function is increasing and that the Lambda run duration is constantly above normal.

Which actions should the developer take to increase the processing speed? (Choose two.)

- A. Increase the number of shards of the Kinesis data stream.
- B. Decrease the timeout of the Lambda function.
- C. Increase the memory that is allocated to the Lambda function.
- D. Decrease the number of shards of the Kinesis data stream.
- E. Increase the timeout of the Lambda function.

QUESTION NO: 2

A developer is creating a mobile app that calls a backend service by using an Amazon API Gateway REST API. For integration testing during the development phase, the developer wants to simulate different backend responses without invoking the backend service.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an AWS Lambda function. Use API Gateway proxy integration to return constant HTTP responses.
- B. Create an Amazon EC2 instance that serves the backend REST API by using an AWS CloudFormation template.
- C. Customize the API Gateway stage to select a response type based on the request.
- D. Use a request mapping template to select the mock integration response.

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Amazon AWS Certified Developer - Associate Sample Questions (Q292-Q297):

NEW QUESTION # 292

A company is adopting serverless computing for some of its new services. A development team needs to create a serverless infrastructure by using AWS Serverless Application Model (AWS SAM). All infrastructure must be deployed by using AWS CloudFormation templates.

What should the development team do to meet these requirements?

- A. Add a Resources section to the CloudFormation templates that contains `AWS::Lambda::Function` resources.
- B. Add a Transform section to the CloudFormation templates. Use the AWS SAM syntax to define the resources.
- **C. Add a Parameters section to the CloudFormation templates that specifies the relevant AWS SAM Globals section.**
- D. Add a Mappings section to the CloudFormation templates that contains `AWS::Serverless::Function` and `AWS::Serverless::API`.

Answer: C

NEW QUESTION # 293

A company needs to distribute firmware updates to its customers around the world.

Which service will allow easy and secure control of the access to the downloads at the lowest cost?

- **A. Use Amazon CloudFront with signed URLs for Amazon S3.**
- B. Use Amazon CloudFront with `AWS Lambda@Edge`.
- C. Use Amazon API Gateway and AWS Lambda to control access to an S3 bucket.
- D. Create a dedicated Amazon CloudFront Distribution for each customer.

Answer: A

Explanation:

This solution allows easy and secure control of access to the downloads at the lowest cost because it uses a content delivery network (CDN) that can cache and distribute firmware updates to customers around the world, and uses a mechanism that can restrict access to specific files or versions. Amazon CloudFront is a CDN that can improve performance, availability, and security of web applications by delivering content from edge locations closer to customers. Amazon S3 is a storage service that can store firmware updates in buckets and objects. Signed URLs are URLs that include additional information, such as an expiration date and time, that give users temporary access to specific objects in S3 buckets. The developer can use CloudFront to serve firmware updates from S3 buckets and use signed URLs to control who can download them and for how long.

Creating a dedicated CloudFront distribution for each customer will incur unnecessary costs and complexity.

Using Amazon CloudFront with `AWS Lambda@Edge` will require additional programming overhead to implement custom logic at the edge locations. Using Amazon API Gateway and AWS Lambda to control access to an S3 bucket will also require additional programming overhead and may not provide optimal performance or availability.

NEW QUESTION # 294

A company has a web application that is hosted on AWS. The application is behind an Amazon CloudFront distribution. A developer needs a dashboard to monitor error rates and anomalies of the CloudFront distribution as frequently as possible.

Which combination of steps should the developer take to meet these requirements? (Choose two.)

- A. Stream the CloudFront distribution logs to Amazon Kinesis Data Firehose.
- B. Stream the CloudFront distribution logs to an Amazon S3 bucket. Detect anomalies and error rates by using Amazon Athena.
- **C. Set up Amazon Kinesis Data Streams to send the logs to Amazon OpenSearch Service by using an AWS Lambda function. Make a dashboard in OpenSearch Dashboards.**
- D. Set up Amazon Kinesis Data Firehose to send the logs to AWS CloudTrail. Create CloudTrail metrics, alarms, and dashboards.
- **E. Enable real-time logs on the CloudFront distribution. Create a data stream in Amazon Kinesis Data Streams.**

Answer: C,E

NEW QUESTION # 295

An online sales company is developing a serverless application that runs on AWS. The application uses an AWS Lambda function that calculates order success rates and stores the data in an Amazon DynamoDB table. A developer wants an efficient way to invoke the Lambda function every 15 minutes.

Which solution will meet this requirement with the LEAST development effort?

- A. Create an AWS Step Functions state machine. Configure the state machine to invoke the Lambda function execution role at a specified interval by using a Wait state. Set the interval to 15 minutes.
- **B. Create an Amazon EventBridge rule that has a rate expression that will run the rule every 15 minutes. Add the Lambda function as the target of the EventBridge rule.**
- C. Provision a small Amazon EC2 instance. Set up a cron job that invokes the Lambda function every 15 minutes.
- D. Create an AWS Systems Manager document that has a script that will invoke the Lambda function on Amazon EC2. Use a Systems Manager Run Command task to run the shell script every 15 minutes.

Answer: B

Explanation:

The best solution for this requirement is option

A) Creating an Amazon EventBridge rule that has a rate expression that will run the rule every 15 minutes and adding the Lambda function as the target of the EventBridge rule is the most efficient way to invoke the Lambda function periodically. This solution does not require any additional resources or development effort, and it leverages the built-in scheduling capabilities of EventBridge.

NEW QUESTION # 296

An ecommerce company is using an AWS Lambda function behind Amazon API Gateway as its application tier. To process orders during checkout, the application calls a POST API from the frontend. The POST API invokes the Lambda function asynchronously. In rare situations, the application has not processed orders. The Lambda application logs show no errors or failures.

What should a developer do to solve this problem?

- A. Inspect the Lambda logs in Amazon CloudWatch for possible errors. Fix the errors.
- B. Make sure that caching is disabled for the POST API in API Gateway.
- C. Inspect the frontend logs for API failures. Call the POST API manually by using the requests from the log file.
- **D. Create and inspect the Lambda dead-letter queue. Troubleshoot the failed functions. Reprocess the events.**

Answer: D

Explanation:

<https://docs.aws.amazon.com/lambda/latest/dg/invoke-retries.html>

Asynchronous invocation - Lambda retries function errors twice. If the function doesn't have enough capacity to handle all incoming requests, events might wait in the queue for hours or days to be sent to the function. You can configure a dead-letter queue on the function to capture events that weren't successfully processed.

NEW QUESTION # 297

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