

Valid DVA-C02 Exam Duration, Regualer DVA-C02 Update

DVA-C01 <small>Valid until Feb 27, 2022</small>		DVA-C02 <small>NEW</small> <small>Available on February 28, 2023</small>	
DOMAIN	% of Examination	DOMAIN	% of Examination
Development with AWS Services	30%	Development with AWS Services	32%
Security	26%	Security	26%
Deployment	22%	Deployment	24%
Refactoring	10%	REMOVED	
Monitoring and Troubleshooting	12%	Troubleshooting and Optimization	18%

- There is no BETA exam for the DVA-C02 exam version

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Amazon AWS Certified Developer - Associate Sample Questions (Q430-Q435):

NEW QUESTION # 430

A developer is creating an application that will give users the ability to store photos from their cellphones in the cloud. The application needs to support tens of thousands of users. The application uses an Amazon API Gateway REST API that is integrated with AWS Lambda functions to process the photos. The application stores details about the photos in Amazon DynamoDB. Users need to create an account to access the application. In the application, users must be able to upload photos and retrieve previously uploaded photos. The photos will range in size from 300 KB to 5 MB. Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Amazon Cognito user pools to manage user accounts. Create an Amazon Cognito user pool authorizer in API Gateway to control access to the API. Use the Lambda function to store the photos and details in the DynamoDB table. Retrieve previously uploaded photos directly from the DynamoDB table.
- B. Create an IAM user for each user of the application during the sign-up process. Use IAM authentication to access the API Gateway API. Use the Lambda function to store the photos in Amazon S3. Store the object's S3 key as part of the photo details in the DynamoDB table. Retrieve previously uploaded photos by querying DynamoDB for the S3 key.
- **C. Use Amazon Cognito user pools to manage user accounts. Create an Amazon Cognito user pool authorizer in API Gateway to control access to the API. Use the Lambda function to store the photos in Amazon S3. Store the object's S3 key as part of the photo details in the DynamoDB table. Retrieve previously uploaded photos by querying DynamoDB for the S3 key.**
- D. Create a users table in DynamoDB. Use the table to manage user accounts. Create a Lambda authorizer that validates user credentials against the users table. Integrate the Lambda authorizer with API Gateway to control access to the API. Use the Lambda function to store the photos in Amazon S3. Store the object's S3 key as part of the photo details in the DynamoDB table. Retrieve previously uploaded photos by querying DynamoDB for the S3 key.

Answer: C

Explanation:

Explanation

Amazon Cognito user pools is a service that provides a secure user directory that scales to hundreds of millions of users. The developer can use Amazon Cognito user pools to manage user accounts and create an Amazon Cognito user pool authorizer in API Gateway to control access to the API. The developer can use the Lambda function to store the photos in Amazon S3, which is a highly scalable, durable, and secure object storage service. The developer can store the object's S3 key as part of the photo details in the DynamoDB table, which is a fast and flexible NoSQL database service. The developer can retrieve previously uploaded photos by querying DynamoDB for the S3 key and fetching the photos from S3. This solution will meet the requirements with the least operational overhead.

References:

[Amazon Cognito User Pools]

[Use Amazon Cognito User Pools - Amazon API Gateway]

[Amazon Simple Storage Service (S3)]

[Amazon DynamoDB]

NEW QUESTION # 431

A developer is automating a new application deployment with AWS SAM. The new application has one AWS Lambda function and one Amazon S3 bucket. The Lambda function must access the S3 bucket to only read objects. How should the developer configure AWS SAM to grant the necessary read permission to the S3 bucket?

- A. Create an Amazon SQS topic for only S3 object reads. Reference the topic in the template.
- B. Add a custom S3 bucket policy to the Lambda function.
- C. Reference a second Lambda authorizer function.
- **D. Add the S3ReadPolicy template to the Lambda function's execution role.**

Answer: D

Explanation:

In AWS SAM, adding the S3ReadPolicy managed policy to the Lambda function's execution role grants the function read-only access to specified S3 buckets. This provides the necessary permissions to read objects securely and with minimal configuration.

NEW QUESTION # 432

A social media company has an application that adds animation to images that users upload. The animation process currently takes an average of 3 seconds to add animation to each image.

Users can upload up to 30 images at the same time.

A developer needs to optimize the application to process up to 30 images within 5 seconds total.

Which solution will meet these requirements?

- A. Create an AWS Step Functions state machine that has a Standard workflow type. Create a Step Functions activity to process each image. Configure the state machine to process multiple image uploads by running the processing activity on each image in a Parallel state.
- **B. Create an AWS Step Functions state machine that has an Express workflow type. Create an AWS Lambda function to process each image. Configure the state machine to handle multiple image uploads by running the Lambda function for each image simultaneously in a Map state.**
- C. Create an AWS Step Functions state machine that has an Express workflow type. Create a Step Functions activity to process each image. Configure the state machine to handle multiple image uploads by running the activity for each image simultaneously in a Map state.
- D. Create an AWS Step Functions state machine that has a Standard workflow type. Create an AWS Lambda function to process each image. Configure the state machine to handle multiple image uploads by running the Lambda function for each image simultaneously in a Parallel state.

Answer: B

Explanation:

An Express Step Functions workflow is optimized for high-throughput, short-duration tasks. Using a Map state with a Lambda function to process each image in parallel enables concurrent execution, allowing up to 30 images to be processed within 5 seconds. This solution is ideal for the performance requirements and provides scalability with minimal overhead.

NEW QUESTION # 433

A developer must digitally sign a document with AWS KMS so that another application that does not have AWS KMS access can verify the authenticity of the document. Which solution will meet this requirement?

- A. Use AWS KMS with a symmetric key to generate an envelope key. Sign the document with AWS KMS. Make the envelope key available for verification.
- B. Use AWS KMS with a symmetric key. Sign the document with AWS KMS. Make the key available for verification.
- C. Use AWS KMS with asymmetric keys. Sign the document by using the public key. Make the private key available for verification.
- **D. Use AWS KMS with asymmetric keys. Sign the document by using the private key. Make the public key available for verification.**

Answer: D

Explanation:

AWS KMS supports asymmetric key pairs for use cases like digital signing and verification. The private key is used to sign the document within AWS KMS, and the public key can be shared externally with systems that do not have access to AWS KMS for verification. This satisfies the requirement of external verification without granting AWS KMS access.

NEW QUESTION # 434

A company is using Amazon OpenSearch Service to implement an audit monitoring system. A developer needs to create an AWS CloudFormation custom resource that is associated with an AWS Lambda function to configure the OpenSearch Service domain. The Lambda function must access the OpenSearch Service domain by using Open Search Service internal master user credentials. What is the MOST secure way to pass these credentials to the Lambda function?

- A. Use a CloudFormation parameter to pass the master user credentials at deployment to the OpenSearch Service domain's MasterUserOptions and the Lambda function's environment variable. We Encrypt the parameters value by using the AWS Key Management Service (AWS KMS) encrypt command.
- B. Use a CloudFormation parameter to pass the master user credentials at deployment to the OpenSearch Service domain's MasterUserOptions and to create a parameter. In AWS Systems Manager Parameter Store. Set the No Echo attribute to true. Create an IAM role that has the ssm:GetParameter permission. Assign the role to the Lambda function. Store the parameter name as the Lambda function's environment variable. Resolve the parameter's value at runtime.
- C. Use a CloudFormation parameter to pass the master user credentials at deployment to the OpenSearch Service domain's MasterUserOptions and the Lambda function's environment variable. Set the No Echo attribute to true.

