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Exam overview

Level: Associate

Length: 130 minutes to complete the exam

Cost: 150 USD

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Format: 65 questions, either multiple choice or multiple response

Delivery method: Pearson VUE and PSI; testing center or online proctored exam

<https://aws.amazon.com/certification/certified-developer-associate/>

QUESTION NO: 1

A Developer created a dashboard for an application using Amazon API Gateway, Amazon S3, AWS Lambda, and Amazon RDS. The Developer needs an authentication mechanism allowing a user to sign in and view the dashboard. It must be accessible from mobile applications, desktops, and tablets, and must remember user preferences across platforms.

Which AWS service should the Developer use to support this authentication scenario?

- A.**
AWS KMS
- B.**
Amazon Cognito
- C.**
AWS Directory Service
- D.**
Amazon IAM

Answer: B

Explanation:

QUESTION NO: 2

A Developer has created an S3 bucket `s3://mycoolapp` and has enabled server access logging that points to the folder `s3://mycoolapp/logs`. The Developer moved 100 KB of Cascading Style Sheets (CSS) documents to the folder `s3://mycoolapp/css`, and then stopped work. When the developer came back a few days later, the bucket was 50 GB.

What is the MOST likely cause of this situation?

- A.**
The CSS files were not compressed and S3 versioning was enabled.
- B.**
S3 replication was enabled on the bucket.
- C.**
Logging into the same bucket caused exponential log growth.

D.

An S3 lifecycle policy has moved the entire CSS file to S3 Infrequent Access.

Answer: B

Explanation:

QUESTION NO: 3

A Developer is creating an Auto Scaling group whose instances need to publish a custom metric to Amazon CloudWatch.

Which method would be the MOST secure way to authenticate a CloudWatch PUT request?

A.

Create an IAM user with PutMetricData permission and put the user credentials in a private repository; have applications pull the credentials as needed.

B.

Create an IAM user with PutMetricData permission, and modify the Auto Scaling launch configuration to inject the user credentials into the instance user data.

C.

Modify the CloudWatch metric policies to allow the PutMetricData permission to instances from the Auto Scaling group.

D.

Create an IAM role with PutMetricData permission and modify the Auto Scaling launching configuration to launch instances using that role.

Answer: D

Explanation:

QUESTION NO: 4

A Developer is working on an application that tracks hundreds of millions of product reviews in an Amazon DynamoDB table. The records include the data elements shown in the table:

Name	Type	Description
reviewID	Number	16 digit UUID
starRating	Number	Integer 1-5 of user rating
comment	String	User comment string
productID	Number	Product ID being reviewed

Which field, when used as the partition key, would result in the MOST consistent performance using DynamoDB?

- A.
starRating
- B.
reviewID
- C.
comment
- D.
productID

Answer: B

Explanation:

QUESTION NO: 5

A Developer has written a serverless application using multiple AWS services. The business logic is written as a Lambda function which has dependencies on third-party libraries. The Lambda function endpoints will be exposed using Amazon API Gateway. The Lambda function will write the information to Amazon DynamoDB. The Developer is ready to deploy the application but must have the ability to rollback. How can this deployment be automated, based on these requirements?

- A.
Deploy using Amazon Lambda API operations to create the Lambda function by providing a deployment package.
- B.
Use an AWS CloudFormation template and use CloudFormation syntax to define the Lambda function resource in the template.

C.

Use syntax conforming to the Serverless Application Model in the AWS CloudFormation template to define the Lambda function resource.

D.

Create a bash script which uses AWS CLI to package and deploy the application.

Answer: A

Reference: <https://docs.aws.amazon.com/lambda/latest/dg/automating-deployment.html>

QUESTION NO: 6

What are the steps to using the AWS CLI to launch a templated serverless application?

A.

Use AWS CloudFormation get-template then CloudFormation execute-change-set.

B.

Use AWS CloudFormation validate-template then CloudFormation create-change-set.

C.

Use AWS CloudFormation package then CloudFormation deploy.

D.

Use AWS CloudFormation create-stack then CloudFormation update-stack.

Answer: C

Reference: <https://github.com/aws-labs/aws-sam-cli>

QUESTION NO: 7

A Developer is creating a web application that requires authentication, but also needs to support guest access to provide users limited access without having to authenticate. What service can provide support for the application to allow guest access?

A.

IAM temporary credentials using AWS STS.

B.

Amazon Directory Service

C.

Amazon Cognito with unauthenticated access enabled

D.

IAM with SAML integration

Answer: C

Reference: <https://aws.amazon.com/cognito/faqs/>

QUESTION NO: 8

An application takes 40 seconds to process instructions received in an Amazon SQS message.

Assuming the SQS queue is configured with the default VisibilityTimeout value, what is the BEST way, upon receiving a message, to ensure that no other instances can retrieve a message that has already been processed or is currently being processed?

A.

Use the ChangeMessageVisibility API to increase the VisibilityTimeout, then use the DeleteMessage API to delete the message.

B.

Use the DeleteMessage API call to delete the message from the queue, then call DeleteQueue API to remove the queue.

C.

Use the ChangeMessageVisibility API to decrease the timeout value, then use the DeleteMessage API to delete the message.

D.

Use the DeleteMessageVisibility API to cancel the VisibilityTimeout, then use the DeleteMessage API to delete the message.

Answer: A

Explanation:

QUESTION NO: 9

A Developer has implemented a Lambda function that needs to add new customers to an RDS database that is expected to run hundreds of times per hour. The Lambda function is configured to use 512MB of RAM and is based on the following pseudo code:

```
def lambda_handler(event, context):  
  
    db = database.connect()  
  
    db.statement('INSERT INTO Customers (CustomerName) VALUES  
    (context.name)')  
  
    db.close()
```

After testing the Lambda function, the Developer notices that the Lambda execution time is much longer than expected. What should the Developer do to improve performance?

A.

Increase the amount of RAM allocated to the Lambda function, which will increase the number of threads the Lambda can use.

B.

Increase the size of the RDS database to allow for an increased number of database connections each hour.

C.

Move the database connection and close statement out of the handler. Place the connection in the global space.

D.

Replace RDS with Amazon DynamoDB to implement control over the number of writes per second.

Answer: C

Explanation:

QUESTION NO: 10