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Amazon DVA-C02 certification exam is an excellent way for developers to validate their skills in AWS development. DVA-C02 exam covers a wide range of topics and requires a deep understanding of AWS services and best practices. With the right preparation and dedication, earning the DVA-C02 Certification can lead to many exciting career opportunities in AWS development.

## Amazon AWS Certified Developer - Associate Sample Questions (Q78-Q83):

### NEW QUESTION # 78

A company has an online web application that includes a product catalog. The catalog is stored in an Amazon S3 bucket that is named DOC-EXAMPLE-BUCKET. The application must be able to list the objects in the S3 bucket and must be able to download objects through an IAM policy.

Which policy allows MINIMUM access to meet these requirements?

□

- A. Option A
- B. Option D
- C. Option B
- D. Option C

**Answer: A**

#### NEW QUESTION # 79

A developer has created an AWS Lambda function that is written in Python. The Lambda function reads data from objects in Amazon S3 and writes data to an Amazon DynamoDB table. The function is successfully invoked from an S3 event notification when an object is created. However, the function fails when it attempts to write to the DynamoDB table. What is the MOST likely cause of this issue?

- A. The Lambda function's concurrency limit has been exceeded.
- **B. The Lambda function does not have IAM permissions to write to DynamoDB.**
- C. The DynamoDB table is not running in the same Availability Zone as the Lambda function.
- D. DynamoDB table requires a global secondary index (GSI) to support writes.

**Answer: B**

Explanation:

[https://docs.aws.amazon.com/IAM/latest/UserGuide/reference\\_policies\\_examples\\_lambda-access-dynamodb.html](https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_lambda-access-dynamodb.html)

#### NEW QUESTION # 80

A company is developing a weather forecast application that displays forecasts for cities within a single country. Weather data is stored in an Amazon DynamoDB table named Forecasts with attributes CityId, Temperature, and ForecastDate. The application is read heavy. Most read requests target the current day's forecast for a small number of very large cities. The company must design a partition key strategy that ensures the most even distribution of read traffic. Which solution will meet these requirements?

- A. Use ForecastDate as the partition key and CityId as the sort key.
- B. Use ForecastDate with a calculated suffix as the partition key and CityId as the sort key.
- **C. Use CityId with a calculated suffix as the partition key and ForecastDate as the sort key.**
- D. Use a numeric index as the partition key and ForecastDate as the sort key.

**Answer: C**

Explanation:

Amazon DynamoDB performance depends heavily on partition key design. AWS documentation warns against access patterns that repeatedly target the same partition key, as this causes hot partitions, even in on-demand mode.

In this scenario, most reads focus on the current day's forecast for a small number of large cities. Using CityId alone as the partition key would cause hot partitions for those cities. Adding a calculated suffix (such as a hash or modulo value) to CityId spreads read requests across multiple partitions while still allowing efficient querying.

Using ForecastDate as the partition key (Options C and D) would concentrate traffic on a single value (today's date), creating severe hot partition issues. Option B lacks a meaningful access pattern and complicates queries.

AWS documentation explicitly recommends key-suffix techniques for workloads with skewed access patterns to distribute traffic evenly. Therefore, using CityId with a calculated suffix as the partition key is the correct design.

#### NEW QUESTION # 81

A developer is storing JSON files in an Amazon S3 bucket. The developer wants to securely share an object with a specific group of people.

How can the developer securely provide temporary access to the objects that are stored in the S3 bucket?

- A. Set object retention on the files. Use the AWS SDK to restore the object before subsequent requests. Provide the bucket's S3 URL.
- **B. Use the AWS SDK to generate a presigned URL. Provide the presigned URL.**
- C. Configure static web hosting on the S3 bucket. Provide the bucket's web URL.
- D. Set a bucket policy that restricts access after a period of time. Provide the bucket's S3 URL.

**Answer: B**

Explanation:

To securely grant temporary access to a specific S3 object, the best option is to use an Amazon S3 presigned URL. A presigned

URL is created by an IAM principal (user or role) that already has permission to access the object. The URL includes a signature and an expiration time, allowing anyone who has the URL to perform the specified operation (typically GET to download, or PUT to upload) until the URL expires. This meets the requirement for temporary access without changing the bucket to be publicly accessible.

Presigned URLs are especially useful when the developer needs to share access with people who do not have AWS credentials or are not part of the same AWS account. The developer can set an expiration that matches the business need (minutes to hours, etc.). After expiration, the URL no longer works, which reduces security exposure compared with long-lived access keys or permanently permissive bucket policies.

Option C (bucket policy with time restriction) can enforce time-based access, but it is not a practical way to securely share with a "specific group of people" unless those people authenticate with identifiable principals (IAM roles/users, federated identities) and you scope the policy to those principals. Simply providing the bucket S3 URL would not grant access unless the recipients also have valid permissions. Option D (static website hosting) is generally for public web content and does not inherently provide secure, temporary, per-object access control. Option A is unrelated to access sharing; object retention and restore operations are for retention/compliance and archival retrieval, not temporary permission grants.

Therefore, generating and sharing a presigned URL (B) is the standard, secure mechanism for time-limited access to S3 objects.

### NEW QUESTION # 82

A company hosts its application on AWS. The application runs on an Amazon Elastic Container Service (Amazon ECS) cluster that uses AWS Fargate. The cluster runs behind an Application Load Balancer. The application stores data in an Amazon Aurora database. A developer encrypts and manages database credentials inside the application. The company wants to use a more secure credential storage method and implement periodic credential rotation.

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

- A. Migrate the secret credentials to Amazon RDS parameter groups. Encrypt the parameter by using an AWS Key Management Service (AWS KMS) key. Turn on secret rotation. Use IAM policies and roles to grant AWS KMS permissions to access Amazon RDS.
- B. Migrate the credentials to AWS Systems Manager Parameter Store. Encrypt the parameter by using an AWS Key Management Service (AWS KMS) key. Turn on secret rotation. Use IAM policies and roles to grant Amazon ECS Fargate permissions to access to AWS Secrets Manager.
- C. Migrate the credentials to ECS Fargate environment variables. Encrypt the credentials by using an AWS Key Management Service (AWS KMS) key. Turn on secret rotation. Use IAM policies and roles to grant Amazon ECS Fargate permissions to access to AWS Secrets Manager.
- **D. Migrate the credentials to AWS Secrets Manager. Encrypt the credentials by using an AWS Key Management Service (AWS KMS) key. Turn on secret rotation. Use IAM policies and roles to grant Amazon ECS Fargate permissions to access to AWS Secrets Manager by using keys.**

**Answer: D**

Explanation:

Explanation

AWS Secrets Manager is a service that helps you store, distribute, and rotate secrets securely. You can use Secrets Manager to migrate your credentials from your application code to a secure and encrypted storage.

You can also enable automatic rotation of your secrets by using AWS Lambda functions or custom logic. You can use IAM policies and roles to grant your Amazon ECS Fargate tasks permissions to access your secrets from Secrets Manager. This solution minimizes the operational overhead of managing your credentials and enhances the security of your application. References

\* AWS Secrets Manager: Store, Distribute, and Rotate Credentials Securely | AWS News Blog

\* Why You Should Audit and Rotate Your AWS Credentials Periodically - Cloud Academy

\* Top 5 AWS root account best practices - TheServerSide

### NEW QUESTION # 83

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