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Amazon DVA-C02 (AWS Certified Developer - Associate) Certification Exam is an important certification for professionals who want to demonstrate their expertise in developing and maintaining applications on the Amazon Web Services (AWS) platform. AWS Certified Developer - Associate certification validates that the candidate has the skills and knowledge required to design, develop, and deploy cloud-based applications using AWS services.

Amazon AWS Certified Developer - Associate Sample Questions (Q350-Q355):

NEW QUESTION # 350

A company has many microservices that are comprised of AWS Lambda functions. Multiple teams within the company split ownership of the microservices.

An application reads configuration values from environment variables that are contained in the Lambda functions. During a security audit, the company discovers that some of the environment variables contain sensitive information.

The company's security policy requires each team to have full control over the rotation of AWS KMS keys that the team uses for its respective microservices.

- **A. Create customer managed keys for all Lambda functions. Use the new customer managed keys to encrypt the environment variables. Add kms:Decrypt permission to the Lambda function execution roles.**

- B. Create customer managed keys for all Lambda functions. Use the new customer managed keys to encrypt the environment variables. Add kms:CreateGrant permission and kms:Encrypt permission to the Lambda function execution roles.
- C. Create AWS managed keys for all Lambda functions. Use the new AWS managed keys to encrypt the environment variables. Add kms:Decrypt permissions to the Lambda function execution roles.
- D. Create AWS managed keys for all Lambda functions. Use the new AWS managed keys to encrypt the environment variables. Add kms:CreateGrant permission and kms:Encrypt permission to the Lambda function execution roles.

Answer: A

Explanation:

Comprehensive and Detailed Step-by-Step Explanation:

* Customer Managed Keys (CMK) for Granular Control (Option B):

* Customer-managed KMS keys are required to meet the security policy requirement of team-specific control over KMS key rotation. Each team can manage the lifecycle of its own key.

* The kms:Decrypt permission allows the Lambda function execution roles to decrypt the environment variables during runtime.

* This solution adheres to the principle of least privilege and satisfies the need for team-specific key control.

* Why Other Options Are Incorrect:

* Option A: AWS-managed keys cannot provide team-specific control or support the custom rotation policy required by the teams.

* Option C: Adding kms:CreateGrant and kms:Encrypt permissions to Lambda roles is unnecessary for this scenario. The key usage is limited to decryption at runtime.

* Option D: AWS-managed keys still lack team-specific control, and adding kms:CreateGrant and kms:Encrypt is redundant.

NEW QUESTION # 351

A company that has large online business uses an Amazon DynamoDB table to store sales data.

The company enabled Amazon DynamoDB Streams on the table. The transaction status of each sale is stored in a TransactionStatus attribute in the table. The value of the TransactionStatus attribute must be either failed, pending, or completed.

The company wants to be notified of failed sales where the Price attribute is above a specific threshold. A developer needs to set up notification for the failed sales.

Which solution will meet these requirements with the LEAST development effort?

- **A. Create an event source mapping between DynamoDB Streams and an Amazon Simple Notification Service (Amazon SNS) topic. Use event filtering to publish to the SNS topic if sales fail when the price is above the specified threshold.**
- B. Create an event source mapping between DynamoDB Streams and an AWS Lambda function. Use Lambda event filtering to trigger the Lambda function only if sales fail when the price is above the specified threshold. Configure the Lambda function to publish the data to an Amazon Simple Notification Service (Amazon SNS) topic.
- C. Create an Amazon CloudWatch alarm to monitor the DynamoDB Streams sales data. Configure the alarm to publish to an Amazon Simple Notification Service (Amazon SNS) topic if sales fail due when price is above the specified threshold.
- D. Create an event source mapping between DynamoDB Streams and an AWS Lambda function. Configure the Lambda function handler code to publish to an Amazon Simple Notification Service (Amazon SNS) topic if sales fail when price is above the specified threshold.

Answer: A

NEW QUESTION # 352

A company is migrating an on-premises database to Amazon RDS for MySQL. The company has read-heavy workloads. The company wants to refactor the code to achieve optimum read performance for queries.

Which solution will meet this requirement with LEAST current and future effort?

- A. Use open source replication software to create a copy of the MySQL database on an Amazon EC2 instance. Modify the application code so that queries use the IP address of the EC2 instance.
- B. Use a multi-AZ Amazon RDS deployment. Increase the number of connections that the code makes to the database or increase the connection pool size if a connection pool is in use.
- C. Use a multi-AZ Amazon RDS deployment. Modify the code so that queries access the secondary RDS instance.
- **D. Deploy Amazon RDS with one or more read replicas. Modify the application code so that queries use the URL for the read replicas.**

Answer: D

Explanation:

Amazon RDS for MySQL supports read replicas, which are copies of the primary database instance that can handle read-only queries. Read replicas can improve the read performance of the database by offloading the read workload from the primary instance and distributing it across multiple replicas. To use read replicas, the application code needs to be modified to direct read queries to the URL of the read replicas, while write queries still go to the URL of the primary instance. This solution requires less current and future effort than using a multi-AZ deployment, which does not provide read scaling benefits, or using open source replication software, which requires additional configuration and maintenance. Reference: Working with read replicas

NEW QUESTION # 353

A developer is building a serverless application by using AWS Serverless Application Model (AWS SAM) on multiple AWS Lambda functions. When the application is deployed, the developer wants to shift 10% of the traffic to the new deployment of the application for the first 10 minutes after deployment. If there are no issues, all traffic must switch over to the new version. Which change to the AWS SAM template will meet these requirements?

- A. Set the Deployment Preference Type to Canary10Percent10Minutes. Set the PreTraffic and PostTraffic properties to the Lambda alias.
- **B. Set the Deployment Preference Type to Canary10Percent10Minutes. Set the AutoPublishAlias property to the Lambda alias.**
- C. Set the Deployment Preference Type to Linear10PercentEvery10Minutes. Set PreTraffic and PostTraffic properties to the Lambda alias.
- D. Set the Deployment Preference Type to Linear10PercentEvery10Minutes. Set AutoPublishAlias property to the Lambda alias.

Answer: B

NEW QUESTION # 354

A developer has written the following IAM policy to provide access to an Amazon S3 bucket:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetObject",
        "s3:PutObject"
      ],
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"
    },
    {
      "Effect": "Deny",
      "Action": "s3:*",
      "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET/secrets*"
    }
  ]
}
```

Which access does the policy allow regarding the s3:GetObject and s3:PutObject actions?

- **A. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket except on objects that start with "secrets"**
- B. Access on all buckets that start with "DOC-EXAMPLE-BUCKET" except the "DOC-EXAMPLE- BUCKET/secrets" bucket
- C. Access on all buckets except the "DOC-EXAMPLE-BUCKET" bucket
- D. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket along with access to all S3 actions for objects in the "DOC-EXAMPLE-BUCKET" bucket that start with "secrets"

Answer: A

Explanation:

The IAM policy shown in the image is a resource-based policy that grants or denies access to an S3 bucket based on certain conditions. The first statement allows access to any S3 action on any object in the "DOC- EXAMPLE-BUCKET" bucket when the request is made over HTTPS (the value of aws:SecureTransport is true). The second statement denies access to the s3:GetObject

