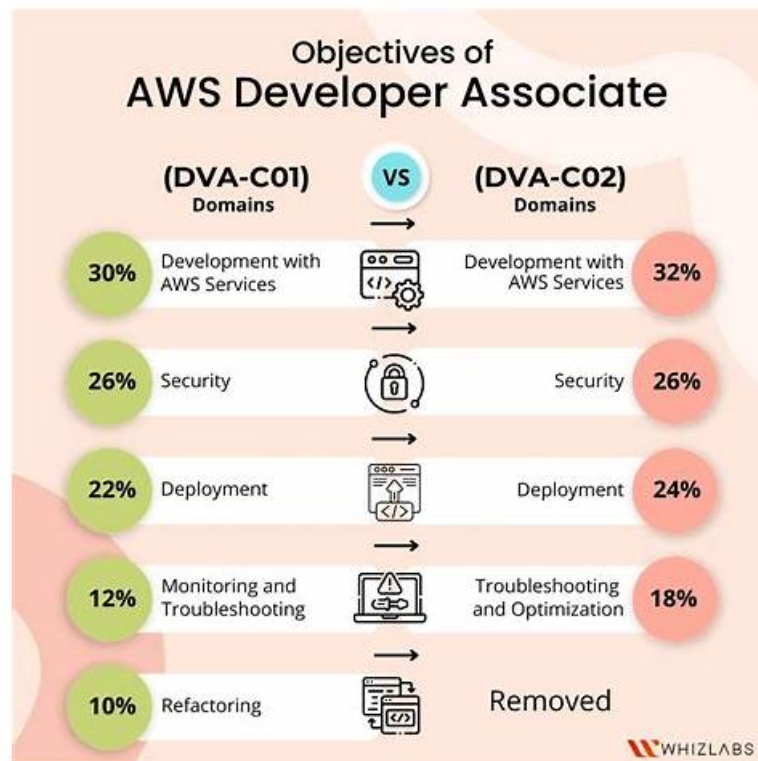


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Amazon AWS Certified Developer - Associate Sample Questions (Q568-Q573):

NEW QUESTION # 568

A company has an application that is hosted on Amazon EC2 instances. The application stores objects in an Amazon S3 bucket and allows users to download objects from the S3 bucket. A developer turns on S3 Block Public Access for the S3 bucket. After this change, users report errors when they attempt to download objects. The developer needs to implement a solution so that only users who are signed in to the application can access objects in the S3 bucket.

Which combination of steps will meet these requirements in the MOST secure way? (Select TWO.)

- A. Modify the application to use the S3 GetObject API call and to return the object handle to the user.
- **B. Create an EC2 instance profile and role with an appropriate policy. Associate the role with the EC2 instances.**
- C. Modify the application to delegate requests to the S3 bucket.
- **D. Modify the application to use the S3 GeneratePresignedUrl API call.**
- E. Create an IAM user with an appropriate policy. Store the access key ID and secret access key on the EC2 instances.

Answer: B,D

Explanation:

* IAM Roles for EC2 (A): The most secure way to provide AWS permissions from EC2.

* Create a role with a policy allowing s3:GetObject on the specific bucket.

* Attach the role to an instance profile and associate that profile with your instances.

* Pre-signed URLs (C): Temporary, authenticated URLs for specific S3 actions.

* Modify the app to use the AWS SDK to call GeneratePresignedUrl.

* Embed these URLs when a user is properly logged in, allowing download access.

NEW QUESTION # 569

A developer at a company needs to create a small application that makes the same API call once each day at a designated time. The company does not have infrastructure in the AWS Cloud yet, but the company wants to implement this functionality on AWS.

Which solution meets these requirements in the MOST operationally efficient manner?

- A. Use an AWS Batch job that is submitted to an AWS Batch job queue.
- B. Use a Kubernetes cron job that runs on Amazon Elastic Kubernetes Service (Amazon EKS).
- **C. Use an AWS Lambda function that is invoked by an Amazon EventBridge scheduled event.**
- D. Use an Amazon Linux crontab scheduled job that runs on Amazon EC2.

Answer: C

NEW QUESTION # 570

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 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.
- B. 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.
- C. 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.
- **D. 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.**

Answer: D

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 # 571

A company has a web application that is hosted on Amazon EC2 instances. The EC2 instances are configured to stream logs to Amazon CloudWatch Logs. The company needs to receive an Amazon Simple Notification Service (Amazon SNS) notification when the number of application error messages exceeds a defined threshold within a 5-minute period.

Which solution will meet these requirements?

- A. Create a CloudWatch metric filter to match the application error pattern in the log data. Set up a CloudWatch alarm based on the new custom metric. Configure the alarm to send an SNS notification when the number of errors exceeds the defined threshold within a 5-minute period.
- **B. Install and configure the Amazon Inspector agent on the EC2 instances to monitor for errors. Configure Amazon Inspector to send an SNS notification when the number of errors exceeds the defined threshold within a 5-minute period.**
- C. Rewrite the application code to stream application logs to Amazon SNS. Configure an SNS topic to send a notification when the number of errors exceeds the defined threshold within a 5-minute period.
- D. Configure a subscription filter on the CloudWatch Logs log group. Configure the filter to send an SNS notification when the number of errors exceeds the defined threshold within a 5-minute period.

Answer: B

NEW QUESTION # 572

A company needs to set up secure database credentials for all its AWS Cloud resources. The company's resources include Amazon RDS DB instances, Amazon DocumentDB clusters, and Amazon Aurora DB instances. The company's security policy mandates that database credentials be encrypted at rest and rotated at a regular interval.

Which solution will meet these requirements MOST securely?

- A. Create parameters for the database credentials in AWS Systems Manager Parameter Store. Set the Type parameter to Secure String. Set up automatic rotation on the parameters.
- **B. Create an AWS Lambda function by using the SecretsManagerRotationTemplate template in the AWS Secrets Manager console. Create secrets for the database credentials in Secrets Manager. Set up secrets rotation on a schedule.**
- C. Set up IAM database authentication for token-based access. Generate user tokens to provide centralized access to RDS DB instances, Amazon DocumentDB clusters, and Aurora DB instances.
- D. Store the database access credentials as an encrypted Amazon S3 object in an S3 bucket. Block all public access on the S3 bucket. Use S3 server-side encryption to set up automatic rotation on the encryption key.

Answer: B

Explanation:

This solution will meet the requirements by using AWS Secrets Manager, which is a service that helps protect secrets such as database credentials by encrypting them with AWS Key Management Service (AWS KMS) and enabling automatic rotation of secrets. The developer can create an AWS Lambda function by using the SecretsManagerRotationTemplate template in the AWS Secrets Manager console, which provides a sample code for rotating secrets for RDS DB instances, Amazon DocumentDB clusters, and Amazon Aurora DB instances. The developer can also create secrets for the database credentials in Secrets Manager, which encrypts them at rest and provides secure access to them. The developer can set up secrets rotation on a schedule, which changes the database credentials periodically according to a specified interval or event. Option A is not optimal because it will set up IAM database authentication for token-based access, which may not be compatible with all database engines and may require additional configuration and management of IAM roles or users. Option B is not optimal because it will create parameters for the database credentials in AWS Systems Manager Parameter Store, which does not support automatic rotation of secrets. Option C is not

NEW QUESTION # 573

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