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Amazon AWS Certified Developer - Associate Sample Questions (Q125-Q130):

NEW QUESTION # 125

A developer is creating an AWS Lambda function that will connect to an Amazon RDS for MySQL instance. The developer wants to store the database credentials. The database credentials need to be encrypted and the database password needs to be automatically rotated.

Which solution will meet these requirements?

- A. Store the database credentials as environment variables for the Lambda function. Set the environment variables to rotate automatically.
- B. Store the database credentials in the X-Amz-Security-Token parameter. Set up managed rotation on the parameter.
- C. Store the database credentials in AWS Systems Manager Parameter Store as secure string parameters. Set up managed rotation on the parameters.
- D. **Store the database credentials in AWS Secrets Manager. Set up managed rotation on the database credentials.**

Answer: D

NEW QUESTION # 126

An application uses AWS X-Ray to generate a large amount of trace data on an hourly basis. A developer wants to use filter expressions to limit the returned results through user-specified custom attributes.

How should the developer use filter expressions to filter the results in X-Ray?

- A. **Add custom attributes as annotations in the segment document.**
- B. Add custom attributes as new segment fields in the segment document.
- C. Add custom attributes as metadata in the segment document.
- D. Create new sampling rules that are based on custom attributes.

Answer: A

Explanation:

In AWS X-Ray, filter expressions can filter trace data based on indexed fields that X-Ray can query efficiently. Custom data can be added to segments in two main ways: annotations and metadata. The critical difference is that annotations are indexed and can be used for filtering, while metadata is not indexed and is intended for additional diagnostic context that you do not typically query on. Therefore, if the developer wants user-specified custom attributes to be usable in X-Ray filter expressions, the developer should record those attributes as annotations in the segment document. Once recorded as annotations, the developer can write filter expressions that match annotation keys/values and return only the relevant traces.

Option B is incorrect because metadata is not indexed and cannot be used in filter expressions for trace search the same way annotations can.

Option C is incorrect because segment documents have a defined schema; adding arbitrary "new segment fields" is not the intended method for searchable custom attributes.

Option D is unrelated: sampling rules control which requests get traced in the first place. They are not used to filter returned results by custom attributes after traces are recorded.

NEW QUESTION # 127

A developer is using AWS CloudFormation to deploy an AWS Lambda function. The developer needs to set the Lambda function's timeout value based on the environment parameter of the template. The template contains mappings of EnvironmentData for each environment's timeout value. The environment parameter and EnvironmentData mappings are as follows:

Environment parameter:

EnvironmentData mappings:

Which statement will meet these requirements?

- A. **Timeout: !FindInMap [EnvironmentData, !Ref Environment, Timeout]**
- B. Timeout: !GetAtt [EnvironmentData, !Ref Environment, Timeout]

- C. Timeout: !Select [EnvironmentData, !Ref Environment, Timeout]
- D. Timeout: !ForEach[EnvironmentData, !Ref Environment, Timeout]

Answer: A

NEW QUESTION # 128

A developer needs to use Amazon DynamoDB to store customer orders. The developer's company requires all customer data to be encrypted at rest with a key that the company generates. What should the developer do to meet these requirements?

- A. Store the key by using AWS KMS. Choose an AWS KMS AWS managed key during creation of the DynamoDB table. Provide the Amazon Resource Name (ARN) of the AWS KMS key.
- B. Create the DynamoDB table with encryption set to None. Code the application to use the key to decrypt the data when the application reads from the table. Code the application to use the key to encrypt the data when the application writes to the table.
- C. Store the key by using AWS KMS. Create the DynamoDB table with default encryption. Include the kms:Encrypt parameter with the Amazon Resource Name (ARN) of the AWS KMS key when using the DynamoDB SDK.
- D. **Store the key by using AWS KMS. Choose an AWS KMS customer managed key during creation of the DynamoDB table. Provide the Amazon Resource Name (ARN) of the AWS KMS key.**

Answer: D

Explanation:

Requirement Summary:

- * Store customer orders in DynamoDB
- * Must encrypt data at rest
- * Company wants to use a key it generates (i.e., customer managed key)

Evaluate Options:

- A). Set encryption to None, manually encrypt/decrypt in code
 - * Overhead and error-prone
 - * Also non-compliant with AWS encryption best practices
- B). Use customer managed KMS key
 - * Exactly meets the requirement: customer generates and controls the key
 - * During table creation, you can specify a KMS CMK ARN
- C). Default encryption + kms:Encrypt in SDK
 - * Misunderstanding: DynamoDB handles encryption automatically
 - * You don't need to call kms:Encrypt manually in SDK
- D). Use AWS managed key
 - * Does not meet the requirement of using custom company-generated key
 - * DynamoDB encryption: <https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/EncryptionAtRest.html>
 - * KMS customer managed keys: <https://docs.aws.amazon.com/kms/latest/developerguide/concepts.html#customer-cmk>

NEW QUESTION # 129

A developer supports an application that accesses data in an Amazon DynamoDB table. One of the item attributes is expirationDate in the timestamp format. The application uses this attribute to find items, archive them, and remove them from the table based on the timestamp value. The application will be decommissioned soon, and the developer must find another way to implement this functionality. The developer needs a solution that will require the least amount of code to write.

Which solution will meet these requirements?

- A. **Enable TTL on the expirationDate attribute in the table. Create a DynamoDB stream. Create an AWS Lambda function to process the deleted items. Create a DynamoDB trigger for the Lambda function.**
- B. Enable TTL on the expirationDate attribute in the table. Specify an Amazon Simple Queue Service (Amazon SQS) dead-letter queue as the target to delete the items. Create an AWS Lambda function to process the items.
- C. Create two AWS Lambda functions, one to delete the items and one to process the items. Create a DynamoDB stream. Use the DeleteItem API operation to delete the items based on the expirationDate attribute. Use the GetRecords API operation to get the items from the DynamoDB stream and process them.
- D. Create two AWS Lambda functions, one to delete the items and one to process the items. Create an Amazon EventBridge

scheduled rule to invoke the Lambda Functions Use the DeleteItem API operation to delete the items based on the expirationDate attribute. Use the GetRecords API operation to get the items from the DynamoDB table and process them.

Answer: A

Explanation:

- * TTL for Automatic Deletion: DynamoDB's Time-to-Live effortlessly deletes expired items without manual intervention.
- * DynamoDB Stream: Captures changes to the table, including deletions of expired items, triggering downstream actions.
- * Lambda for Processing: A Lambda function connected to the stream provides custom logic for handling the deleted items.
- * Code Efficiency: This solution leverages native DynamoDB features and stream-based processing, minimizing the need for custom code.

NEW QUESTION # 130

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