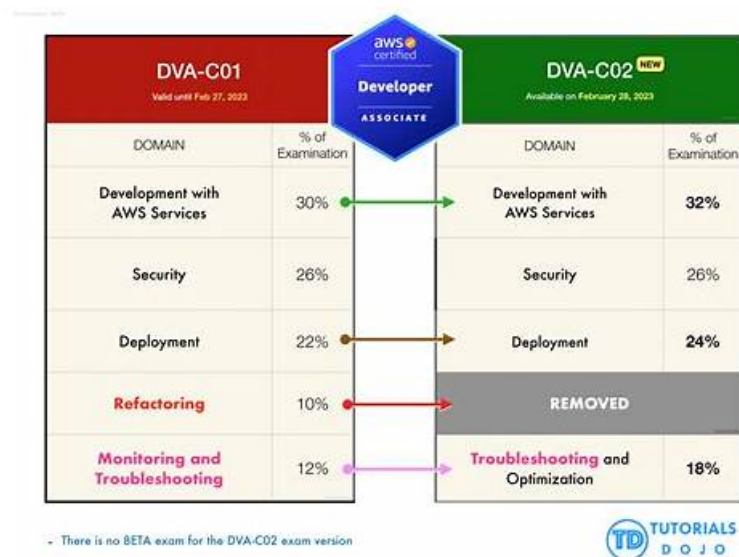


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Amazon AWS Certified Developer - Associate Sample Questions (Q387-Q392):

NEW QUESTION # 387

A developer is creating a serverless application that uses an AWS Lambda function. The developer will use AWS CloudFormation to deploy the application. The application will write logs to Amazon CloudWatch Logs. The developer has created a log group in a

CloudFormation template for the application to use. The developer needs to modify the CloudFormation template to make the name of the log group available to the application at runtime.

Which solution will meet this requirement?

- A. Use the AWS::Include transform in CloudFormation to provide the log group's name to the application.
- **B. Pass the log group's Amazon Resource Name (ARN) as an environment variable to the Lambda function.**
- C. Pass the log group's name to the application in the user data section of the CloudFormation template.
- D. Use the CloudFormation template's Mappings section to specify the log group's name for the application.

Answer: B

NEW QUESTION # 388

A developer is deploying a new application to Amazon Elastic Container Service (Amazon ECS). The developer needs to securely store and retrieve different types of variables. These variables include authentication information for a remote API, the URL for the API, and credentials. The authentication information and API URL must be available to all current and future deployed versions of the application across development, testing, and production environments.

How should the developer retrieve the variables with the FEWEST application changes?

- A. Update the application to retrieve the variables from an encrypted file that is stored with the application. Store the API URL and credentials in unique files for each environment.
- B. Update the application to retrieve the variables from each of the deployed environments. Define the authentication information and API URL in the ECS task definition as unique names during the deployment process.
- **C. Update the application to retrieve the variables from AWS Systems Manager Parameter Store. Use unique paths in Parameter Store for each variable in each environment. Store the credentials in AWS Secrets Manager in each environment.**
- D. Update the application to retrieve the variables from AWS Key Management Service (AWS KMS). Store the API URL and credentials as unique keys for each environment.

Answer: C

Explanation:

Explanation

AWS Systems Manager Parameter Store is a service that provides secure, hierarchical storage for configuration data management and secrets management. The developer can update the application to retrieve the variables from Parameter Store by using the AWS SDK or the AWS CLI. The developer can use unique paths in Parameter Store for each variable in each environment, such as /dev/api-url, /test/api-url, and

/prod/api-url. The developer can also store the credentials in AWS Secrets Manager, which is integrated with Parameter Store and provides additional features such as automatic rotation and encryption.

References:

[What Is AWS Systems Manager? - AWS Systems Manager]

[Parameter Store - AWS Systems Manager]

[What Is AWS Secrets Manager? - AWS Secrets Manager]

NEW QUESTION # 389

A company is using Amazon RDS as the Backend database for its application. After a recent marketing campaign, a surge of read requests to the database increased the latency of data retrieval from the database.

The company has decided to implement a caching layer in front of the database. The cached content must be encrypted and must be highly available.

Which solution will meet these requirements?

- A. Amazon ElastiCache to Memcached
- B. Amazon Cloudfront
- **C. Amazon ElastiCache for Redis in cluster mode**
- D. Amazon DynamoDB Accelerate (DAX)

Answer: C

Explanation:

Explanation

This solution meets the requirements because it provides a caching layer that can store and retrieve encrypted data from multiple

nodes. Amazon ElastiCache for Redis supports encryption at rest and in transit, and can scale horizontally to increase the cache capacity and availability. Amazon ElastiCache for Memcached does not support encryption, Amazon CloudFront is a content delivery network that is not suitable for caching database queries, and Amazon DynamoDB Accelerator (DAX) is a caching service that only works with DynamoDB tables.

NEW QUESTION # 390

A developer is trying to make API calls using the AWS SDK. The IAM user credentials used by the application require multi-factor authentication for all API calls.

Which method should the developer use to access the multi-factor authentication-protected API?

- A. `GetSessionToken`
- B. `GetFederationToken`
- C. `GetCallerIdentity`
- D. `DecodeAuthorizationMessage`

Answer: A

Explanation:

When IAM user credentials require MFA for API access, the correct approach is to obtain temporary security credentials from AWS Security Token Service (STS) that are validated with an MFA code. AWS documentation describes using STS to issue temporary credentials that applications can use instead of long-term access keys, especially when MFA is required.

The specific STS API operation used for an IAM user to obtain temporary credentials is `GetSessionToken`.

This call supports MFA by accepting the user's MFA device serial number and a time-based one-time password (TOTP) code.

STS then returns a set of temporary credentials: `AccessKeyId`, `SecretAccessKey`, and `SessionToken`, which the SDK can use to sign subsequent API requests. This is the standard method for enabling MFA-protected API access for IAM users.

Why the other options are wrong:

* `GetFederationToken` is used to obtain temporary credentials for a federated user, often for scenarios where you want to grant access to resources for users who do not have IAM users. It's not the typical method for IAM-user MFA enforcement for all calls.

* `GetCallerIdentity` simply returns identity details for the current credentials; it does not generate credentials.

* `DecodeAuthorizationMessage` is used to decode encoded authorization failure messages returned by AWS, not to authenticate.

Therefore, to access an API protected by MFA requirements for an IAM user, the developer should call `GetSessionToken` and then use the returned temporary credentials in the AWS SDK.

NEW QUESTION # 391

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

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 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"
- D. Access on all buckets except the "DOC-EXAMPLE-BUCKET" bucket

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` and `s3:PutObject` actions on any object in the

"DOC-EXAMPLE-BUCKET/secrets" prefix when the request is made over HTTP (the value of `aws:`

`SecureTransport` is false). Therefore, the policy allows access on all objects in the "DOC-EXAMPLE- BUCKET" bucket except on objects that start with "secrets". Reference: Using IAM policies for Amazon S3

NEW QUESTION # 392

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