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Amazon DVA-C02 exam is intended for developers who have one or more years of experience in developing and maintaining AWS-based applications. DVA-C02 exam covers a wide range of topics such as AWS core services, application deployment, security, and troubleshooting, among others. DVA-C02 Exam consists of multiple-choice questions and has a time limit of 130 minutes.

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Amazon AWS Certified Developer - Associate Sample Questions (Q485-Q490):

NEW QUESTION # 485

A developer is configuring AWS CodeDeploy to deploy an existing application to on-premises servers. The developer has a copy of all application source files and configurations in a directory on a local development machine. How can the developer prepare an

application revision to be ready for deployment?

- A. Add an AppSpec file to the root of the application's directory. Bundle the directory into an archive file. Upload the bundle to Amazon S3.
- B. Create an AppSpec file locally. Upload the file to Amazon S3.
- C. Use the AppSpec editor in the CodeDeploy console to specify the AppSpec file for the application revision.
- D. Use the AWS CLI create-deployment command.

Answer: A

Explanation:

To prepare an application revision for CodeDeploy, the developer must include an AppSpec file in the root of the application directory, bundle the entire directory into an archive (such as a .zip file), and upload this archive to Amazon S3. This package is then used by CodeDeploy for deployment.

NEW QUESTION # 486

A company has a serverless application that uses an Amazon API Gateway API to invoke an AWS Lambda function. A developer creates a fix for a defect in the Lambda function code. The developer wants to deploy this fix to the production environment. To test the changes, the developer needs to send 10% of the live production traffic to the updated Lambda function version.

Options:

- A. Publish a new version of the Lambda function that contains the updated code.
- B. Create an alias for the Lambda function. Configure weighted routing on the alias. Specify a 10% weight for the new Lambda function version.
- C. Set up a weighted routing policy by using Amazon Route 53. Configure 10% of the traffic to go to the new Lambda function version.
- D. Set up a new stage in API Gateway with a new Lambda function version. Enable weighted routing in API Gateway stages.
- E. Set up a routing policy on a Network Load Balancer. Configure 10% of the traffic to go to the new Lambda function version.

Answer: A,B

Explanation:

Step 1: Understanding the Requirements

Gradual Traffic Shift: Test the new version by routing only 10% of production traffic to it.

Lambda Deployment: Use versioning and aliases to manage Lambda function updates.

Step 2: Solution Analysis

Option A:

Publishing a new version creates an immutable version of the Lambda function with the updated code.

This is a prerequisite for deploying changes using weighted aliases.

Correct option.

Option B:

API Gateway stages are not used for weighted routing; they represent environments like "dev" or "prod." Weighted routing is implemented using Lambda aliases, not API Gateway stages.

Not suitable.

Option C:

Lambda aliases allow traffic to be split between versions using weighted routing.

Assign a 90% weight to the old version and 10% to the new version to implement the gradual rollout.

Correct option.

Option D:

Network Load Balancers are not suitable for managing Lambda function traffic directly.

Not applicable.

Option E:

Route 53 routing policies apply at the DNS level and are not designed for Lambda version management.

Not suitable.

Step 3: Implementation Steps

Publish a New Version:

Publish the updated Lambda function code as a new version.

Create an Alias and Configure Weighted Routing:

Create an alias (e.g., prod) and associate it with both the old and new versions.

Set weights for traffic distribution:

```
aws lambda update-alias --function-name my-function \
```

```
--name prod --routing-config '{"AdditionalVersionWeights": {"2": 0.1}}' AWS Developer Reference:
```

Lambda Function Aliases

Weighted Traffic Routing with Lambda

NEW QUESTION # 487

A company has a multi-node Windows legacy application that runs on premises. The application uses a network shared folder as a centralized configuration repository to store configuration files in .xml format. The company is migrating the application to Amazon EC2 instances. As part of the migration to AWS, a developer must identify a solution that provides high availability for the repository.

Which solution will meet this requirement MOST cost-effectively?

- A. Deploy a micro EC2 instance with an instance store volume. Use the host operating system to share a folder. Update the application code to read and write configuration files from the shared folder.
- B. Mount an Amazon Elastic Block Store (Amazon EBS) volume onto one of the EC2 instances. Deploy a file system on the EBS volume. Use the host operating system to share a folder. Update the application code to read and write configuration files from the shared folder.
- C. Create an Amazon S3 bucket to host the repository. Migrate the existing .xml files to the S3 bucket. Mount the S3 bucket to the EC2 instances as a local volume. Update the application code to read and write configuration files from the disk.
- **D. Create an Amazon S3 bucket to host the repository. Migrate the existing .xml files to the S3 bucket. Update the application code to use the AWS SDK to read and write configuration files from Amazon S3.**

Answer: D

Explanation:

Amazon S3 is a service that provides highly scalable, durable, and secure object storage. The developer can create an S3 bucket to host the repository and migrate the existing .xml files to the S3 bucket. The developer can update the application code to use the AWS SDK to read and write configuration files from S3. This solution will meet the requirement of high availability for the repository in a cost-effective way.

Reference:

[Amazon Simple Storage Service (S3)]

[Using AWS SDKs with Amazon S3]

NEW QUESTION # 488

A company needs a new REST API that can return information about the contents of an Amazon S3 bucket, such as a count of the objects stored in it. The company has decided that the new API should be written as a microservice using AWS Lambda and Amazon API Gateway.

How should the developer ensure that the microservice has the necessary access to the Amazon S3 bucket, while adhering to security best practices?

- A. Create an IAM user that has permissions to access the Amazon S3 bucket, and store the IAM user credentials in the Lambda function source code.
- **B. Create an IAM role that has permissions to access the Amazon S3 bucket and assign it to the Lambda function as its execution role.**
- C. Create an Amazon S3 bucket policy that specifies the Lambda service as its principal and assign it to the Amazon S3 bucket.
- D. Create an IAM role, attach the AmazonS3FullAccess managed policy to it, and assign the role to the Lambda function as its execution role.

Answer: B

Explanation:

The correct security best practice is to assign the Lambda function an execution role with only the S3 permissions it needs. Lambda assumes this IAM role at runtime, so no long-term access keys need to be stored in source code. Option A is unacceptable because hardcoded IAM user credentials create a serious secret-management risk. Option C misunderstands the access model; the Lambda service principal is not the same as granting the function's execution role permission to access the bucket. Option D uses an execution role, but attaching AmazonS3FullAccess is excessive and violates least privilege. The role should allow only the specific bucket actions required, such as listing the target bucket. AWS Lambda documentation states that a function's execution role grants

the function permission to access AWS services and resources. (AWS Documentation)

NEW QUESTION # 489

A company is using AWS CloudFormation to deploy a two-tier application. The application will use Amazon RDS as its backend database. The company wants a solution that will randomly generate the database password during deployment. The solution also must automatically rotate the database password without requiring changes to the application.

What is the MOST operationally efficient solution that meets these requirements'?

- A. Use an AWS Secrets Manager resource to generate and rotate the password.
- B. Use a cron daemon on the application's host to generate and rotate the password.
- C. Use an AWS Lambda function as a CloudFormation custom resource to generate and rotate the password.
- D. Use an AWS Systems Manager Parameter Store resource with the SecureString data type to generate and rotate the password.

Answer: A

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 use an AWS Secrets Manager resource in AWS CloudFormation template, which enables creating and managing secrets as part of a CloudFormation stack.

The developer can use an AWS::SecretsManager::Secret resource type to generate and rotate the password for accessing RDS database during deployment. The developer can also specify a RotationSchedule property for the secret resource, which defines how often to rotate the secret and which Lambda function to use for rotation logic. Option A is not optimal because it will use an AWS Lambda function as a CloudFormation custom resource, which may introduce additional complexity and overhead for creating and managing a custom resource and implementing rotation logic. Option B is not optimal because it will use an AWS Systems Manager Parameter Store resource with the SecureString data type, which does not support automatic rotation of secrets. Option C is not optimal because it will use a cron daemon on the application's host to generate and rotate the password, which may incur more costs and require more maintenance for running and securing a host.

NEW QUESTION # 490

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