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2026 Amazon DVA-C02: High-quality Exam AWS Certified Developer - Associate Practice

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Amazon AWS Certified Developer - Associate Sample Questions (Q604-Q609):

NEW QUESTION # 604

A company is building a serverless application on AWS. The application uses Amazon API Gateway and AWS Lambda. The company wants to deploy the application to its development, test, and production environments.

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

- A. Duplicate the code for each environment. Deploy the code to a separate API Gateway stage.
- B. Use API Gateway stage variables and create Lambda aliases to reference environment-specific resources.
- C. Use Amazon ECS to deploy the application to the environments.

- D. Use AWS Elastic Beanstalk to deploy the application to the environments.

Answer: B

Explanation:

Requirement Summary:

- * Deploy serverless application using:
- * API Gateway
- * AWS Lambda
- * Need dev, test, and prod environments
- * Want least development effort

Evaluate Options:

Option A: API Gateway stage variables + Lambda aliases

- * #Most efficient and scalable
- * API Gateway supports stage variables (like env)
- * Lambda supports aliases (e.g., dev, test, prod)
- * You can configure each stage to point to a different alias of the same function version
- * Enables versioning, isolation, and low effort management

Option B: Use Amazon ECS

- * #Overkill for a serverless setup
- * ECS is container-based, not serverless
- * Introduces unnecessary complexity

Option C: Duplicate code for each environment

- * #High operational overhead and poor maintainability

Option D: Use Elastic Beanstalk

- * #Not applicable: Elastic Beanstalk is for traditional app hosting, not optimal for Lambda + API Gateway
- * Lambda Aliases: <https://docs.aws.amazon.com/lambda/latest/dg/configuration-aliases.html>
- * API Gateway Stage Variables: <https://docs.aws.amazon.com/apigateway/latest/developerguide/stage-variables.html>

NEW QUESTION # 605

A company has an application that is based on Amazon EC2. The company provides API access to the application through Amazon API Gateway and uses Amazon DynamoDB to store the application's data. A developer is investigating performance issues that are affecting the application. During peak usage, the application is overwhelmed by a large number of identical data read requests that come through APIs. What is the MOST operationally efficient way for the developer to improve the application's performance?

- A. Enable API Gateway caching to cache API responses.
- B. Configure Amazon EC2 Auto Scaling policies to meet fluctuating demand.
- **C. Use DynamoDB Accelerator (DAX) to cache database responses.**
- D. Use Amazon ElastiCache to cache application responses.

Answer: C

Explanation:

DynamoDB Accelerator (DAX) provides a managed caching layer specifically optimized for DynamoDB, reducing latency for repeated read requests.

- * Why Option A is Correct:
- * Purpose-Built: DAX is designed for DynamoDB, enabling sub-millisecond response times for frequently accessed items.
- * Operational Efficiency: No need for additional application-level caching logic.
- * Why Not Other Options:
- * Option B: Auto Scaling increases capacity but does not address repetitive reads.
- * Option C: API Gateway caching helps reduce request processing time but does not optimize DynamoDB reads.
- * Option D: ElastiCache is a general-purpose cache, adding unnecessary complexity for DynamoDB use cases.

References:

- * DynamoDB Accelerator (DAX)

NEW QUESTION # 606

An ecommerce company is planning to migrate an on-premises Microsoft SQL Server database to the AWS Cloud. The company needs to migrate the database to SQL Server Always On availability groups. The cloud-based solution must be highly available. Which solution will meet these requirements?

- A. Migrate the database to Amazon RDS for SQL Server. Configure a Multi-AZ deployment and read replicas.
- **B. Deploy three Amazon EC2 instances with SQL Server across three Availability Zones. Use Amazon FSx for Windows File Server as the storage tier.**
- C. Deploy three Amazon EC2 instances with SQL Server across three Availability Zones. Use Amazon S3 as the storage tier.
- D. Deploy three Amazon EC2 instances with SQL Server across three Availability Zones. Attach one Amazon Elastic Block Store (Amazon EBS) volume to the EC2 instances.

Answer: B

Explanation:

* Why Option C is Correct: SQL Server Always On availability groups require a shared storage solution. Amazon FSx for Windows File Server provides the shared storage necessary to implement Always On availability groups in a highly available configuration.

* Why Other Options are Incorrect:

* Option A: A single EBS volume cannot provide shared storage for Always On availability groups.

* Option B: RDS does not support SQL Server Always On availability groups.

* Option D: S3 is not a suitable storage tier for SQL Server database operations.

* AWS Documentation References:

* Amazon FSx for Windows File Server

NEW QUESTION # 607

A developer wants to deploy a new version of an AWS Elastic Beanstalk application. During deployment the application must maintain full capacity and avoid service interruption. Additionally, the developer must minimize the cost of additional resources that support the deployment.

Which deployment method should the developer use to meet these requirements?

- A. Immutable
- B. Bluegreen
- **C. Rolling with additional batch**
- D. All at once

Answer: C

Explanation:

This solution will meet the requirements by using a rolling with additional batch deployment method, which deploys the new version of the application to a separate group of instances and then shifts traffic to those instances in batches. This way, the application maintains full capacity and avoids service interruption during deployment, as well as minimizes the cost of additional resources that support the deployment. Option A is not optimal because it will use an all at once deployment method, which deploys the new version of the application to all instances simultaneously, which may cause service interruption or downtime during deployment. Option C is not optimal because it will use a blue/green deployment method, which deploys the new version of the application to a separate environment and then swaps URLs with the original environment, which may incur more costs for additional resources that support the deployment. Option D is not optimal because it will use an immutable deployment method, which deploys the new version of the application to a fresh group of instances and then redirects traffic to those instances, which may also incur more costs for additional resources that support the deployment.

References: AWS Elastic Beanstalk Deployment Policies

NEW QUESTION # 608

A developer is updating an Amazon API Gateway REST API to have a mock endpoint. The developer wants to update the integration request mapping template so the endpoint will respond to mock integration requests with specific HTTP status codes based on various conditions.

- A. `{ if ($input.params('scope') == "internal") "statusCode": 200 else "statusCode": 500 end }`
- B. `{ if ($input.path("integration")) "statusCode": 200 else "statusCode": 404 end }`
- **C. `{ if ($context.integration.status) "statusCode": 200 else "statusCode": 500 end }`**
- D. `{ if ($input.params('integration') == "mock") "statusCode": 404 else "statusCode": 500 end }`

Answer: C

Explanation:

Comprehensive Detailed Step by Step Explanation with All AWS Developer Reference:

In this scenario, the developer is configuring a mock integration in API Gateway. The integration request mapping template allows you to map the incoming request data to a format that the API expects. For mock integration, it's common to return specific HTTP status codes based on the conditions.

Using `$context.integration.status`: The `$context.integration.status` variable refers to the status of the API Gateway integration, which is useful for generating responses based on the condition. Option D correctly uses this variable to determine the HTTP status code, returning 200 for a successful mock request or 500 for a failure.

Alternatives:

Options A, B, and C do not use the correct context variables for handling mock integrations. These options would not return the correct status codes based on the actual integration status.

Reference:

API Gateway Mapping Templates and Accessing Context Variables

NEW QUESTION # 609

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