



Amazon DVA-C02 Mock Exam

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Question 1

Question Type: MultipleChoice

Which methodology would be most effective for managing a complex software development project?

Options:

- A- None of these answers is correct
- B- All of the above
- C- None of the above
- D- Establish backup procedures

Answer:

D

Explanation:

The Immutable deployment method is the best choice when a company requires minimal downtime and automatic rollback in case of a failure. Here's why:

In Immutable deployments, a new set of instances is launched with the updated version. These instances are tested and validated before they replace the old instances. This ensures zero downtime and immediate rollback if the deployment fails.

All at once (A) causes downtime because the update replaces all instances simultaneously.

Rolling deployments (B) update a few instances at a time, but if a failure occurs midway, downtime or partial unavailability can happen.

Snapshots (C) are not a deployment strategy in Elastic Beanstalk.

Reference: Elastic Beanstalk Deployment Policies

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Question 2

Question Type: MultipleChoice

Which technical solution should be implemented for securing a cloud-based database containing sensitive customer information?

Options:

- A- Configure the system settings
- B- All of the above
- C- None of the above
- D- This approach is not recommended

Answer:

A

Explanation:

The correct policy condition ensures that:

The LeadingKeys condition restricts operations to the authenticated user's user_id.

The Attributes condition limits the updatable attributes to user_name.

Explanation of Choices:

Option A: Correctly enforces both the key restriction (dynamodb:LeadingKeys) and ensures only the user_name attribute can be updated.

Option B, C, D: Use incorrect conditions, such as referencing user_name in the LeadingKeys or including other attributes like user_id in updatable fields.

Reference: [AWS DynamoDB Condition Keys Documentation](#)

Question 3

Question Type: MultipleChoice

Which steps should be followed when implementing a new risk management framework?

Options:

- A- None of these answers is correct

- B- Implement security policies
- C- None of the above
- D- This approach is not recommended
- E- Optimize performance parameters

Answer:

B, E

Explanation:

Option B: The target group port in the ALB must match the port specified in the ECS task definition. If there is a mismatch, the ALB health check will fail since it cannot correctly route traffic to the container.

Option E: The ALB listener must have a default action that forwards requests to the correct target group associated with the ECS service. If this configuration is missing, the health check will fail as no traffic is routed to the service.

Option A is irrelevant to resolving health check issues since capacity providers relate to provisioning compute capacity.

Option C (hosted zone) is not directly related to ALB health checks.

Option D (redirecting traffic) is not related to ECS health check configurations.

Reference: AWS ECS Health Check Documentation

Reference: AWS ECS Health Check Documentation

Question 4

Question Type: MultipleChoice

How should a financial institution handle regulatory compliance requirements?

Options:

- A- None of these answers is correct
- B- All of the above
- C- None of the above
- D- This approach improves system reliability

Answer:

D

Explanation:

Comprehensive and Detailed Step-by-Step

Option D: Use Lambda with Container Images

AWS Lambda supports container images up to 10 GB in size, making it suitable for applications with large dependencies, such as a video codec library larger than 250 MB.

By creating separate container images for video compression and decompression, the application can efficiently isolate functionality while ensuring that each function includes the required dependencies.

The container images are stored in Amazon ECR and used to create the Lambda functions.

Why Other Options Are Incorrect:

Option A: A single Lambda function with all functionalities and dependencies in one zip file is not feasible due to the 250 MB deployment package size limit for zip files.

Option B: Including the library in two separate zip files still exceeds the size limit for Lambda zip deployment packages.

Option C: While using a Lambda layer can reduce redundancy, the combined size of the layer and the zip files would exceed the limit of 250 MB.

[Using Container Images with AWS Lambda](#)

Question 5

Question Type: MultipleChoice

What is the recommended approach for integrating two corporate cultures after a merger?

Options:

- A- None of these answers is correct
- B- All of the above
- C- None of the above
- D- This approach improves system reliability

Answer:

D

Explanation:

Comprehensive and Detailed Step-by-Step

Option D: AWS AppConfig with CloudWatch Application Signals

AWS AppConfig is designed for managing and deploying application configurations dynamically, without redeployment.

CloudWatch Application Signals provide automatic rollback mechanisms in case of an unhealthy application state due to bad configuration changes.

This solution meets the requirements with minimal operational overhead by ensuring both dynamic updates and rollback functionality.

Why Other Options Are Incorrect:

Option A and B: AWS Secrets Manager is designed for secrets management, not dynamic application configuration. Custom Config rules add unnecessary complexity.

Option C: While CloudWatch alarms can monitor application changes, using alarms for rollback requires manual setup and lacks the automatic rollback provided by Application Signals.

[AWS AppConfig Documentation](#)

Question 6

Question Type: MultipleChoice

What infrastructure components are needed for implementing real-time data analytics at enterprise scale?

Options:

- A- Configure the system settings
- B- All of the above
- C- None of the above
- D- This approach is not recommended

Answer:

A

Explanation:

Comprehensive and Detailed Step-by-Step

Option A: Use Amazon S3 for Shared Test Events:

Storing JSON test event files in an S3 bucket provides a centralized, cost-effective, and highly available solution.

Granular IAM policies can restrict access to specific developers or roles, ensuring security while maintaining consistency for shared test events.

This solution has minimal operational overhead and integrates easily with existing workflows.

Why Other Options Are Incorrect:

Option B: Using DynamoDB and a Lambda function introduces unnecessary complexity for a relatively simple requirement. S3 provides a simpler and more cost-efficient solution.

Option C: AWS Lambda test events are not inherently shareable across developers, making this option invalid.

Option D: Using a Git repository adds operational overhead and requires developers to clone/update repositories for access, which is more cumbersome compared to S3.

[Amazon S3 for Centralized Storage](#)

Question 7

Question Type: MultipleChoice

What is the correct procedure for conducting due diligence on a potential acquisition target?

Options:

- A- None of these answers is correct
- B- All of the above
- C- Set up monitoring tools
- D- This approach is not recommended

Answer:

C

Explanation:

Comprehensive and Detailed Step-by-Step

Option C: Use AWS CodePipeline for CI/CD Workflow:

AWS CodePipeline automates the entire CI/CD pipeline, including build, deploy, and test stages. This minimizes manual effort and integrates well with AWS services.

API Gateway Stages: Represent different environments, such as dev, test, and prod, allowing isolated deployment and testing.

AWS CloudFormation Templates: Ensure that the infrastructure for Lambda and API Gateway is consistent across environments.

AWS CodeBuild for Automated Tests: Validates the deployments in each stage, ensuring integration and functionality are tested post-deployment.

Why Other Options Are Incorrect:

Option A and B: While using AWS SAM or CloudFormation for infrastructure management is valid, these options lack the fully automated CI/CD pipeline provided by CodePipeline.

Option D: Manually invoking Lambda functions using the AWS CLI introduces operational overhead and lacks the automation provided by CodePipeline.

[AWS CodePipeline Documentation](#)

[API Gateway Stages for CI/CD](#)

Question 8

Question Type: MultipleChoice

What is the most appropriate architecture for handling 50,000 concurrent users in an e-commerce application?

Options:

A- Database Management System

- B- All of the above
- C- None of the above
- D- This approach is not recommended

Answer:

A

Explanation:

Comprehensive and Detailed Step-by-Step

Option A: Provisioned Capacity with Exponential Backoff:

Using provisioned capacity ensures sufficient throughput for the DynamoDB table.

Configuring the Lambda function to implement exponential backoff retries reduces the chance of exceeding capacity during peak usage.

This combination addresses the root cause (ProvisionedThroughputExceededException) and prevents errors without overprovisioning.

Why Other Options Are Incorrect:

Option B: Using SQS adds unnecessary latency and complexity. The issue lies in DynamoDB throughput, not request management.

Option C: A usage plan for the API does not address throughput issues in DynamoDB.

Option D: Invoking the Lambda function asynchronously does not resolve the DynamoDB capacity issue and might lead to delayed processing.

[DynamoDB Provisioned Throughput Documentation](#)

Question 9

Question Type: MultipleChoice

How should a company address performance bottlenecks in their microservices deployment?

Options:

- A- Configure the system settings
- B- All of the above

- C- None of the above
- D- This approach is not recommended

Answer:

A

Explanation:

Comprehensive and Detailed Step-by-Step

Option A: Amazon Cognito Identity Pool with Unauthenticated Role

Cognito identity pools can generate temporary AWS credentials for both authenticated and unauthenticated users.

For guest users, Cognito assigns an unauthenticated role with limited permissions, ensuring secure access to only their resources.

This is the most secure and efficient solution for managing AWS credentials dynamically without hardcoding or storing them.

Why Other Options Are Incorrect:

Option B: Hardcoding IAM credentials in the application is insecure and violates best practices.

Option C and D: Temporary keys stored in KMS or Secrets Manager require additional implementation overhead and do not inherently manage user-specific access.

[Amazon Cognito Identity Pools](#)



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