

SOA-C03 Valid Mock Exam - Detailed SOA-C03 Answers

AWS Certified Solutions Architect – Associate SAA-C03 Exam Questions and Answers

Exam Question 1

A company is migrating from an on-premises infrastructure to the AWS Cloud. One of the company's applications stores files on a Windows file server farm that uses Distributed File System Replication (DFS-R) to keep data in sync. A solutions architect needs to replace the file server farm.

Which service should the solutions architect use?

- A. Amazon EFS
- B. Amazon FSx
- C. Amazon S3
- D. AWS Storage Gateway

Correct Answer

B. Amazon FSx

Exam Question 2

A company has a legacy application that processes data in two parts. The second part of the process takes longer than the first, so the company has decided to rewrite the application as two microservices running on Amazon ECS that can scale independently.

How should a solutions architect integrate the microservices?

- A. Implement code in microservice 1 to send data to an Amazon S3 bucket. Use S3 event notifications to invoke microservice 2.
- B. Implement code in microservice 1 to publish data to an Amazon SNS topic. Implement code in microservice 2 to subscribe to this topic.
- C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose. Implement code in microservice 2 to read from Kinesis Data Firehose.
- D. Implement code in microservice 1 to send data to an Amazon SQS queue. Implement code in microservice 2 to process messages from the queue.

Correct Answer

C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose. Implement code in microservice 2 to read from Kinesis Data Firehose.

Exam Question 3

A company captures clickstream data from multiple websites and analyzes it using batch processing. The data is loaded nightly into Amazon Redshift and is consumed by business

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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q137-Q142):

NEW QUESTION # 137

A company has an AWS CloudFormation template that includes an AWS::EC2::Instance resource and a custom resource (Lambda function). The Lambda function fails because it runs before the EC2 instance is launched.

Which solution will resolve this issue?

- **A. Add a DependsOn attribute to the custom resource. Specify the EC2 instance in the DependsOn attribute.**
- B. Use the Fn::If intrinsic function to check for the EC2 instance before the custom resource runs.
- C. Update the Lambda function to use the cfn-response module to send a response to the custom resource.
- D. Update the custom resource's service token to point to a valid Lambda function.

Answer: A

Explanation:

The AWS Cloud Operations and Infrastructure-as-Code documentation specifies that when using AWS CloudFormation, resources are created in parallel by default unless explicitly ordered using DependsOn.

If a custom resource (Lambda) depends on another resource (like an EC2 instance) to exist before execution, a DependsOn attribute must be added to enforce creation order. This ensures the EC2 instance is launched and available before the custom resource executes its automation logic.

Updating the service token (Option B) doesn't affect order of execution. The cfn-response module (Option C) handles callback communication but not sequencing. Fn::If (Option D) is for conditional creation, not dependency control.

Therefore, Option A is correct - adding a DependsOn attribute guarantees that CloudFormation provisions the EC2 instance before executing the Lambda custom resource.

Reference: AWS Cloud Operations & Infrastructure-as-Code Guide - Using DependsOn for Resource Creation Order in CloudFormation Templates

NEW QUESTION # 138

A company runs an application on Amazon EC2 that connects to an Amazon Aurora PostgreSQL database

. A developer accidentally drops a table from the database, causing application errors. Two hours later, a CloudOps engineer needs to recover the data and make the application functional again.

Which solution will meet this requirement?

- A. Perform a point-in-time recovery on the existing database to restore the database to a specified point in time, 2 hours in the past.
- **B. Perform a point-in-time recovery and create a new database to restore the database to a specified point in time, 2 hours in the past. Reconfigure the application to use a new database endpoint.**
- C. Use the Aurora Backtrack feature to rewind the database to a specified time, 2 hours in the past.
- D. Create a new Aurora cluster. Choose the Restore data from S3 bucket option. Choose log files up to the failure time 2 hours in the past.

Answer: B

Explanation:

In the AWS Cloud Operations and Aurora documentation, when data loss occurs due to human error such as dropped tables, Point-in-Time Recovery (PITR) is the recommended method for restoration. PITR creates a new Aurora cluster restored to a specific time before the failure.

The restored cluster has a new endpoint that must be reconfigured in the application to resume normal operations. AWS does not support performing PITR directly on an existing production database because that would overwrite current data.

Aurora Backtrack (Option A) applies only to Aurora MySQL, not PostgreSQL. Option B is incorrect because PITR cannot be executed in place. Option D refers to an import process from S3, which is unrelated to time-based recovery.

Hence, Option C is correct and follows the AWS CloudOps standard recovery pattern for PostgreSQL workloads.

Reference: AWS Cloud Operations & Aurora Guide - Section: Performing Point-in-Time Recovery for Aurora PostgreSQL Clusters

NEW QUESTION # 139

A CloudOps engineer is preparing to deploy an application to Amazon EC2 instances that are in an Auto Scaling group. The application requires dependencies to be installed. Application updates are issued weekly. The CloudOps engineer needs to implement a solution to incorporate the application updates on a regular basis. The solution also must conduct a vulnerability scan during Amazon Machine Image (AMI) creation. What is the MOST operationally efficient solution that meets these requirements?

- A. Invoke the EC2 CreateImage API operation by using an EventBridge scheduled rule.
- **B. Use EC2 Image Builder with a custom recipe to install the application and dependencies.**
- C. Create a script that uses Packer and schedule a cron job.
- D. Install the application and dependencies on an EC2 instance and create an AMI.

Answer: B

Explanation:

EC2 Image Builder is a managed service that automates the creation, testing, vulnerability scanning, and distribution of AMIs. It supports scheduled image pipelines, which makes it ideal for weekly application updates. Image Builder integrates with Amazon Inspector to perform vulnerability scans during image creation, fulfilling the security requirement. Custom image recipes define application dependencies and installation steps, ensuring consistency across deployments. Manual AMI creation, cron-based scripts, or direct API calls require ongoing maintenance and do not natively support vulnerability scanning. Therefore, EC2 Image Builder is the most operationally efficient solution.

NEW QUESTION # 140

A company is using an Amazon Aurora MySQL DB cluster that has point-in-time recovery, backtracking, and automatic backups enabled. A CloudOps engineer needs to be able to roll back the DB cluster to a specific recovery point within the previous 72 hours. Restores must be completed in the same production DB cluster. Which solution will meet these requirements?

- A. Use point-in-time recovery to restore the existing DB cluster to the desired recovery point.
- **B. Use backtracking to rewind the existing DB cluster to the desired recovery point.**
- C. Create an AWS Lambda function to restore an automatic backup to the existing DB cluster.
- D. Create an Aurora Replica. Promote the replica to replace the primary DB instance.

Answer: B

Explanation:

Comprehensive Explanation (250-350 words):

Amazon Aurora backtracking allows a DB cluster to be rewound to a specific point in time without creating a new DB cluster. This feature is designed for fast recovery from logical errors, such as accidental data changes, within a configured backtrack window. Because backtracking operates directly on the existing cluster, it satisfies the requirement that the restore occur in the same production DB cluster.

Point-in-time recovery (Option D) restores data by creating a new DB cluster, which violates the requirement. Option A involves promoting a replica, which does not allow rolling back to an arbitrary historical point. Option B introduces unnecessary complexity and is not supported for restoring directly into the same cluster.

Backtracking provides near-instant rollback and minimal operational disruption, making it the correct solution.

NEW QUESTION # 141

A company runs several production workloads on Amazon EC2 instances. A SysOps administrator discovered that a production EC2 instance failed a system health check. The SysOps administrator recovered the instance manually. The SysOps administrator wants to automate the recovery task of EC2 instances and receive notifications whenever a system health check fails. Detailed monitoring is activated for all of the company's production EC2 instances. Which of the following is the MOST operationally efficient solution that meets these requirements?

- A. On each production EC2 instance, create a script that sends network pings to a highly available endpoint by way of a cron job. If the script detects a network response timeout, invoke a command to reboot the EC2 instance.
- **B. For each production EC2 instance, create an Amazon CloudWatch alarm for Status Check Failed: System. Set the alarm action to recover the EC2 instance. Configure the alarm notification to be published to an Amazon Simple Notification Service (Amazon SNS) topic.**

- C. On each production EC2 instance, create a script that monitors the system health by sending a heartbeat notification every minute to a central monitoring server. If an EC2 instance fails to send a heartbeat, run a script on the monitoring server to stop and start the EC2 instance and to publish a notification to an Amazon Simple Notification Service (Amazon SNS) topic.
- D. On each production EC2 instance, configure an Amazon CloudWatch agent to collect and send logs to a log group in Amazon CloudWatch Logs. Create a CloudWatch alarm that is based on a metric filter that tracks errors. Configure the alarm to invoke an AWS Lambda function to reboot the EC2 instance and send a notification email.

Answer: B

Explanation:

EC2 status checks run every minute and expose a System check metric that indicates hardware or system-level impairment. CloudWatch alarms can trigger on Status Check Failed: System and automatically recover the instance (or take a defined action) without manual intervention, satisfying both the automatic recovery and alerting requirements. This approach minimizes manual steps and scales across many instances, leveraging built-in AWS health signals and standard notification channels. It is also consistent with AWS guidance on using CloudWatch alarms to recover impaired instances and to notify via SNS.

NEW QUESTION # 142

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