

# Quiz 2026 The Best Amazon SOA-C03: Examcollection

## AWS Certified CloudOps Engineer - Associate Questions

### Answers



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### Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Monitoring, Logging, Analysis, Remediation, and Performance Optimization: This section of the exam measures skills of CloudOps Engineers and covers implementing AWS monitoring tools such as CloudWatch, CloudTrail, and Prometheus. It evaluates configuring alarms, dashboards, and notifications, analyzing performance metrics, troubleshooting issues using EventBridge and Systems Manager, and applying strategies to optimize compute, storage, and database performance.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Deployment, Provisioning, and Automation: This section measures the skills of Cloud Engineers and covers provisioning and maintaining cloud resources using AWS CloudFormation, CDK, and third-party tools. It evaluates automation of deployments, remediation of resource issues, and managing infrastructure using Systems Manager and event-driven processes like Lambda or S3 notifications.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Reliability and Business Continuity: This section measures the skills of System Administrators and focuses on maintaining scalability, elasticity, and fault tolerance. It includes configuring load balancing, auto scaling, Multi-AZ deployments, implementing backup and restore strategies with AWS Backup and versioning, and ensuring disaster recovery to meet RTO and RPO goals.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Security and Compliance: This section measures skills of Security Engineers and includes implementing IAM policies, roles, MFA, and access controls. It focuses on troubleshooting access issues, enforcing compliance, securing data at rest and in transit using AWS KMS and ACM, protecting secrets, and applying findings from Security Hub, GuardDuty, and Inspector.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>Networking and Content Delivery: This section measures skills of Cloud Network Engineers and focuses on VPC configuration, subnets, routing, network ACLs, and gateways. It includes optimizing network cost and performance, configuring DNS with Route 53, using CloudFront and Global Accelerator for content delivery, and troubleshooting network and hybrid connectivity using logs and monitoring tools.</li></ul>

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### Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q97-Q102):

#### NEW QUESTION # 97

A company's reporting job that used to run in 15 minutes is now taking an hour to run. An application generates the reports. The application runs on Amazon EC2 instances and extracts data from an Amazon RDS for MySQL database.

A CloudOps engineer checks the Amazon CloudWatch dashboard for the RDS instance and notices that the Read IOPS metrics are high, even when the reports are not running. The CloudOps engineer needs to improve the performance and the availability of the RDS instance.

Which solution will meet these requirements?

- **A. Deploy an RDS read replica. Update the reporting job to query the reader endpoint.**
- B. Increase the size of the RDS instance.
- C. Configure an Amazon ElastiCache cluster in front of the RDS instance. Update the reporting job to query the ElastiCache cluster.
- D. Create an Amazon CloudFront distribution. Set the RDS instance as the origin. Update the reporting job to query the CloudFront distribution.

**Answer: A**

Explanation:

A read replica offloads read traffic from the primary RDS instance to a separate replica, improving both performance (by reducing read load and IOPS on the primary) and availability (the replica can also be promoted in a failure scenario). Pointing the reporting job to the reader endpoint ensures that heavy reporting reads no longer compete with the primary's transactional workload, reducing query latency and speeding up the reports.

#### NEW QUESTION # 98

A CloudOps engineer needs to set up alerting and remediation for a web application. The application consists of Amazon EC2 instances that have AWS Systems Manager Agent (SSM Agent) installed. Each EC2 instance runs a custom web server. The EC2 instances run behind a load balancer and write logs locally.

The CloudOps engineer must implement a solution that restarts the web server software automatically if specific web errors are detected in the logs.

Which combination of steps will meet these requirements? (Select THREE.)

- A. Create an Amazon Simple Notification Service (Amazon SNS) notification that responds to the alarm. Configure the notification to invoke an AWS Systems Manager Automation runbook to restart the web server software.
- **B. Create an Amazon CloudWatch metric filter for the web logs. Configure an alarm for the specific errors.**
- C. Create an AWS CloudTrail metric filter for the web logs. Configure an alarm for the specific errors.
- **D. Create an Amazon EventBridge rule that responds to the alarm. Configure the rule to invoke an AWS Systems Manager Automation runbook to restart the web server software.**
- **E. Install the Amazon CloudWatch agent on the EC2 instances.**
- F. Publish alarm findings to Amazon Simple Email Service (Amazon SES). Invoke an AWS Lambda function to restart the web server software.

**Answer: B,D,E**

Explanation:

Per the AWS Cloud Operations, Monitoring, and Automation documentation, the correct workflow for automated operational remediation is:

Amazon CloudWatch Agent is installed on each EC2 instance (Option A) to collect local log data and push it to Amazon CloudWatch Logs.

A CloudWatch Metric Filter (Option C) is then defined to identify specific error strings or patterns within those logs (e.g., "HTTP 5xx" or "Service Unavailable"). When such an event occurs, CloudWatch Alarms are triggered.

Upon alarm activation, Amazon EventBridge rules (Option E) are configured to respond automatically by invoking an AWS Systems Manager Automation runbook, which executes an action to restart the web server process on the affected instance via SSM Agent. This approach aligns directly with AWS's recommended CloudOps remediation pattern, known as event-driven automation, which ensures minimal downtime and eliminates manual intervention.

Options involving CloudTrail (B) or SES notifications (D) are incorrect because they are unrelated to log-based application monitoring and automated remediation workflows.

Reference: AWS Cloud Operations & Systems Manager Guide - Section: Automated Remediation using CloudWatch, EventBridge, and Systems Manager Automation

### NEW QUESTION # 99

A CloudOps engineer needs to track the costs of data transfer between AWS Regions. The CloudOps engineer must implement a solution to send alerts to an email distribution list when transfer costs reach 75% of a specific threshold.

What should the CloudOps engineer do to meet these requirements?

- A. Create an AWS Cost and Usage Report. Analyze the results in Amazon Athena. Configure an alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic when costs reach 75% of the threshold. Subscribe the email distribution list to the topic.
- **B. Use AWS Budgets to create a cost budget for data transfer costs. Set an alert at 75% of the budgeted amount. Configure the budget to send a notification to the email distribution list when costs reach 75% of the threshold.**
- C. Set up a VPC flow log. Set up a subscription filter to an AWS Lambda function to analyze data transfer. Configure the Lambda function to send a notification to the email distribution list when costs reach 75% of the threshold.
- D. Create an Amazon CloudWatch billing alarm to detect when costs reach 75% of the threshold. Configure the alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the email distribution list to the topic.

**Answer: B**

Explanation:

According to the AWS Cloud Operations and Cost Management documentation, AWS Budgets is the recommended service to track and alert on cost thresholds across all AWS accounts and resources. It allows users to define cost, usage, or reservation budgets, and configure notifications to trigger when usage or cost reaches defined percentages of the budgeted value (e.g., 75%, 90%, 100%).

The AWS Budgets system integrates natively with Amazon Simple Notification Service (SNS) to deliver alerts to an email distribution list or SNS topic subscribers. AWS Budgets supports granular cost filters, including specific service categories such as data transfer, regions, or linked accounts, ensuring precise visibility into inter-Region transfer costs.

By contrast, CloudWatch billing alarms (Option B) monitor total account charges only and do not allow detailed service-level filtering, such as data transfer between Regions. Cost and Usage Reports (Option A) are for detailed cost analysis, not real-time alerting, and VPC Flow Logs (Option D) capture traffic data, not billing or cost-based metrics.

Thus, using AWS Budgets with a 75% alert threshold best satisfies the operational and notification requirements.

Reference: AWS CloudOps and Cost Management Guide - Section: AWS Budgets for Cost Monitoring and Alerts

### NEW QUESTION # 100

A CloudOps engineer must manage the security of an AWS account. Recently, an IAM user's access key was mistakenly uploaded to a public code repository. The engineer must identify everything that was changed using this compromised key.

How should the CloudOps engineer meet these requirements?

- A. Search VPC Flow Logs for all events initiated with the compromised access key within the suspected timeframe.
- B. Query Amazon EC2 logs by using Amazon CloudWatch Logs Insights for all events initiated with the compromised access key within the suspected timeframe.
- **C. Search AWS CloudTrail event history for all events initiated with the compromised access key within the suspected**

timeframe.

- D. Create an Amazon EventBridge rule to send all IAM events to an AWS Lambda function for analysis.

**Answer: C**

Explanation:

According to the AWS Cloud Operations and Security documentation, AWS CloudTrail is the authoritative service for recording API activity across all AWS services within an account.

When an access key is compromised, CloudTrail logs all API requests made using that key, including details such as:

The user identity (access key ID) that made the request,

The service, operation, resource, and timestamp affected, and

The source IP address and region of the request.

By searching the CloudTrail event history for the specific access key ID, the CloudOps engineer can identify every action performed by that key during the suspected breach window.

### NEW QUESTION # 101

A company with millions of subscribers needs to automatically send notifications every Saturday. The company already uses Amazon SNS to send messages but has historically sent them manually.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. Launch a new Amazon EC2 instance. Configure a cron job to use the AWS SDK to send an SNS notification to subscribers every Saturday.
- **B. Create a rule in Amazon EventBridge that triggers every Saturday. Configure the rule to publish a notification to an SNS topic.**
- C. Use AWS Step Functions scheduling to run a step every Saturday. Configure the step to publish a message to an SNS topic.
- D. Create an SNS subscription to a message fanout that sends notifications to subscribers every Saturday.

**Answer: B**

Explanation:

Per the AWS Cloud Operations and Event Management documentation, Amazon EventBridge provides native scheduling capabilities that can trigger events at defined intervals-such as weekly, daily, or cron- based schedules.

Creating an EventBridge rule that runs every Saturday and publishes a message to an SNS topic fully automates the notification process without maintaining servers or manual jobs. This approach is serverless, highly reliable, and fully managed by AWS.

By contrast:

\* EC2 cron jobs (Option A) require instance management, patching, and cost overhead.

\* SNS subscriptions (Option C) handle message delivery, not scheduling.

\* Step Functions (Option D) are designed for complex workflows, not simple scheduled triggers.

Thus, Option B provides the most operationally efficient CloudOps solution by integrating EventBridge scheduled events with SNS topics for automated, recurring notifications.

Reference: AWS Cloud Operations & Event Automation Guide - Scheduling Tasks and Notifications Using EventBridge and SNS

### NEW QUESTION # 102

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