

# Exam SOA-C03 Vce - SOA-C03 Sample Questions 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 SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<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>
Topic 2	<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 3	<ul style="list-style-type: none"> <li>• <b>Reliability and Business Continuity:</b> 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>• <b>Deployment, Provisioning, and Automation:</b> 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 5	<ul style="list-style-type: none"> <li>• <b>Monitoring, Logging, Analysis, Remediation, and Performance Optimization:</b> 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>

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## Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q101-Q106):

### NEW QUESTION # 101

A company's application is hosted by an internet provider at `app.example.com`. The company wants to access the application by using `www.company.com`, which the company owns and manages with Amazon Route 53.

Which Route 53 record should be created to address this requirement?

- **A. CNAME record**
- B. Alias record
- C. Pointer (PTR) record
- D. A record

**Answer: A**

Explanation:

When mapping one domain name to another domain name that is hosted outside AWS, a CNAME record is the correct DNS record type. CNAME records map an alias name (`www.company.com`) to a canonical domain name (`app.example.com`). Alias records cannot be used to point to non-AWS resources. A and PTR records map IP addresses, not domain names, and are therefore not appropriate.

Because `www.company.com` is not the zone apex, a CNAME record is valid and supported. This solution requires no additional infrastructure and is the standard DNS approach for this scenario.

### NEW QUESTION # 102

A company has an application running on EC2 that stores data in an Amazon RDS for MySQL Single-AZ DB instance. The application requires both read and write operations, and the company needs failover capability with minimal downtime.

Which solution will meet these requirements?

- A. Use RDS Proxy to configure a proxy in front of the DB instance.
- B. Add the DB instance to an Auto Scaling group that has a minimum capacity of 2 and a desired capacity of 2.
- **C. Modify the DB instance to be a Multi-AZ DB instance deployment.**
- D. Add a read replica in the same Availability Zone where the DB instance is deployed.

**Answer: C**

Explanation:

According to the AWS Cloud Operations and Database Reliability documentation, Amazon RDS Multi-AZ deployments provide high availability and automatic failover by maintaining a synchronous standby replica in a different Availability Zone.

In the event of instance failure, planned maintenance, or Availability Zone outage, Amazon RDS automatically promotes the standby to primary with minimal downtime (typically less than 60 seconds). The failover is transparent to applications because the DB endpoint remains the same.

By contrast, read replicas (Option B) are asynchronous and do not provide automated failover. Auto Scaling (Option C) applies to EC2, not RDS. RDS Proxy (Option D) improves connection management but does not add redundancy.

Thus, Option A - converting the RDS instance into a Multi-AZ deployment - delivers the required high availability and business continuity with minimal operational effort.

Reference: AWS Cloud Operations & Database Continuity Guide - Implementing Multi-AZ Deployments for Automatic RDS Failover

### NEW QUESTION # 103

A CloudOps engineer configures an application to run on Amazon EC2 instances behind an Application Load Balancer (ALB) in a simple scaling Auto Scaling group with the default settings.

The Auto Scaling group is configured to use the RequestCountPerTarget metric for scaling. The CloudOps engineer notices that the RequestCountPerTarget metric exceeded the specified limit twice in 180 seconds.

How will the number of EC2 instances in this Auto Scaling group be affected in this scenario?

- A. The Auto Scaling group will send an alert to the ALB to rebalance the traffic and not add new EC2 instances until the load is normalized.
- **B. The Auto Scaling group will launch one EC2 instance and will wait for the default cooldown period before launching another instance.**
- C. The Auto Scaling group will launch an additional EC2 instance every time the RequestCountPerTarget metric exceeds the predefined limit.
- D. The Auto Scaling group will try to distribute the traffic among all EC2 instances before launching another instance.

**Answer: B**

Explanation:

With simple scaling policies, an Auto Scaling group performs one scaling activity when the alarm condition is met, then observes a default cooldown period (300 seconds) before another scaling activity of the same type can begin. CloudOps guidance explains that cooldown prevents rapid successive scale-outs by allowing time for the newly launched instance(s) to register with the load balancer and impact the metric. Even if the alarm breaches multiple times during the cooldown window, the group waits until the cooldown completes before evaluating and acting again. In this case, although RequestCountPerTarget exceeded the threshold twice within 180 seconds, the group will launch a single instance and then wait for cooldown before any additional scale-out can occur. Options A, C, and D do not reflect the behavior of simple scaling with cooldowns; A describes step/target-tracking-like behavior, and C/D are not Auto Scaling mechanics.

### NEW QUESTION # 104

A CloudOps engineer needs to ensure that AWS resources across multiple AWS accounts are tagged consistently. The company uses an organization in AWS Organizations to centrally manage the accounts. The company wants to implement cost allocation tags to accurately track the costs that are allocated to each business unit.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Configure AWS CloudTrail events to invoke an AWS Lambda function to detect untagged resources and to automatically assign tags based on predefined rules.
- B. Use AWS Config to evaluate tagging compliance. Use AWS Budgets to apply tags for cost allocation.
- C. Use AWS Service Catalog to provision only pre-tagged resources. Use AWS Trusted Advisor to enforce tagging across the organization.
- **D. Use Organizations tag policies to enforce mandatory tagging on all resources. Enable cost allocation tags in the AWS**

## Billing and Cost Management console.

**Answer: D**

Explanation:

Tagging is essential for governance, cost management, and automation in CloudOps operations. The AWS Organizations tag policies feature allows centralized definition and enforcement of required tag keys and accepted values across all accounts in an organization. According to the AWS CloudOps study guide under Deployment, Provisioning, and Automation, tag policies enable automatic validation of tags, ensuring consistency with minimal manual overhead.

Once tagging consistency is enforced, enabling cost allocation tags in the AWS Billing and Cost Management console allows accurate cost distribution per business unit. AWS documentation states:

"Use AWS Organizations tag policies to standardize tags across accounts. You can activate cost allocation tags in the Billing console to track and allocate costs." Option B introduces unnecessary complexity with Lambda automation. Option C detects but does not enforce tagging. Option D limits flexibility to Service Catalog resources only. Therefore, Option A provides a centrally managed, automated, and low-overhead solution that meets CloudOps tagging and cost-tracking requirements.

References:\* AWS Certified CloudOps Engineer - Associate (SOA-C03) Exam Guide - Domain 3:

Deployment, Provisioning and Automation\* AWS Organizations - Tag Policies\* AWS Billing and Cost Management - Cost Allocation Tags\* AWS Well-Architected Framework - Operational Excellence and Cost Optimization Pillars

## NEW QUESTION # 105

A company's website runs on an Amazon EC2 Linux instance. The website needs to serve PDF files from an Amazon S3 bucket. All public access to the S3 bucket is blocked at the account level. The company needs to allow website users to download the PDF files.

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

- A. Create an IAM role that has a policy that allows s3:list\* and s3:get\* permissions. Assign the role to the EC2 instance. Assign a company employee to download requested PDF files to the EC2 instance and deliver the files to website users. Create an AWS Lambda function to periodically delete local files.
- B. Change the S3 bucket permissions to allow public access on the source S3 bucket. Assign a company employee to provide a PDF file URL to users when users request the PDF files.
- C. Deploy an EC2 instance that has an IAM instance profile to a public subnet. Use a signed URL from the EC2 instance to provide temporary access to the S3 bucket for website users.
- D. Create an Amazon CloudFront distribution that uses an origin access control (OAC) that points to the S3 bucket. Apply a bucket policy to the bucket to allow connections from the CloudFront distribution. Assign a company employee to provide a download URL that contains the distribution URL and the object path to users when users request PDF files.

**Answer: D**

Explanation:

Per the AWS Cloud Operations, Networking, and Security documentation, the best practice for serving private S3 content securely to end users is to use Amazon CloudFront with Origin Access Control (OAC).

OAC enables CloudFront to access S3 buckets privately, even when Block Public Access settings are enabled at the account level. This allows content to be delivered globally and securely without making the S3 bucket public. The bucket policy explicitly allows access only from the CloudFront distribution, ensuring that users can retrieve PDF files only via CloudFront URLs.

This configuration offers:

Automatic scalability through CloudFront caching,

Improved security via private access control,

Minimal administration effort with fully managed services.

Other options require manual handling or make the bucket public, violating AWS security best practices.

Therefore, Option B-using CloudFront with Origin Access Control and a restrictive bucket policy-provides the most secure, efficient, and low-maintenance CloudOps solution.

## NEW QUESTION # 106

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