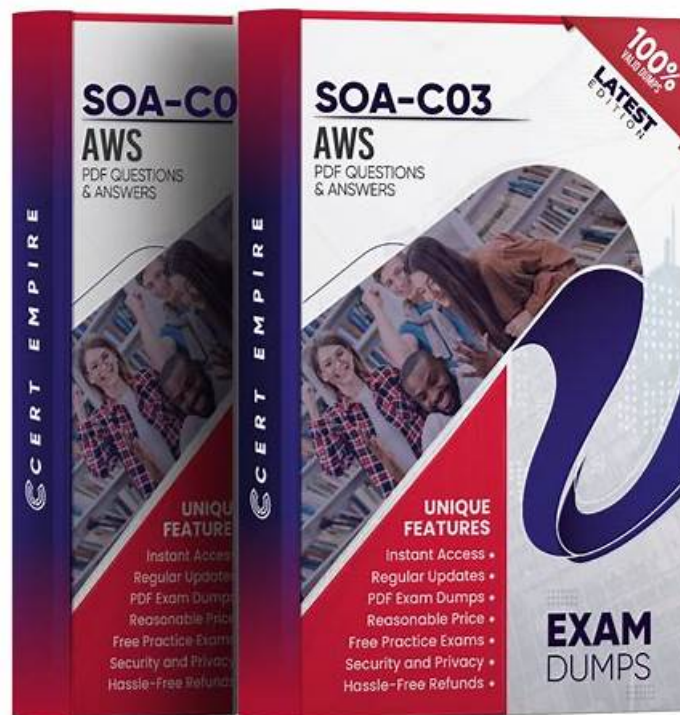


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## New Amazon SOA-C03 Practice Test - Get Ready With SOA-C03 Exam Dumps [2026]

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## Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q74-Q79):

### NEW QUESTION # 74

A company has a stateful web application that is hosted on Amazon EC2 instances in an Auto Scaling group. The instances run behind an Application Load Balancer (ALB) that has a single target group. The ALB is configured as the origin in an Amazon CloudFront distribution. Users are reporting random logouts from the web application. Which combination of actions should a CloudOps engineer take to resolve this problem? (Select TWO.)

- A. Configure header forwarding in the CloudFront distribution cache behavior.
- **B. Enable sticky sessions on the ALB target group.**
- C. Enable group-level stickiness on the ALB listener rule.
- **D. Configure cookie forwarding in the CloudFront distribution cache behavior.**
- E. Change to the least outstanding requests algorithm on the ALB target group.

**Answer: B,D**

Explanation:

Comprehensive Explanation (250-350 words):

Stateful applications require session persistence to ensure that subsequent requests from the same user are routed to the same backend instance. When CloudFront is used in front of an ALB, session-related cookies must be forwarded correctly; otherwise, CloudFront can route requests to different targets, causing session loss and random logouts.

Configuring cookie forwarding in the CloudFront cache behavior ensures that session cookies (such as authentication tokens) are forwarded to the ALB and not stripped or cached incorrectly. Without this configuration, CloudFront may serve cached responses that do not align with the user's active session state, leading to authentication issues.

On the ALB side, sticky sessions (session affinity) must be enabled on the target group to ensure that requests with the same session cookie are consistently routed to the same EC2 instance. ALB stickiness uses application cookies to bind a user session to a specific target, which is critical for stateful applications that store session data in memory.

Option A affects load distribution efficiency but does not address session persistence. Option C (header forwarding) is unnecessary unless the application explicitly stores session state in headers, which is uncommon. Option D applies only when using multiple target groups and listener rules, which is not the case here.

Together, enabling cookie forwarding in CloudFront and sticky sessions at the ALB target group resolves the logout issue by maintaining consistent session routing from the user through CloudFront to the same backend instance.

### NEW QUESTION # 75

A company runs several workloads on AWS. The company identifies five AWS Trusted Advisor service quota metrics to monitor in a specific AWS Region. The company wants to receive email notifications each time resource usage exceeds 60% of one of the service quotas.

Which solution will meet these requirements?

- **A. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metric. Configure an Amazon Simple Notification Service (Amazon SNS) topic for email notification each time that usage exceeds 60% of one of the service quotas.**
- B. Use the AWS Health Dashboard to monitor each Trusted Advisor service quota metric. Configure an Amazon SNS topic for email notification.
- C. Create five Amazon CloudWatch alarms, one for each Trusted Advisor service quota metric. Configure an Amazon Simple Queue Service (Amazon SQS) queue for email notification.
- D. Use the AWS Health Dashboard to monitor each Trusted Advisor service quota metric. Configure an Amazon SQS queue for email notification.

**Answer: A**

Explanation:

Comprehensive Explanation (250-350 words):

AWS Trusted Advisor publishes service quota metrics to Amazon CloudWatch. These metrics can be monitored using CloudWatch alarms, which support threshold-based alerting. By creating a CloudWatch alarm for each service quota metric, the CloudOps engineer can trigger alerts when usage exceeds 60%.

Amazon SNS is the AWS-native service for email notifications. CloudWatch alarms integrate directly with SNS, making this the most straightforward solution. SNS supports email subscriptions without additional infrastructure.

Options B and C incorrectly use SQS for email notifications, which requires additional processing and does not natively send emails.

Option D relies on the AWS Health Dashboard, which does not support configurable threshold-based alerts for service quotas.

Therefore, CloudWatch alarms combined with SNS provide the correct and most efficient solution.

### NEW QUESTION # 76

A company has created a new video-on-demand (VOD) application. The application runs on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The company configured an Amazon CloudFront distribution and set the ALB as the origin. Because of increasing application demand, the company wants to move all video files to a central Amazon S3 bucket. A SysOps administrator needs to ensure that video files can be cached at edge locations after the company migrates the files to Amazon S3.

Which solution will meet this requirement?

- A. Configure CloudFront to send the X-Forwarded-For header to the origin and to redirect video requests to Amazon S3 instead of the ALB.
- **B. Configure a new CloudFront cache behavior to route to Amazon S3 as a new origin, based on matching a URL path pattern.**
- C. Configure URL signing in the CloudFront distribution by using a custom policy. Ensure that video files are accessed through signed URLs only.
- D. Configure a CloudFront origin group. Specify the required HTTP status codes to direct connection attempts to a secondary origin.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of AWS CloudOps Documents:

To ensure video files are cached at CloudFront edge locations after migrating the files to Amazon S3, CloudFront must be able to fetch those video objects directly from S3 as an origin. The most operationally straightforward pattern is to add S3 as a second origin and create a separate cache behavior that routes requests for video paths (for example, /video/\* or \*.mp4) to the S3 origin. With this configuration, CloudFront caches the S3-served objects at edge locations according to the cache policy/headers, while the existing ALB origin continues serving dynamic application paths. This isolates static media delivery from the application tier and improves performance by maximizing cache hits at the edge.

Option A is not how CloudFront origin selection works: CloudFront does not "redirect" to S3 based on headers; it selects an origin per behavior. Option C (signed URLs) is an access-control mechanism and does not, by itself, ensure the objects are retrieved from S3 or cached correctly. Option D (origin groups) is for origin failover (primary/secondary) and does not provide path-based routing to ensure videos come from S3.

References:

Amazon CloudFront Developer Guide - Origins and Cache Behaviors (path pattern routing) Amazon S3 User Guide - Using S3 as an origin for CloudFront AWS SysOps Administrator Study Guide - Content delivery patterns with CloudFront

### NEW QUESTION # 77

A CloudOps engineer is troubleshooting an implementation of Amazon CloudWatch Synthetics. The CloudWatch Synthetics results must be sent to an Amazon S3 bucket.

The CloudOps engineer has copied the configuration of an existing canary that runs on a VPC that has an internet gateway attached. However, the CloudOps engineer cannot get the canary to successfully start on a private VPC that has no internet access.

What should the CloudOps engineer do to successfully run the canary on the private VPC?

- **A. Ensure that the DNS resolution option and the DNS hostnames option are turned on in the VPC. Create an interface VPC endpoint for CloudWatch. Create a gateway VPC endpoint for Amazon S3. Add the permissions to allow CloudWatch Synthetics to use both endpoints.**
- B. Ensure that the DNS resolution option and the DNS hostnames option are turned on in the VPC. Add the synthetics:GetCanaryRuns permission to the VPC. On the S3 bucket, add the IgnorePublicAcls permission to the CloudWatch Synthetics role.
- C. Ensure that the DNS resolution option and the DNS hostnames option are turned off in the VPC. Create a gateway VPC endpoint for Amazon S3. Add the permissions to allow CloudWatch Synthetics to use the S3 endpoint.
- D. Ensure that the DNS resolution option and the DNS hostnames option are turned off in the VPC. Add a security group to the canary to allow outbound traffic on the DNS port. Add the permissions to allow CloudWatch Synthetics to write to the S3 bucket.

**Answer: A**

Explanation:

CloudWatch Synthetics canaries require connectivity to both CloudWatch and Amazon S3 to function correctly. In a private VPC without internet access, AWS service access must be provided through VPC endpoints.

The canary needs to send metrics, logs, and execution data to CloudWatch, which requires an interface VPC endpoint for CloudWatch. It also needs to store artifacts such as screenshots and HAR files in Amazon S3, which requires a gateway VPC endpoint for S3. Without these endpoints, the canary cannot communicate with required AWS services and will fail to start. DNS resolution and DNS hostnames must be enabled so the canary can resolve AWS service endpoints to the private IP addresses exposed by the VPC endpoints. This is a mandatory prerequisite for PrivateLink-based service access. Option B and C incorrectly disable DNS functionality, which breaks service endpoint resolution. Option A includes invalid or irrelevant permissions and does not address private connectivity requirements. Therefore, enabling DNS support and creating both the CloudWatch interface endpoint and the S3 gateway endpoint is the correct and complete solution.

#### NEW QUESTION # 78

A company is storing backups in an Amazon S3 bucket. These backups must not be deleted for at least 3 months after creation. What should the CloudOps engineer do?

- A. Enable S3 Versioning on the existing S3 bucket. Configure S3 Lifecycle rules to protect the backups.
- B. Enable S3 Object Lock on a new S3 bucket in governance mode. Place all backups in the new S3 bucket with a retention period of 3 months.
- **C. Enable S3 Object Lock on a new S3 bucket in compliance mode. Place all backups in the new S3 bucket with a retention period of 3 months.**
- D. Configure an IAM policy that denies the s3:DeleteObject action for all users. Three months after an object is written, remove the policy.

**Answer: C**

Explanation:

Per the AWS Cloud Operations and Data Protection documentation, S3 Object Lock enforces write-once-read-many (WORM) protection on objects for a defined retention period.

There are two modes:

Compliance mode: Even the root user cannot delete or modify objects during the retention period.

Governance mode: Privileged users with special permissions can override lock settings.

For regulatory or audit requirements that prohibit deletion, Compliance mode is the correct choice. When configured with a 3-month retention period, all backup objects are protected from deletion until expiration, ensuring compliance with data retention mandates.

Versioning (Option C) alone does not prevent deletion. IAM-based restrictions (Option A) lack time-based enforcement and require manual intervention. Governance mode (Option D) is less strict and unsuitable for regulatory retention.

Thus, Option B is the correct CloudOps solution for immutable S3 backups.

Reference: AWS Cloud Operations & Storage Governance Guide - Implementing Retention with Amazon S3 Object Lock in Compliance Mode

#### NEW QUESTION # 79

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