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## Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"><li>• <b>Networking and Content Delivery:</b> 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 3	<ul style="list-style-type: none"><li>• <b>Security and Compliance:</b> 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 4	<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 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 (Q82-Q87):

### NEW QUESTION # 82

A SysOps administrator needs to encrypt an existing Amazon Elastic File System (Amazon EFS) file system by using an existing AWS KMS customer managed key.

Which solution will meet these requirements?

- **A. Use Amazon EFS replication to create a new file system. Copy the data and metadata from the existing file system to the new file system. Specify the KMS customer managed key in the replication configuration. When the replication process finishes, fail over to the new encrypted file system.**
- B. Directly modify the file system to use encryption. Specify the KMS customer managed key.
- C. Create a new EFS file system that is encrypted with the KMS customer managed key. Create an Amazon EC2 instance to copy the files. Mount the encrypted file system and unencrypted file system on the instance. Copy all data from the unencrypted file system to the encrypted file system. Unmount the unencrypted file system and remove the temporary instance.
- D. Use Amazon EFS replication to create a new file system. Copy the data and metadata from the existing file system to the new file system. Generate a new TLS certificate. Specify the TLS certificate in the replication configuration. When the replication process finishes, fail over to the new encrypted file system.

**Answer: A**

Explanation:

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

Amazon EFS encryption at rest is a file system creation attribute; an unencrypted EFS file system cannot be "turned on" for encryption in place. Therefore, meeting the requirement ("encrypt an existing EFS using an existing KMS customer managed key") requires creating a new encrypted file system and migrating data.

Option A is the most operationally efficient because EFS replication is a managed mechanism that continuously copies data and metadata from a source file system to a destination file system. By specifying the existing KMS customer managed key for the destination, the new file system is encrypted at rest under the required key. After replication has caught up, the administrator can perform a controlled cutover (failover) so applications mount the encrypted destination instead of the original source. This reduces manual copying effort, supports ongoing synchronization during migration, and simplifies the cutover window.

Option B is not possible because encryption-at-rest settings for EFS cannot be modified after creation. Option C is irrelevant because TLS certificates relate to encryption in transit and are not configured as part of EFS replication in the manner described.

Option D can work functionally, but it requires building and operating a copy workflow, which is more manual and error-prone than managed replication.

References:

Amazon EFS User Guide - Encryption at rest behavior and limitations

Amazon EFS User Guide - Replication concepts and destination encryption AWS SysOps Administrator Study Guide - Data protection and migration patterns

**NEW QUESTION # 83**

A company has a non-production application that runs on an Amazon EC2 instance. The Amazon CloudWatch agent is installed on the EC2 instance. The application includes a process that randomly overuses temporary disk space and fills disks to 100% capacity. A CloudOps engineer needs to automate a reboot of the EC2 instance after the disks reach 100% capacity.

Which solution will meet this requirement in the MOST operationally efficient way?

- **A. Create a CloudWatch alarm for the EC2 instance. Create an Amazon EventBridge event rule that reacts to the CloudWatch alarm and reboots the EC2 instance.**
- B. Create an AWS Lambda function to reboot the EC2 instance. Use EC2 health checks to invoke the Lambda function.
- C. Create a CloudWatch alarm for the EC2 instance. Create an Amazon SES notification that reacts to the CloudWatch alarm and reboots the EC2 instance.
- D. Create an AWS Lambda function to reboot the EC2 instance. Create a CloudWatch alarm that uses Amazon EventBridge to invoke the Lambda function.

**Answer: A**

Explanation:

The CloudWatch agent can publish custom disk usage metrics from the EC2 instance. A CloudWatch alarm can monitor the disk usage metric and enter the ALARM state when disk usage reaches 100%. The most operationally efficient approach is to connect the alarm state change to an Amazon EventBridge rule and use the rule to trigger an EC2 reboot action. This avoids custom polling and reduces manual intervention. Option B is wrong because Amazon SES sends email and does not reboot EC2 instances. Option C can work, but it adds unnecessary Lambda code and maintenance when EventBridge can directly react to CloudWatch alarm state changes. Option D is wrong because EC2 health checks do not detect application-level temporary disk exhaustion in this way. Therefore, CloudWatch alarm plus EventBridge automation is the cleanest CloudOps solution.

**NEW QUESTION # 84**

A company's CloudOps engineer deploys four new Amazon EC2 instances by using the standard Amazon Linux Amazon Machine Image (AMI). The company needs to be able to use AWS Systems Manager to manage the instances. The CloudOps engineer notices that the instances do not appear in the Systems Manager console.

What must the CloudOps engineer do to resolve this issue?

- A. Connect to each instance by using SSH. Install Systems Manager Agent on each instance. Configure Systems Manager Agent to start automatically when the instances start up.
- B. Use AWS Certificate Manager (ACM) to create a TLS certificate. Import the certificate into each instance. Configure Systems Manager Agent to use the TLS certificate for secure communications.
- **C. Attach an IAM instance profile to the instances. Ensure that the instance profile contains the AmazonSSMManagedInstanceCore policy.**
- D. Connect to each instance by using SSH. Create an ssm-user account. Add the ssm-user account to the /etc/sudoers.d directory.

**Answer: C**

Explanation:

Standard Amazon Linux AMIs typically already include the Systems Manager Agent. If instances do not appear as managed nodes in Systems Manager, the most common missing requirement is the instance profile permissions that allow the SSM Agent to communicate with Systems Manager service endpoints. The AWS managed policy AmazonSSMManagedInstanceCore grants the required permissions for core Systems Manager functionality. Option A is unnecessary because the standard Amazon Linux AMI already includes SSM Agent in most supported versions. Option B is irrelevant; ACM certificates are not required for SSM Agent registration. Option C is also wrong because the ssm-user account is created and managed by Session Manager when needed; manually creating it does not register the instance. Therefore, attach an IAM instance profile with AmazonSSMManagedInstanceCore.

### NEW QUESTION # 85

A company runs a web application on three Amazon EC2 instances behind an Application Load Balancer (ALB). The company notices that random periods of increased traffic cause a degradation in the application's performance.

A CloudOps engineer must scale the application to meet the increased traffic.

Which solution meets these requirements?

- A. Create an Amazon CloudWatch alarm to monitor application latency and increase the size of each EC2 instance if the desired threshold is reached.
- B. Deploy the application to an Auto Scaling group of EC2 instances with a scheduled scaling policy. Attach the ALB to the Auto Scaling group.
- **C. Deploy the application to an Auto Scaling group of EC2 instances with a target tracking scaling policy. Attach the ALB to the Auto Scaling group.**
- D. Create an Amazon EventBridge rule to monitor application latency and add an EC2 instance to the ALB if the desired threshold is reached.

**Answer: C**

Explanation:

Auto Scaling groups with target tracking scaling policies automatically adjust capacity based on real-time demand. This solution is ideal for handling unpredictable and random traffic spikes.

Target tracking scaling maintains a metric, such as average CPU utilization or request count per target, at a defined target value. The Auto Scaling group automatically launches or terminates instances as traffic fluctuates.

Manual scaling, EventBridge-based scaling, or scheduled scaling do not respond dynamically to random traffic patterns.

Therefore, an Auto Scaling group with a target tracking scaling policy is the correct solution.

### NEW QUESTION # 86

A CloudOps engineer is configuring an Amazon CloudFront distribution to use an SSL/TLS certificate. The CloudOps engineer must ensure automatic certificate renewal.

Which combination of steps will meet this requirement? (Select TWO.)

- A. Configure CloudFront to automatically renew the certificate when the certificate expires.
- **B. Configure DNS validation for the certificate.**
- C. Use a certificate issued by a third-party certificate authority (CA).
- **D. Use a certificate issued by AWS Certificate Manager (ACM).**
- E. Configure email validation for the certificate.

**Answer: B,D**

Explanation:

The AWS Cloud Operations and Security documentation specifies that for Amazon CloudFront, automatic certificate renewal is only supported for certificates issued by AWS Certificate Manager (ACM). When a certificate is managed by ACM and validated through DNS validation, ACM automatically renews the certificate before expiration without requiring manual intervention.

Option A ensures that the certificate is issued and managed by ACM, enabling full integration with CloudFront. Option E (DNS validation) is essential for automation; AWS performs revalidation automatically as long as the DNS validation record remains in place.

By contrast, email validation (Option D) requires manual user confirmation upon renewal, which prevents automatic renewals.

Certificates issued by third-party certificate authorities (Option B) are manually managed and must be reimported into ACM after renewal. CloudFront does not have a direct feature (Option C) to renew certificates; it relies on ACM's lifecycle management.

Thus, combining ACM-issued certificates (A) with DNS validation (E) ensures continuous, automated renewal with no downtime or human action required.

### NEW QUESTION # 87

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