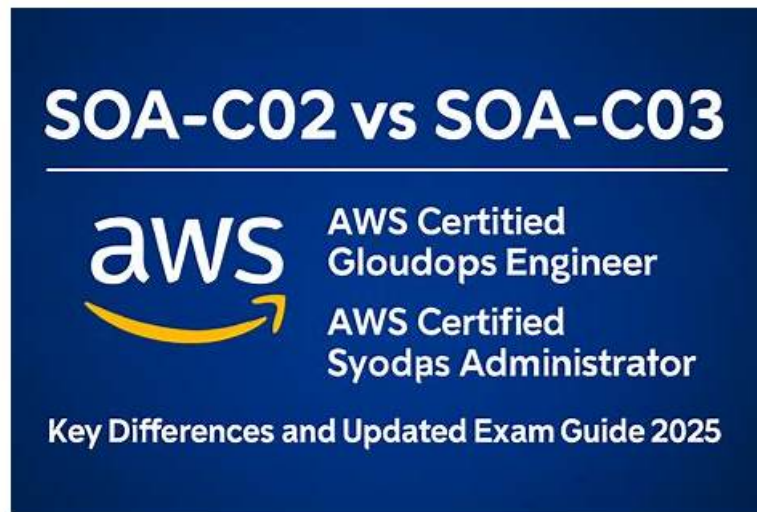


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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • 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.
Topic 2	<ul style="list-style-type: none"> • 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.
Topic 3	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • 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.

Topic 5	<ul style="list-style-type: none"> • 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.
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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q153-Q158):

NEW QUESTION # 153

A CloudOps engineer has an Amazon ECS service that runs a transaction processing application. The CloudOps engineer needs to deploy a new feature on the ECS service. The feature cannot have downtime during deployment. The feature must also have the ability to run an immediate one-step rollback if a performance-degrading bug is detected.

Which solution will meet these requirements?

- A. Configure the ECS service with a minimum healthy percentage of 100%. Use the default rolling update deployment type.
- B. Set the ECS service 's desired count to double the current size. Manually terminate the old tasks after the new tasks are registered.
- **C. Implement a blue/green deployment by using AWS CodeDeploy.**
- D. Configure a canary deployment by using an AWS CodeDeploy linear traffic shift with a 10% increment over 10 minutes.

Answer: C

Explanation:

Blue/green deployment with AWS CodeDeploy is the correct strategy for Amazon ECS when zero downtime and fast rollback are required. In a blue/green deployment, the current production task set remains active while a new task set is created and validated. Traffic can then be shifted safely to the new version. If the new version causes performance degradation, CodeDeploy can roll back by redirecting traffic to the previous task set. AWS ECS documentation describes blue/green deployment as a method that reduces downtime and risk by running two production environments and validating revisions before routing production traffic. Rolling updates do not provide the same immediate one-step rollback. Canary or linear traffic shifting gradually moves traffic but does not match the requirement for immediate rollback as directly as blue/green. Manual scaling is operationally weak.

NEW QUESTION # 154

A company deploys AWS infrastructure in a VPC that has an internet gateway. The VPC has public subnets and private subnets. An Amazon RDS for MySQL DB instance is deployed in a private subnet. An AWS Lambda function uses the same private subnet and connects to the DB instance to query data.

A developer modifies the Lambda function to require the function to publish messages to an Amazon Simple Queue Service (Amazon SQS) queue. After these changes, the Lambda function times out when it tries to publish messages to the SQS queue.

Which solutions will resolve this issue? (Select TWO.)

- A. Deploy an RDS proxy. Configure the Lambda function to connect to the DB instance through the proxy.
- **B. Create an interface VPC endpoint for Amazon SQS in the VPC.**
- **C. Deploy a NAT gateway. Update the private subnet's route table to route all traffic to the NAT gateway.**
- D. Reconfigure the Lambda function so that the function is not connected to the VPC.
- E. Create a gateway endpoint for Amazon SQS in the VPC.

Answer: B,C

Explanation:

Comprehensive Explanation (250-350 words):

When an AWS Lambda function is configured to run inside a VPC, it loses default internet access. All outbound traffic must be explicitly routed. In this scenario, the Lambda function resides in a private subnet and successfully connects to Amazon RDS, but it times out when attempting to publish messages to Amazon SQS. This indicates a lack of network connectivity to the SQS service endpoint.

There are two valid AWS-supported ways to restore connectivity. The first is to deploy a NAT gateway in a public subnet and update the private subnet route table to send outbound internet-bound traffic (0.0.0.0/0) to the NAT gateway. This allows the Lambda function to reach public AWS service endpoints, including SQS.

The second option is to create an interface VPC endpoint (AWS PrivateLink) for Amazon SQS. This enables private, secure connectivity to SQS directly within the AWS network without traversing the internet.

This approach is often preferred for security-sensitive workloads and removes dependency on NAT gateways.

Option A would break database connectivity because the Lambda function must remain in the VPC to access the private RDS instance. Option B does not address outbound connectivity to SQS. Option E is incorrect because Amazon SQS does not support gateway endpoints; only interface endpoints are supported.

Therefore, deploying a NAT gateway or creating an SQS interface endpoint resolves the timeout issue.

NEW QUESTION # 155

A company runs an application on hundreds of Amazon EC2 instances in three Availability Zones. The application calls a third-party API over the public internet. A CloudOps engineer must provide the third party with a list of static IP addresses so that the third party can allow traffic from the application.

Which solution will meet these requirements?

- A. Allocate one Elastic IP address in each Availability Zone. Associate the Elastic IP address with all the instances in the Availability Zone.
- B. Update the main route table to send the traffic to the internet through an Elastic IP address that is assigned to each instance.
- C. Place the instances behind a Network Load Balancer (NLB). Send the traffic to the internet through the private IP address of the NLB.
- **D. Add a NAT gateway in the public subnet of each Availability Zone. Make the NAT gateway the default route of all private subnets in those Availability Zones.**

Answer: D

Explanation:

A NAT gateway uses an Elastic IP address for outbound internet access from private subnets. By creating one NAT gateway in a public subnet in each Availability Zone and routing private subnet outbound traffic through the NAT gateway in the same Availability Zone, the company gets a small, stable list of public source IP addresses to give to the third party. This is also highly available because each Availability Zone has its own NAT gateway path. Option B is impossible because a single Elastic IP address cannot be associated with hundreds of instances simultaneously. Option C is wrong because Network Load Balancers handle inbound traffic distribution, not outbound internet NAT for API calls. Option D is operationally poor and does not provide a scalable centralized static egress pattern.

NEW QUESTION # 156

A CloudOps engineer has created a VPC that contains a public subnet and a private subnet. Amazon EC2 instances that were launched in the private subnet cannot access the internet. The default network ACL is active on all subnets in the VPC, and all security groups allow outbound traffic.

Which solution will provide the EC2 instances in the private subnet with access to the internet?

- **A. Create a NAT gateway in the public subnet. Create a route from the private subnet to the NAT gateway.**
- B. Create a NAT gateway in the private subnet. Create a route from the public subnet to the NAT gateway.
- C. Create a NAT gateway in the public subnet. Create a route from the public subnet to the NAT gateway.
- D. Create a NAT gateway in the private subnet. Create a route from the private subnet to the NAT gateway.

Answer: A

Explanation:

According to the AWS Cloud Operations and Networking documentation, instances in a private subnet do not have a direct route to the internet gateway and thus require a NAT gateway for outbound internet access.

The correct configuration is to create a NAT gateway in the public subnet, associate an Elastic IP address, and then update the private subnet's route table to send all 0.0.0.0/0 traffic to the NAT gateway. This enables instances in the private subnet to initiate outbound connections while keeping inbound traffic blocked for security.

Placing the NAT gateway inside the private subnet (Options C or D) prevents connectivity because it would not have a route to the internet gateway. Configuring routes from the public subnet to the NAT gateway (Option B) does not serve private subnet traffic.

Hence, Option A follows AWS best practices for enabling secure, managed, outbound-only internet access from private resources. Reference: AWS Cloud Operations & Networking Guide - Section: Providing Internet Access to Private Subnets Using NAT Gateway

NEW QUESTION # 157

A company uses multiple Amazon RDS databases to support an application. The application receives all its traffic during weekdays and is idle during weekends. The company wants a solution to automatically manage the RDS DB instances during idle periods to optimize costs.

Which solution will meet these requirements?

- A. Use a cron job to automatically scale down the RDS DB instance type during weekends.
- B. Purchase Reserved Instances for the RDS DB instances.
- C. Use the auto scaling feature of Amazon RDS to automatically adjust the DB instance type based on CPU utilization.
- **D. Configure Instance Scheduler on AWS to stop the RDS DB instances at the beginning of each weekend and to start the instances at the end of each weekend.**

Answer: D

Explanation:

Comprehensive Explanation (250-350 words):

The Instance Scheduler on AWS is an AWS-provided solution designed specifically to start and stop AWS resources such as Amazon RDS instances on a defined schedule. This directly aligns with the requirement to automatically manage RDS instances during predictable idle periods, such as weekends, to reduce costs.

RDS instances incur compute charges while running, even if idle. Stopping them during weekends eliminates those charges while retaining storage and backups. Instance Scheduler supports tag-based scheduling, centralized management, and automated start/stop workflows without custom scripting.

Option A introduces custom automation and ongoing maintenance overhead. Option C (Reserved Instances) is unsuitable because the databases are idle for long, predictable periods and Reserved Instances charge regardless of usage. Option D is incorrect because RDS does not support auto scaling of DB instance classes based on utilization.

Instance Scheduler is the most cost-effective and operationally efficient solution for this use case.

NEW QUESTION # 158

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