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>> SOA-C03 Exam Outline <<

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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details

Topic 1	<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.
Topic 2	<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 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"> • 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 5	<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.

Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q159-Q164):

NEW QUESTION # 159

A company has an internal web application that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group in a single Availability Zone. A CloudOps engineer must make the application highly available.

Which action should the CloudOps engineer take to meet this requirement?

- A. Increase the minimum number of instances in the Auto Scaling group to meet the capacity that is required at peak usage.
- **B. Update the Auto Scaling group to launch new instances in a second Availability Zone in the same AWS Region.**
- C. Increase the maximum number of instances in the Auto Scaling group to meet the capacity that is required at peak usage.
- D. Update the Auto Scaling group to launch new instances in an Availability Zone in a second AWS Region.

Answer: B

Explanation:

High availability within AWS is achieved by distributing resources across multiple Availability Zones in the same Region. By updating the Auto Scaling group to span at least two Availability Zones, the application can continue serving traffic even if one zone becomes unavailable. This configuration works seamlessly with the Application Load Balancer, which automatically routes traffic only to healthy instances across those zones.

NEW QUESTION # 160

A company runs an application on Amazon EC2 that connects to an Amazon Aurora PostgreSQL database. A developer accidentally drops a table from the database, causing application errors.

Two hours later, a CloudOps engineer needs to recover the data and make the application functional again.

Which solution will meet this requirement?

- **A. Perform a point-in-time recovery and create a new database to restore the database to a specified point in time, 2 hours in the past. Reconfigure the application to use a new database endpoint.**

- B. Perform a point-in-time recovery on the existing database to restore the database to a specified point in time, 2 hours in the past.
- C. Use the Aurora Backtrack feature to rewind the database to a specified time, 2 hours in the past.
- D. Create a new Aurora cluster. Choose the Restore data from S3 bucket option. Choose log files up to the failure time 2 hours in the past.

Answer: A

Explanation:

In the AWS Cloud Operations and Aurora documentation, when data loss occurs due to human error such as dropped tables, Point-in-Time Recovery (PITR) is the recommended method for restoration. PITR creates a new Aurora cluster restored to a specific time before the failure.

The restored cluster has a new endpoint that must be reconfigured in the application to resume normal operations. AWS does not support performing PITR directly on an existing production database because that would overwrite current data.

Aurora Backtrack (Option A) applies only to Aurora MySQL, not PostgreSQL. Option B is incorrect because PITR cannot be executed in place. Option D refers to an import process from S3, which is unrelated to time-based recovery.

Hence, Option C is correct and follows the AWS CloudOps standard recovery pattern for PostgreSQL workloads.

NEW QUESTION # 161

Application A runs on Amazon EC2 instances behind a Network Load Balancer (NLB). The EC2 instances are in an Auto Scaling group and are in the same subnet that is associated with the NLB. Other applications from an on-premises environment cannot communicate with Application A on port 8080.

To troubleshoot the issue, a CloudOps engineer analyzes the flow logs. The flow logs include the following records:

ACCEPT from 192.168.0.13:59003 172.31.16.139:8080

REJECT from 172.31.16.139:8080 192.168.0.13:59003

What is the reason for the rejected traffic?

- A. The network ACL that is associated with the subnet does not allow outbound traffic for the ephemeral port range.
- B. The security group of the NLB has no Allow rule for the traffic from the on-premises environment.
- C. The ACL of the on-premises environment does not allow traffic to the AWS environment.
- D. The security group of the EC2 instances has no Allow rule for the traffic from the NLB.

Answer: A

Explanation:

VPC Flow Logs show the request arriving and being ACCEPTed on dstport 8080 and the corresponding response being REJECTed on the return path to the client's ephemeral port (59003). AWS networking guidance states that security groups are stateful (return traffic is automatically allowed) while network ACLs are stateless and require explicit inbound and outbound rules for both directions. CloudOps operational guidance for VPC networking further notes that when you allow an inbound request (for example, TCP 8080) through a subnet's network ACL, you must also allow the outbound ephemeral port range (typically 1024-5535) for the response traffic; otherwise, the return packets are dropped and appear as REJECT in flow logs. The observed pattern--request accepted to 8080, response rejected to 59003--matches a missing outbound ephemeral-range allow on the subnet's NACL. Therefore, the cause is the subnet NACL, not security groups or on-premises ACLs. The remediation is to add an outbound ALLOW rule on the NACL for the appropriate ephemeral TCP port range back to the on-premises CIDR (and the corresponding inbound rule if asymmetric).

NEW QUESTION # 162

A medical research company uses an Amazon Bedrock powered AI assistant with agents and knowledge bases to provide physicians quick access to medical study protocols. The company needs to generate audit reports that contain user identities, usage data for Bedrock agents, access data for knowledge bases, and interaction parameters.

Which solution will meet these requirements?

- A. Use AWS CloudTrail to capture generative AI application logs. Stream the logs to Amazon Managed Service for Apache Flink. Use SQL queries to generate reports.
- B. Use Amazon CloudWatch to log API events from generative AI workloads. Send the events to an Amazon S3 bucket. Use Amazon Athena queries to generate reports.
- C. Use AWS CloudTrail to log API events from generative AI workloads. Store the events in CloudTrail Lake. Use SQL-like queries to generate reports.
- D. Use Amazon CloudWatch to capture generative AI application logs. Stream the logs to Amazon OpenSearch Service.

Use an OpenSearch dashboard visualization to generate reports.

Answer: C

Explanation:

As per AWS Cloud Operations, Bedrock, and Governance documentation, AWS CloudTrail is the authoritative service for capturing API activity and audit trails across AWS accounts. For Amazon Bedrock, CloudTrail records all user-initiated API calls, including interactions with agents, knowledge bases, and generative AI model parameters.

Using CloudTrail Lake, organizations can store, query, and analyze CloudTrail events directly without needing to export data. CloudTrail Lake supports SQL-like queries for generating audit and compliance reports, enabling the company to retrieve information such as user identity, API usage, timestamp, model or agent ID, and invocation parameters.

In contrast, CloudWatch focuses on operational metrics and log streaming, not API-level identity data. OpenSearch or Flink would add unnecessary complexity and cost for this use case.

Thus, the AWS-recommended CloudOps best practice is to leverage CloudTrail with CloudTrail Lake to maintain auditable, queryable API activity for Bedrock workloads, fulfilling governance and compliance requirements.

NEW QUESTION # 163

A company moves workloads from public subnets to private subnets to improve security. During testing, servers in the private subnets cannot reach an external API. The VPC has a CIDR block of 10.0.0.0/16, two public subnets, two private subnets, one internet gateway, and a NAT gateway in each private subnet.

The company must ensure that workloads in the private subnets can reach the external API.

Which solution will meet this requirement?

- A. Deploy an outbound-only internet gateway and update route tables.
- B. Create a VPC interface endpoint and update route tables.
- C. Create an Amazon API Gateway HTTP API as a proxy.
- **D. Deploy a NAT gateway in each public subnet and update private subnet route tables.**

Answer: D

Explanation:

For IPv4 traffic, private subnets require a NAT gateway in a public subnet to access the internet. NAT gateways must be deployed in public subnets and associated with an Elastic IP address. Private subnet route tables must direct 0.0.0.0/0 traffic to the NAT gateway.

The question states that NAT gateways are incorrectly placed in private subnets, which cannot provide internet access. Deploying NAT gateways in public subnets resolves this issue and restores outbound connectivity to external APIs.

Option A applies only to IPv6. Option B adds unnecessary complexity. Option D is not applicable because external APIs are not AWS services.

NEW QUESTION # 164

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