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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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">• 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.

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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q107-Q112):

NEW QUESTION # 107

An errant process is known to use an entire processor and run at 100% CPU. A CloudOps engineer wants to automate restarting an Amazon EC2 instance when the problem occurs for more than 2 minutes.

How can this be accomplished?

- A. Create an AWS Lambda function to restart the EC2 instance, invoked on a scheduled basis every 2 minutes.
- B. Create an AWS Lambda function to restart the EC2 instance, invoked by EC2 health checks.
- **C. Create an Amazon CloudWatch alarm for the EC2 instance with detailed monitoring. Add an action to restart the instance.**
- D. Create an Amazon CloudWatch alarm for the EC2 instance with basic monitoring. Add an action to restart the instance.

Answer: C

Explanation:

Comprehensive Explanation (250-350 words):

To detect CPU utilization issues within a 2-minute window, detailed monitoring is required. Basic monitoring publishes metrics at 5-minute intervals, which is too coarse to reliably detect a condition lasting only 2 minutes. Detailed monitoring publishes metrics at 1-minute granularity, allowing precise detection.

Amazon CloudWatch alarms support EC2 reboot actions directly, eliminating the need for custom Lambda functions. This minimizes administrative overhead and leverages native AWS integrations.

Options C and D introduce unnecessary complexity and delay. Option A cannot meet the timing requirement due to metric granularity.

Therefore, using a CloudWatch alarm with detailed monitoring and an EC2 reboot action is the correct solution.

NEW QUESTION # 108

An AWS Lambda function is intermittently failing several times a day. A CloudOps engineer must find out how often this error occurred in the last 7 days.

Which action will meet this requirement in the MOST operationally efficient manner?

- A. Use Amazon OpenSearch Service to stream the Amazon CloudWatch logs for the Lambda function.
- **B. Use Amazon CloudWatch Logs Insights to query the associated Lambda function logs.**
- C. Use Amazon Athena to query the AWS CloudTrail logs that are associated with the Lambda function.
- D. Use Amazon Athena to query the Amazon CloudWatch logs that are associated with the Lambda function.

Answer: B

Explanation:

The AWS Cloud Operations and Monitoring documentation states that Amazon CloudWatch Logs Insights provides a purpose-built query engine for analyzing and visualizing log data directly within CloudWatch. For Lambda, all invocation results (including errors) are automatically logged to CloudWatch Logs.

By querying these logs with CloudWatch Logs Insights, the CloudOps engineer can efficiently count the number of "ERROR" or "Exception" occurrences over the past 7 days using simple SQL-like commands.

This method is serverless, cost-efficient, and real-time.

Athena (Options A and B) would require exporting data to Amazon S3, and OpenSearch (Option D) adds unnecessary operational complexity.

Thus, Option C provides the most efficient and native AWS CloudOps approach for rapid Lambda error analysis.

NEW QUESTION # 109

A company has multiple AWS accounts. A CloudOps engineer uses a sandbox account to create and verify IAM policies for use in a production account. The CloudOps engineer uses AWS CloudFormation to deploy policies to the sandbox account for testing. When tests pass, the CloudOps engineer deploys the policies to production. The CloudOps engineer has configured AWS CloudTrail in both the sandbox account and the production account.

The CloudOps engineer wants to detect any changes to the IAM policies after the policies have been deployed by CloudFormation. The CloudOps engineer must receive notifications for any changes to the policies.

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

- A. Store the IAM policies as a JSON document in an Amazon S3 bucket. Use an AWS Lambda function to periodically compare the IAM policies with the JSON document that is stored in the S3 bucket.
- **B. Create an Amazon EventBridge rule to invoke an AWS Lambda function to check the CloudFormation stack for drift. Configure the function to use Amazon Simple Notification Service (Amazon SNS) to notify the CloudOps engineer if the function detects any drift.**
- C. Configure CloudTrail to send email notifications to the CloudOps engineer when CloudTrail detects changes to the IAM policies.
- D. Use AWS Identity and Access Management Access Analyzer to generate a policy based on CloudTrail activity for the IAM role that is attached to the IAM policies in the production account. Compare the results to the IAM policies that are in the sandbox account. Send a notification to the CloudOps engineer if the policies are different.

Answer: B

Explanation:

CloudFormation drift detection is designed to detect any configuration changes made outside CloudFormation (such as manual edits to IAM policies). By wiring CloudTrail → EventBridge → Lambda → Drift Detection → SNS, you automatically trigger drift checks when relevant changes occur and notify the CloudOps engineer if the actual IAM policies differ from the CloudFormation template. This leverages managed services and avoids building your own comparison logic, providing the least administrative effort among the options.

NEW QUESTION # 110

A finance company stores confidential data in an Amazon S3 bucket. The company uses Amazon Quick Suite, previously known as Amazon QuickSight, to analyze the data and create dashboard reports. The company requires that all data access and connections to Quick Suite remain within the company's VPC network boundary.

Which solution will meet these requirements?

- A. Configure an Amazon S3 VPC gateway endpoint. Route all data from Quick Suite through the endpoint to transfer data. Grant Quick Suite permission to access the S3 bucket.
- B. Configure a NAT gateway in the company's VPC. Route all data from Quick Suite through the NAT gateway to transfer data. Grant Quick Suite permission to access the S3 bucket.
- C. Set up a VPC endpoint for Quick Suite. Use an Amazon EC2 instance as a proxy to establish a direct connection between the VPC and Quick Suite. Create a manifest file that points to the S3 data. Store the manifest on the EC2 instance. Grant Quick Suite permission to access the EC2 instance.
- **D. Create an interface VPC endpoint for Quick Suite. Configure the endpoint to connect to Quick Suite within the VPC by using AWS PrivateLink. Create a manifest file that points to the S3 data. Grant Quick Suite permission to access the S3 bucket.**

Answer: D

Explanation:

The correct design is to use a VPC endpoint/private connectivity model for Quick Suite access and grant the service controlled access to the S3 source data. The requirement is not only to access S3 privately; it says all data access and connections to Quick Suite must remain within the VPC network boundary. Option A best satisfies that by using an interface VPC endpoint with AWS PrivateLink for private service connectivity and a manifest that points Quick Suite to the S3 data. Option C covers only private access to S3 through a gateway endpoint, but it does not address private connectivity to Quick Suite itself. Option D sends traffic through a NAT gateway, which still uses public internet egress semantics. Option B adds an unnecessary EC2 proxy and increases operational risk.

NEW QUESTION # 111

A CloudOps engineer creates a new VPC that includes a public subnet and a private subnet. The CloudOps engineer successfully launches 11 Amazon EC2 instances in the private subnet. The CloudOps engineer attempts to launch one more EC2 instance in the same subnet but receives an error stating that not enough free IP addresses are available.

What must the CloudOps engineer do to deploy more EC2 instances?

- A. Edit the private subnet to extend across a second Availability Zone.
- B. Assign additional Elastic IP addresses to the private subnet.
- **C. Create a new private subnet to hold the required EC2 instances.**
- D. Edit the private subnet to change the CIDR block to /27.

Answer: C

Explanation:

Comprehensive Explanation (250-350 words):

Each subnet in a VPC has a fixed CIDR range that determines how many private IP addresses are available.

AWS reserves five IP addresses per subnet, reducing the usable address count. Once the available IP addresses are exhausted, no more instances can be launched in that subnet.

AWS does not allow changing the CIDR block of an existing subnet. Therefore, Option A is invalid. Option B does not increase the number of IP addresses; Availability Zones are properties of subnets, not expansions of their CIDR ranges. Option C is incorrect because Elastic IP addresses are public IPs and do not increase the number of private IP addresses available in a subnet.

The only viable solution is to create a new subnet with a larger or additional CIDR range and deploy additional EC2 instances there. This approach aligns with AWS VPC design principles and is the standard method for handling IP exhaustion.

NEW QUESTION # 112

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