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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"> • 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 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"> • 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 (Q142-Q147):

NEW QUESTION # 142

A company has a new security policy that requires all Amazon Elastic Block Store (Amazon EBS) volumes to be encrypted at rest. The company needs to use a custom key policy to manage access to the encryption keys.

The company must rotate the keys once each year.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create AWS KMS symmetric customer managed keys by using imported key material. Rotate the keys on a yearly basis.
- B. Create AWS KMS asymmetric customer managed keys. Enable automatic key rotation.
- C. Create AWS KMS symmetric customer managed keys. Enable automatic key rotation.
- D. Use AWS owned AWS KMS keys across the company's AWS environment.

Answer: C

Explanation:

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

The correct answer is A because AWS KMS symmetric customer managed keys with automatic key rotation provide encryption, access control, and compliance with minimal operational effort. AWS CloudOps documentation states that Amazon EBS encryption supports AWS KMS symmetric keys only, and customer managed keys allow administrators to define custom key policies to control access.

Automatic key rotation is supported for symmetric customer managed keys and rotates the backing key material once every year, fully satisfying the company's rotation requirement without manual intervention.

This approach minimizes operational overhead while maintaining strong security controls and auditability.

Option B is incorrect because AWS owned keys do not allow custom key policies and therefore cannot meet the access control requirement. Option C is incorrect because asymmetric KMS keys are not supported for EBS encryption. Option D is incorrect because imported key material requires manual rotation and re-import, increasing operational complexity and risk.

AWS CloudOps security best practices strongly recommend customer managed symmetric keys with automatic rotation when organizations need fine-grained access control, regulatory compliance, and low maintenance overhead.

References:

AWS KMS Developer Guide - Customer Managed Keys and Rotation

Amazon EBS User Guide - Encryption at Rest

AWS SysOps Administrator Study Guide - Security and Key Management

NEW QUESTION # 143

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. Add the synthetics:GetCanaryRuns permission to the VPC. On the S3 bucket, add the IgnorePublicAcls permission to the CloudWatch Synthetics role.
- B. 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.
- C. 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.
- 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: C

Explanation:

When a CloudWatch Synthetics canary runs inside a private VPC, it must access CloudWatch and S3 privately for publishing logs, metrics, and storing results. Because there is no internet access, the canary requires:

- DNS resolution and hostnames enabled for proper endpoint resolution.
- An interface VPC endpoint for CloudWatch, so the canary can communicate with the CloudWatch service privately.
- A gateway VPC endpoint for S3, to allow results to be written to the S3 bucket without internet access.

NEW QUESTION # 144

A company's CloudOps engineer is troubleshooting communication between the components of an application. The company configured VPC flow logs to be published to Amazon CloudWatch Logs. However, there are no logs in CloudWatch Logs.

What could be blocking the VPC flow logs from being published to CloudWatch Logs?

- A. The IAM policy attached to the IAM role for the flow log is missing the logs:CreateLogGroup permission.
- B. The IAM policy attached to the IAM role for the flow log is missing the logs:CreateExportTask permission.
- C. The VPC is peered with another VPC in the AWS account.
- D. The VPC is configured for IPv6 addresses.

Answer: A

Explanation:

VPC Flow Logs require permissions to create log groups and log streams in Amazon CloudWatch Logs. If the IAM role associated with the flow log lacks the logs:CreateLogGroup permission, CloudWatch Logs cannot be created and no logs will appear.

Option B is unrelated because CreateExportTask is used for exporting logs, not publishing them. IPv6 configuration and VPC peering do not prevent flow logs from being delivered.

Ensuring the IAM role has the correct CloudWatch Logs permissions resolves the issue.

NEW QUESTION # 145

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

Answer: C

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 # 146

A company needs to enforce tagging requirements for Amazon DynamoDB tables in its AWS accounts. A CloudOps engineer must implement a solution to identify and remediate all DynamoDB tables that do not have the appropriate tags.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create a custom AWS Lambda function to evaluate and remediate all DynamoDB tables. Create an AWS Config custom rule to invoke the Lambda function.
- B. Create an Amazon EventBridge managed rule to evaluate all DynamoDB tables for the appropriate tags. Configure the EventBridge rule to run an AWS Systems Manager Automation custom runbook for remediation.
- C. Create a custom AWS Lambda function to evaluate and remediate all DynamoDB tables. Create an Amazon EventBridge scheduled rule to invoke the Lambda function.
- **D. Use the required-tags AWS Config managed rule to evaluate all DynamoDB tables for the appropriate tags. Configure an automatic remediation action that uses an AWS Systems Manager Automation custom runbook.**

Answer: D

Explanation:

According to the AWS Cloud Operations, Governance, and Compliance documentation, AWS Config provides managed rules that automatically evaluate resource configurations for compliance. The "required-tags" managed rule allows CloudOps teams to specify mandatory tags (e.g., Environment, Owner, CostCenter) and automatically detect non-compliant resources such as DynamoDB tables.

Furthermore, AWS Config supports automatic remediation through AWS Systems Manager Automation runbooks, enabling correction actions (for example, adding missing tags) without manual intervention. This automation minimizes operational overhead and ensures continuous compliance across multiple accounts.

Using a custom Lambda function (Options A or B) introduces unnecessary management complexity, while EventBridge rules alone (Option D) do not provide resource compliance tracking or historical visibility.

Therefore, Option C provides the most efficient, fully managed, and compliant CloudOps solution.

Reference: AWS Cloud Operations & Governance Guide - Section: Compliance Automation Using AWS Config Managed Rules and Systems Manager Remediation

NEW QUESTION # 147

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