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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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	• 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.

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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q81-Q86):

NEW QUESTION # 81
A financial services company stores customer images in an Amazon S3 bucket in the us-east-1 Region. To comply with regulations, the company must ensure that all existing objects are replicated to an S3 bucket in a second AWS Region. If an object replication fails, the company must be able to retry replication for the object.
What solution will meet these requirements?

- A. Configure Amazon S3 Cross-Region Replication (CRR). Use S3 Replication Time Control (S3 RTC) to replicate existing objects.
- B. Configure Amazon S3 Cross-Region Replication (CRR). Use S3 Batch Replication to replicate existing objects.
- C. Configure Amazon S3 Cross-Region Replication (CRR). Use Amazon S3 live replication to replicate existing objects.
- D. Use S3 Lifecycle rules to move objects to the destination bucket in a second Region.

Answer: B

Explanation:
Per the AWS Cloud Operations and S3 Data Management documentation, Cross-Region Replication (CRR) automatically replicates new objects between S3 buckets across Regions.
However, CRR alone does not retroactively replicate existing objects created before replication configuration. To include such objects, AWS introduced S3 Batch Replication.
S3 Batch Replication scans the source bucket and replicates all existing objects that were not copied previously. Additionally, it can retry failed replication tasks automatically, ensuring regulatory compliance for complete dataset replication.
S3 Replication Time Control (S3 RTC) guarantees predictable replication times for new objects only-- it does not cover previously stored data. S3 Lifecycle rules (Option D) move or transition objects between storage classes or buckets, but not in a replication context.
Therefore, the correct solution is to use S3 Cross-Region Replication (CRR) combined with S3 Batch Replication to ensure all current and future data is synchronized across Regions with retry capability.

NEW QUESTION # 82
A SysOps administrator creates a custom Amazon Machine Image (AMI) in the eu-west-2 Region and uses the AMI to launch Amazon EC2 instances. The SysOps administrator needs to use the same AMI to launch EC2 instances in two other Regions: us-east-1 and us-east-2.
What must the SysOps administrator do to use the custom AMI in the additional Regions?

- A. Copy the AMI to a new Amazon S3 bucket. Assign access permissions to the AMI for the additional Regions
- B. Share the AMI to the additional Regions. Assign the required access permissions.
- C. Copy the AMI to the additional Regions
- D. Make the AMI public in the Community AMIs section of the AWS Management Console

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract of AWS CloudOps Documents:
Amazon Machine Images (AMIs) are Region-specific resources. AWS CloudOps documentation explicitly states that an AMI created in one Region cannot be used to launch instances in another Region unless it is copied to the target Region. Therefore, the SysOps administrator must copy the AMI to both us-east-1 and us- east-2.
The AMI copy process creates a new AMI in each destination Region and automatically copies the underlying snapshots. Once the AMIs exist in the target Regions, they can be referenced in launch templates, Auto Scaling groups, or AWS CloudFormation templates for consistent multi-Region deployments.
Option B is incorrect because making an AMI public does not replicate it across Regions. Option C is incorrect because sharing an AMI only grants account-level access within the same Region. Option D is incorrect because AMIs cannot be launched from Amazon S3 directly.
This approach aligns with AWS CloudOps automation practices for multi-Region application deployment and disaster recovery readiness.
References:
Amazon EC2 User Guide - Copying an AMI across Regions
AWS SysOps Administrator Study Guide - AMI lifecycle management
AWS Well-Architected Framework - Deployment and automation best practices

NEW QUESTION # 83
A company's developers manually install software modules on Amazon EC2 instances to deploy new versions of a service. A security audit finds that instances contain inconsistent and unapproved modules.
A CloudOps engineer must create a new instance image that contains only approved software.
Which solution will meet these requirements?

- A. Use Amazon GuardDuty to create and deploy an Amazon Machine Image (AMI) that includes only the approved modules.
- B. Use Amazon Detective to continuously find and uninstall unauthorized modules from the instances.
- C. Use AWS Systems Manager Run Command to install the approved modules on all running instances during an in-place update.
- D. Use EC2 Image Builder to create and test an Amazon Machine Image (AMI) that includes only the approved modules. Update the deployment workflow to use the new AMI.

Answer: D

Explanation:
According to the AWS Cloud Operations and Deployment documentation, EC2 Image Builder is the AWS-managed service for automating the creation, maintenance, validation, and deployment of secure and compliant Amazon Machine Images (AMIs).
It allows CloudOps teams to define image pipelines that include only approved software modules and configuration scripts. EC2 Image Builder automatically tests and verifies these AMIs for compliance before deployment.
This process ensures configuration consistency, eliminates manual installation errors, and simplifies ongoing patch management. The service integrates with AWS Systems Manager, Amazon Inspector, and AWS CloudFormation for end-to-end automation.
In contrast:
Amazon Detective and GuardDuty (Options A & B) are security monitoring tools, not image management solutions.
Run Command (Option C) applies ad-hoc updates but does not create standard, reusable AMIs.
Therefore, Option D is correct-EC2 Image Builder provides the most operationally efficient and compliant way to create an approved baseline AMI for future deployments.

NEW QUESTION # 84
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 CloudWatch Logs Insights to query the associated Lambda function logs.
- B. Use Amazon Athena to query the Amazon CloudWatch logs that are associated with the Lambda function.
- C. Use Amazon Athena to query the AWS CloudTrail logs that are associated with the Lambda function.
- D. Use Amazon OpenSearch Service to stream the Amazon CloudWatch logs for the Lambda function.

Answer: A

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.
Reference: AWS Cloud Operations & Monitoring Guide - Analyzing Lambda Logs with CloudWatch Logs Insights

NEW QUESTION # 85
A company's ecommerce application is running on Amazon EC2 instances that are behind an Application Load Balancer (ALB). The instances are in an Auto Scaling group. Customers report that the website is occasionally down. When the website is down, it returns an HTTP 500 (server error) status code to customer browsers.
The Auto Scaling group's health check is configured for EC2 status checks, and the instances appear healthy.
Which solution will resolve the problem?

- A. Replace the ALB with a Network Load Balancer.
- B. Install the Amazon CloudWatch agent on all instances. Configure the agent to reboot the instances.
- C. Update the target group configuration on the ALB. Enable session affinity (sticky sessions).
- D. Add Elastic Load Balancing (ELB) health checks to the Auto Scaling group.

Answer: D

Explanation:
In this scenario, the EC2 instances pass their EC2 status checks, indicating that the operating system is responsive. However, the application hosted on the instance is failing intermittently, returning HTTP 500 errors. This demonstrates a discrepancy between the instance-level health and the application-level health.
Auto Scaling groups should incorporate Elastic Load Balancing (ELB) health checks instead of relying solely on EC2 status checks. The ELB health check probes the application endpoint (for example, HTTP or HTTPS target group health checks), ensuring that the application itself is functioning correctly.
When an instance fails an ELB health check, Amazon EC2 Auto Scaling will automatically mark the instance as unhealthy and replace it with a new one, ensuring continuous availability and performance optimization.
"Implement monitoring and health checks using ALB and EC2 Auto Scaling integration.
Application Load Balancer health checks allow Auto Scaling to terminate and replace instances that fail application-level health checks, ensuring consistent application performance."
"When you enable the ELB health check type for your Auto Scaling group, Amazon EC2 Auto Scaling considers both EC2 status checks and Elastic Load Balancing health checks to determine instance health. If an instance fails the ELB health check, it is automatically replaced." Therefore, the correct answer is B, as it ensures proper application-level monitoring and remediation using ALB-integrated ELB health checks--a core CloudOps operational practice for proactive incident response and availability assurance.

NEW QUESTION # 86
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