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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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	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 4	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 5	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

A retail company runs a web application. The application uses an Application Load Balancer (ALB) to distribute traffic across multiple Amazon EC2 instances in two Availability Zones. The application experiences high traffic during flash sales. The company needs to ensure even distribution of requests across all healthy instances. Additionally, the company requires session persistence for shopping cart functionality. Which configuration will meet these requirements with the LEAST administrative effort?

- A. Switch the ALB to a Network Load Balancer. Modify the target group to use the least outstanding requests algorithm. Enable stickiness. Disable cross-zone load balancing.
- **B. Configure the ALB target group to use the round robin algorithm. Enable stickiness and cross- zone load balancing.**
- C. Configure the ALB target group to use the weighted round robin algorithm. Implement session persistence by using AWS Lambda functions to store session data in Amazon DynamoDB.
- D. Configure the ALB listener with path-based routing to direct shopping cart requests to a dedicated target group with sticky sessions. Use the round robin algorithm without stickiness for a second target group.

Answer: B

Explanation:

An Application Load Balancer can distribute traffic across healthy targets by using the round robin routing algorithm. Enabling cross-zone load balancing helps spread requests evenly across instances in multiple Availability Zones, and enabling target group stickiness provides session persistence for users who need shopping cart continuity.

NEW QUESTION # 108

A company runs an application on Amazon EC2 instances behind an Elastic Load Balancer (ELB) in an Auto Scaling group. The application performs well except during a 2-hour period of daily peak traffic, when performance slows.

A CloudOps engineer must resolve this issue with minimal operational effort.

What should the engineer do?

- **A. Create a scheduled scaling action to scale out the number of EC2 instances shortly before the increase in user traffic occurs.**
- B. Manually add a few more EC2 instances to the Auto Scaling group to support the increase in user traffic. Enable instance scale-in protection on the Auto Scaling group.
- C. Adjust the minimum capacity of the Auto Scaling group to the size required to meet the increased demand during the 2-hour period.
- D. Adjust the launch template that is associated with the Auto Scaling group to be more sensitive to increases in user traffic.

Answer: A

Explanation:

According to the AWS Cloud Operations and Compute documentation, when workloads exhibit predictable traffic patterns, the best practice is to use scheduled scaling for Amazon EC2 Auto Scaling groups.

With scheduled scaling, administrators can predefine the desired capacity of an Auto Scaling group to increase before anticipated demand (in this case, before the 2-hour peak) and scale back down afterward. This ensures that sufficient compute capacity is provisioned proactively, avoiding performance degradation while maintaining cost efficiency.

AWS notes: "Scheduled actions enable scaling your Auto Scaling group at predictable times, allowing you to pre-warm instances before demand spikes." Manual scaling (Option D) adds operational overhead. Adjusting launch templates (Option B) doesn't affect scaling behavior, and permanently increasing minimum capacity (Option A) wastes resources outside of peak hours.

Thus, Option C provides an automated, cost-effective, and operationally efficient CloudOps solution.

NEW QUESTION # 109

A company runs a workload on a high performance computing (HPC) cluster on AWS. The workload is Linux-based and uses three Amazon EC2 instances. Each EC2 instance has a 10 TiB Throughput Optimized HDD (st1) Amazon EBS volume. A CloudOps engineer determines that the current storage is not meeting the workload's performance needs. The workload needs a durable file store that has throughput of 100,000 IOPS.

Which solution will meet these requirements?

- A. Create an Amazon FSx for Lustre file system. Configure an appropriate number of IOPS.
- B. Create an Amazon S3 bucket in the same AWS Region where the HPC cluster is deployed. Use the same S3 bucket prefix on all objects.
- C. Create an Amazon S3 bucket in the same AWS Region where the HPC cluster is deployed. Enable S3 Transfer Acceleration.
- D. Create an Amazon ElastiCache (Redis OSS) instance. Keep the append-only file (AOF) feature disabled.

Answer: A

Explanation:

Amazon FSx for Lustre is designed for high-performance computing workloads that need a shared, durable, high-throughput file system. It supports Linux clients and is purpose-built for workloads such as machine learning, analytics, media processing, and HPC. The current use of separate st1 EBS volumes is not meeting performance needs and also does not provide a shared high-performance file system across the cluster.

ElastiCache is an in-memory cache, not a durable POSIX-style HPC file store. Amazon S3 is durable object storage, but it is not a high-performance shared file system for Linux HPC applications that expect file-system semantics. S3 Transfer Acceleration improves long-distance data transfer to S3 but does not solve local HPC file I/O. Therefore, FSx for Lustre is the correct performance optimization choice.

NEW QUESTION # 110

A company has an application that runs on Amazon EC2 instances. The application stores data on an Amazon RDS for MySQL Single-AZ DB instance. Requests to the DB instance from the application include reads and writes.

A CloudOps engineer must implement a solution that provides failover for the DB instance. The solution must minimize application downtime.

Which solution will meet these requirements?

- A. Add a read replica in the same Availability Zone where the DB instance is deployed.
- B. Modify the DB instance to be a Multi-AZ DB instance deployment.
- C. Add the DB instance to an Auto Scaling group that has a minimum capacity of 2 and a desired capacity of 2.
- D. Use RDS Proxy to configure a proxy in front of the DB instance.

Answer: B

Explanation:

For Amazon RDS for MySQL, a Multi-AZ DB instance deployment provides synchronous standby replication to another Availability Zone and supports automatic failover if the primary DB instance or Availability Zone fails. This directly meets the requirement for failover while minimizing application downtime. A read replica in the same Availability Zone does not provide the same automatic high-availability failover path and is mainly used for read scaling. Auto Scaling groups apply to EC2 instances, not RDS DB instances. RDS Proxy can improve application connection handling and failover behavior, but it does not by itself create a standby database for a Single-AZ instance. The database must first have a high-availability deployment. Therefore, modifying the DB instance to Multi-AZ is the correct reliability solution.

NEW QUESTION # 111

A CloudOps engineer must manage the security of an AWS account. Recently, an IAM user's access key was mistakenly uploaded to a public code repository. The engineer must identify everything that was changed using this compromised key.

How should the CloudOps engineer meet these requirements?

- A. Query Amazon EC2 logs by using Amazon CloudWatch Logs Insights for all events initiated with the compromised access key within the suspected timeframe.
- B. Search AWS CloudTrail event history for all events initiated with the compromised access key within the suspected

timeframe.

- C. Create an Amazon EventBridge rule to send all IAM events to an AWS Lambda function for analysis.
- D. Search VPC Flow Logs for all events initiated with the compromised access key within the suspected timeframe.

Answer: B

Explanation:

According to the AWS Cloud Operations and Security documentation, AWS CloudTrail is the authoritative service for recording API activity across all AWS services within an account.

When an access key is compromised, CloudTrail logs all API requests made using that key, including details such as:

- * The user identity (access key ID) that made the request,
- * The service, operation, resource, and timestamp affected, and
- * The source IP address and region of the request.

By searching the CloudTrail event history for the specific access key ID, the CloudOps engineer can identify every action performed by that key during the suspected breach window.

Other options are incorrect:

- * EventBridge (A) is event-driven, not historical.
- * CloudWatch Logs (B) monitors system logs, not AWS API activity.
- * VPC Flow Logs (D) track network-level traffic, not API calls.

Therefore, the correct solution is Option C - using AWS CloudTrail event history to audit and trace all actions executed via the compromised access key.

Reference: AWS Cloud Operations & Security Management Guide - Investigating Compromised Access Keys Using AWS CloudTrail

NEW QUESTION # 112

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