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Amazon SOA-C03 Exam Syllabus Topics:

| Topic | Details |
|---------|---|
| Topic 1 | <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 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">• 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. |

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| Topic 4 | <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 5 | <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. |

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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q40-Q45):

NEW QUESTION # 40

A global company runs a critical primary workload in the us-east-1 Region. The company wants to ensure business continuity with minimal downtime in case of a workload failure. The company wants to replicate the workload to a second AWS Region. A CloudOps engineer needs a solution that achieves a recovery time objective (RTO) of less than 10 minutes and a zero recovery point objective (RPO) to meet service level agreements.

Which solution will meet these requirements?

- A. Implement a pilot light architecture that provides real-time data replication in the second Region. Configure Amazon Route 53 health checks and automated DNS failover.
- **B. Implement an active-active architecture that provides real-time data replication across two Regions. Use Amazon Route 53 health checks and a weighted routing policy.**
- C. Implement a custom script to generate a regular backup of the data and store it in an S3 bucket that is in a second Region. Use the backup to launch the application in the second Region in the event of a workload failure.
- D. Implement a warm standby architecture that provides regular data replication in a second Region. Configure Amazon Route 53 health checks and automated DNS failover.

Answer: B

Explanation:

According to the AWS Cloud Operations and Disaster Recovery documentation, the active-active multi-Region architecture provides the lowest possible RTO and RPO among all disaster recovery strategies. In this approach, workloads are deployed and actively running in multiple AWS Regions simultaneously. All data is continuously replicated in real time between Regions using fully managed replication services, ensuring zero data loss (zero RPO).

Because both Regions are active and capable of handling requests, failover between them is instantaneous, meeting the RTO of less than 10 minutes. Amazon Route 53 is used with weighted or latency-based routing policies and health checks to automatically route traffic away from an impaired Region to the healthy Region without manual intervention.

In contrast:

Pilot Light Architecture maintains only a minimal copy of the environment in the secondary Region. It requires time to scale up infrastructure during a disaster, resulting in longer RTO and potential data loss (non-zero RPO).

Warm Standby Architecture keeps partially running infrastructure in the secondary Region. Although faster than pilot light, it still requires scaling and synchronization, resulting in higher RTO and RPO compared to active-active.

Backup and Restore (option D) relies on periodic backups and restores data when needed. This approach has the highest RTO and RPO, unsuitable for mission-critical workloads demanding high availability and zero data loss.

Therefore, based on AWS-recommended disaster recovery strategies outlined in the AWS Cloud Operations and Disaster

Recovery Guide, the Active-Active Multi-Region architecture (Option C) is the only approach that guarantees RTO <10 minutes and RPO = 0, achieving continuous availability and business continuity across Regions.

NEW QUESTION # 41

A company has a microservice that runs on a set of Amazon EC2 instances. The EC2 instances run behind an Application Load Balancer (ALB).

A CloudOps engineer must use Amazon Route 53 to create a record that maps the ALB URL to example.com

Which type of record will meet this requirement?

- A. A CNAME record
- B. An AAAA record
- C. An A record
- **D. An alias record**

Answer: D

Explanation:

An alias record is the recommended Route 53 record type to map domain names (e.g., example.com) to AWS-managed resources such as an Application Load Balancer. Alias records are extension types of A or AAAA records that support AWS resources directly, providing automatic DNS integration and no additional query costs.

"Use alias records to map your domain or subdomain to an AWS resource such as an Application Load Balancer, CloudFront distribution, or S3 website endpoint." A and AAAA records are used for static IP addresses, not load balancers. CNAME records cannot be used at the root domain (e.g., example.com). Thus, Option C is correct as it meets CloudOps networking best practices for scalable, managed DNS resolution to ALBs.

NEW QUESTION # 42

A company observes a dramatic increase in 500 status code responses from an HTTP application that runs on Amazon EC2 instances. The EC2 instances are in an Auto Scaling group and use EC2 health checks for resiliency. The company uses Amazon CloudWatch to collect logs for the EC2 instances and the HTTP server logs.

A CloudOps engineer investigates the cause of the status codes. The CloudOps engineer finds that errors correlate with times when the Auto Scaling group was either replacing EC2 instances or performing scale-in actions. The CloudOps engineer needs to improve the resiliency of the application's architecture.

Which solution will meet this requirement?

- A. Reconfigure the EC2 instance health checks to increase the health check grace period.
- B. Reconfigure the Auto Scaling group to increase the default cooldown configuration.
- **C. Reconfigure the EC2 instance health checks to use Elastic Load Balancing (ELB) health checks.**
- D. Reconfigure the Auto Scaling group to increase the minimum capacity configuration.

Answer: C

Explanation:

The errors occur during Auto Scaling replacement and scale-in events, which strongly indicates that instances are being terminated or recycled while they are still serving traffic. When an Auto Scaling group uses only EC2 status checks, the health evaluation is limited to instance-level signals (such as system reachability and instance reachability). Those checks do not validate whether the application process is healthy, whether the web server is still responding correctly, or whether the instance is safely able to continue serving requests while shutdown activities are underway. As a result, traffic can continue to reach an instance that is about to be terminated, or a newly launched instance can be marked healthy at the EC2 layer before the application is actually ready, producing spikes in 5xx responses.

Using Elastic Load Balancing health checks integrates the Auto Scaling group with the load balancer's application-aware health evaluation. The load balancer can perform health checks against a specific endpoint (for example, /health) over HTTP/HTTPS and determine whether the application is responding successfully.

Auto Scaling can then replace instances based on real service health rather than only infrastructure health.

This approach improves resiliency because unhealthy or draining instances are removed from load balancing before they cause user-facing errors, and newly launched instances are kept out of rotation until they pass the ELB health checks.

Increasing cooldown (A) only slows scaling actions and does not ensure safe traffic draining. Increasing minimum capacity (C) can reduce impact but does not address the root cause of instances receiving traffic during lifecycle changes. Increasing grace period (D) helps initial warm-up, but it does not reliably protect users during scale-in and termination without application-level health integration. Therefore, ELB health checks are the best solution.

NEW QUESTION # 43

A company wants to use AWS Systems Manager to manage a large fleet of Amazon EC2 instances. The company hosts the instances in private subnets. The company follows the principle of least privilege to assign access permissions. All private subnets have internet connectivity through a NAT gateway.

A CloudOps engineer installs the latest version of the Systems Manager Agent (SSM Agent).

However, the EC2 instances do not appear in Systems Manager Fleet Manager. The CloudOps engineer must resolve this issue. Which solution will meet this requirement?

- A. Create a VPC endpoint for Systems Manager. Remove routes to the internet through the NAT gateway from the private subnet's route table.
- B. Attach a custom policy that allows all actions to ssm* to the EC2 instance profile that is associated with the instances.
- C. Replace the NAT gateway with a NAT instance that is deployed in the public subnet. Update the private subnet's route table to use the NAT instance.
- **D. Attach the AmazonSSMManagedInstanceCore AWS managed policy to the EC2 instance profile that is associated with the instances.**

Answer: D

Explanation:

For EC2 instances to register and appear in AWS Systems Manager (Fleet Manager, Run Command, Patch Manager, etc.), the instance's IAM instance profile must have the correct permissions. The recommended least-privilege policy is AmazonSSMManagedInstanceCore, which grants SSM Agent the necessary access to Systems Manager, AWS Identity and Access Management, and (optionally) CloudWatch Logs. Without this policy, the agent cannot register the instance, even if network connectivity through a NAT gateway is present.

NEW QUESTION # 44

A company is migrating its production file server to AWS. All data stored on the file server must remain accessible if an Availability Zone becomes unavailable or during system maintenance. Users must access the file server through the SMB protocol and manage permissions by using Windows ACLs.

Which solution will meet these requirements?

- A. Deploy two AWS Storage Gateway file gateways in two Availability Zones behind an Application Load Balancer.
- **B. Create an Amazon FSx for Windows File Server Multi-AZ file system.**
- C. Create a single AWS Storage Gateway file gateway.
- D. Deploy two Amazon FSx for Windows File Server Single-AZ file systems and configure DFS Replication.

Answer: B

Explanation:

Amazon FSx for Windows File Server is a fully managed native Windows file system that supports SMB, Windows authentication, and Windows ACLs. The Multi-AZ deployment option automatically replicates data synchronously across Availability Zones and provides automatic failover with minimal downtime.

This architecture ensures continuous availability during AZ failures or maintenance events without manual intervention. Users experience consistent access and permissions through SMB, fully meeting the stated requirements.

Storage Gateway introduces on-premises dependencies. DFS Replication increases complexity and recovery time. Therefore, FSx for Windows Multi-AZ is the correct solution.

NEW QUESTION # 45

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