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Amazon SOA-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 4	• 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 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 (Q61-Q66):

NEW QUESTION # 61
A company operates compute resources in a VPC and in the company's on-premises data center. The company already has an AWS Direct Connect connection between the VPC and the on-premises data center. A CloudOps engineer needs to ensure that Amazon EC2 instances in the VPC can resolve DNS names for hosts in the on-premises data center.
Which solution will meet this requirement with the LEAST amount of ongoing maintenance?

- A. Create an Amazon Route 53 private hosted zone. Populate the zone with the hostnames and IP addresses of the hosts in the on-premises data center.
- B. Add the hostnames and IP addresses for the on-premises hosts to the /etc/hosts file of each EC2 instance.
- C. Create an Amazon Route 53 Resolver outbound endpoint. Add the IP addresses of an on- premises DNS server for the domain names that need to be forwarded.
- D. Set up a forwarding rule for reverse DNS queries in Amazon Route 53 Resolver. Set the enableDnsHostnames attribute to true for the VPC.

Answer: C

Explanation:
The Route 53 Resolver outbound endpoint enables DNS queries from resources in a VPC to be forwarded to on-premises DNS servers over an existing AWS Direct Connect or VPN connection.
By creating forwarding rules that specify which domains should be resolved through the on- premises DNS servers, EC2 instances in the VPC can seamlessly resolve internal hostnames without manual configuration or ongoing maintenance. This is the most scalable and low- maintenance solution.

NEW QUESTION # 62
A company is performing deployments of an application at regular intervals. Users report that the application sometimes does not work properly. The company discovers that some users' browsers are fetching previous versions of the JavaScript files. The application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The ALB is the origin for an Amazon CloudFront distribution.
A SysOps administrator must implement a solution to ensure that CloudFront serves the latest version of the JavaScript files. The solution must not affect application server performance.
Which solution will meet these requirements?

- A. Remove CloudFront from the path of serving JavaScript files. Serve the JavaScript files directly through the ALB.
- B. Add a final step in the deployment process to invalidate all files in the CloudFront distribution.
- C. Reduce the maximum TTL and default TTL of the CloudFront distribution behavior to 0.
- D. Add a final step in the deployment process to invalidate only the changed JavaScript files in the CloudFront distribution.

Answer: D

Explanation:

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

The correct answer is C because selective CloudFront invalidation ensures that only updated JavaScript files are refreshed across edge locations. AWS CloudOps documentation explains that invalidations remove cached objects so that CloudFront fetches the latest version from the origin on the next request.

Invalidating only changed files minimizes cost, reduces operational impact, and avoids unnecessary origin requests. This approach ensures users always receive the latest application assets without degrading backend performance.

Option A is incorrect because setting TTLs to 0 forces CloudFront to query the origin for every request, increasing load on the ALB and EC2 instances. Option B is inefficient and costly because invalidating all files is unnecessary. Option D removes the benefits of CloudFront caching and increases latency.

AWS CloudOps best practices recommend targeted invalidations during deployments to balance performance, cost, and correctness.

References:

Amazon CloudFront Developer Guide - Cache Invalidation

AWS SysOps Administrator Study Guide - Content Delivery

AWS Well-Architected Framework - Performance Efficiency and Reliability

NEW QUESTION # 63

A company hosts an FTP server on EC2 instances. AWS Security Hub sends findings to Amazon EventBridge when the FTP port becomes publicly exposed in attached security groups.

A CloudOps engineer needs an automated, event-driven remediation solution to remove public access from security groups.

Which solution will meet these requirements?

- A. Configure the existing EventBridge event to invoke an AWS Lambda function. Configure the function to remove the security group rule that allows public access.
- B. Create a cron job for the FTP server to invoke an AWS Lambda function. Configure the Lambda function to modify the security group of the identified EC2 instances and to remove the instances that allow public access.
- C. Configure the existing EventBridge event to stop the EC2 instances that have the exposed port.
- D. Create a cron job for the FTP server that invokes an AWS Lambda function. Configure the Lambda function to modify the server to use SFTP instead of FTP.

Answer: A

NEW QUESTION # 64

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

Answer: D

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.

Reference: AWS Cloud Operations and S3 Guide - Section: Cross-Region Replication and Batch Replication for Existing Objects

NEW QUESTION # 65

A company hosts a critical legacy application on two Amazon EC2 instances that are in one Availability Zone. The instances run behind an Application Load Balancer (ALB). The company uses Amazon CloudWatch alarms to send Amazon Simple Notification Service (Amazon SNS) notifications when the ALB health checks detect an unhealthy instance. After a notification, the company's engineers manually restart the unhealthy instance. A CloudOps engineer must configure the application to be highly available and more resilient to failures. Which solution will meet these requirements?

- A. Increase the size of each instance. Create an Amazon EventBridge rule. Configure the EventBridge rule to restart the instances if they enter a failed state.
- B. Create an Amazon Machine Image (AMI) from a healthy instance. Launch additional instances from the AMI in the same Availability Zone. Add the new instances to the ALB target group.
- C. Create an Amazon Machine Image (AMI) from a healthy instance. Launch an additional instance from the AMI in the same Availability Zone. Add the new instance to the ALB target group. Create an AWS Lambda function that runs when an instance is unhealthy. Configure the Lambda function to stop and restart the unhealthy instance.
- D. Create an Amazon Machine Image (AMI) from a healthy instance. Create a launch template that uses the AMI. Create an Amazon EC2 Auto Scaling group that is deployed across multiple Availability Zones. Configure the Auto Scaling group to add instances to the ALB target group.

Answer: D

Explanation:
High availability requires removing single-AZ risk and eliminating manual recovery. The AWS Reliability best practices state to design for multi-AZ and automatic healing: Auto Scaling "helps maintain application availability and allows you to automatically add or remove EC2 instances" (AWS Auto Scaling User Guide). The Reliability Pillar recommends to "distribute workloads across multiple Availability Zones" and to "automate recovery from failure" (AWS Well-Architected Framework ?Reliability Pillar). Attaching the Auto Scaling group to an ALB target group enables health-based replacement: instances failing load balancer health checks are replaced and traffic is routed only to healthy targets. Using an AMI in a launch template ensures consistent, repeatable instance configuration (AWS EC2 Launch Templates). Options A and C keep all instances in a single Availability Zone and rely on manual or ad-hoc restarts, which do not meet high-availability or resiliency goals. Option B only scales vertically and adds a restart rule; it neither removes the single-AZ failure domain nor provides automated replacement. Therefore, creating a multi-AZ EC2 Auto Scaling group with a launch template and attaching it to the ALB target group (Option D) is the CloudOps-aligned solution for resilience and business continuity.

NEW QUESTION # 66

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