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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">• 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 3	<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 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 (Q149-Q154):

NEW QUESTION # 149

A CloudOps engineer needs to build an event infrastructure for custom application-specific events. The events must be sent to an AWS Lambda function for processing. The CloudOps engineer must record the events so they can be replayed later by event type or event time.

Which solution will meet these requirements?

- A. Create an Amazon EventBridge custom event bus, create an archive, and create a rule to send events to Lambda.
- B. Create an archive on the default event bus and use pattern matching.
- C. Create an EventBridge pipe and store events in an archive.
- D. Create a CloudWatch Logs log group and route events there.

Answer: A

Explanation:

Amazon EventBridge supports custom event buses for application-specific events. EventBridge archives allow events to be retained and replayed later based on time ranges or event patterns, directly meeting the replay requirement.

Creating a custom event bus provides isolation and governance for application events. The archive preserves events automatically, and EventBridge rules route events to AWS Lambda for processing without custom code.

Options B and C do not properly align with custom event use cases or supported archive behavior. Option D lacks native replay functionality.

Therefore, a custom event bus with an archive and rule is the correct solution.

NEW QUESTION # 150

A company needs to monitor its website's availability to end users. The company needs a solution to provide an Amazon Simple Notification Service (Amazon SNS) notification if the website's uptime decreases to less than 99%. The monitoring must provide an accurate view of the user experience on the website.

Which solution will meet these requirements?

- A. Create an Amazon CloudWatch Synthetics heartbeat monitoring canary. Associate the canary with the website's URL. Create a CloudWatch alarm for the canary. Configure the alarm to publish an SNS notification if the value of the SuccessPercent metric is less than 99%.
- B. Create an Amazon CloudWatch alarm that is based on the website's published metrics in CloudWatch. Configure the alarm to publish an SNS notification based on anomaly detection.
- C. Create an Amazon CloudWatch alarm that is based on the website's logs that are published to a CloudWatch Logs log group. Configure the alarm to publish an SNS notification if the number of HTTP 4xx and 5xx errors exceeds a specified threshold.
- D. Create an Amazon CloudWatch Synthetics broken link checker monitoring canary. Associate the canary with the website's URL. Create a CloudWatch alarm for the canary. Configure the alarm to publish an SNS notification if the value of

the SuccessPercent metric is less than 99%.

Answer: A

Explanation:

Amazon CloudWatch Synthetics heartbeat canaries actively test a website by sending periodic requests from AWS-managed locations, closely simulating real user access. This provides an accurate measurement of availability from an end-user perspective, which is a key requirement.

The SuccessPercent metric represents the percentage of successful executions over time and directly maps to website uptime. Creating a CloudWatch alarm on this metric allows the CloudOps engineer to receive SNS notifications when availability drops below the 99% threshold.

Log-based or anomaly-detection approaches do not reliably represent user experience, and broken link checkers focus on content integrity rather than availability. Therefore, a heartbeat canary is the correct solution.

NEW QUESTION # 151

Application A runs on Amazon EC2 instances behind a Network Load Balancer (NLB). The EC2 instances are in an Auto Scaling group and are in the same subnet that is associated with the NLB. Other applications from an on-premises environment cannot communicate with Application A on port 8080.

To troubleshoot the issue, a CloudOps engineer analyzes the flow logs. The flow logs include the following records:

ACCEPT from 192.168.0.13:59003 → 172.31.16.139:8080

REJECT from 172.31.16.139:8080 → 192.168.0.13:59003

What is the reason for the rejected traffic?

- **A. The network ACL that is associated with the subnet does not allow outbound traffic for the ephemeral port range.**
- B. The ACL of the on-premises environment does not allow traffic to the AWS environment.
- C. The security group of the NLB has no Allow rule for the traffic from the on-premises environment.
- D. The security group of the EC2 instances has no Allow rule for the traffic from the NLB.

Answer: A

Explanation:

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

VPC Flow Logs show the request arriving and being ACCEPTed on dstport 8080 and the corresponding response being REJECTed on the return path to the client's ephemeral port (59003). AWS networking guidance states that security groups are stateful (return traffic is automatically allowed) while network ACLs are stateless and require explicit inbound and outbound rules for both directions. CloudOps operational guidance for VPC networking further notes that when you allow an inbound request (for example, TCP 8080) through a subnet's network ACL, you must also allow the outbound ephemeral port range (typically 1024-65535) for the response traffic; otherwise, the return packets are dropped and appear as REJECT in flow logs. The observed pattern-request accepted to 8080, response rejected to 59003-matches a missing outbound ephemeral-range allow on the subnet's NACL. Therefore, the cause is the subnet NACL, not security groups or on-premises ACLs. The remediation is to add an outbound ALLOW rule on the NACL for the appropriate ephemeral TCP port range back to the on-premises CIDR (and the corresponding inbound rule if asymmetric).

References (AWS CloudOps documents / Study Guide):

- * AWS Certified CloudOps Engineer - Associate (SOA-C03) Exam Guide - Networking and Content Delivery
- * Amazon VPC - Network ACLs (stateless behavior and rule requirements)
- * Amazon VPC - Security Groups (stateful return traffic)
- * VPC Flow Logs - Record fields, ACCEPT/REJECT analysis

NEW QUESTION # 152

A CloudOps engineer is preparing to deploy an application to Amazon EC2 instances that are in an Auto Scaling group. The application requires dependencies to be installed. Application updates are issued weekly.

The CloudOps engineer needs to implement a solution to incorporate the application updates on a regular basis. The solution also must conduct a vulnerability scan during Amazon Machine Image (AMI) creation.

What is the MOST operationally efficient solution that meets these requirements?

- A. Create a script that uses Packer. Schedule a cron job to run the script.
- **B. Use EC2 Image Builder with a custom recipe to install the application and its dependencies.**
- C. Install the application and its dependencies on an EC2 instance. Create an AMI of the EC2 instance.
- D. Invoke the EC2 CreateImage API operation by using an Amazon EventBridge scheduled rule.

Answer: B

Explanation:

EC2 Image Builder is a managed service that automates AMI creation on a schedule, including installing dependencies, applying weekly application updates, and running steps such as vulnerability scans as part of the image build pipeline. It provides versioning, automated builds, and integration with scanners via components, giving a highly automated and operationally efficient solution compared to manual scripts or ad hoc AMI creation.

NEW QUESTION # 153

A company's website runs on an Amazon EC2 Linux instance. The website needs to serve PDF files from an Amazon S3 bucket. All public access to the S3 bucket is blocked at the account level. The company needs to allow website users to download the PDF files.

Which solution will meet these requirements with the LEAST administrative effort?

- A. Change the S3 bucket permissions to allow public access on the source S3 bucket. Assign a company employee to provide a PDF file URL to users when users request the PDF files.
- B. Create an IAM role that has a policy that allows s3:list* and s3:get* permissions. Assign the role to the EC2 instance. Assign a company employee to download requested PDF files to the EC2 instance and deliver the files to website users. Create an AWS Lambda function to periodically delete local files.
- C. Deploy an EC2 instance that has an IAM instance profile to a public subnet. Use a signed URL from the EC2 instance to provide temporary access to the S3 bucket for website users.
- **D. Create an Amazon CloudFront distribution that uses an origin access control (OAC) that points to the S3 bucket. Apply a bucket policy to the bucket to allow connections from the CloudFront distribution. Assign a company employee to provide a download URL that contains the distribution URL and the object path to users when users request PDF files.**

Answer: D

Explanation:

Per the AWS Cloud Operations, Networking, and Security documentation, the best practice for serving private S3 content securely to end users is to use Amazon CloudFront with Origin Access Control (OAC).

OAC enables CloudFront to access S3 buckets privately, even when Block Public Access settings are enabled at the account level. This allows content to be delivered globally and securely without making the S3 bucket public. The bucket policy explicitly allows access only from the CloudFront distribution, ensuring that users can retrieve PDF files only via CloudFront URLs.

This configuration offers:

- * Automatic scalability through CloudFront caching,
- * Improved security via private access control,
- * Minimal administration effort with fully managed services.

Other options require manual handling or make the bucket public, violating AWS security best practices.

Therefore, Option B-using CloudFront with Origin Access Control and a restrictive bucket policy- provides the most secure, efficient, and low-maintenance CloudOps solution.

Reference: AWS Cloud Operations and Content Delivery Guide - Section: Serving Private Content Securely from Amazon S3 via CloudFront Using Origin Access Control

NEW QUESTION # 154

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