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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q79-Q84):

NEW QUESTION # 79

An AWS CloudFormation template creates an Amazon RDS instance. This template is used to build up development environments as needed and then delete the stack when the environment is no longer required.

The RDS-persisted data must be retained for further use, even after the CloudFormation stack is deleted.

How can this be achieved in a reliable and efficient way?

- A. Create an AWS Lambda function to take a snapshot of the RDS instance, and manually invoke the function before deleting the stack.
- B. Write a script to continue backing up the RDS instance every five minutes.
- C. Create a new CloudFormation template to perform backups of the RDS instance, and run this template before deleting the stack.
- **D. Use the Snapshot Deletion Policy in the CloudFormation template definition of the RDS instance.**

Answer: D

Explanation:

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

AWS CloudFormation supports the DeletionPolicy attribute to control what happens to a resource when a stack is deleted. For Amazon RDS DB instances, setting DeletionPolicy: Snapshot instructs CloudFormation to retain a final DB snapshot automatically at stack deletion. CloudOps best practice recommends using this native mechanism for data retention and auditability, avoiding manual scripts or out-of-band processes.

Options A, B, and D introduce operational overhead and potential human error. With DeletionPolicy set to Snapshot, the environment can be repeatedly created and torn down while preserving data states for later restoration with minimal manual steps.

This aligns with IaC principles—declarative, repeatable, and reliable

-and supports efficient lifecycle management of ephemeral development stacks.

References:* AWS Certified CloudOps Engineer - Associate (SOA-C03) Exam Guide - Deployment, Provisioning and Automation* AWS CloudFormation User Guide - DeletionPolicy Attribute (Snapshot for RDS)* AWS Well-Architected Framework - Operational Excellence Pillar

NEW QUESTION # 80

A company's architecture team must receive immediate email notifications whenever new Amazon EC2 instances are launched in the company's main AWS production account.

What should a CloudOps engineer do to meet this requirement?

- A. Create a user data script that sends an email message through a smart host connector. Include the architecture team's email address in the user data script as the recipient. Ensure that all new EC2 instances include the user data script as part of a standardized build process.
- **B. Create an Amazon Simple Notification Service (Amazon SNS) topic and a subscription that uses the email protocol. Enter the architecture team's email address as the subscriber. Create an Amazon EventBridge rule that reacts when EC2 instances are launched. Specify the SNS topic as the rule's target.**
- C. Create an Amazon Simple Notification Service (Amazon SNS) topic. Configure AWS Systems Manager to publish EC2 events to the SNS topic. Create an AWS Lambda function to poll the SNS topic. Configure the Lambda function to send any messages to the architecture team's email address.
- D. Create an Amazon Simple Queue Service (Amazon SQS) queue and a subscription that uses the email protocol. Enter the architecture team's email address as the subscriber. Create an Amazon EventBridge rule that reacts when EC2 instances are launched. Specify the SQS queue as the rule's target.

Answer: B

Explanation:

As per the AWS Cloud Operations and Event Monitoring documentation, the most efficient method for event-driven notification is to use Amazon EventBridge to detect specific EC2 API events and trigger a Simple Notification Service (SNS) alert.

EventBridge continuously monitors AWS service events, including RunInstances, which signals the creation of new EC2 instances. When such an event occurs, EventBridge sends it to an SNS topic, which then immediately emails subscribed recipients - in this case, the architecture team.

This combination provides real-time, serverless notifications with minimal management. SQS (Option C) is designed for queue-based processing, not direct user alerts. User data scripts (Option A) and custom polling with Lambda (Option D) introduce unnecessary operational complexity and latency.

Hence, Option B is the correct and AWS-recommended CloudOps design for immediate launch notifications.

NEW QUESTION # 81

A CloudOps engineer needs to track the costs of data transfer between AWS Regions. The CloudOps engineer must implement a solution to send alerts to an email distribution list when transfer costs reach 75% of a specific threshold. What should the CloudOps engineer do to meet these requirements?

- A. Create an Amazon CloudWatch billing alarm to detect when costs reach 75% of the threshold. Configure the alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the email distribution list to the topic.
- B. Create an AWS Cost and Usage Report. Analyze the results in Amazon Athena. Configure an alarm to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic when costs reach 75% of the threshold. Subscribe the email distribution list to the topic.
- **C. Use AWS Budgets to create a cost budget for data transfer costs. Set an alert at 75% of the budgeted amount. Configure the budget to send a notification to the email distribution list when costs reach 75% of the threshold.**
- D. Set up a VPC flow log. Set up a subscription filter to an AWS Lambda function to analyze data transfer. Configure the Lambda function to send a notification to the email distribution list when costs reach 75% of the threshold.

Answer: C

Explanation:

According to the AWS Cloud Operations and Cost Management documentation, AWS Budgets is the recommended service to track and alert on cost thresholds across all AWS accounts and resources. It allows users to define cost, usage, or reservation budgets, and configure notifications to trigger when usage or cost reaches defined percentages of the budgeted value (e.g., 75%, 90%, 100%).

The AWS Budgets system integrates natively with Amazon Simple Notification Service (SNS) to deliver alerts to an email distribution list or SNS topic subscribers. AWS Budgets supports granular cost filters, including specific service categories such as data transfer, regions, or linked accounts, ensuring precise visibility into inter-Region transfer costs.

By contrast, CloudWatch billing alarms (Option B) monitor total account charges only and do not allow detailed service-level filtering, such as data transfer between Regions. Cost and Usage Reports (Option A) are for detailed cost analysis, not real-time alerting, and VPC Flow Logs (Option D) capture traffic data, not billing or cost-based metrics.

Thus, using AWS Budgets with a 75% alert threshold best satisfies the operational and notification requirements.

NEW QUESTION # 82

A company has users that deploy Amazon EC2 instances with more Amazon EBS performance capacity than required. A CloudOps engineer must review all EBS volumes and create cost optimization recommendations based on IOPS and throughput. What should the CloudOps engineer do in the MOST operationally efficient way?

- A. Change instance types to EBS-optimized.
- **B. Opt in to AWS Compute Optimizer and review EBS volume recommendations.**
- C. Run fio benchmarks on each instance.
- D. Review EC2 console monitoring graphs manually.

Answer: B

Explanation:

Comprehensive Explanation (250-350 words):

AWS Compute Optimizer analyzes historical utilization metrics and provides rightsizing recommendations for EBS volumes, including IOPS and throughput. It is fully managed, continuously updated, and requires minimal operational effort.

Manual reviews and benchmarking do not scale. Changing instance types does not address EBS overprovisioning.

Therefore, AWS Compute Optimizer is the best solution.

NEW QUESTION # 83

A company uses Amazon ElastiCache (Redis OSS) to cache application data. A CloudOps engineer must implement a solution to increase the resilience of the cache. The solution also must minimize the recovery time objective (RTO). Which solution will meet these requirements?

- **A. Create a read replica in a second Availability Zone. Enable Multi-AZ for the ElastiCache (Redis OSS) replication group.**
- B. Replace ElastiCache (Redis OSS) with ElastiCache (Memcached).
- C. Enable automatic backups. Restore the backups when necessary.
- D. Create an Amazon EventBridge rule to initiate a backup every hour. Restore the backup when necessary.

Answer: A

Explanation:

For high availability and fast failover, ElastiCache for Redis supports replication groups with Multi-AZ and automatic failover. CloudOps guidance states that a primary node can be paired with one or more replicas across multiple Availability Zones; if the primary fails, Redis automatically promotes a replica to primary in seconds, thereby minimizing RTO. This architecture maintains in-memory data continuity without waiting for backup restore operations. Backups (Options B and D) provide durability but require restore and re-warm procedures that increase RTO and may impact application latency. Switching engines (Option A) to Memcached does not provide Redis replication/failover semantics and would not inherently improve resilience for this use case. Therefore, creating a read replica in a different AZ and enabling Multi-AZ with automatic failover is the prescribed CloudOps pattern to increase resilience and achieve the lowest practical RTO for Redis caches.

NEW QUESTION # 84

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