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- Full Refund if Failing SOA-C03: AWS Certified CloudOps Engineer - Associate Exam



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Amazon SOA-C03 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <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 2 | <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 3 | <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 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">• 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 (Q69-Q74):

NEW QUESTION # 69

An ecommerce company uses Amazon ElastiCache (Redis OSS) for caching product queries.

The CloudOps engineer observes a large number of cache evictions in Amazon CloudWatch metrics and needs to reduce evictions while retaining popular data in cache.

Which solution meets these requirements with the least operational overhead?

- A. Add another node to the ElastiCache cluster.
- B. Decrease the ElastiCache TTL value.
- C. Migrate to a new ElastiCache cluster with larger nodes.
- D. Increase the ElastiCache TTL value.

Answer: C

Explanation:

According to the AWS Cloud Operations and ElastiCache documentation, cache evictions occur when the cache runs out of memory and must remove items to make space for new data.

To reduce evictions and retain frequently accessed items, AWS recommends increasing the total available memory -- either by scaling up to larger node types or scaling out by adding shards/nodes. Migrating to a cluster with larger nodes is the simplest and most efficient solution because it immediately expands capacity without architectural changes.

Adjusting TTL (Options B and C) controls expiration timing, not memory allocation. Adding a single node (Option A) may help, but redistributing data requires resharding, introducing more complexity.

Thus, Option D provides the lowest operational overhead and ensures high cache hit rates by increasing total cache memory.

NEW QUESTION # 70

A company applies user-defined tags to resources that are associated with the company's AWS workloads. Twenty days after applying the tags, the company notices that it cannot use the tags to filter views in the AWS Cost Explorer console.

What is the reason for this issue?

- A. The company has not created an AWS Cost and Usage Report.
- B. The company has not activated the user-defined tags for cost allocation.
- C. The company has not created a usage budget in AWS Budgets.
- D. It takes at least 30 days to be able to use tags to filter views in Cost Explorer.

Answer: B

Explanation:

User-defined (custom) tags must be manually activated as cost allocation tags in the AWS Billing and Cost Management console before they can be used for filtering or grouping data in AWS Cost Explorer or Cost and Usage Reports. After activation, it can take up to 24 hours for the tags to appear in Cost Explorer - not 20 or 30 days.

NEW QUESTION # 71

A company runs an application on Amazon EC2 that connects to an Amazon Aurora PostgreSQL database. A developer

accidentally drops a table from the database, causing application errors. Two hours later, a CloudOps engineer needs to recover the data and make the application functional again.

Which solution will meet this requirement?

- A. Use the Aurora Backtrack feature to rewind the database to a specified time, 2 hours in the past.
- B. Create a new Aurora cluster. Choose the Restore data from S3 bucket option. Choose log files up to the failure time 2 hours in the past.
- C. Perform a point-in-time recovery on the existing database to restore the database to a specified point in time, 2 hours in the past.
- **D. Perform a point-in-time recovery and create a new database to restore the database to a specified point in time, 2 hours in the past. Reconfigure the application to use a new database endpoint.**

Answer: D

Explanation:

In the AWS Cloud Operations and Aurora documentation, when data loss occurs due to human error such as dropped tables, Point-in-Time Recovery (PITR) is the recommended method for restoration. PITR creates a new Aurora cluster restored to a specific time before the failure.

The restored cluster has a new endpoint that must be reconfigured in the application to resume normal operations. AWS does not support performing PITR directly on an existing production database because that would overwrite current data.

Aurora Backtrack (Option A) applies only to Aurora MySQL, not PostgreSQL. Option B is incorrect because PITR cannot be executed in place. Option D refers to an import process from S3, which is unrelated to time-based recovery.

Hence, Option C is correct and follows the AWS CloudOps standard recovery pattern for PostgreSQL workloads.

NEW QUESTION # 72

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. Create an Amazon EventBridge rule to initiate a backup every hour. Restore the backup when necessary.
- D. Enable automatic backups. Restore the backups when necessary.

Answer: A

Explanation:

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

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.

References (AWS CloudOps Documents / Study Guide):

- * AWS Certified CloudOps Engineer - Associate (SOA-C03) Exam Guide - Reliability and Business Continuity
- * Amazon ElastiCache for Redis - Replication Groups, Multi-AZ, and Automatic Failover
- * AWS Well-Architected Framework - Reliability Pillar

NEW QUESTION # 73

A company's AWS accounts are in an organization in AWS Organizations. The organization has all features enabled. The accounts use Amazon EC2 instances to host applications. The company manages the EC2 instances manually by using the AWS Management Console. The company applies updates to the EC2 instances by using an SSH connection to each EC2 instance.

The company needs a solution that uses AWS Systems Manager to manage all the organization's current and future EC2 instances. The latest version of Systems Manager Agent (SSM Agent) is running on the EC2 instances.

Which solution will meet these requirements?

- A. Configure a home AWS Region in Systems Manager Quick Setup in the organization's management account. Create a Systems Manager Run Command that attaches the AmazonSSMSRolePolicy IAM policy to every IAM role that the EC2 instances use. Invoke the command in every account in the organization.
- B. Create an AWS CloudFormation stack set that contains an EC2 instance profile with the AmazonSSMManagedEC2InstanceDefaultPolicy IAM policy attached. Use the organization's management account to deploy the stack set to every account in the organization.
- C. Create an AWS CloudFormation stack set that contains a Systems Manager parameter to define the Default Host Management Configuration role. Use the organization's management account to deploy the stack set to every account in the organization.
- D. Configure a home AWS Region in Systems Manager Quick Setup in the organization's management account. Deploy the Systems Manager Default Host Management Configuration Quick Setup from the management account.

Answer: D

Explanation:

AWS CloudOps automation best practices recommend using AWS Systems Manager Quick Setup for organization-wide management and configuration of EC2 instances. The Default Host Management Configuration Quick Setup automatically enables Systems Manager capabilities such as Patch Manager, Inventory, Session Manager, and Automation across all managed instances within the organization.

When deployed from the management account, Quick Setup automatically integrates with AWS Organizations to propagate configuration and permissions to existing and future accounts. This meets the requirement for organization-wide management with no manual configuration or SSH access.

"You can use Quick Setup in the management account of an organization in AWS Organizations to configure Systems Manager capabilities for all accounts and Regions. Quick Setup automatically keeps configurations up to date." Options B, C, and D require custom deployments or manual IAM updates, lacking centralized automation. Therefore, Option A fully satisfies CloudOps standards for automated provisioning and ongoing management of EC2 instances across an organization.

NEW QUESTION # 74

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