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Amazon AWS Certified CloudOps Engineer - Associate Sample Questions (Q140-Q145):

NEW QUESTION # 140
A company hosts a production MySQL database on an Amazon Aurora single-node DB cluster. The database is queried heavily for reporting purposes. The DB cluster is experiencing periods of performance degradation because of high CPU utilization and maximum connections errors. A CloudOps engineer needs to improve the stability of the database.
Which solution will meet these requirements?

- A. Create a second Aurora MySQL single-node DB cluster in a second Availability Zone. Ensure that all reporting requests

use the connection string for this additional node.

- B. Create an AWS Lambda function that caches reporting requests. Ensure that all reporting requests call the Lambda function.
- C. Create an Aurora Replica node. Create an Auto Scaling policy to scale replicas based on CPU utilization. Ensure that all reporting requests use the read-only connection string.
- D. Create a multi-node Amazon ElastiCache cluster. Ensure that all reporting requests use the ElastiCache cluster. Use the database if the data is not in the cache.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract of AWS CloudOps Doocuments:
Amazon Aurora supports up to 15 Aurora Replicas that share the same storage volume and provide read scaling and improved availability. Official guidance states that replicas "offload read traffic from the writer" and that you should direct read-only workloads to the reader endpoint, reducing CPU pressure and connection counts on the primary. Aurora also supports Replica Auto Scaling through Application Auto Scaling policies using metrics such as CPU utilization or connections to add or remove replicas automatically.
This design addresses both high CPU and maximum connections by moving reporting traffic to read replicas while keeping a single write primary for OLTP. Option B creates a separate cluster with independent storage, increasing operational overhead and data synchronization complexity. Options C and D introduce application- layer caching changes that may not guarantee data freshness or relieve the write node directly. Therefore, adding read replicas and routing reporting to the reader endpoint, with auto scaling based on load, is the least intrusive, CloudOps-aligned way to stabilize performance.
References:* Amazon Aurora - Replicas and Reader Endpoint (Aurora User Guide)* Aurora Replica Auto Scaling (Aurora & Application Auto Scaling Guides)* AWS Well-Architected Framework - Reliability & Performance Efficiency

NEW QUESTION # 141
A company needs to upload gigabytes of files daily to Amazon S3 and requires higher throughput and faster upload speeds.
Which action should a CloudOps engineer take?

- A. Set up AWS Global Accelerator and configure it with the S3 bucket.
- B. Create an Amazon CloudFront distribution with the GET HTTP method allowed and the S3 bucket as an origin.
- C. Create an Amazon ElastiCache cluster and enable caching for the S3 bucket.
- D. Enable S3 Transfer Acceleration and use the acceleration endpoint when uploading files.

Answer: D

Explanation:
The AWS Cloud Operations and Storage documentation confirms that S3 Transfer Acceleration is designed to increase upload speed for objects transferred to S3 buckets over long distances.
It uses AWS Global Edge Network and Amazon CloudFront edge locations to route data through optimized network paths, reducing latency and achieving higher throughput compared to standard S3 uploads.
After enabling Transfer Acceleration on the bucket, users upload files to the accelerated endpoint (e.g., bucketname.s3-accelerate.amazonaws.com). This feature requires no changes to application logic besides endpoint modification and provides immediate performance improvement.
CloudFront (Option A) is for content delivery, not uploads. ElastiCache (Option B) and Global Accelerator (Option C) are unrelated to S3 upload performance.
Thus, Option D is correct - enable S3 Transfer Acceleration for faster, optimized file uploads.
Reference: AWS Cloud Operations & Storage Guide - Enhancing Upload Speed with Amazon S3 Transfer Acceleration

NEW QUESTION # 142
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 Auto Scaling group to increase the minimum capacity configuration.

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

Answer: D

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 # 143
A CloudOps engineer has created an AWS Service Catalog portfolio and shared it with a second AWS account in the company, managed by a different CloudOps engineer.
Which action can the CloudOps engineer in the second account perform?

- A. Change the launch role for the products contained in the imported portfolio.
- B. Add a product from the imported portfolio to a local portfolio.
- C. Customize the products in the imported portfolio.
- D. Add new products to the imported portfolio.

Answer: B

Explanation:
Per the AWS Cloud Operations and Service Catalog documentation, when a portfolio is shared across AWS accounts, the recipient account imports the shared portfolio.
The recipient CloudOps engineer cannot modify the original products or their configurations but can:
Add products from the imported portfolio into their local portfolios for deployment, Control end-user access in the recipient account, and Manage local constraints or permissions.
However, the recipient cannot edit, delete, or reconfigure the shared products (Options B, C, and D). The source (owner) account retains full administrative control over products, launch roles, and lifecycle policies.
This model aligns with AWS CloudOps principles of centralized governance with distributed self-service deployment across multiple accounts.
Thus, Option A is correct-imported portfolios allow the recipient to add products to a local portfolio but not alter the shared configuration.

NEW QUESTION # 144
A SysOps administrator creates a custom Amazon Machine Image (AMI) in the eu-west-2 Region and uses the AMI to launch Amazon EC2 instances. The SysOps administrator needs to use the same AMI to launch EC2 instances in two other Regions: us-east-1 and us-east-2.
What must the SysOps administrator do to use the custom AMI in the additional Regions?

- A. Copy the AMI to the additional Regions
- B. Make the AMI public in the Community AMIs section of the AWS Management Console
- C. Copy the AMI to a new Amazon S3 bucket. Assign access permissions to the AMI for the additional Regions

- D. Share the AMI to the additional Regions. Assign the required access permissions.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract of AWS CloudOps Documents:
Amazon Machine Images (AMIs) are Region-specific resources. AWS CloudOps documentation explicitly states that an AMI created in one Region cannot be used to launch instances in another Region unless it is copied to the target Region. Therefore, the SysOps administrator must copy the AMI to both us-east-1 and us- east-2.
The AMI copy process creates a new AMI in each destination Region and automatically copies the underlying snapshots. Once the AMIs exist in the target Regions, they can be referenced in launch templates, Auto Scaling groups, or AWS CloudFormation templates for consistent multi-Region deployments.
Option B is incorrect because making an AMI public does not replicate it across Regions. Option C is incorrect because sharing an AMI only grants account-level access within the same Region. Option D is incorrect because AMIs cannot be launched from Amazon S3 directly.
This approach aligns with AWS CloudOps automation practices for multi-Region application deployment and disaster recovery readiness.
References:
Amazon EC2 User Guide - Copying an AMI across Regions
AWS SysOps Administrator Study Guide - AMI lifecycle management
AWS Well-Architected Framework - Deployment and automation best practices

NEW QUESTION # 145
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