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Amazon SOA-C02 Latest Braindumps Sheet | Lab SOA-C02 Questions

The field of Amazon is growing rapidly and you need the Amazon SOA-C02 certification to advance your career in it. But clearing the AWS Certified SysOps Administrator - Associate (SOA-C02) (SOA-C02) test is not an easy task. Applicants often don't have enough time to study for the SOA-C02 Exam. They are in desperate need of real AWS Certified SysOps Administrator - Associate (SOA-C02) (SOA-C02) exam questions which can help them prepare for the AWS Certified SysOps Administrator - Associate (SOA-C02) (SOA-C02) test successfully in a short time.

Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q493-Q498):

NEW QUESTION # 493

A company hosts a web application on Amazon EC2 instances behind an Application Load Balancer (ALB). The company uses Amazon Route 53 to route traffic.

The company also has a static website that is configured in an Amazon S3 bucket.

A SysOps administrator must use the static website as a backup to the web application. The failover to the static website must be fully automated.

Which combination of actions will meet these requirements? (Choose two.)

- **A. Create a primary failover routing policy record. Configure the value to be the ALB.**
- B. Create a secondary failover routing policy record. Configure the value to be the static website.
- C. Create a secondary failover routing policy record. Configure the value to be the static website. Associate the record with a Route 53 health check.
- **D. Create a primary failover routing policy record. Configure the value to be the ALB. Associate the record with a Route 53 health check.**
- E. Create an AWS Lambda function to switch from the primary website to the secondary website when the health check fails.

Answer: A,D

Explanation:

To use the static website as a backup to the web application and ensure automated failover, the SysOps administrator should set up failover routing policies in Amazon Route 53.

Failover Routing Policies:

Route 53 failover routing allows you to route traffic to a primary resource when it is healthy and automatically failover to a secondary resource when the primary becomes unhealthy.

Steps to Implement:

Primary Failover Record: Create a primary failover routing policy record and set the value to the ALB. Associate this record with a Route 53 health check that monitors the ALB.

Secondary Failover Record: Create a secondary failover routing policy record and set the value to the static website.

Reference:

Amazon Route 53 Failover Routing

NEW QUESTION # 494

A company has an application that customers use to search for records on a website. The application's data is stored in an Amazon Aurora DB cluster. The application's usage varies by season and by day of the week.

The website's popularity is increasing, and the website is experiencing slower performance because of increased load on the DB cluster during periods of peak activity. The application logs show that the performance issues occur when users are searching for information. The same search is rarely performed multiple times.

A SysOps administrator must improve the performance of the platform by using a solution that maximizes resource efficiency.

Which solution will meet these requirements?

- A. Use Provisioned IOPS on the storage volumes that support the DB cluster to improve performance sufficiently to support the peak load on the application.
- B. Increase the instance size in the DB cluster to a size that is sufficient to support the peak load on the application. Use Aurora Auto Scaling to scale the instance size based on load.
- C. Deploy an Aurora Replica for the DB cluster. Modify the application to use the reader endpoint for search operations. Use Aurora Auto Scaling to scale the number of replicas based on load. Most Voted
- **D. Deploy an Amazon ElastiCache for Redis cluster in front of the DB cluster. Modify the application to check the cache before the application issues new queries to the database. Add the results of any queries to the cache.**

Answer: D

Explanation:

Step-by-Step

Understand the Problem:

The application experiences slower performance during peak activity due to increased load on the Amazon Aurora DB cluster.

Performance issues occur primarily during search operations.

The goal is to improve performance and maximize resource efficiency.

Analyze the Requirements:

The solution should improve the performance of the platform.

It should maximize resource efficiency, which implies cost-effective and scalable options.

Evaluate the Options:

Option A: Deploy an Amazon ElastiCache for Redis cluster.

ElastiCache for Redis is a managed in-memory caching service that can significantly reduce the load on the database by caching frequently accessed data.

By modifying the application to check the cache before querying the database, repeated searches for the same information will be served from the cache, reducing the number of database reads.

This is efficient and cost-effective as it reduces database load and improves response times.

Option B: Deploy an Aurora Replica and use Auto Scaling.

Adding Aurora Replicas can help distribute read traffic and improve performance.

Aurora Auto Scaling can adjust the number of replicas based on the load.

However, this option may not be as efficient in terms of resource usage compared to caching because it still involves querying the database.

Option C: Use Provisioned IOPS.

Provisioned IOPS can improve performance by providing fast and consistent I/O.

This option focuses on improving the underlying storage performance but doesn't address the inefficiency of handling repeated searches directly.

Option D: Increase the instance size and use Auto Scaling.

Increasing the instance size can provide more resources to handle peak loads.

Aurora Auto Scaling can adjust instance sizes based on the load.

This option can be costly and may not be as efficient as caching in handling repeated searches.

Select the Best Solution:

Option A is the best solution because it leverages caching to reduce the load on the database, which directly addresses the issue of repeated searches causing performance problems. Caching is generally more resource-efficient and cost-effective compared to scaling database instances or storage.

Reference:

Amazon ElastiCache for Redis Documentation

Amazon Aurora Documentation

AWS Auto Scaling

Using ElastiCache for Redis aligns with best practices for improving application performance by offloading repetitive read queries from the database, leading to faster response times and more efficient resource usage.

NEW QUESTION # 495

A company is using AWS Certificate Manager (ACM) to manage public SSL/TLS certificates. A SysOps administrator needs to send an email notification when a certificate has less than 14 days until expiration.

Which solution will meet this requirement with the LEAST operational overhead?

- A. Create an Amazon CloudWatch dashboard that displays the DaysToExpiry metric for all ACM certificates. If DaysToExpiry is less than 14, send an email message to the appropriate email addresses. Send the email message by running a predefined CLI command to publish to an Amazon Simple Notification Service (Amazon SNS) topic.
- **B. Create an Amazon EventBridge rule that has an event source of aws.acm. Configure the rule to evaluate the DaysToExpiry metric for all ACM certificates. Configure the rule to send an event to a target Amazon Simple Notification Service (Amazon SNS) topic if DaysToExpiry is less than 14. Subscribe the appropriate email addresses to the SNS topic.**
- C. Create an Amazon EventBridge rule that has an event source of aws.acm. Configure the rule to evaluate the DaysToExpiry metric for all ACM certificates. Configure a target SMS identity that uses a predefined email template. Configure the rule to send an event to the target SMS identity if DaysToExpiry is less than 14.
- D. Create an Amazon CloudWatch custom metric to monitor certificate expiration for all ACM certificates. Create an Amazon EventBridge rule that has an event source of a ws. cloud watch Configure the rule to send an event to a target Amazon Simple Notification Service (Amazon SNS) topic if the DaysToExpiry metric is less than 14. Subscribe the appropriate email addresses to the SNS topic.

Answer: B

Explanation:

To send an email notification when an ACM certificate has less than 14 days until expiration, the most operationally efficient solution is to create an Amazon EventBridge rule that directly monitors AWS ACM for certificate expiry details. EventBridge can capture aws.acm events related to certificate expiration and evaluate the DaysToExpiry metric directly. Configure the rule to send

notifications to an Amazon SNS topic when DaysToExpiry is less than 14, and subscribe the necessary email addresses to this SNS topic. This approach avoids the need for custom metrics or manual monitoring, providing a streamlined and automatic notification system. Option B is the correct answer as it leverages native integration between ACM, EventBridge, and SNS for minimal operational overhead. More details on EventBridge rules can be found in AWS documentation EventBridge Rules.

NEW QUESTION # 496

Create an Amazon EventBridge (Amazon CloudWatch Events) rule to invoke an AWS Lambda function on a daily basis. Configure the function to restore the DB cluster to a point in time and then delete the previous DB cluster. This is the most operationally efficient solution that meets the requirements, as it will allow the company to reset the database on a daily basis without having to manually take and restore snapshots. The other solutions (creating a manual snapshot of the DB cluster, enabling the Backtrack feature, or exporting a manual snapshot of the DB cluster to Amazon S3) will require additional steps and resources to reset the database on a daily basis.

A company hosts an application on an Amazon EC2 instance in a single AWS Region. The application requires support for non-HTTP TCP traffic and HTTP traffic.

The company wants to deliver content with low latency by leveraging the AWS network. The company also wants to implement an Auto Scaling group with an Elastic Load Balancer.

How should a SysOps administrator meet these requirements?

- A. Create an Auto Scaling group with an Application Load Balancer (ALB). Add an accelerator with AWS Global Accelerator with the ALB as an endpoint.
- B. Create an Auto Scaling group with an Application Load Balancer (ALB). Add an Amazon CloudFront distribution with the ALB as the origin.
- C. Create an Auto Scaling group with a Network Load Balancer (NLB). Add an Amazon CloudFront distribution with the NLB as the origin.
- **D. Create an Auto Scaling group with a Network Load Balancer (NLB). Add an accelerator with AWS Global Accelerator with the NLB as an endpoint.**

Answer: D

Explanation:

AWS Global Accelerator and Amazon CloudFront are separate services that use the AWS global network and its edge locations around the world. CloudFront improves performance for both cacheable content (such as images and videos) and dynamic content (such as API acceleration and dynamic site delivery). Global Accelerator improves performance for a wide range of applications over TCP or UDP by proxying packets at the edge to applications running in one or more AWS Regions. Global Accelerator is a good fit for non-HTTP use cases, such as gaming (UDP), IoT (MQTT), or Voice over IP, as well as for HTTP use cases that specifically require static IP addresses or deterministic, fast regional failover. Both services integrate with AWS Shield for DDoS protection.

<https://medium.com/awesome-cloud/aws-difference-between-application-load-balancer-and-network-load-balancer-cb8b6cd296a4> https://aws.amazon.com/global-accelerator/faqs/?nc1=h_ls

NEW QUESTION # 497

A company has an existing web application that runs on two Amazon EC2 instances behind an Application Load Balancer (ALB) across two Availability Zones. The application uses an Amazon RDS Multi-AZ DB Instance. Amazon Route 53 record sets route requests for dynamic content to the load balancer and requests for static content to an Amazon S3 bucket. Site visitors are reporting extremely long loading times.

Which actions should be taken to improve the performance of the website? (Select TWO)

- A. Move the static content from Amazon S3 to the web servers
- **B. Add Amazon CloudFront caching for static content**
- **C. Implement Amazon EC2 Auto Scaling for the web servers**
- D. Enable Amazon Route 53 latency-based routing
- E. Change the load balancer listener from HTTPS to TCP

Answer: B,C

Explanation:

To improve the performance of the website with long loading times, leveraging Amazon CloudFront for caching static content and implementing EC2 Auto Scaling are effective strategies.

* Add Amazon CloudFront Caching:

- * Navigate to the CloudFront console and create a new distribution.
- * For the origin, specify the S3 bucket where the static content is stored.
- * Configure caching settings to ensure that static content is cached at edge locations for faster delivery to end users.
- * Update the DNS settings in Amazon Route 53 to point to the CloudFront distribution for static content.
- * Implement EC2 Auto Scaling:
- * Go to the EC2 console and create a new launch configuration or launch template for the web servers.
- * Set up an Auto Scaling group using the launch configuration/template.
- * Configure the Auto Scaling group to use health checks, and specify the desired, minimum, and maximum number of instances.
- * Define scaling policies to add or remove instances based on CPU utilization or other metrics.
- * Distribute instances across multiple Availability Zones for high availability.

References:

- * Amazon CloudFront Developer Guide
- * Amazon EC2 Auto Scaling

NEW QUESTION # 498

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