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>> SAA-C03 Exam <<

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Die Amazon SAA-C03-Prüfung ist ein Zertifizierungstest, der die Fähigkeiten und Kenntnisse zur Entwurf und Bereitstellung skalierbarer, hoch verfügbarer und fehlertoleranter Systeme auf der Amazon Web Services (AWS) bestätigt. Diese Prüfung richtet sich an Personen, die AWS Certified Solutions Architects werden möchten. Die SAA-C03-Prüfung deckt eine breite Palette von Themen ab, darunter AWS-Infrastruktur-, Sicherheits-, Netzwerk- und Speicherdienste.

Amazon AWS Certified Solutions Architect - Associate SAA-C03 Prüfungsfragen mit Lösungen (Q278-Q283):

278. Frage

A solutions architect is designing the cloud architecture for a new application being deployed on AWS. The process should run in parallel while adding and removing application nodes as needed based on the number of jobs to be processed. The processor application is stateless. The solutions architect must ensure that the application is loosely coupled and the job items are durably stored. Which design should the solutions architect use?

- A. Create an Amazon SNS topic to send the jobs that need to be processed.
Create an Amazon Machine Image (AMI) that consists of the processor application.
Create a launch template that uses the AMI.
Create an Auto Scaling group using the launch template.

Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of messages published to the SNS topic

- B. Create an Amazon SQS queue to hold the jobs that need to be processed.
Create an Amazon Machine image (AMI) that consists of the processor application.
Create a launch configuration that uses the AMI.
Create an Auto Scaling group using the launch configuration.
Set the scaling policy for the Auto Scaling group to add and remove nodes based on network usage.
- C. Create an Amazon SQS queue to hold the jobs that needs to be processed.
Create an Amazon Machine image (AMI) that consists of the processor application.
Create a launch template that uses the AMI.
Create an Auto Scaling group using the launch template.
Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of items in the SQS queue.
- D. Create an Amazon SNS topic to send the jobs that need to be processed.
Create an Amazon Machine Image (AMI) that consists of the processor application.
Create a launch configuration that uses the AMI.
Create an Auto Scaling group using the launch configuration.
Set the scaling policy for the Auto Scaling group to add and remove nodes based on CPU usage.

Antwort: C

Begründung:

"Create an Amazon SQS queue to hold the jobs that needs to be processed. Create an Amazon EC2 Auto Scaling group for the compute application. Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of items in the SQS queue" In this case we need to find a durable and loosely coupled solution for storing jobs. Amazon SQS is ideal for this use case and can be configured to use dynamic scaling based on the number of jobs waiting in the queue. To configure this scaling you can use the backlog per instance metric with the target value being the acceptable backlog per instance to maintain. You can calculate these numbers as follows: Backlog per instance: To calculate your backlog per instance, start with the ApproximateNumberOfMessages queue attribute to determine the length of the SQS queue

279. Frage

A company has built an application that uses an Amazon Simple Queue Service (Amazon SQS) standard queue and an AWS Lambda function. The Lambda function writes messages to the SQS queue. The company needs a solution to ensure that the consumer of the SQS queue never receives duplicate messages.

Which solution will meet this requirement with the FEWEST changes to the current architecture?

- A. Delete the existing SQS queue. Recreate the queue as a FIFO queue. Enable content-based deduplication for the queue.
- B. Modify the SQS queue to enable long polling for the queue.
- C. Modify the SQS queue to enable content-based deduplication for the queue.
- D. Delete the SQS queue. Create an Amazon MQ message broker. Configure the broker to deduplicate messages.

Antwort: A

Begründung:

* SQS Standard queues provide at-least-once delivery; they can, by design, deliver duplicate messages, and you cannot turn that off.

* To guarantee no duplicates to consumers, AWS provides SQS FIFO queues with exactly-once processing semantics in conjunction with deduplication.

* The minimal change to achieve this behavior is to:

* Recreate the queue as a FIFO queue and

* Enable content-based deduplication, so SQS automatically deduplicates messages with identical bodies within the deduplication window.

Why others are not correct:

* A: Long polling reduces empty responses and costs but does not eliminate duplicates.

* C: Content-based deduplication is available only for FIFO queues, not for standard queues-so you cannot "modify" a standard queue this way.

* D: Moving to Amazon MQ is a much bigger architectural change and adds more operational overhead; it's not the "fewest changes" approach.

280. Frage

A company hosts a containerized web application on a fleet of on-premises servers that process incoming requests. The number of requests is growing quickly. The on-premises servers cannot handle the increased number of requests. The company wants to move the application to AWS with minimum code changes and minimum development effort. Which solution will meet these requirements with the LEAST operational overhead?

- **A. Use AWS Fargate on Amazon Elastic Container Service (Amazon ECS) to run the containerized web application with Service Auto Scaling. Use an Application Load Balancer to distribute the incoming requests.**
- B. Use two Amazon EC2 instances to host the containerized web application. Use an Application Load Balancer to distribute the incoming requests
- C. Use a high performance computing (HPC) solution such as AWS ParallelCluster to establish an HPC cluster that can process the incoming requests at the appropriate scale.
- D. Use AWS Lambda with a new code that uses one of the supported languages. Create multiple Lambda functions to support the load. Use Amazon API Gateway as an entry point to the Lambda functions.

Antwort: A

281. Frage

A developer creates a web application that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances are in an Auto Scaling group. The developer reviews the deployment and notices some suspicious traffic to the application. The traffic is malicious and is coming from a single public IP address. A solutions architect must block the public IP address. Which solution will meet this requirement?

- A. Implement Amazon Detective to monitor traffic and to block malicious activity from the internet. Configure Detective to integrate with the ALB.
- **B. Add the malicious IP address to an IP set in AWS WAF. Create a web ACL. Include an IP set rule with the action set to BLOCK. Associate the web ACL with the ALB.**
- C. Implement AWS Resource Access Manager (AWS RAM) to manage traffic rules and to block malicious activity from the internet. Associate AWS RAM with the ALB.
- D. Create a security group rule to deny all inbound traffic from the suspicious IP address. Associate the security group with the ALB.

Antwort: B

Begründung:

When an application is fronted by an Application Load Balancer (ALB) and malicious traffic is detected from a specific IP, the correct way to block the IP is by using AWS WAF (Web Application Firewall).

With AWS WAF, you can create an IP Set to include the offending IP address or range.

Then create a Web ACL (Access Control List) with a rule set to BLOCK requests from that IP set.

Finally, associate the Web ACL with the ALB.

Security groups (Option A) cannot deny specific IPs because they are stateful and allow-only rules.

Amazon Detective (Option B) is a security analysis and investigation tool; it doesn't block traffic.

AWS RAM (Option C) is for resource sharing across accounts, not for blocking IPs.

This approach aligns with AWS's Security Pillar of the Well-Architected Framework and is fully managed, with minimal operational effort.

282. Frage

A company has an application that processes customer orders. The company hosts the application on an Amazon EC2 instance that saves the orders to an Amazon Aurora database. Occasionally when traffic is high: the workload does not process orders fast enough.

What should a solutions architect do to write the orders reliably to the database as quickly as possible?

- A. Write orders to an Amazon Simple Queue Service (Amazon SQS) queue when the EC2 instance reaches CPU threshold limits. Use scheduled scaling of EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SQS queue and process orders into the database
- B. Write orders to Amazon Simple Notification Service (Amazon SNS) Subscribe the database endpoint to the SNS topic Use EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SNS topic.
- C. Increase the instance size of the EC2 instance when traffic is high. Write orders to Amazon Simple Notification Service (Amazon SNS). Subscribe the database endpoint to the SNS topic.
- **D. Write orders to an Amazon Simple Queue Service (Amazon SQS) queue. Use EC2 instances in an Auto Scaling group**

behind an Application Load Balancer to read from the SQS queue and process orders into the database.

Antwort: D

Begründung:

Explanation

Amazon SQS is a fully managed message queuing service that can decouple and scale microservices, distributed systems, and serverless applications. By writing orders to an SQS queue, the application can handle spikes in traffic without losing any orders. The EC2 instances in an Auto Scaling group can read from the SQS queue and process orders into the database at a steady pace. The Application Load Balancer can distribute the load across the EC2 instances and provide health checks. This solution meets all the requirements of the question, while the other options do not. References:

* <https://docs.aws.amazon.com/wellarchitected/latest/reliability-pillar/welcome.html>

* <https://aws.amazon.com/architecture/serverless/>

* <https://aws.amazon.com/sqs/>

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