

# Mock SAA-C03 Exams - Free SAA-C03 Download



AWS Certified Solutions Architect - Associate (SAA-C03)  
Sample Exam Questions

1) A company runs a public-facing three-tier web application in a VPC across multiple Availability Zones. Amazon EC2 instances for the application tier running in private subnets need to download software patches from the internet. However, the EC2 instances cannot be directly accessible from the internet.

Which actions should be taken to allow the EC2 instances to download the needed patches? (Select TWO.)

- A) Configure a NAT gateway in a public subnet.
- B) Define a custom route table with a route to the NAT gateway for internet traffic and associate it with the private subnets for the application tier.
- C) Assign Elastic IP addresses to the EC2 instances.
- D) Define a custom route table with a route to the internet gateway for internet traffic and associate it with the private subnets for the application tier.
- E) Configure a NAT instance in a private subnet.

2) A solutions architect wants to design a solution to save costs for Amazon EC2 instances that do not need to run during a 2-week company shutdown. The applications running on the EC2 instances store data in instance memory that must be present when the instances resume operation.

Which approach should the solutions architect recommend to shut down and resume the EC2 instances?

- A) Modify the application to store the data on instance store volumes. Reattach the volumes while restarting them.

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The SAA-C03 Certification Exam covers a wide range of topics, including AWS architecture, deployment, security, and troubleshooting. Candidates are required to have a strong understanding of AWS services, including EC2, S3, RDS, and VPC. They should also be familiar with AWS best practices and have hands-on experience with AWS services.

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Amazon SAA-C03 Certification is highly valued by employers and is recognized worldwide. It is a clear indication of the candidate's knowledge and expertise in AWS, and it demonstrates their ability to design and deploy highly available and fault-tolerant systems on AWS. AWS Certified Solutions Architect - Associate certification also opens up new job opportunities and career advancements.

## Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q819-Q824):

### NEW QUESTION # 819

A company wants to migrate an on-premises video processing application to AWS. Processing times range from 5-30 minutes. The application must run multiple jobs in parallel. The application processes videos that users upload to an Amazon S3 bucket. Which solution will meet these requirements with the LEAST operational overhead?

- A. Configure the S3 bucket to send S3 event notifications to an Amazon SNS topic. Deploy the application as an AWS Lambda function. Configure the SNS topic to invoke the Lambda function.
- B. Configure the S3 bucket to send S3 event notifications to an Amazon SQS standard queue. Deploy the application as an

AWS Lambda function. Configure the Lambda function to poll the SQS queue.

- C. Configure the S3 bucket to send S3 event notifications to an Amazon SQS standard queue. Deploy the application on an Amazon ECS cluster. Configure automatic scaling for AWS Fargate tasks based on the SQS queue size.
- D. Configure the S3 bucket to send S3 event notifications to an Amazon SQS FIFO queue. Deploy the application on Amazon EC2 instances. Create an Auto Scaling group to scale based on the SQS queue size.

**Answer: C**

Explanation:

The correct answer is A because the application processes videos for 5-30 minutes, must run multiple jobs in parallel, and should have the least operational overhead. Amazon ECS with AWS Fargate is a managed container solution that removes the need to provision and manage EC2 instances while still supporting longer-running parallel jobs. Using Amazon SQS standard queues decouples the upload event from processing and provides a scalable buffer for incoming work.

With this design, Amazon S3 sends object-created notifications to the SQS queue whenever users upload videos. ECS services or tasks on Fargate can then consume messages from the queue and process videos independently. Auto scaling based on SQS queue depth ensures the system increases task count when more videos arrive and decreases capacity when demand drops. This provides elasticity and efficient parallel processing with minimal infrastructure management.

Option B is incorrect because EC2-based scaling introduces more operational overhead than Fargate. Option C is incorrect because AWS Lambda has a maximum execution duration and is not appropriate for jobs that can run up to 30 minutes. Option D is also incorrect for the same reason; Lambda is not the best fit for this processing duration, and SNS does not provide the same durable queued work pattern as SQS for controlled parallel processing.

AWS best practices recommend using event-driven queues with containerized workers for medium-duration processing jobs that need concurrency and minimal management. Therefore, S3 + SQS + ECS on Fargate with queue-based scaling is the best solution.

#### NEW QUESTION # 820

A social media company allows users to upload images to its website. The website runs on Amazon EC2 instances. During upload requests, the website resizes the images to a standard size and stores the resized images in Amazon S3. Users are experiencing slow upload requests to the website.

The company needs to reduce coupling within the application and improve website performance. A solutions architect must design the most operationally efficient process for image uploads.

Which combination of actions should the solutions architect take to meet these requirements? (Choose two.)

- A. Configure the application to upload images to S3 Glacier.
- B. Configure the web server to upload the original images to Amazon S3.
- C. Configure the application to upload images directly from each user's browser to Amazon S3 through the use of a presigned URL.
- D. Configure S3 Event Notifications to invoke an AWS Lambda function when an image is uploaded. Use the function to resize the image.
- E. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function on a schedule to resize uploaded images.

**Answer: B,D**

#### NEW QUESTION # 821

[Design High-Performing Architectures]

A company is developing a two-tier web application on AWS. The company's developers have deployed the application on an Amazon EC2 instance that connects directly to a backend Amazon RDS database. The company must not hardcode database credentials in the application. The company must also implement a solution to automatically rotate the database credentials on a regular basis.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Store the database credentials in the instance metadata. Use Amazon EventBridge (Amazon CloudWatch Events) rules to run a scheduled AWS Lambda function that updates the RDS credentials and instance metadata at the same time.
- B. Store the database credentials in a configuration file in an encrypted Amazon S3 bucket. Use Amazon EventBridge (Amazon CloudWatch Events) rules to run a scheduled AWS Lambda function that updates the RDS credentials and the credentials in the configuration file at the same time. Use S3 Versioning to ensure the ability to fall back to previous values.
- C. Store the database credentials as encrypted parameters in AWS Systems Manager Parameter Store. Turn on automatic rotation for the encrypted parameters. Attach the required permission to the EC2 role to grant access to the encrypted parameters.

- **D. Store the database credentials as a secret in AWS Secrets Manager. Turn on automatic rotation for the secret. Attach the required permission to the EC2 role to grant access to the secret.**

**Answer: D**

Explanation:

[https://docs.aws.amazon.com/secretsmanager/latest/userguide/create\\_database\\_secret.html](https://docs.aws.amazon.com/secretsmanager/latest/userguide/create_database_secret.html)

### NEW QUESTION # 822

A company's reporting system delivers hundreds of .csv files to an Amazon S3 bucket each day.

The company must convert these files to Apache Parquet format and must store the files in a transformed data bucket. Which solution will meet these requirements with the LEAST development effort?

- A. Create an AWS Lambda function to transform the data and output the data to the transformed data bucket. Configure an event notification for the S3 bucket. Specify the Lambda function as the destination for the event notification.
- B. Create an Amazon EMR cluster with Apache Spark installed. Write a Spark application to transform the data. Use EMR File System (EMRFS) to write files to the transformed data bucket.
- **C. Create an AWS Glue crawler to discover the data. Create an AWS Glue extract, transform, and load (ETL) job to transform the data. Specify the transformed data bucket in the output step.**
- D. Use AWS Batch to create a job definition with Bash syntax to transform the data and output the data to the transformed data bucket. Use the job definition to submit a job. Specify an array job as the job type.

**Answer: C**

Explanation:

AWS Glue provides a serverless ETL solution requiring minimal development. Glue supports conversion to Parquet with managed jobs and integrates with S3 for output.

### NEW QUESTION # 823

[Design Resilient Architectures]

A company is building a new furniture inventory application. The company has deployed the application on a fleet of Amazon EC2 instances across multiple Availability Zones. The EC2 instances run behind an Application Load Balancer (ALB) in their VPC.

A solutions architect has observed that incoming traffic seems to favor one EC2 instance, resulting in latency for some requests.

What should the solutions architect do to resolve this issue?

- A. Increase the number of EC2 instances in each Availability Zone.
- B. Adjust the frequency of the health checks on the ALB's target group.
- C. Replace the ALB with a Network Load Balancer.
- **D. Disable session affinity (sticky sessions) on the ALB.**

**Answer: D**

Explanation:

The issue described in the question, where incoming traffic seems to favor one EC2 instance, is often caused by session affinity (also known as sticky sessions) being enabled on the Application Load Balancer (ALB). When session affinity is enabled, the ALB routes requests from the same client to the same EC2 instance. This can cause an imbalance in traffic distribution, leading to performance bottlenecks on certain instances while others remain underutilized.

To resolve this issue, disabling session affinity ensures that the ALB distributes incoming traffic evenly across all EC2 instances, allowing better load distribution and reducing latency. The ALB will rely on its round-robin or least outstanding requests algorithm (depending on the configuration) to distribute traffic more evenly across instances.

Option B (Network Load Balancer): The NLB is designed for Layer 4 (TCP) traffic and low latency use cases, but it is not needed here as the problem is with load balancing logic at the application layer (Layer 7). The ALB is more appropriate for HTTP/HTTPS traffic.

Option C (Increase EC2 Instances): Adding more EC2 instances does not solve the root issue of uneven traffic distribution.

Option D (Health Check Frequency): Adjusting health check frequency won't address the imbalance caused by session affinity.

AWS Reference:

Application Load Balancer Sticky Sessions

## NEW QUESTION # 824

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