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AWS Certified Solutions Architect – Associate SAA-C03 Exam Questions and Answers

Exam Question 1

A company is migrating from an on-premises infrastructure to the AWS Cloud. One of the company's applications stores files on a Windows file server farm that uses Distributed File System Replication (DFS-R) to keep data in sync. A solutions architect needs to replace the file server farm.

Which service should the solutions architect use?

- A. Amazon EFS
- B. Amazon FSx
- C. Amazon S3
- D. AWS Storage Gateway

Correct Answer

B. Amazon FSx

Exam Question 2

A company has a legacy application that processes data in two parts. The second part of the process takes longer than the first, so the company has decided to rewrite the application as two microservices running on Amazon ECS that can scale independently.

How should a solutions architect integrate the microservices?

- A. Implement code in microservice 1 to send data to an Amazon S3 bucket. Use S3 event notifications to invoke microservice 2.
- B. Implement code in microservice 1 to publish data to an Amazon SNS topic. Implement code in microservice 2 to subscribe to this topic.
- C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose. Implement code in microservice 2 to read from Kinesis Data Firehose.
- D. Implement code in microservice 1 to send data to an Amazon SQS queue. Implement code in microservice 2 to process messages from the queue.

Correct Answer

C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose. Implement code in microservice 2 to read from Kinesis Data Firehose.

Exam Question 3

A company captures clickstream data from multiple websites and analyzes it using batch processing. The data is loaded nightly into Amazon Redshift and is consumed by business

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Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q647-Q652):

NEW QUESTION # 647

A company uses Amazon S3 as its data lake. The company has a new partner that must use SFTP to upload data files. A solutions architect needs to implement a highly available SFTP solution that minimizes operational overhead. Which solution will meet these requirements?

- A. Launch an Amazon EC2 instance in a private subnet in a VPC. Instruct the new partner to upload files to the EC2 instance by using a VPN. Run a cron job script on the EC2 instance to upload files to the S3 data lake
- **B. Use AWS Transfer Family to configure an SFTP-enabled server with a publicly accessible endpoint. Choose the S3 data lake as the destination.**
- C. Use Amazon S3 File Gateway as an SFTP server. Expose the S3 File Gateway endpoint URL to the new partner. Share the S3 File Gateway endpoint with the new partner
- D. Launch Amazon EC2 instances in a private subnet in a VPC. Place a Network Load Balancer (NLB) in front of the EC2 instances. Create an SFTP listener port for the NLB. Share the NLB hostname with the new partner. Run a cron job script on the EC2 instances to upload files to the S3 data lake.

Answer: B

Explanation:

This option is the most cost-effective and simple way to enable SFTP access to the S3 data lake. AWS Transfer Family is a fully managed service that supports secure file transfers over SFTP, FTPS, and FTP protocols. You can create an SFTP-enabled server with a public endpoint and associate it with your S3 bucket. You can also use AWS Identity and Access Management (IAM) roles and policies to control access to your S3 data lake. The service scales automatically to handle any volume of file transfers and provides high availability and durability. You do not need to provision, manage, or patch any servers or load balancers.

Option B is not correct because Amazon S3 File Gateway is not an SFTP server. It is a hybrid cloud storage service that provides a local file system interface to S3. You can use it to store and retrieve files as objects in S3 using standard file protocols such as NFS and SMB. However, it does not support SFTP protocol, and it requires deploying a file gateway appliance on-premises or on EC2. Option C is not cost-effective or scalable because it requires launching and managing an EC2 instance in a private subnet and setting up a VPN connection for the new partner. This would incur additional costs for the EC2 instance, the VPN connection, and the data transfer. It would also introduce complexity and security risks to the solution. Moreover, it would require running a cron job script on the EC2 instance to upload files to the S3 data lake, which is not efficient or reliable.

Option D is not cost-effective or scalable because it requires launching and managing multiple EC2 instances in a private subnet and placing a NLB in front of them. This would incur additional costs for the EC2 instances, the NLB, and the data transfer. It would also introduce complexity and security risks to the solution. Moreover, it would require running a cron job script on the EC2 instances to upload files to the S3 data lake, which is not efficient or reliable. Reference:

What Is AWS Transfer Family?

What Is Amazon S3 File Gateway?

What Is Amazon EC2?

[What Is Amazon Virtual Private Cloud?]

[What Is a Network Load Balancer?]

NEW QUESTION # 648

A company's packaged application dynamically creates and returns single-use text files in response to user requests. The company is using Amazon CloudFront for distribution but wants to further reduce data transfer costs. The company cannot modify the application's source code.

What should a solutions architect do to reduce costs?

- A. Enable Amazon S3 Transfer Acceleration to reduce the response times.
- B. Use Lambda@Edge to compress the files as they are sent to users.
- **C. Enable caching on the CloudFront distribution to store generated files at the edge.**
- D. Use Amazon S3 multipart uploads to move the files to Amazon S3 before returning them to users.

Answer: C

Explanation:

In this scenario, the application generates dynamic, single-use files that are distributed via CloudFront. Since the application source code cannot be changed, modifying the files at the origin or altering the generation process is not possible.

AWS CloudFront caching is designed to reduce data transfer costs by caching responses at edge locations closer to users. Enabling caching for the CloudFront distribution can store the files temporarily at the edge, minimizing repeated data transfers from the origin and thereby lowering costs. Although these files are single-use, CloudFront can be configured with appropriate cache-control headers or TTL (time-to-live) values to cache files for even short periods, which reduces data transfer.

Lambda@Edge (Option A) can compress files but requires modification of responses and adds operational complexity. Also, it may not be as cost-effective as caching, especially if files are large or numerous. Amazon S3 Transfer Acceleration (Option B) optimizes data transfer into S3 but doesn't reduce transfer costs from CloudFront. Multipart uploads (Option D) are used to optimize large file uploads and do not impact cost related to distribution or caching.

Reference:

AWS Well-Architected Framework - Cost Optimization Pillar (https://d1.awsstatic.com/whitepapers/architecture/AWS_Well-Architected_Framework.pdf) Amazon CloudFront Caching

(<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/Expiration.html>) AWS Lambda@Edge Overview (<https://docs.aws.amazon.com/lambda/latest/dg/lambda-edge.html>)

NEW QUESTION # 649

A company has an application that places hundreds of .csv files into an Amazon S3 bucket every hour. The files are 1 GB in size. Each time a file is uploaded, the company needs to convert the file to Apache Parquet format and place the output file into an S3 bucket.

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

- A. Create an AWS Lambda function to download the .csv files, convert the files to Parquet format, and place the output files in an S3 bucket. Invoke the Lambda function for each S3 PUT event.
- B. Create an Apache Spark job to read the .csv files, convert the files to Parquet format, and place the output files in an S3 bucket. Create an AWS Lambda function for each S3 PUT event to invoke the Spark job.
- C. Create an AWS Glue extract, transform, and load (ETL) job to convert the .csv files to Parquet format and place the output files into an S3 bucket. Create an AWS Lambda function for each S3 PUT event to invoke the ETL job.
- D. Create an AWS Glue table and an AWS Glue crawler for the S3 bucket where the application places the .csv files. Schedule an AWS Lambda function to periodically use Amazon Athena to query the AWS Glue table, convert the query results into Parquet format, and place the output files into an S3 bucket.

Answer: C

Explanation:

Explanation

<https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/three-aws-glue-etl-job-types-for-converting-d>

NEW QUESTION # 650

A company is storing 700 terabytes of data on a large network-attached storage (NAS) system in its corporate data center. The company has a hybrid environment with a 10 Gbps AWS Direct Connect connection.

After an audit from a regulator, the company has 90 days to move the data to the cloud. The company needs to move the data efficiently and without disruption. The company still needs to be able to access and update the data during the transfer window.

Which solution will meet these requirements?

- A. Use rsync to copy the data directly from local storage to a designated Amazon S3 bucket over the Direct Connect connection.
- B. Back up the data on tapes. Ship the tapes to an AWS data center. Mount a target Amazon S3 bucket on the on-premises file system.
- C. Back up the data to AWS Snowball Edge Storage Optimized devices. Ship the devices to an AWS data center. Mount a target Amazon S3 bucket on the on-premises file system.
- D. Create an AWS DataSync agent in the corporate data center. Create a data transfer task. Start the transfer to an Amazon S3 bucket.

Answer: D

Explanation:

Explanation

This answer is correct because it meets the requirements of moving the data efficiently and without disruption, and still being able to access and update the data during the transfer window. AWS DataSync is an online data movement and discovery service that simplifies and accelerates data migrations to AWS and helps you move data quickly and securely between on-premises storage, edge locations, other clouds, and AWS Storage. You can create an AWS DataSync agent in the corporate data center to connect your NAS system to AWS over the Direct Connect connection. You can create a data transfer task to specify the source location, destination location, and options for transferring the data. You can start the transfer to an Amazon S3 bucket and monitor the progress of the task. DataSync automatically encrypts data in transit and verifies data integrity during transfer. DataSync also supports incremental transfers, which means that only files that have changed since the last transfer are copied. This way, you can ensure that your data is synchronized between your NAS system and S3 bucket, and you can access and update the data during the transfer window.

References:

- * <https://docs.aws.amazon.com/datasync/latest/userguide/what-is-datasync.html>
- * <https://docs.aws.amazon.com/datasync/latest/userguide/how-datasync-works.html>

NEW QUESTION # 651

A company wants to migrate 100 GB of historical data from an on-premises location to an Amazon S3 bucket. The company has a 100 megabits per second (Mbps) internet connection on premises. The company needs to encrypt the data in transit to the S3 bucket. The company will store new data directly in Amazon S3.

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

- A. Use AWS Snowball to move the data to an S3 bucket.
- B. Use the s3 sync command in the AWS CLI to move the data directly to an S3 bucket.
- **C. Use AWS DataSync to migrate the data from the on-premises location to an S3 bucket.**
- D. Set up an IPsec VPN from the on-premises location to AWS. Use the s3 cp command in the AWS CLI to move the data directly to an S3 bucket.

Answer: C

Explanation:

AWS DataSync is a data transfer service that makes it easy for you to move large amounts of data online between on-premises storage and AWS storage services over the internet or AWS Direct Connect. DataSync automatically encrypts your data in transit using TLS encryption, and verifies data integrity during transfer using checksums. DataSync can transfer data up to 10 times faster than open-source tools, and reduces operational overhead by simplifying and automating tasks such as scheduling, monitoring, and resuming transfers. References: <https://aws.amazon.com/datasync/>

NEW QUESTION # 652

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