



SAA-C03^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C03)

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**QUESTION 1**

A bicycle sharing company is developing a multi-tier architecture to track the location of its bicycles during peak operating hours. The company wants to use these data points in its existing analytics platform. A solutions architect must determine the most viable multi-tier option to support this architecture. The data points must be accessible from the REST API.

Which action meets these requirements for storing and retrieving location data?

- A. Use Amazon Athena with Amazon S3
- B. Use Amazon API Gateway with AWS Lambda
- C. Use Amazon QuickSight with Amazon Redshift.
- D. Use Amazon API Gateway with Amazon Kinesis Data Analytics

Correct Answer: D

<https://aws.amazon.com/solutions/implementations/aws-streaming-data-solution-for-amazon-kinesis/>

QUESTION 2

A company is looking for a solution that can store video archives in AWS from old news footage. The company needs to minimize costs and will rarely need to restore these files. When the files are needed, they must be available in a maximum of five minutes.

What is the MOST cost-effective solution?

- A. Store the video archives in Amazon S3 Glacier and use Expedited retrievals.
- B. Store the video archives in Amazon S3 Glacier and use Standard retrievals.
- C. Store the video archives in Amazon S3 Standard-Infrequent Access (S3 Standard-IA).
- D. Store the video archives in Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA)

Correct Answer: A

Amazon S3 Glacier is a storage class that provides secure, durable, and extremely low-cost storage for data archiving and long-term backup. It is designed for data that is rarely accessed and for which retrieval times of several hours are suitable¹. By storing the video archives in Amazon S3 Glacier, the solution can minimize costs. Amazon S3 Glacier offers three options for data retrieval: Expedited, Standard, and Bulk. Expedited retrievals typically return data in 1? minutes and are suitable for Active Archive use cases. Standard retrievals typically complete within 3? hours and are suitable for less urgent needs. Bulk retrievals typically complete within 5?2 hours and are the lowest-cost retrieval option². By using Expedited retrievals, the solution can meet the requirement of restoring the files in a maximum of five minutes. B. Store the video archives in Amazon S3 Glacier and use Standard retrievals. This solution will not meet the requirement of restoring the files in a maximum of five minutes, as Standard retrievals typically complete within 3? hours. C. Store the video archives in Amazon S3 Standard-Infrequent Access (S3 Standard-IA). This solution will not meet the requirement of minimizing costs, as S3 Standard-IA is a storage class that provides low-cost storage for data that is accessed less frequently but requires rapid access when needed. It has a higher storage cost than S3 Glacier. D. Store the video archives in Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA). This solution will not meet the requirement of minimizing costs, as S3 One Zone-IA is a storage class that provides low-cost storage for data that is



accessed less frequently but requires rapid access when needed. It has a higher storage cost than S3 Glacier.
Reference URL: <https://aws.amazon.com/s3/glacier/>

QUESTION 3

A company runs an infrastructure monitoring service. The company is building a new feature that will enable the service to monitor data in customer AWS accounts. The new feature will call AWS APIs in customer accounts to describe Amazon EC2 instances and read Amazon CloudWatch metrics.

What should the company do to obtain access to customer accounts in the MOST secure way?

- A. Ensure that the customers create an IAM role in their account with read-only EC2 and CloudWatch permissions and a trust policy to the company's account.
- B. Create a serverless API that implements a token vending machine to provide temporary AWS credentials for a role with read-only EC2 and CloudWatch permissions.
- C. Ensure that the customers create an IAM user in their account with read-only EC2 and CloudWatch permissions. Encrypt and store customer access and secret keys in a secrets management system.
- D. Ensure that the customers create an Amazon Cognito user in their account to use an IAM role with read-only EC2 and CloudWatch permissions. Encrypt and store the Amazon Cognito user and password in a secrets management system.

Correct Answer: A

By having customers create an IAM role with the necessary permissions in their own accounts, the company can use AWS Identity and Access Management (IAM) to establish cross-account access. The trust policy allows the company's AWS account to assume the customer's IAM role temporarily, granting access to the specified resources (EC2 instances and CloudWatch metrics) within the customer's account. This approach follows the principle of least privilege, as the company only requests the necessary permissions and does not require long-term access keys or user credentials from the customers.

QUESTION 4

A company has 5 PB of archived data on physical tapes. The company needs to preserve the data on the tapes for another 10 years for compliance purposes. The company wants to migrate to AWS in the next 6 months. The data center that stores the tapes has a 1 Gbps uplink internet connectivity.

Which solution will meet these requirements MOST cost-effectively?

- A. Read the data from the tapes on premises. Stage the data in a local NFS storage. Use AWS DataSync to migrate the data to Amazon S3 Glacier Flexible Retrieval.
- B. Use an on-premises backup application to read the data from the tapes and to write directly to Amazon S3 Glacier Deep Archive.
- C. Order multiple AWS Snowball devices that have Tape Gateway. Copy the physical tapes to virtual tapes in Snowball. Ship the Snowball devices to AWS. Create a lifecycle policy to move the tapes to Amazon S3 Glacier Deep Archive.
- D. Configure an on-premises Tape Gateway. Create virtual tapes in the AWS Cloud. Use backup software to copy the physical tape to the virtual tape.



Correct Answer: C

QUESTION 5

A company uses an Amazon CloudFront distribution to serve content pages for its website. The company needs to ensure that clients use a TLS certificate when accessing the company's website. The company wants to automate the creation and renewal of the TLS certificates.

Which solution will meet these requirements with the MOST operational efficiency?

- A. Use a CloudFront security policy to create a certificate.
- B. Use a CloudFront origin access control (OAC) to create a certificate.
- C. Use AWS Certificate Manager (ACM) to create a certificate. Use DNS validation for the domain.
- D. Use AWS Certificate Manager (ACM) to create a certificate. Use email validation for the domain.

Correct Answer: C

"DNS Validation is preferred for automation purposes" -- Stephane's course on Udemy

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