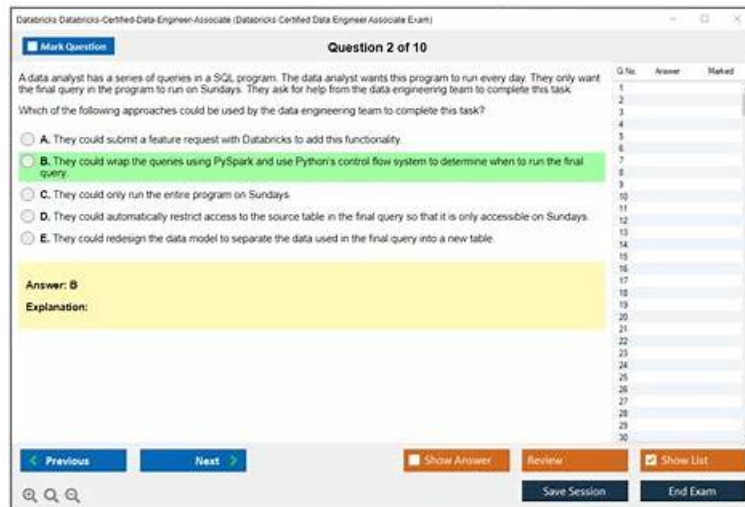


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Amazon Data-Engineer-Associate Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Data Store Management	26%	- Choose a data store
		1. Data lakes vs. data warehouses 2. Amazon S3, Amazon RDS, Amazon DynamoDB, Amazon Redshift 3. Data characteristics (structured, semi-structured, unstructured) 4. Access and storage patterns
		- Manage data lifecycle
		1. Amazon S3 storage classes 2. Data retention policies 3. Data archiving
		- Understand data cataloging
		1. Data discovery and classification 2. AWS Glue Data Catalog 3. Schema evolution
		- Design data models
		1. Normalization and denormalization 2. Schema design 3. Partitioning and indexing strategies

			- Ensure data encryption • 1. AWS KMS • 2. Encryption at rest and in transit - Implement data quality checks • 1. Data validation • 2. AWS Glue DataBrew
Topic 2: Data Security and Governance	18%		- Apply authentication and authorization • 1. AWS IAM policies and roles • 2. Service control policies (SCPs) • 3. Amazon S3 bucket policies - Manage data privacy and compliance • 1. Data masking and tokenization • 2. AWS Lake Formation permissions • 3. PII data handling - Monitor data pipelines • 1. AWS CloudTrail • 2. Logging and metrics • 3. Amazon CloudWatch - Manage and troubleshoot data processes • 1. Debugging failed jobs • 2. Cost optimization • 3. Performance tuning
Topic 3: Data Operations and Support	22%		- Automate data pipelines • 1. Event-driven triggers • 2. AWS Lambda triggers • 3. Scheduling jobs

- Apply programming concepts
 - 1. Version control
 - 2. SQL, Python, Scala
 - 3. Infrastructure as Code (IaC)
 - Transform and process data
 - 1. Batch and stream processing
 - 2. Data partitioning and compression
 - 3. ETL/ELT patterns
 - 4. Data transformation services (AWS Glue, Amazon EMR, AWS Lambda)
- Topic 4: Data Ingestion and Transformation 34%
- Perform data ingestion
 - 1. Throughput and latency characteristics for AWS services
 - 2. Replayability of data
 - 3. Streaming data ingestion
 - 4. Data ingestion patterns (frequency and data history)
 - 5. Batch data ingestion (scheduled ingestion, event-driven ingestion)
 - Orchestrate data pipelines
 - 1. Amazon Managed Workflows for Apache Airflow (MWAA)
 - 2. Event-driven architectures
 - 3. AWS Step Functions
 - 4. AWS Glue Workflows

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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q38-Q43):

NEW QUESTION # 38

A company uses Amazon Athena to run SQL queries for extract, transform, and load (ETL) tasks by using Create Table As Select (CTAS). The company must use Apache Spark instead of SQL to generate analytics.

Which solution will give the company the ability to use Spark to access Athena?

- A. Athena query editor
- B. Athena workgroup
- C. Athena data source
- D. Athena query settings

Answer: C

Explanation:

Athena data source is a solution that allows you to use Spark to access Athena by using the Athena JDBC driver and the Spark SQL interface. You can use the Athena data source to create Spark DataFrames from Athena tables, run SQL queries on the DataFrames, and write the results back to Athena. The Athena data source supports various data formats, such as CSV, JSON, ORC, and Parquet, and also supports partitioned and bucketed tables. The Athena data source is a cost-effective and scalable way

to use Spark to access Athena, as it does not require any additional infrastructure or services, and you only pay for the data scanned by Athena.

The other options are not solutions that give the company the ability to use Spark to access Athena. Option A, Athena query settings, is a feature that allows you to configure various parameters for your Athena queries, such as the output location, the encryption settings, the query timeout, and the workgroup. Option B, Athena workgroup, is a feature that allows you to isolate and manage your Athena queries and resources, such as the query history, the query notifications, the query concurrency, and the query cost. Option D, Athena query editor, is a feature that allows you to write and run SQL queries on Athena using the web console or the API. None of these options enable you to use Spark instead of SQL to generate analytics on Athena. Reference:

Using Apache Spark in Amazon Athena

Athena JDBC Driver

Spark SQL

Athena query settings

[Athena workgroups]

[Athena query editor]

NEW QUESTION # 39

A data engineer needs to use AWS Step Functions to design an orchestration workflow. The workflow must parallel process a large collection of data files and apply a specific transformation to each file.

Which Step Functions state should the data engineer use to meet these requirements?

- A. Wait state
- B. Parallel state
- C. Choice state
- **D. Map state**

Answer: D

NEW QUESTION # 40

A company receives call logs as Amazon S3 objects that contain sensitive customer information. The company must protect the S3 objects by using encryption. The company must also use encryption keys that only specific employees can access.

Which solution will meet these requirements with the LEAST effort?

- A. Use an AWS CloudHSM cluster to store the encryption keys. Configure the process that writes to Amazon S3 to make calls to CloudHSM to encrypt and decrypt the objects. Deploy an IAM policy that restricts access to the CloudHSM cluster.
- B. Use server-side encryption with Amazon S3 managed keys (SSE-S3) to encrypt the objects that contain customer information. Configure an IAM policy that restricts access to the Amazon S3 managed keys that encrypt the objects.
- C. Use server-side encryption with customer-provided keys (SSE-C) to encrypt the objects that contain customer information. Restrict access to the keys that encrypt the objects.
- **D. Use server-side encryption with AWS KMS keys (SSE-KMS) to encrypt the objects that contain customer information. Configure an IAM policy that restricts access to the KMS keys that encrypt the objects.**

Answer: D

Explanation:

Option C is the best solution to meet the requirements with the least effort because server-side encryption with AWS KMS keys (SSE-KMS) is a feature that allows you to encrypt data at rest in Amazon S3 using keys managed by AWS Key Management Service (AWS KMS). AWS KMS is a fully managed service that enables you to create and manage encryption keys for your AWS services and applications. AWS KMS also allows you to define granular access policies for your keys, such as who can use them to encrypt and decrypt data, and under what conditions. By using SSE-KMS, you can protect your S3 objects by using encryption keys that only specific employees can access, without having to manage the encryption and decryption process yourself.

Option A is not a good solution because it involves using AWS CloudHSM, which is a service that provides hardware security modules (HSMs) in the AWS Cloud. AWS CloudHSM allows you to generate and use your own encryption keys on dedicated hardware that is compliant with various standards and regulations. However, AWS CloudHSM is not a fully managed service and requires more effort to set up and maintain than AWS KMS. Moreover, AWS CloudHSM does not integrate with Amazon S3, so you have to configure the process that writes to S3 to make calls to CloudHSM to encrypt and decrypt the objects, which adds complexity and latency to the data protection process.

Option B is not a good solution because it involves using server-side encryption with customer-provided keys (SSE-C), which is a feature that allows you to encrypt data at rest in Amazon S3 using keys that you provide and manage yourself. SSE-C requires you to send your encryption key along with each request to upload or retrieve an object. However, SSE-C does not provide any

mechanism to restrict access to the keys that encrypt the objects, so you have to implement your own key management and access control system, which adds more effort and risk to the data protection process.

Option D is not a good solution because it involves using server-side encryption with Amazon S3 managed keys (SSE-S3), which is a feature that allows you to encrypt data at rest in Amazon S3 using keys that are managed by Amazon S3. SSE-S3 automatically encrypts and decrypts your objects as they are uploaded and downloaded from S3. However, SSE-S3 does not allow you to control who can access the encryption keys or under what conditions. SSE-S3 uses a single encryption key for each S3 bucket, which is shared by all users who have access to the bucket. This means that you cannot restrict access to the keys that encrypt the objects by specific employees, which does not meet the requirements.

Reference:

AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide

Protecting Data Using Server-Side Encryption with AWS KMS-Managed Encryption Keys (SSE-KMS) - Amazon Simple Storage Service What is AWS Key Management Service? - AWS Key Management Service What is AWS CloudHSM? - AWS

CloudHSM Protecting Data Using Server-Side Encryption with Customer-Provided Encryption Keys (SSE-C) - Amazon Simple Storage Service Protecting Data Using Server-Side Encryption with Amazon S3-Managed Encryption Keys (SSE-S3) - Amazon Simple Storage Service

NEW QUESTION # 41

A company maintains multiple extract, transform, and load (ETL) workflows that ingest data from the company's operational databases into an Amazon S3 based data lake. The ETL workflows use AWS Glue and Amazon EMR to process data.

The company wants to improve the existing architecture to provide automated orchestration and to require minimal manual effort.

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

- A. AWS Step Functions tasks
- B. Amazon Managed Workflows for Apache Airflow (Amazon MWAA) workflows
- **C. AWS Glue workflows**
- D. AWS Lambda functions

Answer: C

Explanation:

AWS Glue workflows are a feature of AWS Glue that enable you to create and visualize complex ETL pipelines using AWS Glue components, such as crawlers, jobs, triggers, and development endpoints. AWS Glue workflows provide automated orchestration and require minimal manual effort, as they handle dependency resolution, error handling, state management, and resource allocation for your ETL workflows.

You can use AWS Glue workflows to ingest data from your operational databases into your Amazon S3 based data lake, and then use AWS Glue and Amazon EMR to process the data in the data lake. This solution will meet the requirements with the least operational overhead, as it leverages the serverless and fully managed nature of AWS Glue, and the scalability and flexibility of Amazon EMR12.

The other options are not optimal for the following reasons:

* B. AWS Step Functions tasks. AWS Step Functions is a service that lets you coordinate multiple AWS services into serverless workflows. You can use AWS StepFunctions tasks to invoke AWS Glue and Amazon EMR jobs as part of your ETL workflows, and use AWS Step Functions state machines to define the logic and flow of your workflows. However, this option would require more manual effort than AWS Glue workflows, as you would need to write JSON code to define your state machines, handle errors and retries, and monitor the execution history and status of your workflows3.

* C. AWS Lambda functions. AWS Lambda is a service that lets you run code without provisioning or managing servers. You can use AWS Lambda functions to trigger AWS Glue and Amazon EMR jobs as part of your ETL workflows, and use AWS Lambda event sources and destinations to orchestrate the flow of your workflows. However, this option would also require more manual effort than AWS Glue workflows, as you would need to write code to implement your business logic, handle errors and retries, and monitor the invocation and execution of your Lambda functions. Moreover, AWS Lambda functions have limitations on the execution time, memory, and concurrency, which may affect the performance and scalability of your ETL workflows.

* D. Amazon Managed Workflows for Apache Airflow (Amazon MWAA) workflows. Amazon MWAA is a managed service that makes it easy to run open source Apache Airflow on AWS. Apache Airflow is a popular tool for creating and managing complex ETL pipelines using directed acyclic graphs (DAGs).

You can use Amazon MWAA workflows to orchestrate AWS Glue and Amazon EMR jobs as part of your ETL workflows, and use the Airflow web interface to visualize and monitor your workflows.

However, this option would have more operational overhead than AWS Glue workflows, as you would need to set up and configure your Amazon MWAA environment, write Python code to define your DAGs, and manage the dependencies and versions of your Airflow plugins and operators.

:

1: AWS Glue Workflows

- 2: AWS Glue and Amazon EMR
- 3: AWS Step Functions
- 4: AWS Lambda
- 5: Amazon Managed Workflows for Apache Airflow

NEW QUESTION # 42

A company is using an AWS Transfer Family server to migrate data from an on-premises environment to AWS. Company policy mandates the use of TLS 1.2 or above to encrypt the data in transit. Which solution will meet these requirements?

- A. Update the security group rules for the on-premises network to allow only connections that use TLS 1.2 or above.
- B. Update the security policy of the Transfer Family server to specify a minimum protocol version of TLS 1.2.
- **C. Install an SSL certificate on the Transfer Family server to encrypt data transfers by using TLS 1.2.**
- D. Generate new SSH keys for the Transfer Family server. Make the old keys and the new keys available for use.

Answer: C

NEW QUESTION # 43

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