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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q117-Q122):

NEW QUESTION # 117

A company needs to collect logs for an Amazon RDS for MySQL database and make the logs available for audits. The logs must track each user that modifies data in the database or makes changes to the database instance.

Which solution will meet these requirements?

- A. Enable Amazon CloudWatch Logs. Create metric filters to monitor database changes and instance-level changes. Configure automated notification systems to send near real-time alerts for suspicious database operations.
- **B. Enable and configure native Amazon RDS database audit logging. Enable Amazon CloudWatch Logs. Configure metric filters and alarms. Configure AWS CloudTrail audit logging.**
- C. Configure AWS CloudTrail to log API calls. Use Amazon CloudWatch Logs for basic monitoring. Use IAM policies to control access to the logs. Set up scheduled reporting for log audits.
- D. Configure an Amazon EventBridge rule to monitor database activity. Create an AWS Lambda function to process EventBridge events and store them in Amazon OpenSearch Service.

Answer: B

Explanation:

The correct answer is D: Enable native Amazon RDS database audit logging with CloudWatch and CloudTrail integration.

* Native RDS database audit logging captures SQL-level activities, including which user is modifying data, which is essential for meeting audit requirements.

* Amazon CloudWatch Logs can be used to centralize and store logs.

* CloudTrail logs API calls related to instance-level changes, ensuring all modifications are traceable.

* This approach provides a comprehensive audit trail and supports compliance with security governance policies.

"Enable and configure native Amazon RDS database audit logging. Enable Amazon CloudWatch Logs.

Configure metric filters and alarms. Configure AWS CloudTrail audit logging." Reference: DEA-C01 Official Study Guide - Chapter 7: Data Security and Governance Verified on AWS Docs:

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_LogAccess.Concepts.MySQL.html

NEW QUESTION # 118

A company is building an analytics solution. The solution uses Amazon S3 for data lake storage and Amazon Redshift for a data warehouse. The company wants to use Amazon Redshift Spectrum to query the data that is in Amazon S3.

Which actions will provide the FASTEST queries? (Choose two.)

- A. Use gzip compression to compress individual files to sizes that are between 1 GB and 5 GB.
- **B. Partition the data based on the most common query predicates.**
- **C. Use a columnar storage file format.**
- D. Use file formats that are not
- E. Split the data into files that are less than 10 KB.

Answer: B,C

NEW QUESTION # 119

A data engineer develops an AWS Glue Apache Spark ETL job to perform transformations on a dataset.

When the data engineer runs the job, the job returns an error that reads, "No space left on device." The data engineer needs to identify the source of the error and provide a solution.

Which combinations of steps will meet this requirement MOST cost-effectively? (Select TWO.)

- A. Scale out the number of workers horizontally to address data skewness.
- B. Use error logs in Amazon CloudWatch to monitor data skew.
- **C. Use the Spark UI and AWS Glue metrics to monitor data skew in the Spark executors.**
- **D. Enable the --write-shuffle-files-to-s3 job parameter. Use the salting technique.**
- E. Scale out the workers vertically to address data skewness.

Answer: C,D

Explanation:

Options B and D are correct. AWS Prescriptive Guidance states that shuffle is a major cause of Spark performance issues and can exhaust local disk space on executors, leading to "No space left on device" failures. AWS specifically recommends assessing shuffle performance in CloudWatch metrics and in the Spark UI, and for data skew, it says to examine metrics in the Spark UI, including task duration and spill behavior across executors. That makes B the correct low-cost way to identify the source of the problem. For remediation, AWS Glue documentation states that Spark can throw "No space left on device" when there is insufficient local disk on the executor, and that you can use Amazon S3 to store Spark shuffle data by enabling the AWS Glue Spark shuffle plugin. The S3 shuffle approach is specifically presented as a way to run shuffle-intensive jobs more reliably when they are bound by local disk capacity. In skew scenarios, using a skew-mitigation technique such as salting is also a standard way to distribute hot keys more evenly. That makes D the most cost-effective corrective step.

Options A and C increase cost by adding capacity before diagnosing or directly fixing the shuffle bottleneck.

Option E is less precise than the Spark UI and Glue metrics for identifying skew.

NEW QUESTION # 120

A company wants to implement real-time analytics capabilities. The company wants to use Amazon Kinesis Data Streams and Amazon Redshift to ingest and process streaming data at the rate of several gigabytes per second. The company wants to derive near real-time insights by using existing business intelligence (BI) and analytics tools.

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

- A. Connect Kinesis Data Streams to Amazon Kinesis Data Firehose. Use Kinesis Data Firehose to stage the data in Amazon S3. Use the COPY command to load the data from Amazon S3 to a table in Amazon Redshift.
- B. Access the data from Kinesis Data Streams by using SQL queries. Create materialized views directly on top of the stream. Refresh the materialized views regularly to query the most recent stream data.
- C. Create an external schema in Amazon Redshift to map the data from Kinesis Data Streams to an Amazon Redshift object. Create a materialized view to read data from the stream. Set the materialized view to auto refresh.
- D. Use Kinesis Data Streams to stage data in Amazon S3. Use the COPY command to load data from Amazon S3 directly into Amazon Redshift to make the data immediately available for real-time analysis.

Answer: C

Explanation:

This solution meets the requirements of implementing real-time analytics capabilities with the least operational overhead. By creating an external schema in Amazon Redshift, you can access the data from Kinesis Data Streams using SQL queries without having to load the data into the cluster. By creating a materialized view on top of the stream, you can store the results of the query in the cluster and make them available for analysis. By setting the materialized view to auto refresh, you can ensure that the view is updated with the latest data from the stream at regular intervals. This way, you can derive near real-time insights by using existing BI and analytics tools. Reference:

Amazon Redshift streaming ingestion

Creating an external schema for Amazon Kinesis Data Streams

Creating a materialized view for Amazon Kinesis Data Streams

NEW QUESTION # 121

A media company wants to improve a system that recommends media content to customer based on user behavior and preferences. To improve the recommendation system, the company needs to incorporate insights from third-party datasets into the company's existing analytics platform.

The company wants to minimize the effort and time required to incorporate third-party datasets.

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

- A. Use API calls to access and integrate third-party datasets from AWS
- B. Use Amazon Kinesis Data Streams to access and integrate third-party datasets from AWS CodeCommit repositories.
- C. Use Amazon Kinesis Data Streams to access and integrate third-party datasets from Amazon Elastic Container Registry (Amazon ECR).
- D. Use API calls to access and integrate third-party datasets from AWS Data Exchange.

Answer: D

Explanation:

AWS Data Exchange is a service that makes it easy to find, subscribe to, and use third-party data in the cloud. It provides a secure and reliable way to access and integrate data from various sources, such as data providers, public datasets, or AWS services. Using AWS Data Exchange, you can browse and subscribe to data products that suit your needs, and then use API calls or the AWS Management Console to export the data to Amazon S3, where you can use it with your existing analytics platform. This solution minimizes the effort and time required to incorporate third-party datasets, as you do not need to set up and manage data pipelines, storage, or access controls. You also benefit from the data quality and freshness provided by the data providers, who can update their data products as frequently as needed¹².

The other options are not optimal for the following reasons:

B . Use API calls to access and integrate third-party datasets from AWS. This option is vague and does not specify which AWS service or feature is used to access and integrate third-party datasets. AWS offers a variety of services and features that can help with data ingestion, processing, and analysis, but not all of them are suitable for the given scenario. For example, AWS Glue is a serverless data integration service that can help you discover, prepare, and combine data from various sources, but it requires you to create and run data extraction, transformation, and loading (ETL) jobs, which can add operational overhead³.

C . Use Amazon Kinesis Data Streams to access and integrate third-party datasets from AWS CodeCommit repositories. This option is not feasible, as AWS CodeCommit is a source control service that hosts secure Git-based repositories, not a data source that can be accessed by Amazon Kinesis Data Streams. Amazon Kinesis Data Streams is a service that enables you to capture, process, and analyze data streams in real time, such as clickstream data, application logs, or IoT telemetry. It does not support accessing and integrating data from AWS CodeCommit repositories, which are meant for storing and managing code, not data .

D . Use Amazon Kinesis Data Streams to access and integrate third-party datasets from Amazon Elastic Container Registry (Amazon ECR). This option is also not feasible, as Amazon ECR is a fully managed container registry service that stores, manages, and deploys container images, not a data source that can be accessed by Amazon Kinesis Data Streams. Amazon Kinesis Data Streams does not support accessing and integrating data from Amazon ECR, which is meant for storing and managing container images, not data .

Reference:

1: AWS Data Exchange User Guide

2: AWS Data Exchange FAQs

3: AWS Glue Developer Guide

: AWS CodeCommit User Guide

: Amazon Kinesis Data Streams Developer Guide

: Amazon Elastic Container Registry User Guide

: Build a Continuous Delivery Pipeline for Your Container Images with Amazon ECR as Source

NEW QUESTION # 122

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