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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q128-Q133):

NEW QUESTION # 128

A company uses an Amazon Redshift provisioned cluster as its database. The Redshift cluster has five reserved r3.4xlarge nodes and uses key distribution.

A data engineer notices that one of the nodes frequently has a CPU load over 90%. SQL Queries that run on the node are queued. The other four nodes usually have a CPU load under 15% during daily operations.

The data engineer wants to maintain the current number of compute nodes. The data engineer also wants to balance the load more

evenly across all five compute nodes.
Which solution will meet these requirements?

- **A. Change the distribution key to the table column that has the largest dimension.**
- B. Change the sort key to be the data column that is most often used in a WHERE clause of the SQL SELECT statement.
- C. Change the primary key to be the data column that is most often used in a WHERE clause of the SQL SELECT statement.
- D. Upgrade the reserved node from ra3.4xlarge to ra3.16xlarge.

Answer: A

Explanation:

Changing the distribution key to the table column that has the largest dimension will help to balance the load more evenly across all five compute nodes. The distribution key determines how the rows of a table are distributed among the slices of the cluster. If the distribution key is not chosen wisely, it can cause data skew, meaning some slices will have more data than others, resulting in uneven CPU load and query performance. By choosing the table column that has the largest dimension, meaning the column that has the most distinct values, as the distribution key, the data engineer can ensure that the rows are distributed more uniformly across the slices, reducing data skew and improving query performance.

The other options are not solutions that will meet the requirements. Option A, changing the sort key to be the data column that is most often used in a WHERE clause of the SQL SELECT statement, will not affect the data distribution or the CPU load. The sort key determines the order in which the rows of a table are stored on disk, which can improve the performance of range-restricted queries, but not the load balancing. Option C, upgrading the reserved node from ra3.4xlarge to ra3.16xlarge, will not maintain the current number of compute nodes, as it will increase the cost and the capacity of the cluster. Option D, changing the primary key to be the data column that is most often used in a WHERE clause of the SQL SELECT statement, will not affect the data distribution or the CPU load either. The primary key is a constraint that enforces the uniqueness of the rows in a table, but it does not influence the data layout or the query optimization. Reference:

Choosing a data distribution style

Choosing a data sort key

Working with primary keys

NEW QUESTION # 129

A company wants to migrate an application and an on-premises Apache Kafka server to AWS. The application processes incremental updates that an on-premises Oracle database sends to the Kafka server. The company wants to use the replatform migration strategy instead of the refactor strategy.

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

- **A. Amazon Managed Streaming for Apache Kafka (Amazon MSK) Serverless**
- B. Amazon Kinesis Data Streams
- C. Amazon Data Firehose
- D. Amazon Managed Streaming for Apache Kafka (Amazon MSK) provisioned cluster

Answer: A

Explanation:

* Problem Analysis:

* The company needs to migrate both an application and an on-premises Apache Kafka server to AWS.

* Incremental updates from an on-premises Oracle database are processed by Kafka.

* The solution must follow a replatform migration strategy, prioritizing minimal changes and low management overhead.

* Key Considerations:

* Replatform Strategy: This approach keeps the application and architecture as close to the original as possible, reducing the need for refactoring.

* The solution must provide a managed Kafka service to minimize operational burden.

* Low overhead solutions like serverless services are preferred.

* Solution Analysis:

* Option A: Kinesis Data Streams

* Kinesis Data Streams is an AWS-native streaming service but is not a direct substitute for Kafka.

* This option would require significant application refactoring, which does not align with the replatform strategy.

* Option B: MSK Provisioned Cluster

* Managed Kafka service with fully configurable clusters.

* Provides the same Kafka APIs but requires cluster management (e.g., scaling, patching), increasing management overhead.

- * Option C: Amazon Kinesis Data Firehose
- * Kinesis Data Firehose is designed for data delivery rather than real-time streaming and processing.
- * Not suitable for Kafka-based applications.
- * Option D: MSK Serverless
- * MSK Serverless eliminates the need for cluster management while maintaining compatibility with Kafka APIs.
- * Automatically scales based on workload, reducing operational overhead.
- * Ideal for replatform migrations, as it requires minimal changes to the application.
- * Final Recommendation:
- * Amazon MSK Serverless is the best solution for migrating the Kafka server and application with minimal changes and the least management overhead.

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Amazon MSK Serverless Overview

Comparison of Amazon MSK and Kinesis

NEW QUESTION # 130

A company has a production AWS account that runs company workloads. The company's security team created a security AWS account to store and analyze security logs from the production AWS account. The security logs in the production AWS account are stored in Amazon CloudWatch Logs.

The company needs to use Amazon Kinesis Data Streams to deliver the security logs to the security AWS account. Which solution will meet these requirements?

- A. Create a destination data stream in the security AWS account. Create an IAM role and a trust policy to grant CloudWatch Logs the permission to put data into the stream. Create a subscription filter in the production AWS account.
- B. Create a destination data stream in the security AWS account. Create an IAM role and a trust policy to grant CloudWatch Logs the permission to put data into the stream. Create a subscription filter in the security AWS account.
- C. Create a destination data stream in the production AWS account. In the security AWS account, create an IAM role that has cross-account permissions to Kinesis Data Streams in the production AWS account.
- D. Create a destination data stream in the production AWS account. In the production AWS account, create an IAM role that has cross-account permissions to Kinesis Data Streams in the security AWS account.

Answer: A

Explanation:

Amazon Kinesis Data Streams is a service that enables you to collect, process, and analyze real-time streaming data. You can use Kinesis Data Streams to ingest data from various sources, such as Amazon CloudWatch Logs, and deliver it to different destinations, such as Amazon S3 or Amazon Redshift. To use Kinesis Data Streams to deliver the security logs from the production AWS account to the security AWS account, you need to create a destination data stream in the security AWS account. This data stream will receive the log data from the CloudWatch Logs service in the production AWS account. To enable this cross-account data delivery, you need to create an IAM role and a trust policy in the security AWS account. The IAM role defines the permissions that the CloudWatch Logs service needs to put data into the destination data stream. The trust policy allows the production AWS account to assume the IAM role. Finally, you need to create a subscription filter in the production AWS account. A subscription filter defines the pattern to match log events and the destination to send the matching events. In this case, the destination is the destination data stream in the security AWS account. This solution meets the requirements of using Kinesis Data Streams to deliver the security logs to the security AWS account. The other options are either not possible or not optimal.

You cannot create a destination data stream in the production AWS account, as this would not deliver the data to the security AWS account. You cannot create a subscription filter in the security AWS account, as this would not capture the log events from the production AWS account. References:

* Using Amazon Kinesis Data Streams with Amazon CloudWatch Logs

* AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 3: Data Ingestion and Transformation, Section 3.3: Amazon Kinesis Data Streams

NEW QUESTION # 131

A company runs multiple applications on AWS. The company configured each application to output logs. The company wants to query and visualize the application logs in near real time.

Which solution will meet these requirements?

- A. Update the application code to send the log data to Amazon QuickSight by using Super-fast, Parallel, In-memory Calculation Engine (SPICE). Create the required analyses and dashboards in QuickSight.

- B. Create an Amazon OpenSearch Service domain. Configure the applications to output logs to Amazon CloudWatch Logs log groups. Create an OpenSearch Service subscription filter for each log group to stream the data to OpenSearch. Create the required queries and dashboards in OpenSearch Service to analyze and visualize the data.
- C. Configure the applications to output logs to Amazon CloudWatch Logs log groups. Use CloudWatch log anomaly detection to query and visualize the log data.
- D. Configure the applications to output logs to Amazon CloudWatch Logs log groups. Create an Amazon S3 bucket. Create an AWS Lambda function that runs on a schedule to export the required log groups to the S3 bucket. Use Amazon Athena to query the log data in the S3 bucket.

Answer: B

Explanation:

The optimal solution for near-real-time querying and visualization of logs is to integrate Amazon CloudWatch Logs with Amazon OpenSearch Service using subscription filters, which stream the logs directly into OpenSearch for querying and dashboarding: "Use OpenSearch Service with CloudWatch Logs and create a subscription filter to stream log data in near real time into OpenSearch. Then use OpenSearch dashboards for visualization."

-Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This approach offers low latency and avoids batch exports, unlike the scheduled Athena + S3 pattern.

NEW QUESTION # 132

A data engineer has a one-time task to read data from objects that are in Apache Parquet format in an Amazon S3 bucket. The data engineer needs to query only one column of the data.

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

- A. Run an AWS Glue crawler on the S3 objects. Use a SQL SELECT statement in Amazon Athena to query the required column.
- B. Prepare an AWS Glue DataBrew project to consume the S3 objects and to query the required column.
- C. Use S3 Select to write a SQL SELECT statement to retrieve the required column from the S3 objects.
- D. Configure an AWS Lambda function to load data from the S3 bucket into a pandas dataframe- Write a SQL SELECT statement on the dataframe to query the required column.

Answer: C

Explanation:

Option B is the best solution to meet the requirements with the least operational overhead because S3 Select is a feature that allows you to retrieve only a subset of data from an S3 object by using simple SQL expressions.

S3 Select works on objects stored in CSV, JSON, or Parquet format. By using S3 Select, you can avoid the need to download and process the entire S3 object, which reduces the amount of data transferred and the computation time. S3 Select is also easy to use and does not require any additional services or resources.

Option A is not a good solution because it involves writing custom code and configuring an AWS Lambda function to load data from the S3 bucket into a pandas dataframe and query the required column. This option adds complexity and latency to the data retrieval process and requires additional resources and configuration.

Moreover, AWS Lambda has limitations on the execution time, memory, and concurrency, which may affect the performance and reliability of the data retrieval process.

Option C is not a good solution because it involves creating and running an AWS Glue DataBrew project to consume the S3 objects and query the required column. AWS Glue DataBrew is a visual data preparation tool that allows you to clean, normalize, and transform data without writing code. However, in this scenario, the data is already in Parquet format, which is a columnar storage format that is optimized for analytics.

Therefore, there is no need to use AWS Glue DataBrew to prepare the data. Moreover, AWS Glue DataBrew adds extra time and cost to the data retrieval process and requires additional resources and configuration.

Option D is not a good solution because it involves running an AWS Glue crawler on the S3 objects and using a SQL SELECT statement in Amazon Athena to query the required column. An AWS Glue crawler is a service that can scan data sources and create metadata tables in the AWS Glue Data Catalog. The Data Catalog is a central repository that stores information about the data sources, such as schema, format, and location. Amazon Athena is a serverless interactive query service that allows you to analyze data in S3 using standard SQL. However, in this scenario, the schema and format of the data are already known and fixed, so there is no need to run a crawler to discover them. Moreover, running a crawler and using Amazon Athena adds extra time and cost to the data retrieval process and requires additional services and configuration.

References:

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

* S3 Select and Glacier Select - Amazon Simple Storage Service

- * AWS Lambda - FAQs
- * What Is AWS Glue DataBrew? - AWS Glue DataBrew
- * Populating the AWS Glue Data Catalog - AWS Glue
- * What is Amazon Athena? - Amazon Athena

NEW QUESTION # 133

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