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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q93-Q98):

NEW QUESTION # 93

A telecommunications company collects network usage data throughout each day at a rate of several thousand data points each second. The company runs an application to process the usage data in real time. The company aggregates and stores the data in an Amazon Aurora DB instance.

Sudden drops in network usage usually indicate a network outage. The company must be able to identify sudden drops in network usage so the company can take immediate remedial actions.

Which solution will meet this requirement with the LEAST latency?

- A. Replace the Aurora database with an Amazon DynamoDB table. Create an AWS Lambda function to query the DynamoDB table for drops in network usage every minute. Use DynamoDB Accelerator (DAX) between the processing application and DynamoDB table.
- B. Create an AWS Lambda function within the Database Activity Streams feature of Aurora to detect drops in network

usage.

- C. Modify the processing application to publish the data to an Amazon Kinesis data stream. Create an Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) application to detect drops in network usage.
- D. Create an AWS Lambda function to query Aurora for drops in network usage. Use Amazon EventBridge to automatically invoke the Lambda function every minute.

Answer: C

Explanation:

The telecommunications company needs a low-latency solution to detect sudden drops in network usage from real-time data collected throughout the day.

* Option B: Modify the processing application to publish the data to an Amazon Kinesis data stream. Create an Amazon Managed Service for Apache Flink (Amazon Kinesis Data Analytics) application to detect drops in network usage. Using Amazon Kinesis with Managed Service for Apache Flink (formerly Kinesis Data Analytics) is ideal for real-time stream processing with minimal latency. Flink can analyze the incoming data stream in real-time and detect anomalies, such as sudden drops in usage, which makes it the best fit for this scenario.

Other options (A, C, and D) either introduce unnecessary delays (e.g., querying databases) or do not provide the same real-time, low-latency processing that is critical for this use case.

References:

- * Amazon Kinesis Data Analytics for Apache Flink
- * Amazon Kinesis Documentation

NEW QUESTION # 94

A company stores customer data in an Amazon S3 bucket. The company must permanently delete all customer data that is older than 7 years.

- A. Configure an S3 Lifecycle policy to permanently delete objects that are older than 7 years.
- B. Use Amazon Athena to query the S3 bucket for objects that are older than 7 years. Configure Athena to delete the results.
- C. Configure an S3 Lifecycle policy to enable S3 Object Lock on all objects that are older than 7 years.
- D. Configure an S3 Lifecycle policy to move objects that are older than 7 years to S3 Glacier Deep Archive.

Answer: A

Explanation:

S3 Lifecycle policies automate data retention and deletion. By specifying an expiration rule for 7 years, objects older than that period are permanently deleted without manual intervention.

"To automatically delete aged data, configure an S3 Lifecycle rule with an expiration policy for objects older than the retention period."

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NEW QUESTION # 95

A company is planning to use a provisioned Amazon EMR cluster that runs Apache Spark jobs to perform big data analysis. The company requires high reliability. A big data team must follow best practices for running cost-optimized and long-running workloads on Amazon EMR. The team must find a solution that will maintain the company's current level of performance.

Which combination of resources will meet these requirements MOST cost-effectively? (Choose two.)

- A. Use x86-based instances for core nodes and task nodes.
- B. Use Amazon S3 as a persistent data store.
- C. Use Graviton instances for core nodes and task nodes.
- D. Use Hadoop Distributed File System (HDFS) as a persistent data store.
- E. Use Spot Instances for all primary nodes.

Answer: B,C

Explanation:

The best combination of resources to meet the requirements of high reliability, cost-optimization, and performance for running Apache Spark jobs on Amazon EMR is to use Amazon S3 as a persistent data store and Graviton instances for core nodes and task nodes.

Amazon S3 is a highly durable, scalable, and secure object storage service that can store any amount of data for a variety of use cases, including big data analytics¹. Amazon S3 is a better choice than HDFS as a persistent data store for Amazon EMR, as it decouples the storage from the compute layer, allowing for more flexibility and cost-efficiency. Amazon S3 also supports data encryption, versioning, lifecycle management, and cross-region replication¹. Amazon EMR integrates seamlessly with Amazon S3, using EMR File System (EMRFS) to access data stored in Amazon S3 buckets². EMRFS also supports consistent view, which enables Amazon EMR to provide read-after-write consistency for Amazon S3 objects that are accessed through EMRFS².

Graviton instances are powered by Arm-based AWS Graviton² processors that deliver up to 40% better price performance over comparable current generation x86-based instances³. Graviton instances are ideal for running workloads that are CPU-bound, memory-bound, or network-bound, such as big data analytics, web servers, and open-source databases³. Graviton instances are compatible with Amazon EMR, and can be used for both core nodes and task nodes. Core nodes are responsible for running the data processing frameworks, such as Apache Spark, and storing data in HDFS or the local file system. Task nodes are optional nodes that can be added to a cluster to increase the processing power and throughput. By using Graviton instances for both core nodes and task nodes, you can achieve higher performance and lower cost than using x86-based instances.

Using Spot Instances for all primary nodes is not a good option, as it can compromise the reliability and availability of the cluster. Spot Instances are spare EC2 instances that are available at up to 90% discount compared to On-Demand prices, but they can be interrupted by EC2 with a two-minute notice when EC2 needs the capacity back. Primary nodes are the nodes that run the cluster software, such as Hadoop, Spark, Hive, and Hue, and are essential for the cluster operation. If a primary node is interrupted by EC2, the cluster will fail or become unstable. Therefore, it is recommended to use On-Demand Instances or Reserved Instances for primary nodes, and use Spot Instances only for task nodes that can tolerate interruptions. References:

Amazon S3 - Cloud Object Storage

EMR File System (EMRFS)

AWS Graviton² Processor-Powered Amazon EC2 Instances

[Plan and Configure EC2 Instances]

[Amazon EC2 Spot Instances]

[Best Practices for Amazon EMR]

NEW QUESTION # 96

A data engineer is configuring an AWS Glue Apache Spark extract, transform, and load (ETL) job. The job contains a sort-merge join of two large and equally sized DataFrames.

The job is failing with the following error: No space left on device.

Which solution will resolve the error?

- A. Convert the DataFrames to DynamicFrames, and perform a DynamicFrame join in the job.
- **B. Convert the sort-merge join in the job to be a broadcast join.**
- C. Deploy an Amazon Elastic Block Store (Amazon EBS) volume for the job to use.
- D. Use the AWS Glue Spark shuffle manager.

Answer: B

Explanation:

A sort-merge join generates large shuffle files, leading to "No space left on device" errors when both datasets are large. Using a broadcast join sends a smaller dataset to all executors, avoiding shuffle and disk I/O overhead.

"Broadcast joins reduce shuffle I/O by distributing the smaller dataset to all worker nodes, mitigating disk space and shuffle errors."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This is the most cost-effective and direct fix for large shuffle-stage failures.

NEW QUESTION # 97

An e-commerce company processes millions of orders each day. The company uses AWS Glue ETL to collect data from multiple sources, clean the data, and store the data in an Amazon S3 bucket in CSV format by using the S3 Standard storage class. The company uses the stored data to conduct daily analysis.

The company wants to optimize costs for data storage and retrieval.

Which solution will meet this requirement?

- A. Configure AWS Glue ETL to use Amazon EMR to process incoming data in parallel.
- **B. Configure AWS Glue ETL to transform the incoming data to Apache Parquet format.**
- C. Transition the data from Amazon S3 to an Amazon Aurora cluster.
- D. Transition the data to Amazon S3 Glacier Flexible Retrieval.

Answer: B

Explanation:

Apache Parquet is a columnar storage format that is much more space-efficient than row-based formats like CSV, especially for analytics workloads. Transforming data from CSV to Parquet significantly reduces storage costs and improves query performance. According to the study guide:

"Parquet is a columnar storage file format that is optimized for use with analytics workloads, providing efficient storage and fast query performance."

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NEW QUESTION # 98

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