

Exam Questions DAS-C01

AWS Certified Data Analytics - Specialty

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NEW QUESTION 1

A data analyst is using AWS Glue to organize, cleanse, validate, and format a 200 GB dataset. The data analyst triggered the job to run with the Standard worker type. After 3 hours, the AWS Glue job status is still RUNNING. Logs from the job run show no error codes. The data analyst wants to improve the job execution time without overprovisioning.

Which actions should the data analyst take?

- A. Enable job bookmarks in AWS Glue to estimate the number of data processing units (DPUs). Based on the profiled metrics, increase the value of the executor-cores job parameter.
- B. Enable job metrics in AWS Glue to estimate the number of data processing units (DPUs). Based on the profiled metrics, increase the value of the maximum capacity job parameter.
- C. Enable job metrics in AWS Glue to estimate the number of data processing units (DPUs). Based on the profiled metrics, increase the value of the spark.yarn.executor.memoryOverhead job parameter.
- D. Enable job bookmarks in AWS Glue to estimate the number of data processing units (DPUs). Based on the profiled metrics, increase the value of the num-executors job parameter.

Answer: B

NEW QUESTION 2

A company's marketing team has asked for help in identifying a high performing long-term storage service for their data based on the following requirements:

The data size is approximately 32 TB uncompressed.

There is a low volume of single-row inserts each day.

There is a high volume of aggregation queries each day.

Multiple complex joins are performed.

The queries typically involve a small subset of the columns in a table. Which storage service will provide the MOST performant solution?

- A. Amazon Aurora MySQL
- B. Amazon Redshift
- C. Amazon Neptune
- D. Amazon Elasticsearch

Answer: B

NEW QUESTION 3

A company has developed several AWS Glue jobs to validate and transform its data from Amazon S3 and load it into Amazon RDS for MySQL in batches once every day. The ETL jobs read the S3 data using a DynamicFrame. Currently, the ETL developers are experiencing challenges in processing only the incremental data on every run, as the AWS Glue job processes all the S3 input data on each run.

Which approach would allow the developers to solve the issue with minimal coding effort?

- A. Have the ETL jobs read the data from Amazon S3 using a DataFrame.
- B. Enable job bookmarks on the AWS Glue jobs.
- C. Create custom logic on the ETL jobs to track the processed S3 objects.
- D. Have the ETL jobs delete the processed objects or data from Amazon S3 after each run.

Answer: B

NEW QUESTION 4

A data analyst is using Amazon QuickSight for data visualization across multiple datasets generated by applications. Each application stores files within a separate Amazon S3 bucket. AWS Glue Data Catalog is used as a central catalog across all application data in Amazon S3. A new application stores its data within a separate S3 bucket. After updating the catalog to include the new application data source, the data analyst created a new Amazon QuickSight data source from an Amazon Athena table, but the import into SPICE failed.

How should the data analyst resolve the issue?

- A. Edit the permissions for the AWS Glue Data Catalog from within the Amazon QuickSight console.
- B. Edit the permissions for the new S3 bucket from within the Amazon QuickSight console.
- C. Edit the permissions for the AWS Glue Data Catalog from within the AWS Glue console.

D. Edit the permissions for the new S3 bucket from within the S3 console.

Answer: B

NEW QUESTION 5

A global company has different sub-organizations, and each sub-organization sells its products and services in various countries. The company's senior leadership wants to quickly identify which sub-organization is the strongest performer in each country. All sales data is stored in Amazon S3 in Parquet format. Which approach can provide the visuals that senior leadership requested with the least amount of effort?

- A. Use Amazon QuickSight with Amazon Athena as the data source.
- B. Use heat maps as the visual type.
- C. Use Amazon QuickSight with Amazon S3 as the data source.
- D. Use heat maps as the visual type.
- E. Use Amazon QuickSight with Amazon Athena as the data source.
- F. Use pivot tables as the visual type.
- G. Use Amazon QuickSight with Amazon S3 as the data source.
- H. Use pivot tables as the visual type.

Answer: A

NEW QUESTION 6

An ecommerce company stores customer purchase data in Amazon RDS. The company wants a solution to store and analyze historical data. The most recent 6 months of data will be queried frequently for analytics workloads. This data is several terabytes large. Once a month, historical data for the last 5 years must be accessible and will be joined with the more recent data. The company wants to optimize performance and cost. Which storage solution will meet these requirements?

- A. Create a read replica of the RDS database to store the most recent 6 months of data.
- B. Copy the historical data into Amazon S3. Create an AWS Glue Data Catalog of the data in Amazon S3 and Amazon RDS.
- C. Run historical queries using Amazon Athena.
- D. Use an ETL tool to incrementally load the most recent 6 months of data into an Amazon Redshift cluster.
- E. Run more frequent queries against this cluster.
- F. Create a read replica of the RDS database to run queries on the historical data.
- G. Incrementally copy data from Amazon RDS to Amazon S3. Create an AWS Glue Data Catalog of the data in Amazon S3. Use Amazon Athena to query the data.
- H. Incrementally copy data from Amazon RDS to Amazon S3. Load and store the most recent 6 months of data in Amazon Redshift.
- I. Configure an Amazon Redshift Spectrum table to connect to all historical data.

Answer: D

NEW QUESTION 7

An insurance company has raw data in JSON format that is sent without a predefined schedule through an Amazon Kinesis Data Firehose delivery stream to an Amazon S3 bucket. An AWS Glue crawler is scheduled to run every 8 hours to update the schema in the data catalog of the tables stored in the S3 bucket. Data analysts analyze the data using Apache Spark SQL on Amazon EMR set up with AWS Glue Data Catalog as the metastore. Data analysts say that, occasionally, the data they receive is stale. A data engineer needs to provide access to the most up-to-date data. Which solution meets these requirements?

- A. Create an external schema based on the AWS Glue Data Catalog on the existing Amazon Redshift cluster to query new data in Amazon S3 with Amazon Redshift Spectrum.
- B. Use Amazon CloudWatch Events with the rate (1 hour) expression to execute the AWS Glue crawler every hour.
- C. Using the AWS CLI, modify the execution schedule of the AWS Glue crawler from 8 hours to 1 minute.
- D. Run the AWS Glue crawler from an AWS Lambda function triggered by an S3:ObjectCreated:* event notification on the S3 bucket.

Answer: D

Explanation:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/NotificationHowTo.html> "you can use a wildcard (for example, s3:ObjectCreated:*) to request notification when an object is created regardless of the API used" "AWS Lambda can run custom code in response to Amazon S3 bucket events. You upload your custom code to AWS Lambda and create what is called a Lambda function. When Amazon S3 detects an event of a specific type (for example, an object created event), it can publish the event to AWS Lambda and invoke your function in Lambda. In response, AWS Lambda runs your function."

NEW QUESTION 8

An IoT company wants to release a new device that will collect data to track sleep overnight on an intelligent mattress. Sensors will send data that will be uploaded to an Amazon S3 bucket. About 2 MB of data is generated each night for each bed. Data must be processed and summarized for each user, and the results need to be available as soon as possible. Part of the process consists of time windowing and other functions. Based on tests with a Python script, every run will require about 1 GB of memory and will complete within a couple of minutes. Which solution will run the script in the MOST cost-effective way?

- A. AWS Lambda with a Python script
- B. AWS Glue with a Scala job
- C. Amazon EMR with an Apache Spark script
- D. AWS Glue with a PySpark job

Answer: A

NEW QUESTION 9

A company is planning to create a data lake in Amazon S3. The company wants to create tiered storage based on access patterns and cost objectives. The solution must include support for JDBC connections from legacy clients, metadata management that allows federation for access control, and batch-based ETL using PySpark and Scala. Operational management should be limited.

Which combination of components can meet these requirements? (Choose three.)

- A. AWS Glue Data Catalog for metadata management
- B. Amazon EMR with Apache Spark for ETL
- C. AWS Glue for Scala-based ETL
- D. Amazon EMR with Apache Hive for JDBC clients
- E. Amazon Athena for querying data in Amazon S3 using JDBC drivers
- F. Amazon EMR with Apache Hive, using an Amazon RDS with MySQL-compatible backed metastore

Answer: BEF

NEW QUESTION 10

An Amazon Redshift database contains sensitive user data. Logging is necessary to meet compliance requirements. The logs must contain database authentication attempts, connections, and disconnections. The logs must also contain each query run against the database and record which database user ran each query.

Which steps will create the required logs?

- A. Enable Amazon Redshift Enhanced VPC Routin
- B. Enable VPC Flow Logs to monitor traffic.
- C. Allow access to the Amazon Redshift database using AWS IAM onl
- D. Log access using AWS CloudTrail.
- E. Enable audit logging for Amazon Redshift using the AWS Management Console or the AWS CLI.
- F. Enable and download audit reports from AWS Artifact.

Answer: C

NEW QUESTION 10

A data engineering team within a shared workspace company wants to build a centralized logging system for all weblogs generated by the space reservation system. The company has a fleet of Amazon EC2 instances that process requests for shared space reservations on its website. The data engineering team wants to ingest all weblogs into a service that will provide a near-real-time search engine. The team does not want to manage the maintenance and operation of the logging system.

Which solution allows the data engineering team to efficiently set up the web logging system within AWS?

- A. Set up the Amazon CloudWatch agent to stream weblogs to CloudWatch logs and subscribe the Amazon Kinesis data stream to CloudWatc
- B. Choose Amazon Elasticsearch Service as the end destination of the weblogs.
- C. Set up the Amazon CloudWatch agent to stream weblogs to CloudWatch logs and subscribe the Amazon Kinesis Data Firehose delivery stream to CloudWatc
- D. Choose Amazon Elasticsearch Service as the end destination of the weblogs.
- E. Set up the Amazon CloudWatch agent to stream weblogs to CloudWatch logs and subscribe the Amazon Kinesis data stream to CloudWatc
- F. Configure Splunk as the end destination of the weblogs.
- G. Set up the Amazon CloudWatch agent to stream weblogs to CloudWatch logs and subscribe the Amazon Kinesis Firehose delivery stream to CloudWatc
- H. Configure Amazon DynamoDB as the end destinationof the weblog

Answer: B

Explanation:

https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/CWL_ES_Stream.html

NEW QUESTION 11

A company is building a data lake and needs to ingest data from a relational database that has time-series data. The company wants to use managed services to accomplish this. The process needs to be scheduled daily and bring incremental data only from the source into Amazon S3.

What is the MOST cost-effective approach to meet these requirements?

- A. Use AWS Glue to connect to the data source using JDBC Driver
- B. Ingest incremental records only using job bookmarks.
- C. Use AWS Glue to connect to the data source using JDBC Driver
- D. Store the last updated key in an Amazon DynamoDB table and ingest the data using the updated key as a filter.
- E. Use AWS Glue to connect to the data source using JDBC Drivers and ingest the entire datase
- F. Use appropriate Apache Spark libraries to compare the dataset, and find the delta.
- G. Use AWS Glue to connect to the data source using JDBC Drivers and ingest the full dat
- H. Use AWSDataSync to ensure the delta only is written into Amazon S3.

Answer: A

Explanation:

<https://docs.aws.amazon.com/glue/latest/dg/monitor-continuations.html>

NEW QUESTION 12

A large retailer has successfully migrated to an Amazon S3 data lake architecture. The company's marketing team is using Amazon Redshift and Amazon QuickSight to analyze data, and derive and visualize insights. To ensure the marketing team has the most up-to-date actionable information, a data analyst implements nightly refreshes of Amazon Redshift using terabytes of updates from the previous day.

After the first nightly refresh, users report that half of the most popular dashboards that had been running correctly before the refresh are now running much slower. Amazon CloudWatch does not show any alerts.

What is the MOST likely cause for the performance degradation?

- A. The dashboards are suffering from inefficient SQL queries.
- B. The cluster is undersized for the queries being run by the dashboards.
- C. The nightly data refreshes are causing a lingering transaction that cannot be automatically closed by Amazon Redshift due to ongoing user workloads.
- D. The nightly data refreshes left the dashboard tables in need of a vacuum operation that could not be automatically performed by Amazon Redshift due to ongoing user workloads.

Answer: D

Explanation:

<https://github.com/awsdocs/amazon-redshift-developer-guide/issues/21>

NEW QUESTION 15

A company wants to collect and process events data from different departments in near-real time. Before storing the data in Amazon S3, the company needs to clean the data by standardizing the format of the address and timestamp columns. The data varies in size based on the overall load at each particular point in time. A single data record can be 100 KB-10 MB.

How should a data analytics specialist design the solution for data ingestion?

- A. Use Amazon Kinesis Data Stream
- B. Configure a stream for the raw data
- C. Use a Kinesis Agent to write data to the stream
- D. Create an Amazon Kinesis Data Analytics application that reads data from the raw stream, cleanses it, and stores the output to Amazon S3.
- E. Use Amazon Kinesis Data Firehose
- F. Configure a Firehose delivery stream with a preprocessing AWS Lambda function for data cleansing
- G. Use a Kinesis Agent to write data to the delivery stream
- H. Configure Kinesis Data Firehose to deliver the data to Amazon S3.
- I. Use Amazon Managed Streaming for Apache Kafka
- J. Configure a topic for the raw data
- K. Use a Kafka producer to write data to the topic
- L. Create an application on Amazon EC2 that reads data from the topic by using the Apache Kafka consumer API, cleanses the data, and writes to Amazon S3.
- M. Use Amazon Simple Queue Service (Amazon SQS). Configure an AWS Lambda function to read events from the SQS queue and upload the events to Amazon S3.

Answer: B

NEW QUESTION 20

A company has an application that uses the Amazon Kinesis Client Library (KCL) to read records from a Kinesis data stream.

After a successful marketing campaign, the application experienced a significant increase in usage. As a result, a data analyst had to split some shards in the data stream. When the shards were split, the application started throwing an `ExpiredIteratorExceptions` error sporadically.

What should the data analyst do to resolve this?

- A. Increase the number of threads that process the stream records.
- B. Increase the provisioned read capacity units assigned to the stream's Amazon DynamoDB table.
- C. Increase the provisioned write capacity units assigned to the stream's Amazon DynamoDB table.
- D. Decrease the provisioned write capacity units assigned to the stream's Amazon DynamoDB table.

Answer: C

NEW QUESTION 24

A global pharmaceutical company receives test results for new drugs from various testing facilities worldwide. The results are sent in millions of 1 KB-sized JSON objects to an Amazon S3 bucket owned by the company. The data engineering team needs to process those files, convert them into Apache Parquet format, and load them into Amazon Redshift for data analysts to perform dashboard reporting. The engineering team uses AWS Glue to process the objects, AWS Step Functions for process orchestration, and Amazon CloudWatch for job scheduling.

More testing facilities were recently added, and the time to process files is increasing. What will MOST efficiently decrease the data processing time?

- A. Use AWS Lambda to group the small files into larger file
- B. Write the files back to Amazon S3. Process the files using AWS Glue and load them into Amazon Redshift tables.
- C. Use the AWS Glue dynamic frame file grouping option while ingesting the raw input file
- D. Process the files and load them into Amazon Redshift tables.
- E. Use the Amazon Redshift COPY command to move the files from Amazon S3 into Amazon Redshift tables directly
- F. Process the files in Amazon Redshift.
- G. Use Amazon EMR instead of AWS Glue to group the small input file
- H. Process the files in Amazon EMR and load them into Amazon Redshift tables.

Answer: A

NEW QUESTION 26

A company currently uses Amazon Athena to query its global datasets. The regional data is stored in Amazon S3 in the us-east-1 and us-west-2 Regions. The data is not encrypted. To simplify the query process and manage it centrally, the company wants to use Athena in us-west-2 to query data from Amazon S3 in both Regions. The solution should be as low-cost as possible.

What should the company do to achieve this goal?

- A. Use AWS DMS to migrate the AWS Glue Data Catalog from us-east-1 to us-west-2. Run Athena queries in us-west-2.
- B. Run the AWS Glue crawler in us-west-2 to catalog datasets in all Region
- C. Once the data is crawled, run Athena queries in us-west-2.
- D. Enable cross-Region replication for the S3 buckets in us-east-1 to replicate data in us-west-2. Once the data is replicated in us-west-2, run the AWS Glue crawler there to update the AWS Glue Data Catalog in us-west-2 and run Athena queries.
- E. Update AWS Glue resource policies to provide us-east-1 AWS Glue Data Catalog access to us-west-2. Once the catalog in us-west-2 has access to the catalog in us-east-1, run Athena queries in us-west-2.

Answer: B

NEW QUESTION 28

A company operates toll services for highways across the country and collects data that is used to understand usage patterns. Analysts have requested the ability to run traffic reports in near-real time. The company is interested in building an ingestion pipeline that loads all the data into an Amazon Redshift cluster and alerts

operations personnel when toll traffic for a particular toll station does not meet a specified threshold. Station data and the corresponding threshold values are stored in Amazon S3.

Which approach is the MOST efficient way to meet these requirements?

- A. Use Amazon Kinesis Data Firehose to collect data and deliver it to Amazon Redshift and Amazon Kinesis Data Analytics simultaneously
- B. Create a reference data source in Kinesis Data Analytics to temporarily store the threshold values from Amazon S3 and compare the count of vehicles for a particular toll station against its corresponding threshold value
- C. Use AWS Lambda to publish an Amazon Simple Notification Service (Amazon SNS) notification if the threshold is not met.
- D. Use Amazon Kinesis Data Streams to collect all the data from toll station
- E. Create a stream in Kinesis Data Streams to temporarily store the threshold values from Amazon S3. Send both streams to Amazon Kinesis Data Analytics to compare the count of vehicles for a particular toll station against its corresponding threshold value
- F. Use AWS Lambda to publish an Amazon Simple Notification Service (Amazon SNS) notification if the threshold is not met
- G. Connect Amazon Kinesis Data Firehose to Kinesis Data Streams to deliver the data to Amazon Redshift.
- H. Use Amazon Kinesis Data Firehose to collect data and deliver it to Amazon Redshift
- I. Then, automatically trigger an AWS Lambda function that queries the data in Amazon Redshift, compares the count of vehicles for a particular toll station against its corresponding threshold values read from Amazon S3, and publishes an Amazon Simple Notification Service (Amazon SNS) notification if the threshold is not met.
- J. Use Amazon Kinesis Data Firehose to collect data and deliver it to Amazon Redshift and Amazon Kinesis Data Analytics simultaneously
- K. Use Kinesis Data Analytics to compare the count of vehicles against the threshold value for the station stored in a table as an in-application stream based on information stored in Amazon S3. Configure an AWS Lambda function as an output for the application that will publish an Amazon Simple Queue Service (Amazon SQS) notification to alert operations personnel if the threshold is not met.

Answer: D

NEW QUESTION 31

A market data company aggregates external data sources to create a detailed view of product consumption in different countries. The company wants to sell this data to external parties through a subscription. To achieve this goal, the company needs to make its data securely available to external parties who are also AWS users.

What should the company do to meet these requirements with the LEAST operational overhead?

- A. Store the data in Amazon S3. Share the data by using presigned URLs for security.
- B. Store the data in Amazon S3. Share the data by using S3 bucket ACLs.
- C. Upload the data to AWS Data Exchange for storage
- D. Share the data by using presigned URLs for security.
- E. Upload the data to AWS Data Exchange for storage
- F. Share the data by using the AWS Data Exchange sharing wizard.

Answer: A

NEW QUESTION 34

A company has collected more than 100 TB of log files in the last 24 months. The files are stored as raw text in a dedicated Amazon S3 bucket. Each object has a key of the form year-month-day_log_HH:mm:ss.txt where HH:mm:ss represents the time the log file was initially created. A table was created in Amazon Athena that points to the S3 bucket. One-time queries are run against a subset of columns in the table several times an hour.

A data analyst must make changes to reduce the cost of running these queries. Management wants a solution with minimal maintenance overhead.

Which combination of steps should the data analyst take to meet these requirements? (Choose three.)

- A. Convert the log files to Apache Avro format.
- B. Add a key prefix of the form date=year-month-day/ to the S3 objects to partition the data.
- C. Convert the log files to Apache Parquet format.
- D. Add a key prefix of the form year-month-day/ to the S3 objects to partition the data.
- E. Drop and recreate the table with the PARTITIONED BY clause
- F. Run the ALTER TABLE ADD PARTITION statement.
- G. Drop and recreate the table with the PARTITIONED BY clause
- H. Run the MSCK REPAIR TABLE statement.

Answer: BCF

NEW QUESTION 37

A company uses Amazon Redshift for its data warehousing needs. ETL jobs run every night to load data, apply business rules, and create aggregate tables for reporting. The company's data analysis, data science, and business intelligence teams use the data warehouse during regular business hours. The workload management is set to auto, and separate queues exist for each team with the priority set to NORMAL.

Recently, a sudden spike of read queries from the data analysis team has occurred at least twice daily, and queries wait in line for cluster resources. The company needs a solution that enables the data analysis team to avoid query queuing without impacting latency and the query times of other teams.

Which solution meets these requirements?

- A. Increase the query priority to HIGHEST for the data analysis queue.
- B. Configure the data analysis queue to enable concurrency scaling.
- C. Create a query monitoring rule to add more cluster capacity for the data analysis queue when queries are waiting for resources.
- D. Use workload management query queue hopping to route the query to the next matching queue.

Answer: D

NEW QUESTION 38

A manufacturing company wants to create an operational analytics dashboard to visualize metrics from equipment in near-real time. The company uses Amazon Kinesis Data Streams to stream the data to other applications. The dashboard must automatically refresh every 5 seconds. A data analytics specialist must design a solution that requires the least possible implementation effort.

Which solution meets these requirements?

- A. Use Amazon Kinesis Data Firehose to store the data in Amazon S3. Use Amazon QuickSight to build the dashboard.

- B. Use Apache Spark Streaming on Amazon EMR to read the data in near-real time
- C. Develop a custom application for the dashboard by using D3.js.
- D. Use Amazon Kinesis Data Firehose to push the data into an Amazon Elasticsearch Service (Amazon ES) cluster
- E. Visualize the data by using a Kibana dashboard.
- F. Use AWS Glue streaming ETL to store the data in Amazon S3. Use Amazon QuickSight to build the dashboard.

Answer: B

NEW QUESTION 39

A hospital is building a research data lake to ingest data from electronic health records (EHR) systems from multiple hospitals and clinics. The EHR systems are independent of each other and do not have a common patient identifier. The data engineering team is not experienced in machine learning (ML) and has been asked to generate a unique patient identifier for the ingested records.

Which solution will accomplish this task?

- A. An AWS Glue ETL job with the FindMatches transform
- B. Amazon Kendra
- C. Amazon SageMaker Ground Truth
- D. An AWS Glue ETL job with the ResolveChoice transform

Answer: A

Explanation:

Matching Records with AWS Lake Formation FindMatches

NEW QUESTION 40

A retail company leverages Amazon Athena for ad-hoc queries against an AWS Glue Data Catalog. The data analytics team manages the data catalog and data access for the company. The data analytics team wants to separate queries and manage the cost of running those queries by different workloads and teams.

Ideally, the data analysts want to group the queries run by different users within a team, store the query results in individual Amazon S3 buckets specific to each team, and enforce cost constraints on the queries run against the Data Catalog.

Which solution meets these requirements?

- A. Create IAM groups and resource tags for each team within the company
- B. Set up IAM policies that control user access and actions on the Data Catalog resources.
- C. Create Athena resource groups for each team within the company and assign users to these groups
- D. Add S3 bucket names and other query configurations to the properties list for the resource groups.
- E. Create Athena workgroups for each team within the company
- F. Set up IAM workgroup policies that control user access and actions on the workgroup resources.
- G. Create Athena query groups for each team within the company and assign users to the groups.

Answer: C

Explanation:

https://aws.amazon.com/about-aws/whats-new/2019/02/athena_workgroups/

NEW QUESTION 45

A retail company wants to use Amazon QuickSight to generate dashboards for web and in-store sales. A group of 50 business intelligence professionals will develop and use the dashboards. Once ready, the dashboards will be shared with a group of 1,000 users.

The sales data comes from different stores and is uploaded to Amazon S3 every 24 hours. The data is partitioned by year and month, and is stored in Apache Parquet format. The company is using the AWS Glue Data Catalog as its main data catalog and Amazon Athena for querying. The total size of the uncompressed data that the dashboards query from at any point is 200 GB.

Which configuration will provide the MOST cost-effective solution that meets these requirements?

- A. Load the data into an Amazon Redshift cluster by using the COPY command
- B. Configure 50 author users and 1,000 reader user
- C. Use QuickSight Enterprise edition
- D. Configure an Amazon Redshift data source with a direct query option.
- E. Use QuickSight Standard edition
- F. Configure 50 author users and 1,000 reader user
- G. Configure an Athena data source with a direct query option.
- H. Use QuickSight Enterprise edition
- I. Configure 50 author users and 1,000 reader user
- J. Configure an Athena data source and import the data into SPICE
- K. Automatically refresh every 24 hours.
- L. Use QuickSight Enterprise edition
- M. Configure 1 administrator and 1,000 reader user
- N. Configure an S3 data source and import the data into SPICE
- O. Automatically refresh every 24 hours.

Answer: C

NEW QUESTION 46

A company is migrating from an on-premises Apache Hadoop cluster to an Amazon EMR cluster. The cluster runs only during business hours. Due to a company requirement to avoid intraday cluster failures, the EMR cluster must be highly available. When the cluster is terminated at the end of each business day, the data must persist.

Which configurations would enable the EMR cluster to meet these requirements? (Choose three.)

- A. EMR File System (EMRFS) for storage
- B. Hadoop Distributed File System (HDFS) for storage
- C. AWS Glue Data Catalog as the metastore for Apache Hive

- D. MySQL database on the master node as the metastore for Apache Hive
- E. Multiple master nodes in a single Availability Zone
- F. Multiple master nodes in multiple Availability Zones

Answer: ACE

Explanation:

<https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-ha.html> "Note : The cluster can reside only in one Availability Zone or subnet."

NEW QUESTION 48

An online gaming company is using an Amazon Kinesis Data Analytics SQL application with a Kinesis data stream as its source. The source sends three non-null fields to the application: player_id, score, and us_5_digit_zip_code.

A data analyst has a .csv mapping file that maps a small number of us_5_digit_zip_code values to a territory code. The data analyst needs to include the territory code, if one exists, as an additional output of the Kinesis Data Analytics application.

How should the data analyst meet this requirement while minimizing costs?

- A. Store the contents of the mapping file in an Amazon DynamoDB tabl
- B. Preprocess the records as they arrive in the Kinesis Data Analytics application with an AWS Lambda function that fetches the mapping and supplements each record to include the territory code, if one exist
- C. Change the SQL query in the application to include the new field in the SELECT statement.
- D. Store the mapping file in an Amazon S3 bucket and configure the reference data column headers for the.csv file in the Kinesis Data Analytics applicatio
- E. Change the SQL query in the application to include a join to the file's S3 Amazon Resource Name (ARN), and add the territory code field to the SELECT columns.
- F. Store the mapping file in an Amazon S3 bucket and configure it as a reference data source for the Kinesis Data Analytics applicatio
- G. Change the SQL query in the application to include a join to the reference table and add the territory code field to the SELECT columns.
- H. Store the contents of the mapping file in an Amazon DynamoDB tabl
- I. Change the Kinesis DataAnalytics application to send its output to an AWS Lambda function that fetches the mapping and supplements each record to include the territory code, if one exist
- J. Forward the record from the Lambda function to the original application destination.

Answer: C

NEW QUESTION 52

A large financial company is running its ETL process. Part of this process is to move data from Amazon S3 into an Amazon Redshift cluster. The company wants to use the most cost-efficient method to load the dataset into Amazon Redshift.

Which combination of steps would meet these requirements? (Choose two.)

- A. Use the COPY command with the manifest file to load data into Amazon Redshift.
- B. Use S3DistCp to load files into Amazon Redshift.
- C. Use temporary staging tables during the loading process.
- D. Use the UNLOAD command to upload data into Amazon Redshift.
- E. Use Amazon Redshift Spectrum to query files from Amazon S3.

Answer: AC

NEW QUESTION 55

A financial company hosts a data lake in Amazon S3 and a data warehouse on an Amazon Redshift cluster. The company uses Amazon QuickSight to build dashboards and wants to secure access from its on-premises Active Directory to Amazon QuickSight.

How should the data be secured?

- A. Use an Active Directory connector and single sign-on (SSO) in a corporate network environment.
- B. Use a VPC endpoint to connect to Amazon S3 from Amazon QuickSight and an IAM role to authenticate Amazon Redshift.
- C. Establish a secure connection by creating an S3 endpoint to connect Amazon QuickSight and a VPC endpoint to connect to Amazon Redshift.
- D. Place Amazon QuickSight and Amazon Redshift in the security group and use an Amazon S3 endpoint to connect Amazon QuickSight to Amazon S3.

Answer: A

Explanation:

<https://docs.aws.amazon.com/quicksight/latest/user/directory-integration.html>

NEW QUESTION 57

A bank operates in a regulated environment. The compliance requirements for the country in which the bank operates say that customer data for each state should only be accessible by the bank's employees located in the same state. Bank employees in one state should NOT be able to access data for customers who have provided a home address in a different state.

The bank's marketing team has hired a data analyst to gather insights from customer data for a new campaign being launched in certain states. Currently, data linking each customer account to its home state is stored in a tabular .csv file within a single Amazon S3 folder in a private S3 bucket. The total size of the S3 folder is 2 GB uncompressed. Due to the country's compliance requirements, the marketing team is not able to access this folder.

The data analyst is responsible for ensuring that the marketing team gets one-time access to customer data for their campaign analytics project, while being subject to all the compliance requirements and controls.

Which solution should the data analyst implement to meet the desired requirements with the LEAST amount of setup effort?

- A. Re-arrange data in Amazon S3 to store customer data about each state in a different S3 folder within the same bucke
- B. Set up S3 bucket policies to provide marketing employees with appropriate data access under compliance control
- C. Delete the bucket policies after the project.
- D. Load tabular data from Amazon S3 to an Amazon EMR cluster using s3DistC
- E. Implement a customHadoop-based row-level security solution on the Hadoop Distributed File System (HDFS) to provide marketing employees with appropriate data access under compliance control
- F. Terminate the EMR cluster after the project.
- G. Load tabular data from Amazon S3 to Amazon Redshift with the COPY comman

- H. Use the built-in row-level security feature in Amazon Redshift to provide marketing employees with appropriate data access under compliance control
- I. Delete the Amazon Redshift tables after the project.
- J. Load tabular data from Amazon S3 to Amazon QuickSight Enterprise edition by directly importing it as a data source
- K. Use the built-in row-level security feature in Amazon QuickSight to provide marketing employees with appropriate data access under compliance control
- L. Delete Amazon QuickSight data sources after the project is complete.

Answer: C

NEW QUESTION 59

A company wants to use an automatic machine learning (ML) Random Cut Forest (RCF) algorithm to visualize complex real-world scenarios, such as detecting seasonality and trends, excluding outliers, and imputing missing values.

The team working on this project is non-technical and is looking for an out-of-the-box solution that will require the LEAST amount of management overhead.

Which solution will meet these requirements?

- A. Use an AWS Glue ML transform to create a forecast and then use Amazon QuickSight to visualize the data.
- B. Use Amazon QuickSight to visualize the data and then use ML-powered forecasting to forecast the key business metrics.
- C. Use a pre-build ML AMI from the AWS Marketplace to create forecasts and then use Amazon QuickSight to visualize the data.
- D. Use calculated fields to create a new forecast and then use Amazon QuickSight to visualize the data.

Answer: A

NEW QUESTION 60

An online retailer is rebuilding its inventory management system and inventory reordering system to automatically reorder products by using Amazon Kinesis Data Streams. The inventory management system uses the Kinesis Producer Library (KPL) to publish data to a stream. The inventory reordering system uses the Kinesis Client Library (KCL) to consume data from the stream. The stream has been configured to scale as needed. Just before production deployment, the retailer discovers that the inventory reordering system is receiving duplicated data.

Which factors could be causing the duplicated data? (Choose two.)

- A. The producer has a network-related timeout.
- B. The stream's value for the `IteratorAgeMilliseconds` metric is too high.
- C. There was a change in the number of shards, record processors, or both.
- D. The `AggregationEnabled` configuration property was set to true.
- E. The `max_records` configuration property was set to a number that is too high.

Answer: BD

NEW QUESTION 65

A large company has a central data lake to run analytics across different departments. Each department uses a separate AWS account and stores its data in an Amazon S3 bucket in that account. Each AWS account uses the AWS Glue Data Catalog as its data catalog. There are different data lake access requirements based on roles. Associate analysts should only have read access to their departmental data. Senior data analysts can have access in multiple departments including theirs, but for a subset of columns only.

Which solution achieves these required access patterns to minimize costs and administrative tasks?

- A. Consolidate all AWS accounts into one account
- B. Create different S3 buckets for each department and move all the data from every account to the central data lake account
- C. Migrate the individual data catalogs into a central data catalog and apply fine-grained permissions to give to each user the required access to tables and databases in AWS Glue and Amazon S3.
- D. Keep the account structure and the individual AWS Glue catalogs on each account
- E. Add a central data lake account and use AWS Glue to catalog data from various accounts
- F. Configure cross-account access for AWS Glue crawlers to scan the data in each departmental S3 bucket to identify the schema and populate the catalog
- G. Add the senior data analysts into the central account and apply highly detailed access controls in the Data Catalog and Amazon S3.
- H. Set up an individual AWS account for the central data lake
- I. Use AWS Lake Formation to catalog the cross-account location
- J. On each individual S3 bucket, modify the bucket policy to grant S3 permissions to the Lake Formation service-linked role
- K. Use Lake Formation permissions to add fine-grained access controls to allow senior analysts to view specific tables and columns.
- L. Set up an individual AWS account for the central data lake and configure a central S3 bucket
- M. Use an AWS Lake Formation blueprint to move the data from the various buckets into the central S3 bucket
- N. On each individual bucket, modify the bucket policy to grant S3 permissions to the Lake Formation service-linked role
- O. Use Lake Formation permissions to add fine-grained access controls for both associate and senior analysts to view specific tables and columns.

Answer: C

Explanation:

Lake Formation provides secure and granular access to data through a new grant/revoke permissions model that augments AWS Identity and Access Management (IAM) policies. Analysts and data scientists can use the full portfolio of AWS analytics and machine learning services, such as Amazon Athena, to access the data. The configured Lake Formation security policies help ensure that users can access only the data that they are authorized to access. Source : <https://docs.aws.amazon.com/lake-formation/latest/dg/how-it-works.html>

NEW QUESTION 70

A company is sending historical datasets to Amazon S3 for storage. A data engineer at the company wants to make these datasets available for analysis using Amazon Athena. The engineer also wants to encrypt the Athena query results in an S3 results location by using AWS solutions for encryption. The requirements for encrypting the query results are as follows:

Use custom keys for encryption of the primary dataset query results.

Use generic encryption for all other query results.

Provide an audit trail for the primary dataset queries that shows when the keys were used and by whom. Which solution meets these requirements?

- A. Use server-side encryption with S3 managed encryption keys (SSE-S3) for the primary dataset
- B. Use SSE-S3 for the other datasets.
- C. Use server-side encryption with customer-provided encryption keys (SSE-C) for the primary dataset. Use server-side encryption with S3 managed encryption

keys (SSE-S3) for the other datasets.

D. Use server-side encryption with AWS KMS managed customer master keys (SSE-KMS CMKs) for the primary dataset

E. Use server-side encryption with S3 managed encryption keys (SSE-S3) for the other datasets.

F. Use client-side encryption with AWS Key Management Service (AWS KMS) customer managed keys for the primary dataset

G. Use S3 client-side encryption with client-side keys for the other datasets.

Answer: A

NEW QUESTION 75

A company wants to optimize the cost of its data and analytics platform. The company is ingesting a number of .csv and JSON files in Amazon S3 from various data sources. Incoming data is expected to be 50 GB each day. The company is using Amazon Athena to query the raw data in Amazon S3 directly. Most queries aggregate data from the past 12 months, and data that is older than 5 years is infrequently queried. The typical query scans about 500 MB of data and is expected to return results in less than 1 minute. The raw data must be retained indefinitely for compliance requirements.

Which solution meets the company's requirements?

A. Use an AWS Glue ETL job to compress, partition, and convert the data into a columnar data format

B. Use Athena to query the processed dataset

C. Configure a lifecycle policy to move the processed data into the Amazon S3 Standard-Infrequent Access (S3 Standard-IA) storage class 5 years after object creation

D. Configure a second lifecycle policy to move the raw data into Amazon S3 Glacier for long-term archival 7 days after object creation.

E. Use an AWS Glue ETL job to partition and convert the data into a row-based data format

F. Use Athena to query the processed dataset

G. Configure a lifecycle policy to move the data into the Amazon S3 Standard- Infrequent Access (S3 Standard-IA) storage class 5 years after object creation

H. Configure a second lifecycle policy to move the raw data into Amazon S3 Glacier for long-term archival 7 days after object creation.

I. Use an AWS Glue ETL job to compress, partition, and convert the data into a columnar data format

J. Use Athena to query the processed dataset

K. Configure a lifecycle policy to move the processed data into the Amazon S3 Standard-Infrequent Access (S3 Standard-IA) storage class 5 years after the object was last accessed

L. Configure a second lifecycle policy to move the raw data into Amazon S3 Glacier for long-term archival 7 days after the last date the object was accessed.

M. Use an AWS Glue ETL job to partition and convert the data into a row-based data format

N. Use Athena to query the processed dataset

O. Configure a lifecycle policy to move the data into the Amazon S3 Standard- Infrequent Access (S3 Standard-IA) storage class 5 years after the object was last accessed

P. Configure a second lifecycle policy to move the raw data into Amazon S3 Glacier for long-term archival 7 days after the last date the object was accessed.

Answer: A

NEW QUESTION 77

A company uses Amazon Elasticsearch Service (Amazon ES) to store and analyze its website clickstream data. The company ingests 1 TB of data daily using Amazon Kinesis Data Firehose and stores one day's worth of data in an Amazon ES cluster.

The company has very slow query performance on the Amazon ES index and occasionally sees errors from Kinesis Data Firehose when attempting to write to the index. The Amazon ES cluster has 10 nodes running a single index and 3 dedicated master nodes. Each data node has 1.5 TB of Amazon EBS storage attached and the cluster is configured with 1,000 shards. Occasionally, JVMMemoryPressure errors are found in the cluster logs.

Which solution will improve the performance of Amazon ES?

A. Increase the memory of the Amazon ES master nodes.

B. Decrease the number of Amazon ES data nodes.

C. Decrease the number of Amazon ES shards for the index.

D. Increase the number of Amazon ES shards for the index.

Answer: C

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/high-jvm-memory-pressure-elasticsearch/>

NEW QUESTION 78

A company that produces network devices has millions of users. Data is collected from the devices on an hourly basis and stored in an Amazon S3 data lake.

The company runs analyses on the last 24 hours of data flow logs for abnormality detection and to troubleshoot and resolve user issues. The company also analyzes historical logs dating back 2 years to discover patterns and look for improvement opportunities.

The data flow logs contain many metrics, such as date, timestamp, source IP, and target IP. There are about 10 billion events every day.

How should this data be stored for optimal performance?

A. In Apache ORC partitioned by date and sorted by source IP

B. In compressed .csv partitioned by date and sorted by source IP

C. In Apache Parquet partitioned by source IP and sorted by date

D. In compressed nested JSON partitioned by source IP and sorted by date

Answer: A

NEW QUESTION 79

A healthcare company uses AWS data and analytics tools to collect, ingest, and store electronic health record (EHR) data about its patients. The raw EHR data is stored in Amazon S3 in JSON format partitioned by hour, day, and year and is updated every hour. The company wants to maintain the data catalog and metadata in an AWS Glue Data Catalog to be able to access the data using Amazon Athena or Amazon Redshift Spectrum for analytics.

When defining tables in the Data Catalog, the company has the following requirements:

Choose the catalog table name and do not rely on the catalog table naming algorithm. Keep the table updated with new partitions loaded in the respective S3 bucket prefixes.

Which solution meets these requirements with minimal effort?

A. Run an AWS Glue crawler that connects to one or more data stores, determines the data structures, and writes tables in the Data Catalog.

- B. Use the AWS Glue console to manually create a table in the Data Catalog and schedule an AWS Lambda function to update the table partitions hourly.
- C. Use the AWS Glue API CreateTable operation to create a table in the Data Catalog.
- D. Create an AWS Glue crawler and specify the table as the source.
- E. Create an Apache Hive catalog in Amazon EMR with the table schema definition in Amazon S3, and update the table partition with a scheduled job.
- F. Migrate the Hive catalog to the Data Catalog.

Answer: C

Explanation:

Updating Manually Created Data Catalog Tables Using Crawlers: To do this, when you define a crawler, instead of specifying one or more data stores as the source of a crawl, you specify one or more existing Data Catalog tables. The crawler then crawls the data stores specified by the catalog tables. In this case, no new tables are created; instead, your manually created tables are updated.

NEW QUESTION 81

A marketing company wants to improve its reporting and business intelligence capabilities. During the planning phase, the company interviewed the relevant stakeholders and discovered that:

The operations team reports are run hourly for the current month's data.
The sales team wants to use multiple Amazon QuickSight dashboards to show a rolling view of the last 30 days based on several categories.
The sales team also wants to view the data as soon as it reaches the reporting backend.
The finance team's reports are run daily for last month's data and once a month for the last 24 months of data.
Currently, there is 400 TB of data in the system with an expected additional 100 TB added every month. The company is looking for a solution that is as cost-effective as possible.
Which solution meets the company's requirements?

- A. Store the last 24 months of data in Amazon Redshift.
- B. Configure Amazon QuickSight with Amazon Redshift as the data source.
- C. Store the last 2 months of data in Amazon Redshift and the rest of the months in Amazon S3. Set up an external schema and table for Amazon Redshift Spectrum.
- D. Configure Amazon QuickSight with Amazon Redshift as the data source.
- E. Store the last 24 months of data in Amazon S3 and query it using Amazon Redshift Spectrum. Configure Amazon QuickSight with Amazon Redshift Spectrum as the data source.
- F. Store the last 2 months of data in Amazon Redshift and the rest of the months in Amazon S3. Use a long-running Amazon EMR with Apache Spark cluster to query the data as needed.
- G. Configure Amazon QuickSight with Amazon EMR as the data source.

Answer: B

NEW QUESTION 82

A company wants to improve the data load time of a sales data dashboard. Data has been collected as .csv files and stored within an Amazon S3 bucket that is partitioned by date. The data is then loaded to an Amazon Redshift data warehouse for frequent analysis. The data volume is up to 500 GB per day.
Which solution will improve the data loading performance?

- A. Compress .csv files and use an INSERT statement to ingest data into Amazon Redshift.
- B. Split large .csv files, then use a COPY command to load data into Amazon Redshift.
- C. Use Amazon Kinesis Data Firehose to ingest data into Amazon Redshift.
- D. Load the .csv files in an unsorted key order and vacuum the table in Amazon Redshift.

Answer: B

Explanation:

https://docs.aws.amazon.com/redshift/latest/dg/c_loading-data-best-practices.html

NEW QUESTION 85

A company has a marketing department and a finance department. The departments are storing data in Amazon S3 in their own AWS accounts in AWS Organizations. Both departments use AWS Lake Formation to catalog and secure their data. The departments have some databases and tables that share common names.

The marketing department needs to securely access some tables from the finance department. Which two steps are required for this process? (Choose two.)

- A. The finance department grants Lake Formation permissions for the tables to the external account for the marketing department.
- B. The finance department creates cross-account IAM permissions to the table for the marketing department role.
- C. The marketing department creates an IAM role that has permissions to the Lake Formation tables.

Answer: AB

Explanation:

Granting Lake Formation Permissions Creating an IAM role (AWS CLI)

NEW QUESTION 88

An online retail company with millions of users around the globe wants to improve its ecommerce analytics capabilities. Currently, clickstream data is uploaded directly to Amazon S3 as compressed files. Several times each day, an application running on Amazon EC2 processes the data and makes search options and reports available for visualization by editors and marketers. The company wants to make website clicks and aggregated data available to editors and marketers in minutes to enable them to connect with users more effectively.

Which options will help meet these requirements in the MOST efficient way? (Choose two.)

- A. Use Amazon Kinesis Data Firehose to upload compressed and batched clickstream records to Amazon Elasticsearch Service.
- B. Upload clickstream records to Amazon S3 as compressed file
- C. Then use AWS Lambda to send data to Amazon Elasticsearch Service from Amazon S3.
- D. Use Amazon Elasticsearch Service deployed on Amazon EC2 to aggregate, filter, and process the data.Refresh content performance dashboards in near-real time.
- E. Use Kibana to aggregate, filter, and visualize the data stored in Amazon Elasticsearch Servic
- F. Refresh content performance dashboards in near-real time.
- G. Upload clickstream records from Amazon S3 to Amazon Kinesis Data Streams and use a Kinesis Data Streams consumer to send records to Amazon Elasticsearch Service.

Answer: AD

NEW QUESTION 91

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