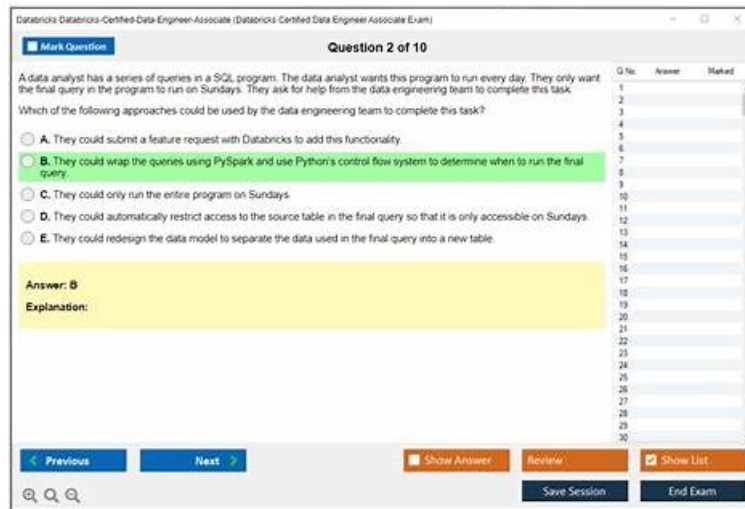# 2025 High hit rate Reliable Data-Engineer-Associate Braindumps Sheet Help You Pass Data-Engineer-Associate Easily

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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q16-Q21):

NEW QUESTION # 16
During a security review, a company identified a vulnerability in an AWS Glue job. The company discovered that credentials to access an Amazon Redshift cluster were hard coded in the job script.
A data engineer must remediate the security vulnerability in the AWS Glue job. The solution must securely store the credentials.
Which combination of steps should the data engineer take to meet these requirements? (Choose two.)

- A. Store the credentials in the AWS Glue job parameters.

- B. Grant the AWS Glue job 1AM role access to the stored credentials.
- C. Store the credentials in AWS Secrets Manager.
- D. Access the credentials from a configuration file that is in an Amazon S3 bucket by using the AWS Glue job.
- E. Store the credentials in a configuration file that is in an Amazon S3 bucket.

Answer: B,C

Explanation:
AWS Secrets Manager is a service that allows you to securely store and manage secrets, such as database credentials, API keys, passwords, etc. You can use Secrets Manager to encrypt, rotate, and audit your secrets, as well as to control access to them using fine-grained policies. AWS Glue is a fully managed service that provides a serverless data integration platform for data preparation, data cataloging, and data loading. AWS Glue jobs allow you to transform and load data from various sources into various targets, using either a graphical interface (AWS Glue Studio) or a code-based interface (AWS Glue console or AWS Glue API).
Storing the credentials in AWS Secrets Manager and granting the AWS Glue job 1AM role access to the stored credentials will meet the requirements, as it will remediate the security vulnerability in the AWS Glue job and securely store the credentials. By using AWS Secrets Manager, you can avoid hard coding the credentials in the job script, which is a bad practice that exposes the credentials to unauthorized access or leakage. Instead, you can store the credentials as a secret in Secrets Manager and reference the secret name or ARN in the job script. You can also use Secrets Manager to encrypt thecredentials using AWS Key Management Service (AWS KMS), rotate the credentials automatically or on demand, and monitor the access to the credentials using AWS CloudTrail. By granting the AWS Glue job 1AM role access to the stored credentials, you can use the principle of least privilege to ensure that only the AWS Glue job can retrieve the credentials from Secrets Manager. You can also use resource-based or tag-based policies to further restrict the access to the credentials.
The other options are not as secure as storing the credentials in AWS Secrets Manager and granting the AWS Glue job 1AM role access to the stored credentials. Storing the credentials in the AWS Glue job parameters will not remediate the security vulnerability, as the job parameters are still visible in the AWS Glue console and API. Storing the credentials in a configuration file that is in an Amazon S3 bucket and accessing the credentials from the configuration file by using the AWS Glue job will not be as secure as using Secrets Manager, as the configuration file may not be encrypted or rotated, and the access to the file may not be audited or controlled. References:
AWS Secrets Manager
AWS Glue
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 6: Data Integration and Transformation, Section 6.1: AWS Glue

NEW QUESTION # 17
A data engineer needs to create a new empty table in Amazon Athena that has the same schema as an existing table named old-table.
Which SQL statement should the data engineer use to meet this requirement?

- A.
```
CREATE TABLE new_table (LIKE old_table);
amazon
```
- B.
```
INSERT INTO new_table SELECT * FROM old_table;
amazon
```
- C.
```
amazon
CREATE TABLE new_table AS SELECT * FROM old_table;
```
- D.
```
CREATE TABLE new_table AS (SELECT * FROM old_table) WITH NO DATA;
```

Answer: D

Explanation:
Problem Analysis:
The goal is to create a new empty table in Athena with the same schema as an existing table (old_table).

The solution must avoid copying any data.
Key Considerations:
CREATE TABLE AS (CTAS) is commonly used in Athena for creating new tables based on an existing table.
Adding the WITH NO DATA clause ensures only the schema is copied, without transferring any data.
Solution Analysis:
Option A: Copies both schema and data. Does not meet the requirement for an empty table.
Option B: Inserts data into an existing table, which does not create a new table.
Option C: Creates an empty table but does not copy the schema.
Option D: Creates a new table with the same schema and ensures it is empty by using WITH NO DATA.
Final Recommendation:
Use D. CREATE TABLE new_table AS (SELECT * FROM old_table) WITH NO DATA to create an empty table with the same
schema.
Reference:
Athena CTAS Queries
CREATE TABLE Statement in Athena

NEW QUESTION # 18

A company extracts approximately 1 TB of data every day from data sources such as SAP HANA, Microsoft SQL Server,
MongoDB, Apache Kafka, and Amazon DynamoDB. Some of the data sources have undefined data schemas or data schemas that
change.
A data engineer must implement a solution that can detect the schema for these data sources. The solution must extract, transform,
and load the data to an Amazon S3 bucket. The company has a service level agreement (SLA) to load the data into the S3 bucket
within 15 minutes of data creation.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Amazon EMR to detect the schema and to extract, transform, and load the data into the S3 bucket. Create a pipeline
  in Apache Spark.
- B. Create a PvSpark proqram in AWS Lambda to extract, transform, and load the data into the S3 bucket.
- C. Create a stored procedure in Amazon Redshift to detect the schema and to extract, transform, and load the data into a
  Redshift Spectrum table. Access the table from Amazon S3.
- D. Use AWS Glue to detect the schema and to extract, transform, and load the data into the S3 bucket. Create a pipeline in
  Apache Spark.

Answer: D

Explanation:
AWS Glue is a fully managed service that provides a serverless data integration platform. It can automatically discover and
categorize data from various sources, including SAP HANA, Microsoft SQL Server, MongoDB, Apache Kafka, and Amazon
DynamoDB. It can also infer the schema of the data and store it in the AWS Glue Data Catalog, which is a central metadata
repository. AWS Glue can then use the schema information to generate and run Apache Spark code to extract, transform, and load
the data into an Amazon S3 bucket. AWS Glue can also monitor and optimize the performance and cost of the data pipeline, and
handle any schema changes that may occur in the source data. AWS Glue can meet the SLA of loading the data into the S3 bucket
within 15 minutes of data creation, as it can trigger the data pipeline based on events, schedules, or on-demand. AWS Glue has the
least operational overhead among the options, as it does not require provisioning, configuring, or managing any servers or clusters. It
also handles scaling, patching, and security automatically. Reference:
AWS Glue
[AWS Glue Data Catalog]
[AWS Glue Developer Guide]
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide

NEW QUESTION # 19

A company is building a data stream processing application. The application runs in an Amazon Elastic Kubernetes Service (Amazon
EKS) cluster. The application stores processed data in an Amazon DynamoDB table.
The company needs the application containers in the EKS cluster to have secure access to the DynamoDB table. The company does
not want to embed AWS credentials in the containers.
Which solution will meet these requirements?

- A. Attach an IAM role to the EKS worker nodes. Grant the IAM role access to DynamoDB. Use the IAM role to set up

IAM roles service accounts (IRSA) functionality.
- B. Create an IAM user that has an access key to access the DynamoDB table. Use Kubernetes secrets that are mounted in a volume of the EKS cluster nodes to store the user access key data.
- C. Create an IAM user that has an access key to access the DynamoDB table. Use environment variables in the EKS containers to store the IAM user access key data.
- D. Store the AWS credentials in an Amazon S3 bucket. Grant the EKS containers access to the S3 bucket to retrieve the credentials.

Answer: A

Explanation:
In this scenario, the company is using Amazon Elastic Kubernetes Service (EKS) and wants secure access to DynamoDB without embedding credentials inside the application containers. The best practice is to use IAM roles for service accounts (IRSA), which allows assigning IAM roles to Kubernetes service accounts. This lets the EKS pods assume specific IAM roles securely, without the need to store credentials in containers.
IAM Roles for Service Accounts (IRSA):
With IRSA, each pod in the EKS cluster can assume an IAM role that grants access to DynamoDB without needing to manage long-term credentials. The IAM role can be attached to the service account associated with the pod.
This ensures least privilege access, improving security by preventing credentials from being embedded in the containers.
Reference:
Alternatives Considered:
A (Storing AWS credentials in S3): Storing AWS credentials in S3 and retrieving them introduces security risks and violates the principle of not embedding credentials.
C (IAM user access keys in environment variables): This also embeds credentials, which is not recommended.
D (Kubernetes secrets): Storing user access keys as secrets is an option, but it still involves handling long-term credentials manually, which is less secure than using IRSA.
IAM Best Practices for Amazon EKS
Secure Access to DynamoDB from EKS

NEW QUESTION # 20
A transportation company wants to track vehicle movements by capturing geolocation records. The records are 10 bytes in size. The company receives up to 10,000 records every second. Data transmission delays of a few minutes are acceptable because of unreliable network conditions.
The transportation company wants to use Amazon Kinesis Data Streams to ingest the geolocation data. The company needs a reliable mechanism to send data to Kinesis Data Streams. The company needs to maximize the throughput efficiency of the Kinesis shards.
Which solution will meet these requirements in the MOST operationally efficient way?

- A. Kinesis Producer Library (KPL)
- B. Kinesis SDK
- C. Amazon Data Firehose
- D. Kinesis Agent

Answer: A

Explanation:
* Problem Analysis:
* The company ingests geolocation records (10 bytes each) at 10,000 records per second into Kinesis Data Streams.
* Data transmission delays are acceptable, but the solution must maximize throughput efficiency.
* Key Considerations:
* TheKinesis Producer Library (KPL)batches records and uses aggregation to optimize shard throughput.
* Efficiently handles high-throughput scenarios with minimal operational overhead.
* Solution Analysis:
* Option A: Kinesis Agent
* Designed for file-based ingestion; not optimized for geolocation records.
* Option B: KPL
* Aggregates records into larger payloads, significantly improving shard throughput.
* Suitable for applications generating small, high-frequency records.
* Option C: Kinesis Firehose
* Firehose is for delivery to destinations like S3 or Redshift and is not optimized for direct ingestion to Kinesis Data Streams.

* Option D: Kinesis SDK
* The SDK lacks advanced features like aggregation, resulting in lower throughput efficiency.
* Final Recommendation:
* UseKinesis Producer Library (KPL)for its built-in aggregation and batching capabilities.
:
Kinesis Producer Library (KPL) Overview
Best Practices for Amazon Kinesis

NEW QUESTION # 21

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