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Test AWS Certified Data Engineer - Associate (DEA-C01) Lab Questions

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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q40-Q45):

NEW QUESTION # 40

A company needs to build a data lake in AWS. The company must provide row-level data access and column-level data access to specific teams. The teams will access the data by using Amazon Athena, Amazon Redshift Spectrum, and Apache Hive from Amazon EMR.

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

- A. Use Amazon S3 for data lake storage. Use S3 access policies to restrict data access by rows and columns. Provide data access through Amazon S3.
- **B. Use Amazon S3 for data lake storage. Use AWS Lake Formation to restrict data access by rows and columns. Provide data access through AWS Lake Formation.**
- C. Use Amazon Redshift for data lake storage. Use Redshift security policies to restrict data access by rows and columns. Provide data access by using Apache Spark and Amazon Athena federated queries.
- D. Use Amazon S3 for data lake storage. Use Apache Ranger through Amazon EMR to restrict data access by rows and columns. Provide data access by using Apache Pig.

Answer: B

Explanation:

Option D is the best solution to meet the requirements with the least operational overhead because AWS Lake Formation is a fully managed service that simplifies the process of building, securing, and managing data lakes. AWS Lake Formation allows you to define granular data access policies at the row and column level for different users and groups. AWS Lake Formation also integrates with Amazon Athena, Amazon Redshift Spectrum, and Apache Hive on Amazon EMR, enabling these services to access the data in the data lake through AWS Lake Formation.

Option A is not a good solution because S3 access policies cannot restrict data access by rows and columns.

S3 access policies are based on the identity and permissions of the requester, the bucket and object ownership, and the object prefix and tags. S3 access policies cannot enforce fine-grained data access control at the row and column level.

Option B is not a good solution because it involves using Apache Ranger and Apache Pig, which are not fully managed services and require additional configuration and maintenance. Apache Ranger is a framework that provides centralized security administration for data stored in Hadoop clusters, such as Amazon EMR. Apache Ranger can enforce row-level and column-level access policies for Apache Hive tables. However, Apache Ranger is not a native AWS service and requires manual installation and configuration on Amazon EMR clusters. Apache Pig is a platform that allows you to analyze large data sets using a high-level scripting language called Pig Latin. Apache Pig can access data stored in Amazon S3 and process it using Apache Hive.

However, Apache Pig is not a native AWS service and requires manual installation and configuration on Amazon EMR clusters.

Option C is not a good solution because Amazon Redshift is not a suitable service for data lake storage.

Amazon Redshift is a fully managed data warehouse service that allows you to run complex analytical queries using standard SQL. Amazon Redshift can enforce row-level and column-level access policies for different users and groups. However, Amazon Redshift is not designed to store and process large volumes of unstructured or semi-structured data, which are typical characteristics of data lakes. Amazon Redshift is also more expensive and less scalable than Amazon S3 for data lake storage.

References:

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

What Is AWS Lake Formation? - AWS Lake Formation

Using AWS Lake Formation with Amazon Athena - AWS Lake Formation

Using AWS Lake Formation with Amazon Redshift Spectrum - AWS Lake Formation Using AWS Lake Formation with Apache

Hive on Amazon EMR - AWS Lake Formation Using Bucket Policies and User Policies - Amazon Simple Storage Service Apache

Ranger Apache Pig What Is Amazon Redshift? - Amazon Redshift

NEW QUESTION # 41

A financial services company stores financial data in Amazon Redshift. A data engineer wants to run real-time queries on the financial data to support a web-based trading application. The data engineer wants to run the queries from within the trading application. Which solution will meet these requirements with the LEAST operational overhead?

- **A. Use the Amazon Redshift Data API.**
- B. Set up Java Database Connectivity (JDBC) connections to Amazon Redshift.
- C. Store frequently accessed data in Amazon S3. Use Amazon S3 Select to run the queries.
- D. Establish WebSocket connections to Amazon Redshift.

Answer: A

Explanation:

The Amazon Redshift Data API is a built-in feature that allows you to run SQL queries on Amazon Redshift data with web services-based applications, such as AWS Lambda, Amazon SageMaker notebooks, and AWS Cloud9. The Data API does not require a persistent connection to your database, and it provides a secure HTTP endpoint and integration with AWS SDKs. You can use the endpoint to run SQL statements without managing connections. The Data API also supports both Amazon Redshift provisioned clusters and Redshift Serverless workgroups. The Data API is the best solution for running real-time queries on the financial data from within the trading application, as it has the least operational overhead compared to the other options.

Option A is not the best solution, as establishing WebSocket connections to Amazon Redshift would require more configuration and maintenance than using the Data API. WebSocket connections are also not supported by Amazon Redshift clusters or serverless workgroups.

Option C is not the best solution, as setting up JDBC connections to Amazon Redshift would also require more configuration and maintenance than using the Data API. JDBC connections are also not supported by Redshift Serverless workgroups.

Option D is not the best solution, as storing frequently accessed data in Amazon S3 and using Amazon S3 Select to run the queries would introduce additional latency and complexity than using the Data API. Amazon S3 Select is also not optimized for real-time queries, as it scans the entire object before returning the results. Reference:

Using the Amazon Redshift Data API

Calling the Data API

Amazon Redshift Data API Reference

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NEW QUESTION # 42

A data engineer is configuring Amazon SageMaker Studio to use AWS Glue interactive sessions to prepare data for machine learning (ML) models.

The data engineer receives an access denied error when the data engineer tries to prepare the data by using SageMaker Studio. Which change should the engineer make to gain access to SageMaker Studio?

- A. Add the AWSGlueServiceRole managed policy to the data engineer's IAM user.
- B. Add the AmazonSageMakerFullAccess managed policy to the data engineer's IAM user.
- C. Add a policy to the data engineer's IAM user that allows the sts:AddAssociation action for the AWS Glue and SageMaker service principals in the trust policy.
- **D. Add a policy to the data engineer's IAM user that includes the sts:AssumeRole action for the AWS Glue and SageMaker service principals in the trust policy.**

Answer: D

Explanation:

This solution meets the requirement of gaining access to SageMaker Studio to use AWS Glue interactive sessions. AWS Glue interactive sessions are a way to use AWS Glue DataBrew and AWS Glue Data Catalog from within SageMaker Studio. To use AWS Glue interactive sessions, the data engineer's IAM user needs to have permissions to assume the AWS Glue service role and the SageMaker execution role. By adding a policy to the data engineer's IAM user that includes the sts:AssumeRole action for the AWS Glue and SageMaker service principals in the trust policy, the data engineer can grant these permissions and avoid the access denied error. The other options are not sufficient or necessary to resolve the error. References:

* Get started with data integration from Amazon S3 to Amazon Redshift using AWS Glue interactive sessions

* Troubleshoot Errors - Amazon SageMaker

* AccessDeniedException on sagemaker:CreateDomain in AWS SageMaker Studio, despite having SageMakerFullAccess

NEW QUESTION # 43

A company uses Amazon S3 to store data and Amazon QuickSight to create visualizations.

The company has an S3 bucket in an AWS account named Hub-Account. The S3 bucket is encrypted by an AWS Key Management Service (AWS KMS) key. The company's QuickSight instance is in a separate account named BI-Account. The company updates the S3 bucket policy to grant access to the QuickSight service role. The company wants to enable cross-account access to allow QuickSight to interact with the S3 bucket.

Which combination of steps will meet this requirement? (Select TWO.)

- A. Use the existing AWS KMS key to encrypt connections from QuickSight to the S3 bucket.
- B. Add the S3 bucket as a resource that the QuickSight service role can access.
- C. Add an IAM policy to the QuickSight service role to give QuickSight access to the KMS key that encrypts the S3 bucket.
- D. Use AWS Resource Access Manager (AWS RAM) to share the S3 bucket with the BI-Account account.
- E. Add the KMS key as a resource that the QuickSight service role can access.

Answer: C,E

Explanation:

* Problem Analysis:

* The company needs cross-account access to allow QuickSight in BI-Account to interact with an S3 bucket in Hub-Account.

* The bucket is encrypted with an AWS KMS key.

* Appropriate permissions must be set for both S3 access and KMS decryption.

* Key Considerations:

* QuickSight requires IAM permissions to access S3 data and decrypt files using the KMS key.

* Both S3 and KMS permissions need to be properly configured across accounts.

* Solution Analysis:

* Option A: Use Existing KMS Key for Encryption

* While the existing KMS key is used for encryption, it must also grant decryption permissions to QuickSight.

* Option B: Add S3 Bucket to QuickSight Role

* Granting S3 bucket access to the QuickSight service role is necessary for cross-account access.

* Option C: AWS RAM for Bucket Sharing

* AWS RAM is not required; bucket policies and IAM roles suffice for granting cross-account access.

* Option D: IAM Policy for KMS Access

* QuickSight's service role in BI-Account needs explicit permissions to use the KMS key for decryption.

* Option E: Add KMS Key as Resource for Role

* The KMS key must explicitly list the QuickSight role as an entity that can access it.

* Implementation Steps:

* S3 Bucket Policy in Hub-Account: Add a policy to the S3 bucket granting the QuickSight service role access:

json

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": { "AWS": "arn:aws:iam::<BI-Account-ID>:role/service-role/QuickSightRole" },
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::<Bucket-Name>/*"
    }
  ]
}
```

* KMS Key Policy in Hub-Account: Add permissions for the QuickSight role:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": { "AWS": "arn:aws:iam::<BI-Account-ID>:role/service-role/QuickSightRole" },
      "Action": [
        "kms:Decrypt",
        "kms:DescribeKey"
      ],
      "Resource": "*"
    }
  ]
}
```

```

}
]
}
* IAM Policy for QuickSight Role in BI-Account: Attach the following policy to the QuickSight service role:
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:GetObject",
        "kms:Decrypt"
      ],
      "Resource": [
        "arn:aws:s3:::<Bucket-Name>/*",
        "arn:aws:kms:<region>:<Hub-Account-ID>:key/<KMS-Key-ID>"
      ]
    }
  ]
}
:

```

Setting Up Cross-Account S3 Access
 AWS KMS Key Policy Examples
 Amazon QuickSight Cross-Account Access

NEW QUESTION # 44

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

Answer: C

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.

References:

- * 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 # 45

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