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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q112-Q117):

NEW QUESTION # 112

A data engineer needs to use Amazon Neptune to develop graph applications.

Which programming languages should the engineer use to develop the graph applications? (Select TWO.)

- A. SPARQL
- B. SQL
- C. Spark SQL
- D. ANSI SQL
- E. Gremlin

Answer: A,E

Explanation:

Amazon Neptune supports graph applications using Gremlin and SPARQL as query languages. Neptune is a fully managed graph database service that supports both property graph and RDF graph models.

* Option A: Gremlin is a query language for property graph databases, which is supported by Amazon Neptune. It allows the traversal and manipulation of graph data in the property graph model.

* Option D: SPARQL is a query language for querying RDF graph data in Neptune. It is used to query, manipulate, and retrieve information stored in RDF format.

Other options:

* SQL (Option B) and ANSI SQL (Option C) are traditional relational database query languages and are not used for graph databases.

* Spark SQL (Option E) is related to Apache Spark for big data processing, not for querying graph databases.

References:

* Amazon Neptune Documentation

* Gremlin Documentation

* SPARQL Documentation

NEW QUESTION # 113

A data engineer needs to use Amazon Neptune to develop graph applications.

Which programming languages should the engineer use to develop the graph applications? (Select TWO.)

- **A. SPARQL**
- B. SQL
- C. Spark SQL
- D. ANSI SQL
- **E. Gremlin**

Answer: A,E

Explanation:

Amazon Neptune supports graph applications using Gremlin and SPARQL as query languages. Neptune is a fully managed graph database service that supports both property graph and RDF graph models.

Option A: Gremlin

Gremlin is a query language for property graph databases, which is supported by Amazon Neptune. It allows the traversal and manipulation of graph data in the property graph model.

Option D: SPARQL

SPARQL is a query language for querying RDF graph data in Neptune. It is used to query, manipulate, and retrieve information stored in RDF format.

Other options:

SQL (Option B) and ANSI SQL (Option C) are traditional relational database query languages and are not used for graph databases.

Spark SQL (Option E) is related to Apache Spark for big data processing, not for querying graph databases.

Reference:

Amazon Neptune Documentation

Gremlin Documentation

SPARQL Documentation

NEW QUESTION # 114

A data engineer uses Amazon Redshift to run resource-intensive analytics processes once every month. Every month, the data engineer creates a new Redshift provisioned cluster. The data engineer deletes the Redshift provisioned cluster after the analytics processes are complete every month. Before the data engineer deletes the cluster each month, the data engineer unloads backup data from the cluster to an Amazon S3 bucket.

The data engineer needs a solution to run the monthly analytics processes that does not require the data engineer to manage the infrastructure manually.

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

- A. Use the AWS CLI to automatically process the analytics workload.
- **B. Use Amazon Redshift Serverless to automatically process the analytics workload.**

- C. Use AWS CloudFormation templates to automatically process the analytics workload.
- D. Use Amazon Step Functions to pause the Redshift cluster when the analytics processes are complete and to resume the cluster to run new processes every month.

Answer: B

Explanation:

Amazon Redshift Serverless is a new feature of Amazon Redshift that enables you to run SQL queries on data in Amazon S3 without provisioning or managing any clusters. You can use Amazon Redshift Serverless to automatically process the analytics workload, as it scales up and down the compute resources based on the query demand, and charges you only for the resources consumed. This solution will meet the requirements with the least operational overhead, as it does not require the data engineer to create, delete, pause, or resume any Redshift clusters, or to manage any infrastructure manually. You can use the Amazon Redshift Data API to run queries from the AWS CLI, AWS SDK, or AWS Lambda functions¹².

The other options are not optimal for the following reasons:

- * A. Use Amazon Step Functions to pause the Redshift cluster when the analytics processes are complete and to resume the cluster to run new processes every month. This option is not recommended, as it would still require the data engineer to create and delete a new Redshift provisioned cluster every month, which can incur additional costs and time. Moreover, this option would require the data engineer to use Amazon Step Functions to orchestrate the workflow of pausing and resuming the cluster, which can add complexity and overhead.
- * C. Use the AWS CLI to automatically process the analytics workload. This option is vague and does not specify how the AWS CLI is used to process the analytics workload. The AWS CLI can be used to run queries on data in Amazon S3 using Amazon Redshift Serverless, Amazon Athena, or Amazon EMR, but each of these services has different features and benefits. Moreover, this option does not address the requirement of not managing the infrastructure manually, as the data engineer may still need to provision and configure some resources, such as Amazon EMR clusters or Amazon Athena workgroups.
- * D. Use AWS CloudFormation templates to automatically process the analytics workload. This option is also vague and does not specify how AWS CloudFormation templates are used to process the analytics workload. AWS CloudFormation is a service that lets you model and provision AWS resources using templates. You can use AWS CloudFormation templates to create and delete a Redshift provisioned cluster every month, or to create and configure other AWS resources, such as Amazon EMR, Amazon Athena, or Amazon Redshift Serverless. However, this option does not address the requirement of not managing the infrastructure manually, as the data engineer may still need to write and maintain the AWS CloudFormation templates, and to monitor the status and performance of the resources.

References:

- * 1: Amazon Redshift Serverless
- * 2: Amazon Redshift Data API
- * : Amazon Step Functions
- * : AWS CLI
- * : AWS CloudFormation

NEW QUESTION # 115

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

Answer: A,B

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>"
      ]
    }
  ]
}
```

}

Reference:

Setting Up Cross-Account S3 Access

AWS KMS Key Policy Examples

Amazon QuickSight Cross-Account Access

NEW QUESTION # 116

A company has five offices in different AWS Regions. Each office has its own human resources (HR) department that uses a unique IAM role. The company stores employee records in a data lake that is based on Amazon S3 storage.

A data engineering team needs to limit access to the records. Each HR department should be able to access records for only employees who are within the HR department's Region.

Which combination of steps should the data engineering team take to meet this requirement with the LEAST operational overhead? (Choose two.)

- **A. Enable fine-grained access control in AWS Lake Formation. Add a data filter for each Region.**
- B. Create a separate S3 bucket for each Region. Configure an IAM policy to allow S3 access. Restrict access based on Region.
- **C. Register the S3 path as an AWS Lake Formation location.**
- D. Use data filters for each Region to register the S3 paths as data locations.
- E. Modify the IAM roles of the HR departments to add a data filter for each department's Region.

Answer: A,C

Explanation:

AWS Lake Formation is a service that helps you build, secure, and manage data lakes on Amazon S3. You can use AWS Lake Formation to register the S3 path as a data lake location, and enable fine-grained access control to limit access to the records based on the HR department's Region. You can use data filters to specify which S3 prefixes or partitions each HR department can access, and grant permissions to the IAM roles of the HR departments accordingly. This solution will meet the requirement with the least operational overhead, as it simplifies the data lake management and security, and leverages the existing IAM roles of the HR departments¹².

The other options are not optimal for the following reasons:

A . Use data filters for each Region to register the S3 paths as data locations. This option is not possible, as data filters are not used to register S3 paths as data locations, but to grant permissions to access specific S3 prefixes or partitions within a data location. Moreover, this option does not specify how to limit access to the records based on the HR department's Region.

C . Modify the IAM roles of the HR departments to add a data filter for each department's Region. This option is not possible, as data filters are not added to IAM roles, but to permissions granted by AWS Lake Formation. Moreover, this option does not specify how to register the S3 path as a data lake location, or how to enable fine-grained access control in AWS Lake Formation.

E . Create a separate S3 bucket for each Region. Configure an IAM policy to allow S3 access. Restrict access based on Region. This option is not recommended, as it would require more operational overhead to create and manage multiple S3 buckets, and to configure and maintain IAM policies for each HR department. Moreover, this option does not leverage the benefits of AWS Lake Formation, such as data cataloging, data transformation, and data governance.

Reference:

1: AWS Lake Formation

2: AWS Lake Formation Permissions

: AWS Identity and Access Management

: Amazon S3

NEW QUESTION # 117

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It is well known that the best way to improve your competitive advantages in this modern world is to increase your soft power, such as graduation from a first-tier university, fruitful experience in a well-known international company, or even possession of some globally recognized Data-Engineer-Associate certifications, which can totally help you highlight your resume and get a promotion in your workplace to a large extent. As a result, our Data-Engineer-Associate Study Materials raise in response to the proper time and conditions while an increasing number of people are desperate to achieve success and become the elite.

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