

簡単準備Data-Engineer-Associate問題無料 | 速く認定資格を取るAWS Certified Data Engineer - Associate (DEA-C01) Data-Engineer-Associateシュミレーション問題集



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>> Data-Engineer-Associate問題無料 <<

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Amazon AWS Certified Data Engineer - Associate (DEA-C01) 認定 Data-Engineer-Associate 試験問題 (Q81-Q86):

質問 # 81

A data engineer needs to create an AWS Lambda function that converts the format of data from .csv to Apache Parquet. The Lambda function must run only if a user uploads a .csv file to an Amazon S3 bucket.

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

- A. Create an S3 event notification that has an event type of `s3:ObjectTagging:*` for objects that have a tag set to `.csv`. Set the Amazon Resource Name (ARN) of the Lambda function as the destination for the event notification.
- **B. Create an S3 event notification that has an event type of `s3:ObjectCreated:*`. Use a filter rule to generate notifications only when the suffix includes `.csv`. Set the Amazon Resource Name (ARN) of the Lambda function as the destination for the event notification.**
- C. Create an S3 event notification that has an event type of `s3:*`. Use a filter rule to generate notifications only when the suffix includes `.csv`. Set the Amazon Resource Name (ARN) of the Lambda function as the destination for the event notification.
- D. Create an S3 event notification that has an event type of `s3:ObjectCreated:*`. Use a filter rule to generate notifications only when the suffix includes `.csv`. Set an Amazon Simple Notification Service (Amazon SNS) topic as the destination for the event notification. Subscribe the Lambda function to the SNS topic.

正解: B

解説:

Option A is the correct answer because it meets the requirements with the least operational overhead. Creating an S3 event notification that has an event type of `s3:ObjectCreated:*` will trigger the Lambda function whenever a new object is created in the S3 bucket. Using a filter rule to generate notifications only when the suffix includes `.csv` will ensure that the Lambda function only runs for `.csv` files. Setting the ARN of the Lambda function as the destination for the event notification will directly invoke the Lambda function without any additional steps.

Option B is incorrect because it requires the user to tag the objects with `.csv`, which adds an extra step and increases the operational overhead.

Option C is incorrect because it uses an event type of `s3:*`, which will trigger the Lambda function for any S3 event, not just object creation. This could result in unnecessary invocations and increased costs.

Option D is incorrect because it involves creating and subscribing to an SNS topic, which adds an extra layer of complexity and operational overhead.

References:

* AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 3: Data Ingestion and Transformation, Section 3.2: S3 Event Notifications and Lambda Functions, Pages 67-69

* Building Batch Data Analytics Solutions on AWS, Module 4: Data Transformation, Lesson 4.2: AWS Lambda, Pages 4-8

* AWS Documentation Overview, AWS Lambda Developer Guide, Working with AWS Lambda Functions, Configuring Function Triggers, Using AWS Lambda with Amazon S3, Pages 1-5

質問 # 82

A company currently uses a provisioned Amazon EMR cluster that includes general purpose Amazon EC2 instances. The EMR cluster uses EMR managed scaling between one to five task nodes for the company's long-running Apache Spark extract, transform, and load (ETL) job. The company runs the ETL job every day.

When the company runs the ETL job, the EMR cluster quickly scales up to five nodes. The EMR cluster often reaches maximum CPU usage, but the memory usage remains under 30%.

The company wants to modify the EMR cluster configuration to reduce the EMR costs to run the daily ETL job.

Which solution will meet these requirements MOST cost-effectively?

- A. Increase the maximum number of task nodes for EMR managed scaling to 10.
- **B. Switch the task node type from general purpose EC2 instances to compute optimized EC2 instances.**
- C. Reduce the scaling cooldown period for the provisioned EMR cluster.
- D. Change the task node type from general purpose EC2 instances to memory optimized EC2 instances.

正解: B

解説:

The company's Apache Spark ETL job on Amazon EMR uses high CPU but low memory, meaning that compute-optimized EC2 instances would be the most cost-effective choice. These instances are designed for high-performance compute applications, where CPU usage is high, but memory needs are minimal, which is exactly the case here.

* Compute Optimized Instances:

* Compute-optimized instances, such as the C5 series, provide a higher ratio of CPU to memory, which is more suitable for jobs with high CPU usage and relatively low memory consumption.

* Switching from general-purpose EC2 instances to compute-optimized instances can reduce costs while improving performance, as these instances are optimized for workloads like Spark jobs that perform a lot of computation.

質問 # 83

A company is using an AWS Transfer Family server to migrate data from an on-premises environment to AWS. Company policy mandates the use of TLS 1.2 or above to encrypt the data in transit.

Which solution will meet these requirements?

- A. Install an SSL certificate on the Transfer Family server to encrypt data transfers by using TLS 1.2.
- B. Update the security group rules for the on-premises network to allow only connections that use TLS 1.2 or above.
- C. Update the security policy of the Transfer Family server to specify a minimum protocol version of TLS 1.2.
- D. Generate new SSH keys for the Transfer Family server. Make the old keys and the new keys available for use.

正解: C

解説:

The AWS Transfer Family server's security policy can be updated to enforce TLS 1.2 or higher, ensuring compliance with company policy for encrypted data transfers.

* AWS Transfer Family Security Policy:

* AWS Transfer Family supports setting a minimum TLS version through its security policy configuration. This ensures that only connections using TLS 1.2 or above are allowed.

Reference: AWS Transfer Family Security Policy

Alternatives Considered:

A (Generate new SSH keys): SSH keys are unrelated to TLS and do not enforce encryption protocols like TLS 1.2.

B (Update security group rules): Security groups control IP-level access, not TLS versions.

D (Install SSL certificate): SSL certificates ensure secure connections, but the TLS version is controlled via the security policy.

References:

AWS Transfer Family Documentation

質問 # 84

A data engineer is configuring an AWS Glue job to read data from an Amazon S3 bucket. The data engineer has set up the necessary AWS Glue connection details and an associated IAM role. However, when the data engineer attempts to run the AWS Glue job, the data engineer receives an error message that indicates that there are problems with the Amazon S3 VPC gateway endpoint.

The data engineer must resolve the error and connect the AWS Glue job to the S3 bucket.

Which solution will meet this requirement?

- A. Review the AWS Glue job code to ensure that the AWS Glue connection details include a fully qualified domain name.
- B. Configure an S3 bucket policy to explicitly grant the AWS Glue job permissions to access the S3 bucket.
- C. Verify that the VPC's route table includes inbound and outbound routes for the Amazon S3 VPC gateway endpoint.
- D. Update the AWS Glue security group to allow inbound traffic from the Amazon S3 VPC gateway endpoint.

正解: C

解説:

The error message indicates that the AWS Glue job cannot access the Amazon S3 bucket through the VPC endpoint. This could be because the VPC's route table does not have the necessary routes to direct the traffic to the endpoint. To fix this, the data engineer must verify that the route table has an entry for the Amazon S3 service prefix (com.amazonaws.region.s3) with the target as the VPC endpoint ID. This will allow the AWS Glue job to use the VPC endpoint to access the S3 bucket without going through the internet or a NAT gateway. For more information, see Gateway endpoints. Reference:

Troubleshoot the AWS Glue error "VPC S3 endpoint validation failed"

質問 #85

A marketing company uses Amazon S3 to store marketing data. The company uses versioning in some buckets. The company runs several jobs to read and load data into the buckets.

To help cost-optimize its storage, the company wants to gather information about incomplete multipart uploads and outdated versions that are present in the S3 buckets.

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

- A. Use the Amazon S3 Storage Lens dashboard to gather the information.
- **B. Use Amazon S3 Inventory configurations reports to gather the information.**
- C. Use AWS CLI to gather the information.
- D. Use AWS usage reports for Amazon S3 to gather the information.

正解: B

解説:

The company wants to gather information about incomplete multipart uploads and outdated versions in its Amazon S3 buckets to optimize storage costs.

* Option B: Use Amazon S3 Inventory configurations reports to gather the information. S3 Inventory provides reports that can list incomplete multipart uploads and versions of objects stored in S3. It offers an easy, automated way to track object metadata across buckets, including data necessary for cost optimization, without manual effort.

Options A (AWS CLI), C (S3 Storage Lens), and D (usage reports) either do not specifically gather the required information about incomplete uploads and outdated versions or require more manual intervention.

References:

* Amazon S3 Inventory Documentation

質問 #86

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