

- A. Install and run the X-Ray SDK on the on-premises servers to capture and relay the data to the X-Ray service.
- B. Capture incoming requests on-premises and configure an AWS Lambda function to pull, process, and relay relevant data to X-Ray using the PutTelemetryRecords API call.
- C. Capture incoming requests on-premises and configure an AWS Lambda function to pull, process, and relay relevant data to X-Ray using the PutTraceSegments API call.
- **D. Install and run the X-Ray daemon on the on-premises servers to capture and relay the data to the X-Ray service.**

Answer: D

NEW QUESTION # 73

A developer is designing a game that stores data in an Amazon DynamoDB table. The partition key of the table is the country of the player. After a sudden increase in the number of players in a specific country, the developer notices ProvisionedThroughputExceededException errors. What should the developer do to resolve these errors?

- **A. Revise the primary key to use more unique identifiers.**
- B. Use pagination to reduce the size of the items that the queries return.
- C. Use strongly consistent table reads.
- D. Use the Scan operation to retrieve the data.

Answer: A

Explanation:

The ProvisionedThroughputExceededException error in DynamoDB occurs when your application exceeds the provisioned read or write capacity for a specific partition. In this case, the partition key is the country of the player, and it appears that a sudden increase in the number of players from a specific country is causing the partition to become "hot," meaning that the requests for that partition are exceeding the available throughput.

To resolve this issue, the developer should consider revising the primary key to spread the load more evenly across partitions. Using more unique identifiers for the partition key, such as adding an additional attribute (e.g., player ID, country + player ID, or a timestamp) can help distribute the data more evenly, preventing any single partition from becoming a hotspot.

NEW QUESTION # 74

A company stores its data in data tables in a series of Amazon S3 buckets. The company received an alert that customer credit card information might have been exposed in a data table on one of the company's public applications. A developer needs to identify all potential exposures within the application environment. Which solution will meet these requirements?

- A. Use Amazon Athena to run a job on the S3 buckets that contain the affected data. Filter the findings by using the SensitiveData:S3Object/Financial finding type.
- B. Use Amazon Macie to run a job on the S3 buckets that contain the affected data. Filter the findings by using the SensitiveData:S3Object/Personal finding type.
- C. Use Amazon Athena to run a job on the S3 buckets that contain the affected data. Filter the findings by using the SensitiveData:S3Object/Personal finding type.
- **D. Use Amazon Macie to run a job on the S3 buckets that contain the affected data. Filter the findings by using the SensitiveData:S3Object/Financial finding type.**

Answer: D

Explanation:

Requirement Summary:

- * Customer credit card data may be exposed
- * Data is stored in Amazon S3
- * Developer must identify all exposure risks

Tool to Use:

Amazon Macie is designed to:

- * Automatically scan S3 for sensitive data
- * Detect financial information, PII, credentials, etc.

Finding Type Mapping:

- * Credit card data maps to: SensitiveData:S3Object/Financial

Evaluate Options:

A). Athena + filtering

* Athena is a query engine; it doesn't detect sensitive data automatically B). Macie + Financial finding type

* Correct

* Designed for this use case

C). Macie + Personal finding type

* Personal maps to names, addresses, etc., not credit cards

D). Athena + Financial

* Again, Athena can't classify data - it only queries structured data

* Macie Overview: <https://docs.aws.amazon.com/macie/latest/userguide/what-is-macie.html>

* Finding Types: <https://docs.aws.amazon.com/macie/latest/user/findings-types.html>

* Financial finding type: SensitiveData:S3Object/Financial

NEW QUESTION # 75

A developer is using an AWS Lambda function to generate avatars for profile pictures that are uploaded to an Amazon S3 bucket. The Lambda function is automatically invoked for profile pictures that are saved under the /original/ S3 prefix. The developer notices that some pictures cause the Lambda function to time out. The developer wants to implement a fallback mechanism by using another Lambda function that resizes the profile picture.

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

- **A. Set the image resize Lambda function as a destination of the avatar generator Lambda function for the events that fail processing.**
- B. Create an Amazon Simple Queue Service (Amazon SQS) queue. Set the SQS queue as a destination with an on failure condition for the avatar generator Lambda function. Configure the image resize Lambda function to poll from the SQS queue.
- C. Create an AWS Step Functions state machine that invokes the avatar generator Lambda function and uses the image resize Lambda function as a fallback. Create an Amazon EventBridge rule that matches events from the S3 bucket to invoke the state machine.
- D. Create an Amazon Simple Notification Service (Amazon SNS) topic. Set the SNS topic as a destination with an on failure condition for the avatar generator Lambda function. Subscribe the image resize Lambda function to the SNS topic.

Answer: A

Explanation:

The solution that will meet the requirements with the least development effort is to set the image resize Lambda function as a destination of the avatar generator Lambda function for the events that fail processing. This way, the fallback mechanism is automatically triggered by the Lambda service without requiring any additional components or configuration. The other options involve creating and managing additional resources such as queues, topics, state machines, or rules, which would increase the complexity and cost of the solution.

NEW QUESTION # 76

A developer used the AWS SDK to create an application that aggregates and produces log records for 10 services. The application delivers data to an Amazon Kinesis Data Streams stream. Each record contains a log message with a service name, creation timestamp, and other log information. The stream has 15 shards in provisioned capacity mode. The stream uses service name as the partition key.

The developer notices that when all the services are producing logs,

ProvisionedThroughputExceededException errors occur during PutRecord requests. The stream metrics show that the write capacity the applications use is below the provisioned capacity.

Which solution will most effectively resolve the throttling issue?

- **A. Change the partition key from service name to creation timestamp.**
- B. Change the capacity mode from provisioned to on-demand.
- C. Use a separate Kinesis stream for each service to generate the logs.
- D. Double the number of shards until the throttling errors stop occurring.

Answer: A

Explanation:

Issue Analysis:

The stream uses service name as the partition key. This can cause "hot partition" issues when a few service names generate

significantly more logs compared to others, causing uneven distribution of data across shards.

Metrics show that the write capacity used is below provisioned capacity, which confirms that the throughput errors are due to shard-level limits and not overall capacity.

By changing the partition key to the creation timestamp (or a composite key including timestamp), the distribution of data across shards can be randomized, ensuring an even spread of records.

This resolves the shard overutilization issue and eliminates

ProvisionedThroughputExceededException.

NEW QUESTION # 77

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