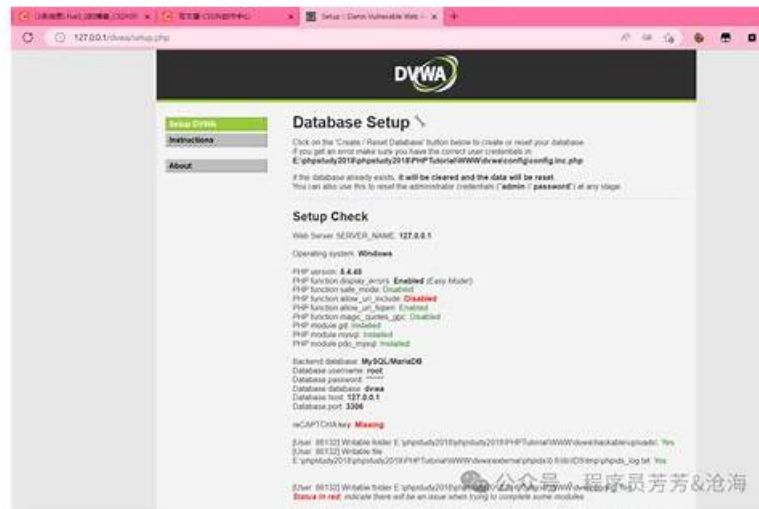


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Amazon AWS Certified Developer - Associate Sample Questions (Q66-Q71):

NEW QUESTION # 66

A developer needs to store files in an Amazon S3 bucket for a company's application. Each S3 object can have multiple versions. The objects must be permanently removed 1 year after object creation.

The developer creates an S3 bucket that has versioning enabled.

What should the developer do next to meet the data retention requirements?

- A. Create an event notification for all object removal events in the S3 bucket. Configure the event notification to invoke an

AWS Lambda function. Program the Lambda function to check the object creation date and to delete the object if the object is older than 1 year.

- B. Create an S3 Lifecycle rule on the S3 bucket. Configure the rule to expire current versions of objects and permanently delete noncurrent versions 1 year after object creation.
- C. Create an event notification for all object creation events in the S3 bucket. Configure the event notification to invoke an AWS Lambda function. Program the Lambda function to check the object creation date and to delete the object if the object is older than 1 year.
- D. Create an S3 Lifecycle rule on the S3 bucket. Configure the rule to delete expired object delete markers and permanently delete noncurrent versions 1 year after object creation.

Answer: B

NEW QUESTION # 67

A developer supports an application that accesses data in an Amazon DynamoDB table. One of the item attributes is expirationDate in the timestamp format. The application uses this attribute to find items, archive them, and remove them from the table based on the timestamp value. The application will be decommissioned soon, and the developer must find another way to implement this functionality. The developer needs a solution that will require the least amount of code to write.

Which solution will meet these requirements?

- A. Create two AWS Lambda functions one to delete the items and one to process the items. Create a DynamoDB stream. Use the DeleteItem API operation to delete the items based on the expirationDate attribute. Use the GetRecords API operation to get the items from the DynamoDB stream and process them.
- B. Enable TTL on the expirationDate attribute in the table. Create a DynamoDB stream. Create an AWS Lambda function to process the deleted items. Create a DynamoDB trigger for the Lambda function.
- C. Create two AWS Lambda functions, one to delete the items and one to process the items. Create an Amazon EventBridge scheduled rule to invoke the Lambda Functions. Use the DeleteItem API operation to delete the items based on the expirationDate attribute. Use the GetRecords API operation to get the items from the DynamoDB table and process them.
- D. Enable TTL on the expirationDate attribute in the table. Specify an Amazon Simple Queue Service (Amazon SQS) dead-letter queue as the target to delete the items. Create an AWS Lambda function to process the items.

Answer: B

Explanation:

* TTL for Automatic Deletion: DynamoDB's Time-to-Live effortlessly deletes expired items without manual intervention.

* DynamoDB Stream: Captures changes to the table, including deletions of expired items, triggering downstream actions.

* Lambda for Processing: A Lambda function connected to the stream provides custom logic for handling the deleted items.

* Code Efficiency: This solution leverages native DynamoDB features and stream-based processing, minimizing the need for custom code.

References:

DynamoDB TTL Documentation: <https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/TTL.html>

DynamoDB Streams Documentation: <https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Streams.html>

NEW QUESTION # 68

A developer is building a video search application. Video files average 2.5 TB in size. Files must have instant access for the first 90 days. After 90 days, files can take more than 10 minutes to load.

Which solution will meet these requirements in the MOST cost-effective way?

- A. Store files in Amazon EFS Standard, then transition to EFS Standard-IA.
- B. Store files in Amazon S3 Glacier Instant Retrieval for 90 days, then transition to S3 Glacier Flexible Retrieval.
- C. Store files in Amazon EBS for 90 days, then transition to S3 Glacier Deep Archive.
- D. Store files in Amazon S3 Glacier Deep Archive for 90 days, then transition to S3 Glacier Flexible Retrieval.

Answer: B

Explanation:

Amazon S3 Glacier storage classes are designed for cost-effective archival with varying retrieval times. S3 Glacier Instant Retrieval provides millisecond access, making it suitable for workloads that require immediate access but at a lower cost than S3 Standard.

For the first 90 days, instant access is required, which rules out S3 Glacier Deep Archive and S3 Glacier Flexible Retrieval as primary storage because they have minutes-to-hours retrieval times. After 90 days, the requirement allows retrieval times exceeding 10 minutes, making S3 Glacier Flexible Retrieval appropriate.

Option D uses Instant Retrieval initially and transitions to Flexible Retrieval, optimizing both performance and cost. EFS and EBS (Options A and C) are significantly more expensive for large objects and are not intended for massive archival workloads. Option B reverses the access requirements and is invalid.

AWS documentation explicitly recommends using S3 lifecycle policies to transition objects between Glacier storage classes based on access requirements.

Therefore, Option D is the most cost-effective and AWS-aligned solution.

NEW QUESTION # 69

A company is using AWS CloudFormation to deploy a two-tier application. The application will use Amazon RDS as its backend database. The company wants a solution that will randomly generate the database password during deployment. The solution also must automatically rotate the database password without requiring changes to the application.

What is the MOST operationally efficient solution that meets these requirements?

- A. Use an AWS Lambda function as a CloudFormation custom resource to generate and rotate the password.
- B. Use a cron daemon on the application's host to generate and rotate the password.
- C. Use an AWS Systems Manager Parameter Store resource with the SecureString data type to generate and rotate the password.
- **D. Use an AWS Secrets Manager resource to generate and rotate the password.**

Answer: D

Explanation:

https://docs.aws.amazon.com/secretsmanager/latest/userguide/cfn-example_RDSsecret.html

NEW QUESTION # 70

An application is processing clickstream data using Amazon Kinesis. The clickstream data feed into Kinesis experiences periodic spikes. The PutRecords API call occasionally fails and the logs show that the failed call returns the response shown below:

Which techniques will help mitigate this exception? (Choose two.)

- **A. Implement retries with exponential backoff.**
- B. Reduce the number of KCL consumers.
- C. Use Amazon SNS instead of Kinesis.
- **D. Reduce the frequency and/or size of the requests.**
- E. Use a PutRecord API instead of PutRecords.

Answer: A,D

Explanation:



ProvisionedThroughputExceededException: The request rate for the stream is too high, or the requested data is too large for the available throughput. Reduce the frequency or size of your requests.

https://docs.aws.amazon.com/kinesis/latest/APIReference/API_PutRecords.html

NEW QUESTION # 71

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