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## Amazon AWS Certified Developer - Associate Sample Questions (Q13-Q18):

### NEW QUESTION # 13

A company has an application that runs across multiple AWS Regions. The application is experiencing performance issues at irregular intervals. A developer must use AWS X-Ray to implement distributed tracing for the application to troubleshoot the root

cause of the performance issues.

What should the developer do to meet this requirement?

- A. Use Region annotation that X-Ray adds automatically for AWS services Add Region annotation for user-defined services
- B. Use Region annotation that X-Ray adds automatically for user-defined services Configure X-Ray to add Region annotation for AWS services
- C. Use the X-Ray daemon to add annotations for AWS services and user-defined services
- D. Use the X-Ray console to add annotations for AWS services and user-defined services

**Answer: A**

Explanation:

Explanation

AWS X-Ray automatically adds Region annotation for AWS services that are integrated with X-Ray. This annotation indicates the AWS Region where the service is running. The developer can use this annotation to filter and group traces by Region and identify any performance issues related to cross-Region calls. The developer can also add Region annotation for user-defined services by using the X-Ray SDK. This option enables the developer to implement distributed tracing for the application that runs across multiple AWS Regions. References

\* AWS X-Ray Annotations

\* AWS X-Ray Concepts

#### NEW QUESTION # 14

A developer uses AWS IAM Identity Center to interact with the AWS CLI and AWS SDKs on a local workstation. API calls to AWS services were working when the SSO access was first configured. However, the developer is now receiving Access Denied errors. The developer has not changed any configuration files or scripts that were previously working on the workstation. What is the MOST likely cause of the developer's access issue?

- A. The developer is attempting to make API calls to the incorrect AWS account.
- B. The credentials from the IAM Identity Center federated role have expired.
- C. The access permissions to the developer's AWS CLI binary file have changed.
- D. The permission set that is assumed by IAM Identity Center does not have the necessary permissions to complete the API call.

**Answer: B**

#### NEW QUESTION # 15

A development team maintains a web application by using a single AWS CloudFormation template. The template defines web servers and an Amazon RDS database. The team uses the Cloud Formation template to deploy the Cloud Formation stack to different environments.

During a recent application deployment, a developer caused the primary development database to be dropped and recreated. The result of this incident was a loss of data. The team needs to avoid accidental database deletion in the future.

Which solutions will meet these requirements? (Choose two.)

- A. Create a CloudFormation stack set for the web application and database deployments.
- B. Modify the database to use a Multi-AZ deployment.
- C. Update the CloudFormation stack policy to prevent updates to the database.
- D. Add a Cloud Formation DeletionPolicy attribute with the Retain value to the stack.
- E. Add a CloudFormation Deletion Policy attribute with the Retain value to the database resource.

**Answer: C,E**

Explanation:

AWS CloudFormation is a service that enables developers to model and provision AWS resources using templates. The developer can add a CloudFormation Deletion Policy attribute with the Retain value to the database resource. This will prevent the database from being deleted when the stack is deleted or updated. The developer can also update the CloudFormation stack policy to prevent updates to the database. This will prevent accidental changes to the database configuration or properties.

#### NEW QUESTION # 16

A developer is receiving an intermittent `ProvisionedThroughputExceededException` error from an application that is based on Amazon DynamoDB. According to the Amazon CloudWatch metrics for the table, the application is not exceeding the provisioned throughput. What could be the cause of the issue?

- A. The DynamoDB table storage size is larger than the provisioned size.
- B. The DynamoDB table is exceeding the provisioned scaling operations.
- **C. The application is exceeding capacity on a particular hash key.**
- D. The application is exceeding capacity on a particular sort key.

**Answer: C**

Explanation:

DynamoDB distributes throughput across partitions based on the hash key. A hot partition (caused by high usage of a specific hash key) can result in a `ProvisionedThroughputExceededException`, even if overall usage is below the provisioned capacity.

Why Option B is Correct:

Partition-Level Limits: Each partition has a limit of 3,000 read capacity units or 1,000 write capacity units per second.

Hot Partition: Excessive use of a single hash key can overwhelm its partition.

Why Not Other Options:

Option A: DynamoDB storage size does not affect throughput.

Option C: Provisioned scaling operations are unrelated to throughput errors.

Option D: Sort keys do not impact partition-level throughput.

Reference:

DynamoDB Partition Key Design Best Practices

#### NEW QUESTION # 17

A developer maintains a serverless application that uses AWS Lambda to process financial transaction files uploaded to an Amazon S3 bucket. A Lambda function is scheduled to run once per hour to process the files.

As file uploads increase, the Lambda function occasionally exceeds the 15-minute execution limit. The developer must handle higher file volumes, reduce processing time, and prevent duplicate file processing.

Which solution will meet these requirements?

- A. Use Amazon EventBridge Scheduler to run the Lambda function every 5 minutes to scan the S3 bucket.
- **B. Configure Amazon S3 event notifications to invoke the Lambda function for each uploaded file. Track processed file identifiers in Amazon DynamoDB.**
- C. Continuously poll the S3 bucket from Lambda and rely on each object's LastModified timestamp.
- D. Move the application logic to a single Amazon EC2 instance to process files more efficiently.

**Answer: B**

Explanation:

AWS Lambda has a maximum execution time of 15 minutes, which makes batch-style processing unsuitable as workloads scale.

AWS best practices recommend using event-driven architectures to process individual objects independently and in parallel.

Amazon S3 event notifications invoke Lambda automatically whenever a new object is uploaded. This allows each file to be processed in its own execution, eliminating long-running batch jobs and enabling horizontal scaling. AWS Lambda automatically scales concurrency based on event volume, ensuring faster processing as uploads increase.

To prevent duplicate processing, AWS documentation recommends using an idempotency mechanism.

Storing processed file identifiers or transaction IDs in Amazon DynamoDB provides a highly available, low-latency way to track processed files. DynamoDB's conditional writes can enforce exactly-once processing semantics.

Options B, C, and D either increase operational overhead, reintroduce batching issues, or rely on unreliable polling mechanisms that can miss or reprocess files.

Thus, using S3 events with DynamoDB tracking is the correct and scalable solution.

#### NEW QUESTION # 18

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