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QUESTION 1

A Database Specialist is creating Amazon DynamoDB tables, Amazon CloudWatch alarms, and associated infrastructure for an Application team using a development AWS account.

The team wants a deployment method that will standardize the core solution components while managing environment-specific settings separately, and wants to minimize rework due to configuration errors.

Which process should the Database Specialist recommend to meet these requirements?

- A. Organize common and environmental-specific parameters hierarchically in the AWS Systems Manager Parameter Store, then reference the parameters dynamically from an AWS CloudFormation template. Deploy the CloudFormation stack using the environment name as a parameter.
- B. Create a parameterized AWS CloudFormation template that builds the required objects. Keep separate environment parameter files in separate Amazon S3 buckets. Provide an AWS CLI command that deploys the CloudFormation stack directly referencing the appropriate parameter bucket.
- C. Create a parameterized AWS CloudFormation template that builds the required objects. Import the template into the CloudFormation interface in the AWS Management Console. Make the required changes to the parameters and deploy the CloudFormation stack.
- D. Create an AWS Lambda function that builds the required objects using an AWS SDK. Set the required parameter values in a test event in the Lambda console for each environment that the Application team can modify, as needed. Deploy the infrastructure by triggering the test event in the console.

Correct Answer: A

<https://aws.amazon.com/blogs/mt/integrating-aws-cloudformation-with-aws-systems-manager-parameter-store/>

QUESTION 2

A company is due for renewing its database license. The company wants to migrate its 80 TB transactional database system from on-premises to the AWS Cloud. The migration should incur the least possible downtime on the downstream database applications. The company's network infrastructure has limited network bandwidth that is shared with other applications.

Which solution should a database specialist use for a timely migration?

- A. Perform a full backup of the source database to AWS Snowball Edge appliances and ship them to be loaded to Amazon S3. Use AWS DMS to migrate change data capture (CDC) data from the source database to Amazon S3. Use a second AWS DMS task to migrate all the S3 data to the target database.
- B. Perform a full backup of the source database to AWS Snowball Edge appliances and ship them to be loaded to Amazon S3. Periodically perform incremental backups of the source database to be shipped in another Snowball Edge appliance to handle syncing change data capture (CDC) data from the source to the target database.
- C. Use AWS DMS to migrate the full load of the source database over a VPN tunnel using the internet for its primary connection. Allow AWS DMS to handle syncing change data capture (CDC) data from the source to the target database.
- D. Use the AWS Schema Conversion Tool (AWS SCT) to migrate the full load of the source database over a VPN tunnel using the internet for its primary connection. Allow AWS SCT to handle syncing change data capture (CDC) data



from the source to the target database.

Correct Answer: A

Explanation: https://docs.aws.amazon.com/dms/latest/userguide/CHAP_Target.S3.html Using Amazon S3 as a target for AWS Database Migration Service

QUESTION 3

A database specialist needs to replace the encryption key for an Amazon RDS DB instance. The database specialist needs to take immediate action to ensure security of the database.

Which solution will meet these requirements?

- A. Modify the DB instance to update the encryption key. Perform this update immediately without waiting for the next scheduled maintenance window.
- B. Export the database to an Amazon S3 bucket. Import the data to an existing DB instance by using the export file. Specify a new encryption key during the import process.
- C. Create a manual snapshot of the DB instance. Create an encrypted copy of the snapshot by using a new encryption key. Create a new DB instance from the encrypted snapshot.
- D. Create a manual snapshot of the DB instance. Restore the snapshot to a new DB instance. Specify a new encryption key during the restoration process.

Correct Answer: D

QUESTION 4

A company plans to migrate a MySQL-based application from an on-premises environment to AWS. The application performs database joins across several tables and uses indexes for faster query response times. The company needs the database to be highly available with automatic failover.

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

- A. Deploy an Amazon RDS DB instance with a read replica.
- B. Deploy an Amazon RDS Multi-AZ DB instance.
- C. Deploy Amazon DynamoDB global tables.
- D. Deploy multiple Amazon RDS DB instances. Use Amazon Route 53 DNS with failover health checks configured.

Correct Answer: B

QUESTION 5

A vehicle insurance company needs to choose a highly available database to track vehicle owners and their insurance details. The persisted data should be immutable in the database, including the complete and sequenced history of changes over time with all the owners and insurance transfer details for a vehicle.



The data should be easily verifiable for the data lineage of an insurance claim.

Which approach meets these requirements with MINIMAL effort?

- A. Create a blockchain to store the insurance details. Validate the data using a hash function to verify the data lineage of an insurance claim.
- B. Create an Amazon DynamoDB table to store the insurance details. Validate the data using AWS DMS validation by moving the data to Amazon S3 to verify the data lineage of an insurance claim.
- C. Create an Amazon QLDB ledger to store the insurance details. Validate the data by choosing the ledger name in the digest request to verify the data lineage of an insurance claim.
- D. Create an Amazon Aurora database to store the insurance details. Validate the data using AWS DMS validation by moving the data to Amazon S3 to verify the data lineage of an insurance claim.

Correct Answer: C

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