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QUESTION 1

A company implements a containerized application by using Amazon Elastic Container Service (Amazon ECS) and Amazon API Gateway. The application data is stored in Amazon Aurora databases and Amazon DynamoDB databases. The company automates infrastructure provisioning by using AWS CloudFormalion. The company automates application deployment by using AWS CodePipeline.

A solutions architect needs to implement a disaster recovery (DR) strategy that meets an RPO of 2 hours and an RTO of 4 hours.

Which solution will meet these requirements MOST cost-effectively?

A. Set up an Aurora global database and DynamoDB global tables to replicate the databases to a secondary AWS Region. In the primary Region and in the secondary Region, configure an API Gateway API with a Regional endpoint. Implement Amazon CloudFront with origin failover to route traffic to the secondary Region during a DR scenario.

B. Use AWS Database Migration Service (AWS DMS). Amazon EventBridge (Amazon CloudWatch Events), and AWS Lambda to replicate the Aurora databases to a secondary AWS Region. Use DynamoDB Streams. EventBridge (CloudWatch Events), and Lambda to replicate the DynamoDB databases to the secondary Region. In the primary Region and In the secondary Region, configure an API Gateway API with a Regional endpoint. Implement Amazon Route 53 failover routing to switch traffic from the primary Region to the secondary Region.

C. Use AWS Backup to create backups of the Aurora databases and the DynamoDB databases in a secondary AWS Region. In the primary Region and in the secondary Region, configure an API Gateway API with a Regional endpoint. Implement Amazon Route 53 failover routing to switch traffic from the primary Region to the secondary Region

D. Set up an Aurora global database and DynamoDB global tables to replicate the databases to a secondary AWS Region. In the primary Region and in the secondary Region, configure an API Gateway API with a Regional endpoint. Implement Amazon Route 53 failover routing to switch traffic from the primary Region to the secondary Region.

Correct Answer: C

https://aws.amazon.com/blogs/database/cost-effective-disaster-recovery-for-amazon-aurora-databases-using-aws-backup/

QUESTION 2

A company uses Amazon S3 to store files and images in a variety of storage classes. The company\\'s S3 costs have increased substantially during the past year.

A solutions architect needs to review data trends for the past 12 months and identity the appropriate storage class for the objects.

Which solution will meet these requirements?

A. Download AWS Cost and Usage Reports for the last 12 months of S3 usage. Review AWS Trusted Advisor recommendations for cost savings.

B. Use S3 storage class analysis. Import data trends into an Amazon QuickSight dashboard to analyze storage trends.

C. Use Amazon S3 Storage Lens. Upgrade the default dashboard to include advanced metrics for storage trends.

D. Use Access Analyzer for S3. Download the Access Analyzer for S3 report for the last 12 months. Import the csvfile to

an Amazon QuickSight dashboard.

Correct Answer: C

Storage class: After you configure a filter, you\\'ll start seeing data analysis based on the filter in the Amazon S3 console in 24 to 48 hours. However, storage class analysis observes the access patterns of a filtered data set for 30 days or longer to gather information for analysis before giving a result

Storage Lens: All S3 Storage Lens metrics are retained for a period of 15 months. However, metrics are only available for queries for a specific duration, which depends on your metrics selection. This duration can\\'t be modified. Free metrics are available for queries for a 14-day period, and advanced metrics are available for queries for a 15-month period.

You have to upgrade regardless to query up to 12 months

QUESTION 3

A company is running a compute workload by using Amazon EC2 Spot Instances that are in an Auto Scaling group. The launch template uses two placement groups and a single instance type.

Recently, a monitoring system reported Auto Scaling instance launch failures that correlated with longer wait times for system users. The company needs to improve the overall reliability of the workload.

Which solution will meet this requirement?

A. Replace the launch template with a launch configuration to use an Auto Scaling group that uses attribute-based instance type selection.

B. Create a new launch template version that uses attribute-based instance type selection. Configure the Auto Scaling group to use the new launch template version.

C. Update the launch template Auto Scaling group to increase the number of placement groups.

D. Update the launch template to use a larger instance type.

Correct Answer: B

launch config is replaced by launch template hence is not advisible, option A rulled out. C is wrong because launch template cannot be updated. D is also wrong for the same reason

QUESTION 4

A company is planning to migrate an Amazon RDS for Oracle database to an RDS for PostgreSQL DB instance in another AWS account A solutions architect needs to design a migration strategy that will require no downtime and that will minimize the amount of time necessary to complete the migration The migration strategy must replicate all existing data and any new data that is created during the migration The target database must be identical to the source database at completion of the migration process

All applications currently use an Amazon Route 53 CNAME record as their endpoint for communication with the RDS for Oracle DB instance The RDS for Oracle DB instance is in a private subnet

Which combination of steps should the solutions architect take to meet these requirements? (Select THREE)

A. Create a new RDS for PostgreSQL DB instance in the target account Use the AWS Schema Conversion Tool (AWS SCT) to migrate the database schema from the source database to the target database.

B. Use the AWS Schema Conversion Tool (AWS SCT) to create a new RDS for PostgreSQL DB instance in the target account with the schema and initial data from the source database

C. Configure VPC peering between the VPCs in the two AWS accounts to provide connectivity to both DB instances from the target account. Configure the security groups that are attached to each DB instance to allow traffic on the database port from the VPC in the target account

D. Temporarily allow the source DB instance to be publicly accessible to provide connectivity from the VPC in the target account Configure the security groups that are attached to each DB instance to allow traffic on the database port from the VPC in the target account.

E. Use AWS Database Migration Service (AWS DMS) in the target account to perform a full load plus change data capture (CDC) migration from the source database to the target database When the migration is complete, change the CNAME record to point to the target DB instance endpoint

F. Use AWS Database Migration Service (AWS DMS) in the target account to perform a change data capture (CDC) migration from the source database to the target database When the migration is complete change the CNAME record to point to the target DB instance endpoint

Correct Answer: ACE

QUESTION 5

A financial services company sells its software-as-a-service (SaaS) platform for application compliance to large global banks. The SaaS platform runs on AWS and uses multiple AWS accounts that are managed in an organization in AWS Organizations. The SaaS platform uses many AWS resources globally.

For regulatory compliance, all API calls to AWS resources must be audited, tracked for changes, and stored in a durable and secure data store.

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

A. Create a new AWS CloudTrail trail. Use an existing Amazon S3 bucket in the organization\\\'s management account to store the logs. Deploy the trail to all AWS Regions. Enable MFA delete and encryption on the S3 bucket.

B. Create a new AWS CloudTrail trail in each member account of the organization. Create new Amazon S3 buckets to store the logs. Deploy the trail to all AWS Regions. Enable MFA delete and encryption on the S3 buckets.

C. Create a new AWS CloudTrail trail in the organization\\\'s management account. Create a new Amazon S3 bucket with versioning turned on to store the logs. Deploy the trail for all accounts in the organization. Enable MFA delete and encryption on the S3 bucket.

D. Create a new AWS CloudTrail trail in the organization\\\'s management account. Create a new Amazon S3 bucket to store the logs. Configure Amazon Simple Notification Service (Amazon SNS) to send log-file delivery notifications to an external management system that will track the logs. Enable MFA delete and encryption on the S3 bucket.

Correct Answer: C

The correct answer is C. This option uses AWS CloudTrail to create a trail in the organization\\\'s management account that applies to all accounts in the organization. This way, the company can centrally manage and audit all API calls to AWS resources across multiple accounts and regions. The company also needs to create a new Amazon S3 bucket with versioning turned on to store the logs. Versioning helps protect against accidental or malicious deletion of log files

by keeping multiple versions of each object in the bucket. The company also needs to enable MFA delete and encryption on the S3 bucket to further enhance the security and durability of the data store. Option A is incorrect because it uses an existing S3 bucket in the organization\\\'s management account to store the logs. This may not be optimal for regulatory compliance, as the existing bucket may have different permissions, encryption settings, or lifecycle policies than a dedicated bucket for CloudTrail logs. Option B is incorrect because it requires creating a new CloudTrail trail in each member account of the organization. This adds operational overhead and complexity, as the company would need to manage multiple trails and S3 buckets across multiple accounts and regions. Option D is incorrect because it requires configuring Amazon SNS to send log-file delivery notifications to an external management system that will track the logs. This adds unnecessary complexity and cost, as CloudTrail already provides log-file integrity validation and log-file digest delivery features that can help verify the authenticity and integrity of log files. Reference: Creating a Trail for an Organization

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