Assignment 6

1. what is replication rule?

Replication rules define the source bucket objects to replicate and the destination bucket or buckets where the replicated objects are stored.

1. what is Same Region Replication? Explain

Same-Region Replication (SRR) is used to copy objects across Amazon S3 buckets in the same AWS Region. SRR can help you do the following: Aggregate logs into a single bucket – If you store logs in multiple buckets or across multiple accounts, you can easily replicate logs into a single, in-Region bucket.

1. what is Cross Region Replication? Explain

Cross-region replication, every object uploaded to an S3 bucket is automatically replicated to a destination bucket in a different AWS region that you choose. For example, you can use cross-region replication to provide lower-latency data access in different geographic regions.

1. Explain S3 storage classes? Explain each of them

S3 storage classes are purpose-built to provide the lowest cost storage for different access patterns. S3 storage classes are ideal for virtually any use case, including those with demanding performance needs, data residency requirements, unknown or changing access patterns, or archival storage.

* S3 Standard: - General purpose storage for active, frequently accessed data and fast retrieval.
* S3 Intelligent-Tiering: - Auto-tiering for data with changing or unknown access patterns.
* S3 Standard-IA (Infrequent Access): - Infrequently accessed data that requires rapid retrieval
* S3 One Zone-IA: -Infrequently accessed data in a single availability zone for cost savings.
* S3 Glacier: - Long-term backups and data archives with retrieval options from 1 minute to 12 hours.
* S3 Glacier Deep Archive: -Long-term digital preservation for data that is accessed once or twice in a year.

1. what is lifecycle rule? explain steps to create lifecycle rule.

Lifecycle policies allow you to automatically review objects within your S3 Buckets and have them moved to Glacier or have the objects deleted from S3.

Steps to create Lifecycle Rule

1. Click on lifecycle policy.
2. Give a name for lifecycle rule.
3. Select the Storage Class type
4. Create rule