**Amazon S3 Lifecycle management:**

Lifecycle management in Amazon S3 helps automate actions on objects based on their age, optimizing storage and reducing costs. Here’s how it was set up for the specified bucket:

1. **Rule Scope**
   * The rule is applied to **all objects** in the bucket, covering both current and noncurrent versions.
2. **Lifecycle Rule Actions**
   * **Transition Noncurrent Versions of Objects Between Storage Classes**:
     + Moves noncurrent (previous) versions of objects to a more cost-effective storage class.
     + **Configuration**: Transitions noncurrent versions to **S3 Standard-IA** (Infrequent Access) after **30 days**.
     + **Retention**: Keeps the **two most recent versions** to manage storage efficiently while retaining some historical data.
   * **Permanently Delete Noncurrent Versions of Objects**:
     + Deletes old, noncurrent versions after a specified period to control costs.
     + **Configuration**: Permanently deletes noncurrent versions **after 1 day**, ensuring only recent versions remain.
   * **Delete Expired Object Delete Markers or Incomplete Multipart Uploads**:
     + **Delete Markers**: Removes expired delete markers in versioned buckets, which makes it easier to manage storage space and avoid clutter.
     + **Incomplete Multipart Uploads**: Deletes partially uploaded data that was not completed, helping to free up unused storage.

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