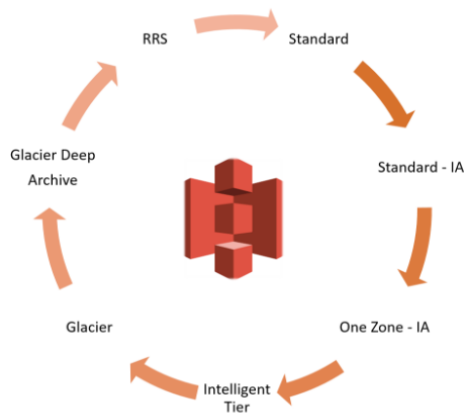# S3 Lifecycle Management

## Lifecycle Management Basics

Lifecycle policies can be used to define actions that you want Amazon S3 to take during an object's lifetime such as:

- Transition objects to another storage class,
- Archive objects,
- Delete objects after a specified period of time.

A lifecycle policy can be used for either all objects or a subset of objects in the bucket by using a shared prefix.

A versioning-enabled bucket may have different versions of the same object, one current version, and zero or more previous versions. You can define actions specific to current and previous object versions by using a lifecycle policy as well.

## Creating a Lifecycle Policy - Transition Configuration
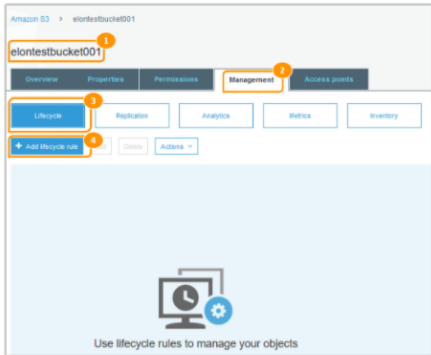
- Select the **name of the bucket** that you want to create a lifecycle policy for.
- Click **Management, Lifecycle, Add lifecycle rule** tabs respectively.
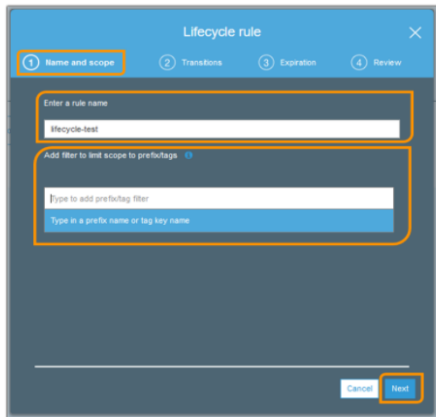
- Type a unique name (within the bucket) for your rule to help identify the rule later.
- To apply this lifecycle rule to all objects in the bucket, select **Next** tab.
- To apply this lifecycle rule to all objects with a specified name prefix (that is, objects with names that begin with a common string), type a prefix in the box, choose the prefix from the drop-down list and then press **Enter**.
- To apply this lifecycle rule to all objects with one or more object tags, type a tag in the box, choose the tag from the drop-down list, and then press **Enter**. Repeat the procedure to add another tag. You can combine a prefix and tags.
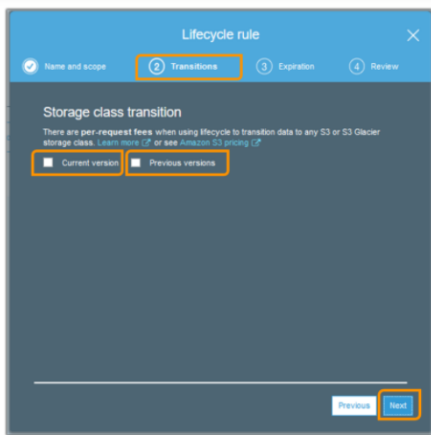

- Transitions can be defined for either current or previous object versions, or for both current and previous versions.
- Versioning enables you to keep multiple versions of an object in one bucket.
- Select the Current version, or Previous version, or both.
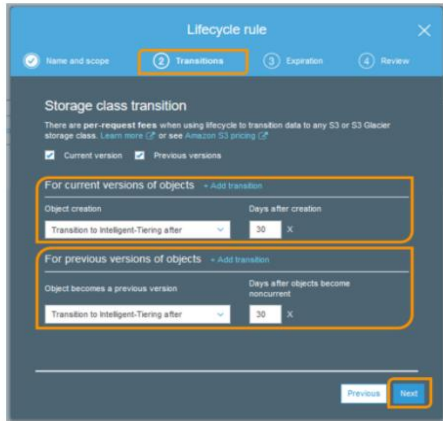
Choose **Add transitions** and specify one of the following transitions: For example;

- Choose **Transition to Intelligent Tier after**, and then type the number of days after the creation of an object that you want the transition to be applied (for example, 30 days).
- Click the **Next** tab.

Creating a Lifecycle Policy - Expiration
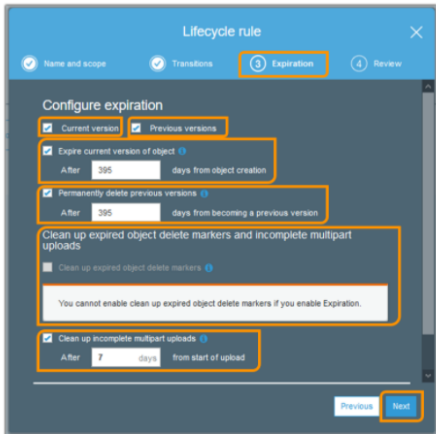
- Select **Current version** and **Previous versions**.
- Select **Expire current version of object**, and then enter the number of days after object creation to delete the object (for example, 395 days). If you select this expire option, you cannot select the option to clean up expired delete markers.
- Select **Permanently delete previous versions**, and then enter the number of days after an object becomes a previous version to permanently delete the object (for example, 465 days).
- It is a recommended best practice to always select **Clean up incomplete multipart uploads**. For example, type **7** for the number of days after the multipart upload initiation date that you want to end and clean up any multipart uploads that have not completed.
- Click the **Next** tab.

- **Review** to verify the settings for your rule and click the **Next** tab.