

# What is S3 versioning, how does it work—and how do you permanently delete a specific version?

#### ✓ Answer:

- Versioning keeps multiple versions of an object in the same bucket.
- If you update or delete an object, old versions are preserved, not overwritten or lost.

#### How would you permanently delete a specific version of an object?

#### ✓ Answer:

- You must delete using the object's Version ID specifically.
- Normal delete adds a **delete marker**, doesn't erase old versions.

## **Demo: S3 Versioning and Permanent Deletion**

### **♦ Step 1: Enable Versioning on a Bucket**

• AWS Console  $\rightarrow$  S3  $\rightarrow$  Select your bucket  $\rightarrow$  **Properties**  $\rightarrow$  **Bucket Versioning**  $\rightarrow$  Enable.

#### **♦ Step 2: Upload an Object Twice**

- Upload file.txt.
- Modify file.txt (change content) and **upload again with same name**.
- Now, S3 has **two versions** of file.txt.

(You can check: Object  $\rightarrow$  Versions tab  $\rightarrow$  see both versions.)

#### Step 3: Delete a Specific Version (Permanent Delete)

- Go to Versions tab.
- Select the specific version you want to delete.
- Click Actions  $\rightarrow$  Delete.
- Now that specific version is **permanently deleted**.

## **CLI Quick Commands**

```
bash
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# List versions
aws s3api list-object-versions --bucket your-bucket-name
# Permanently delete by Version ID
aws s3api delete-object --bucket your-bucket-name --key file.txt --version-id
VERSION_ID
```

# **Important Point:**

- Deleting without version ID just **creates a delete marker** (object looks deleted but old versions exist).
- Deleting with version ID removes a specific version permanently.

# What happens when you delete an object in a versioned S3 bucket without specifying a version ID?

- A. All versions are deleted permanently
- **B.** The object is moved to Glacier
- C. A delete marker is added
- **D.** The bucket is disabled
- Correct Answer: C. A delete marker is added

#### How can you permanently delete a specific version of an object in S3?

- **A.** By enabling MFA delete
- **B.** By emptying the bucket
- **C.** By deleting the delete marker
- **D.** By specifying the version ID while deleting

Correct Answer: D. By specifying the version ID while deleting

# After uploading two versions of file. txt in a version-enabled bucket, how can you see both versions?

- A. From the S3 object's Metadata tab
- **B.** By enabling Logging
- C. From the Versions tab of the object
- **D.** You cannot view past versions
- **✓ Correct Answer:** C. From the Versions tab of the object