



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.
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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.
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Demo: S3 Versioning and Permanent Deletion

◆ Step 1: Enable Versioning on a Bucket

- AWS Console → S3 → Select your bucket → **Properties** → **Bucket Versioning** → Enable.
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◆ 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 → Versions tab → 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** → **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**.
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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