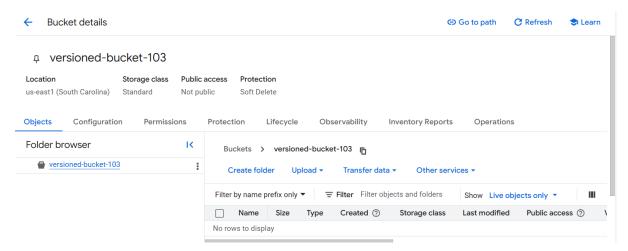
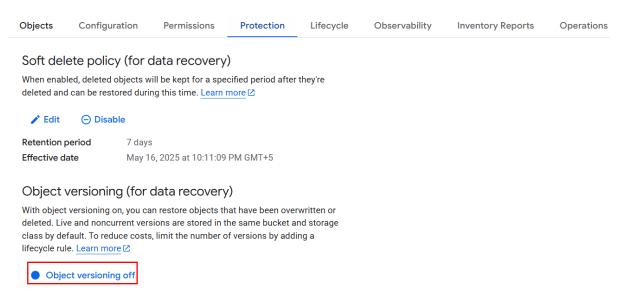
Enable Bucket Versioning and Restore Deleted Files

1. Create a new bucket with the default settings just give it a name and choose your region.



- 2. After creation, click the bucket \rightarrow Go to **Protection** \rightarrow Look for **Object Versioning**.
- 3. You can see that currently, Versioning is off. Click on it.



4. Leave it to the default setting, just click on confirm to turn on object versioning.

Turn on object versioning?

With object versioning on, live and noncurrent versions will be stored in the same bucket and storage class by default.

Save on version costs by adding lifecycle rules

Object lifecycle rules keep versioning costs under control. Without any lifecycle rules, versioning will be unlimited. Rules can be added or modified at any time. Learn more 🗷

Add recommended lifecycle rules to manage version costs

Cancel Confirm

5. Here you can see that object versioning is turned on now.

Object versioning (for data recovery)

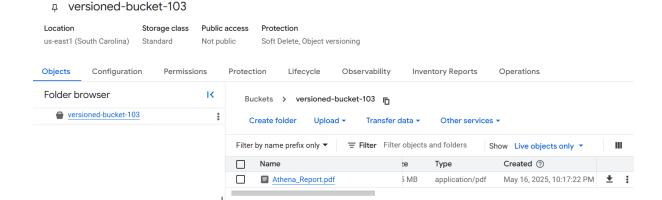
With object versioning on, you can restore objects that have been overwritten or deleted. Live and noncurrent versions are stored in the same bucket and storage class by default. To reduce costs, limit the number of versions by adding a lifecycle rule. Learn more 🗷



You have no lifecycle rules that apply to noncurrent versions

Manage rules

6. Now we need to upload a file here in our bucket. Here you can see that an object has been uploaded to our bucket.



- 7. Now we are going to upload another version of our file, which is nothing but the same file again, to our bucket.
- 8. Then it will ask you to resolve the object conflict, just choose the overwrite object and click on continue uploading.

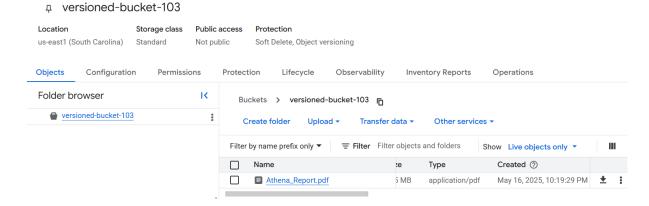
Resolve object conflict

Athena_Report.pdf already exists in versioned-bucket-103. How would you like to resolve this conflict?

- Overwrite object
- Exclude object from this upload
- Apply the same action to all remaining object conflicts

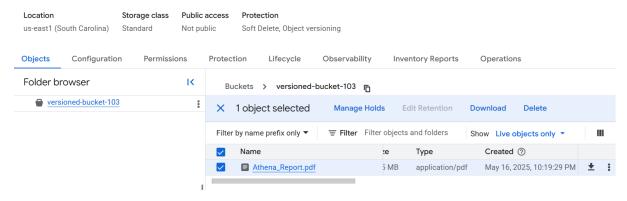
Cancel all uploads Continue Uploading

9. Here you can see that our file has been uploaded now.

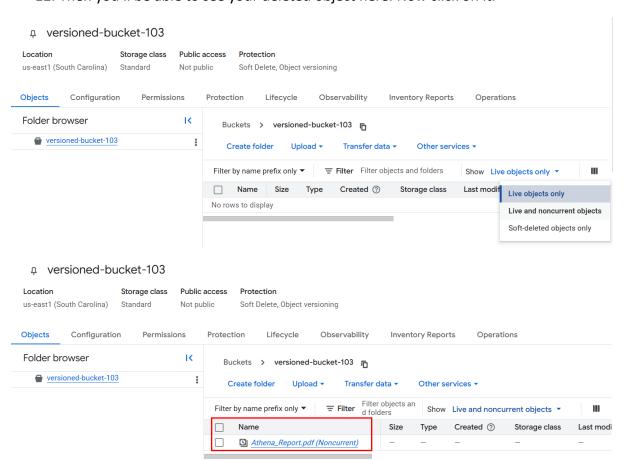


10. Now we are going to delete our file.





- 11. Here you can see that we have zero objects in our bucket, but if you change **Live object only** status to **Live and noncurrent objects**.
- 12. Then you'll be able to see your deleted object here. Now click on it.



13. Now you can also see the version of your object, you can also restore any version of your choice.



14. If we click on restore on any of the version of our choice then we can just restore it.

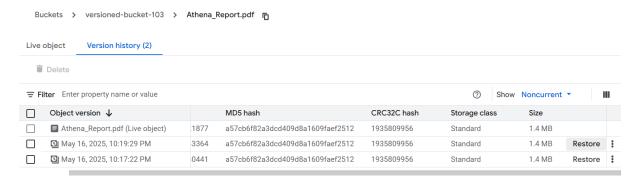
Restore this object version?

Confirm that you want this version to become the live version. If there's already a live version of this object, then this action will make the pre-existing live version noncurrent.

Version ID (Creation time)	May 16, 2025, 10:19:29 PM
Generation number	1747414169943364
Hash (MD5)	a57cb6f82a3dcd409d8a1609faef2512
Hash (CRC32C)	1935809956
Last modified	May 16, 2025, 10:19:29 PM
Storage class	Standard
Size	1.4 MB
Туре	application/pdf
Metageneration	1
Link for gsutil	gs://versioned-bucket- 103/Athena_Report.pdf#17474141699 43364

Cancel Confirm

15. Below, you can see that our object is live again.



16. Once your lab is done just delete your bucket.