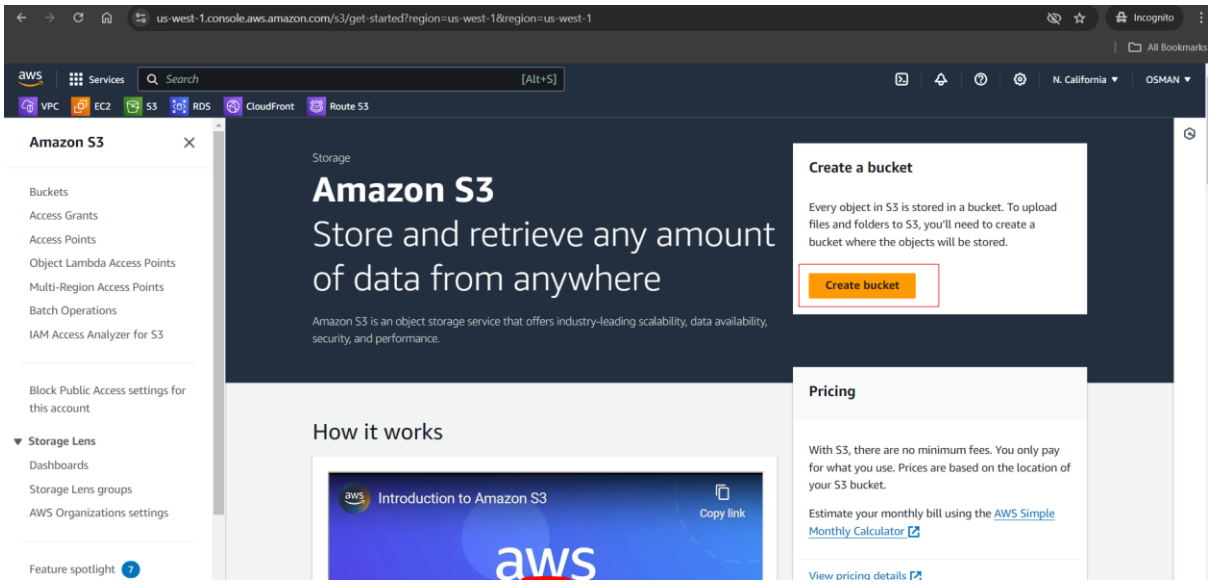
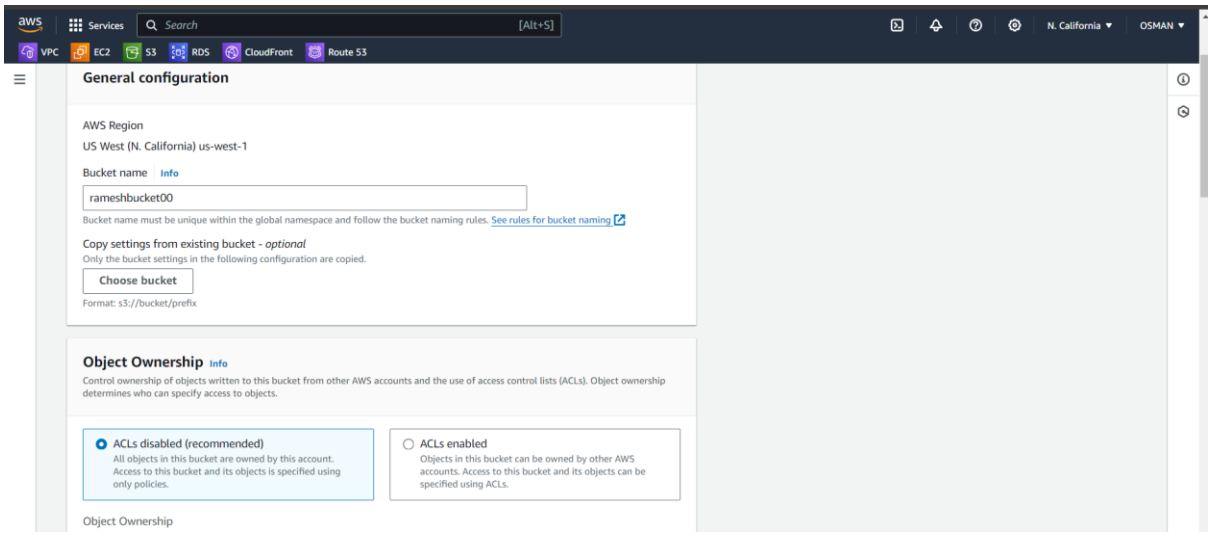
Task on s3:

==========

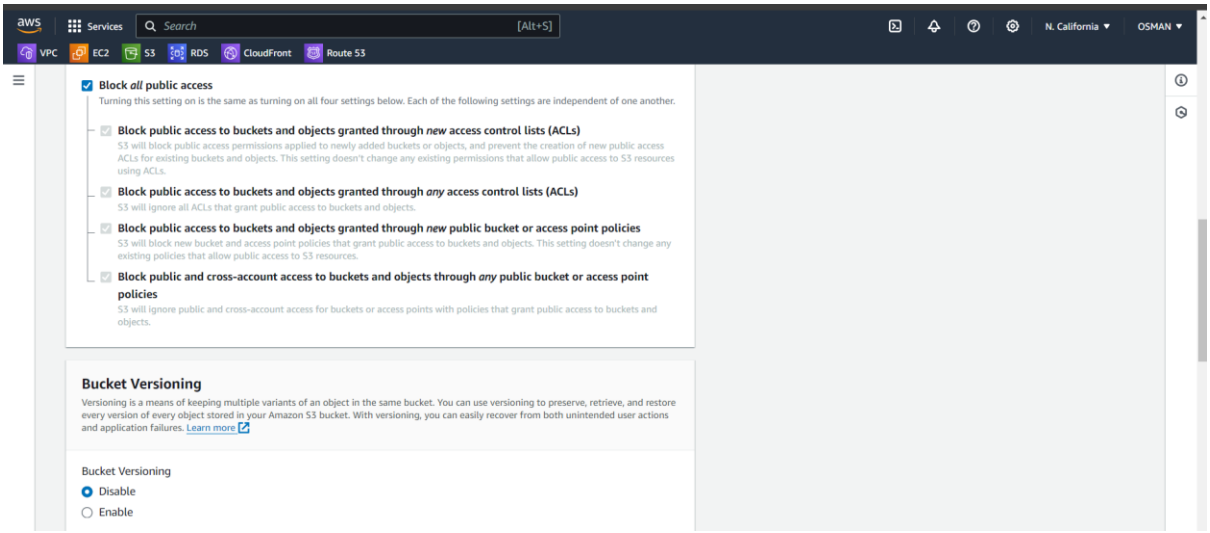
1) Create s3 bucket and upload some objects to s3.
    - GO to the AWS management console and search for s3.
    - You see the below interface.
    - Just click on the Create bucket.



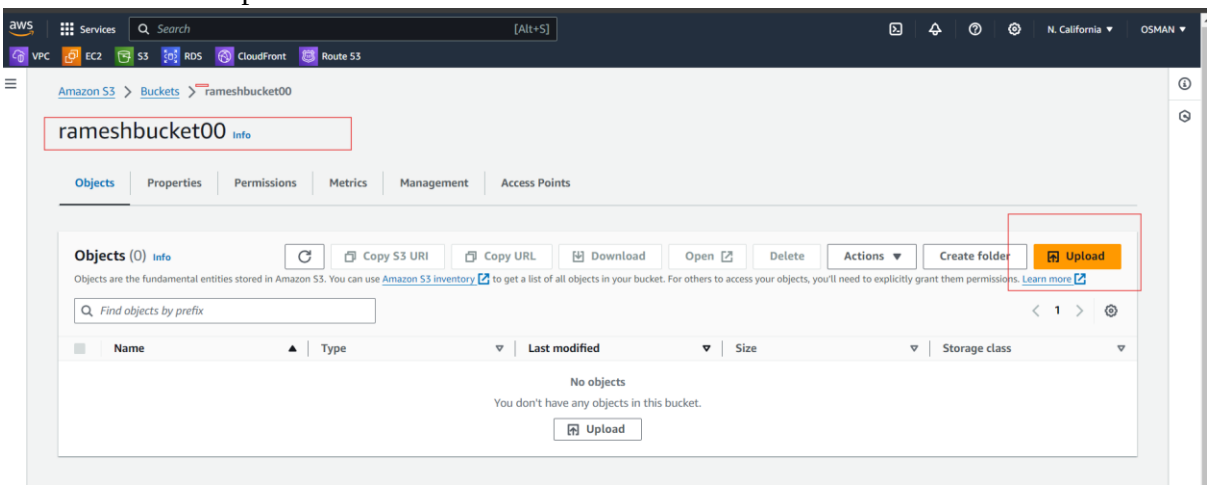

- Give name --→ Name must be unique.
- As per the Task I am not enabled ACLs.



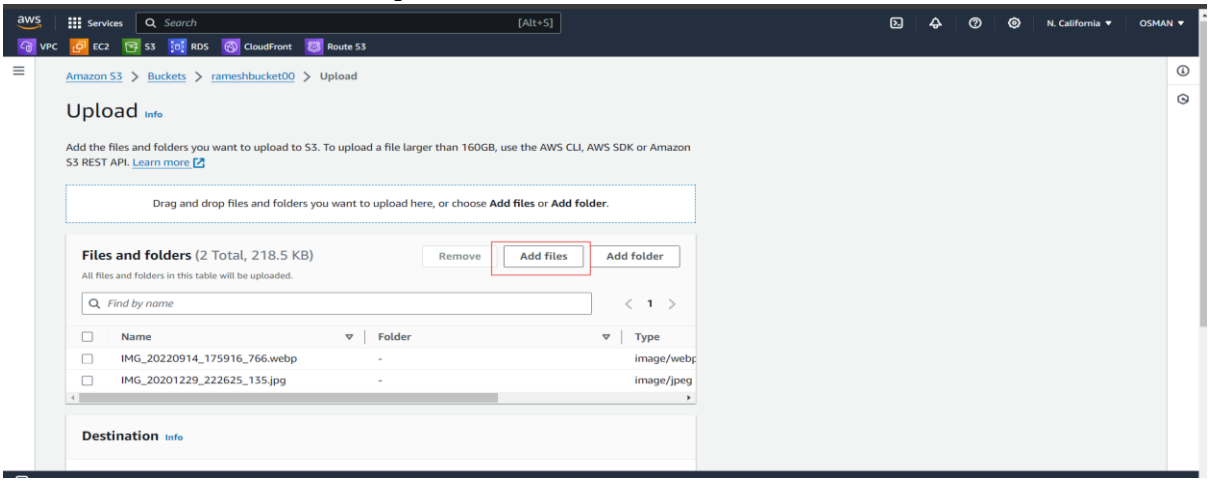
As per the Task I am leaving as it's.



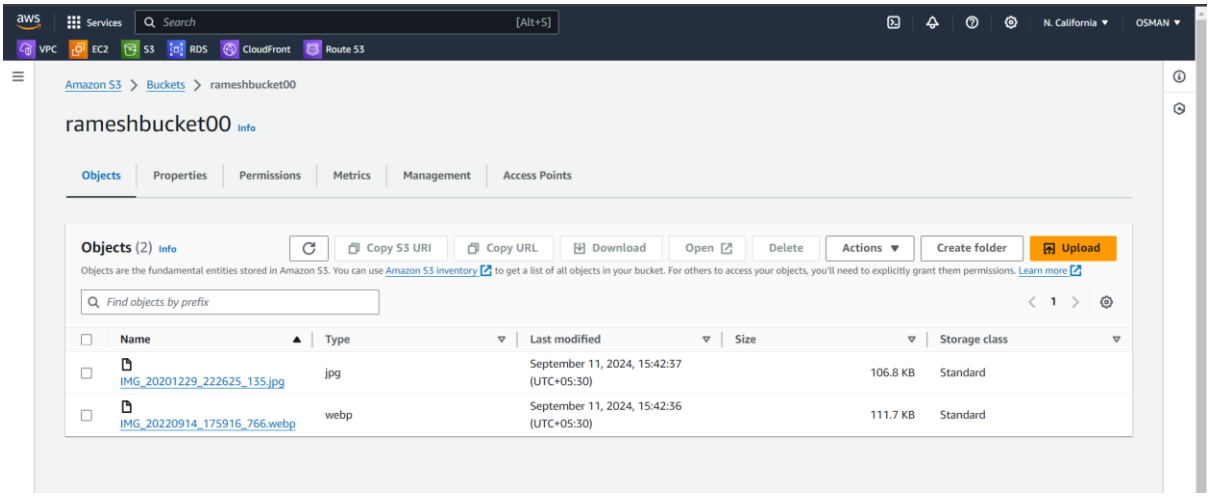

- After that just click on the create Bucket.
- I am in My bucket.
- Just click on the Upload button.




- You will see the below interface click on the Add file.
- The below I am uploaded the two images.
- Scroll down and click on the upload button.

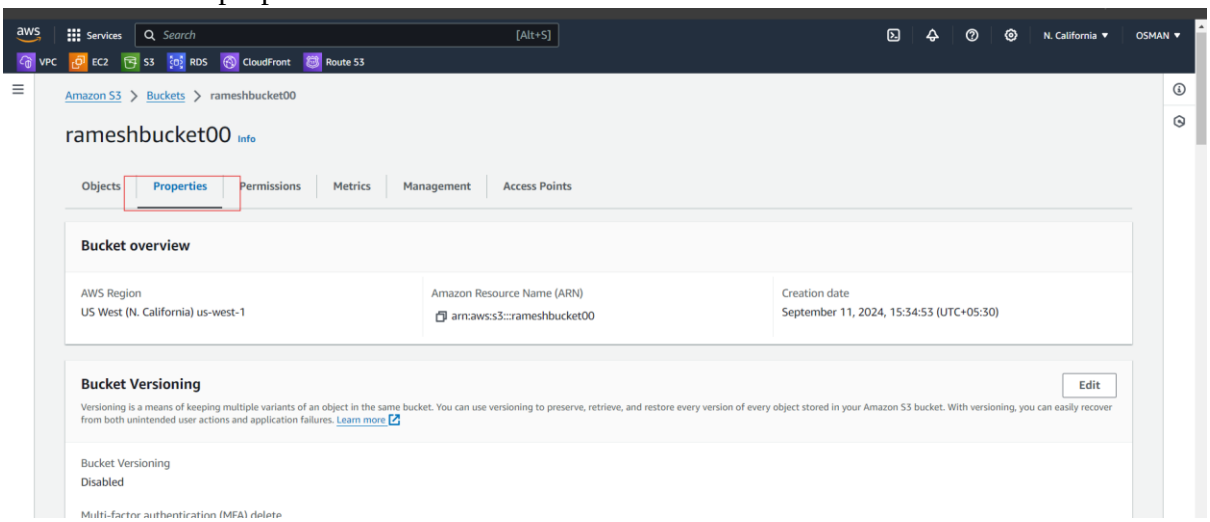


- Successfully I am uploaded two files in  Bucket.

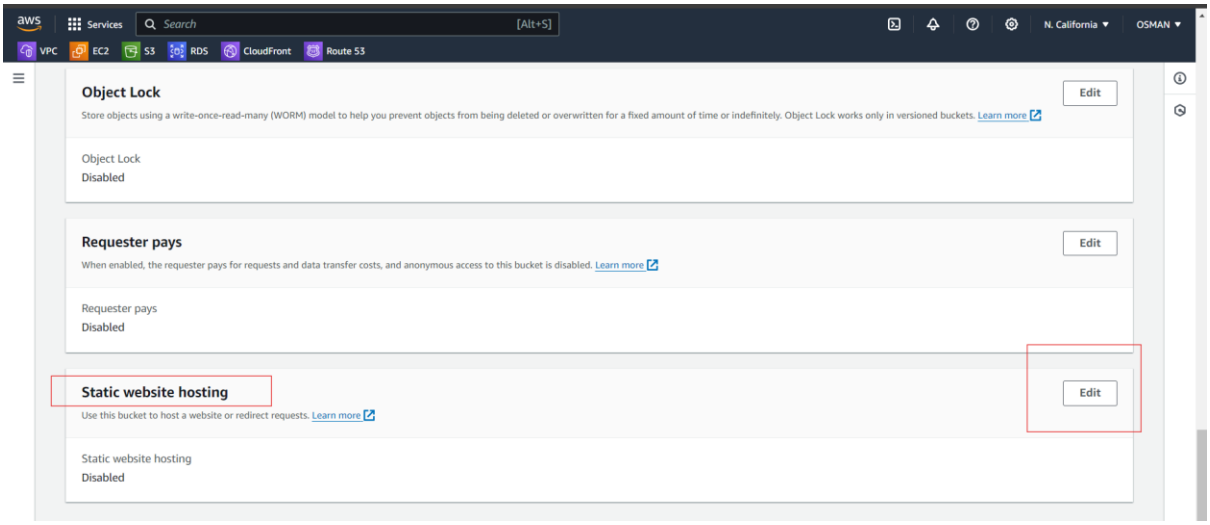



2) Deploy static website in s3 bucket.

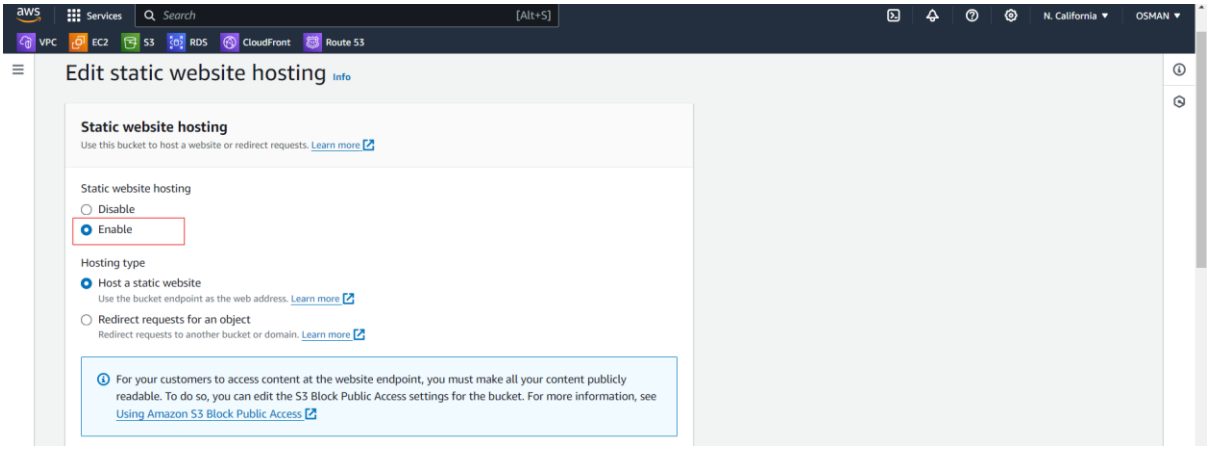
- Now here I am using the same bucket to deploy static website in s3.
- Just click on the properties.



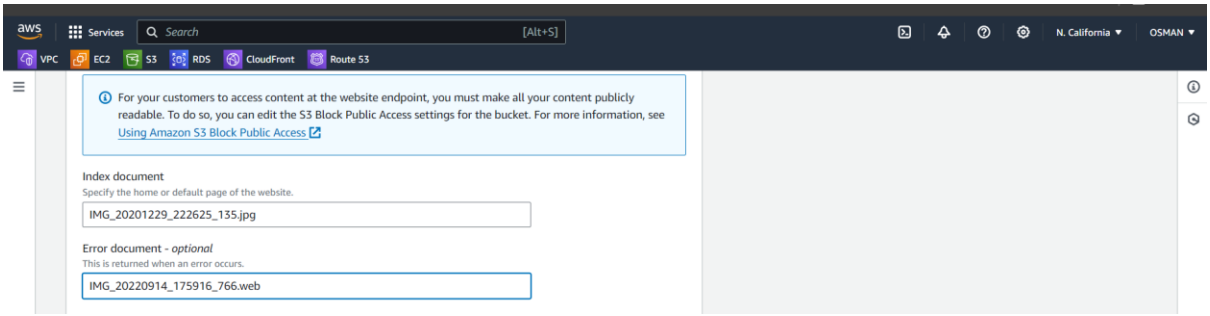

- In the last you will see the below interface.
- Just click on edit.



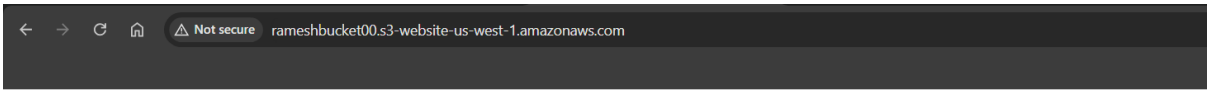
Click on the enble.




Here I am selecting the two images.




Now I am trying two access with static website hosting url but it will not work.
See this error.




**403 Forbidden**

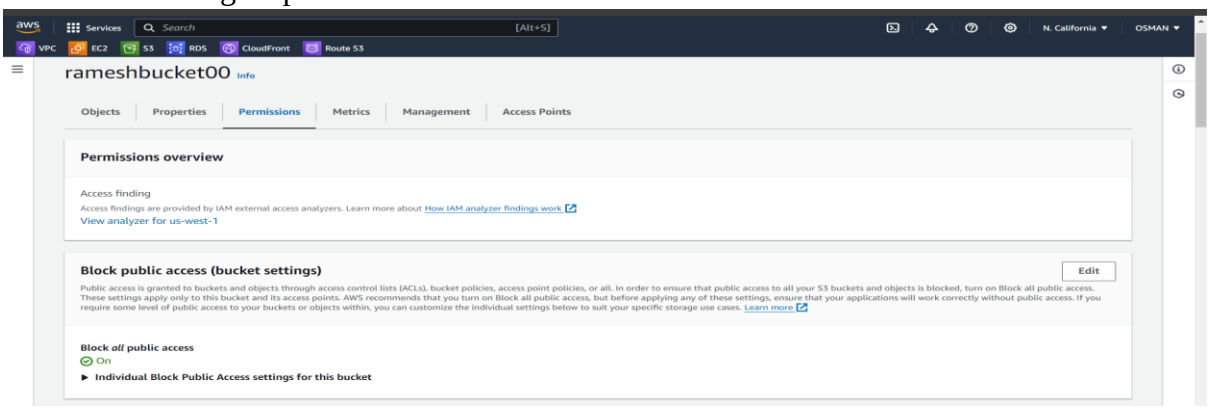
- Code: AccessDenied
- Message: Access Denied
- RequestId: 39Z49G8WC49QNGSY
- HostId: hFyRzdNrppdt48NDMS9hnfCANh2Qrtj6jcruKSBOznCLhUYDEU4bEXRAgUH8O8NnggHzpFTYIxw=

**An Error Occurred While Attempting to Retrieve a Custom Error Document**

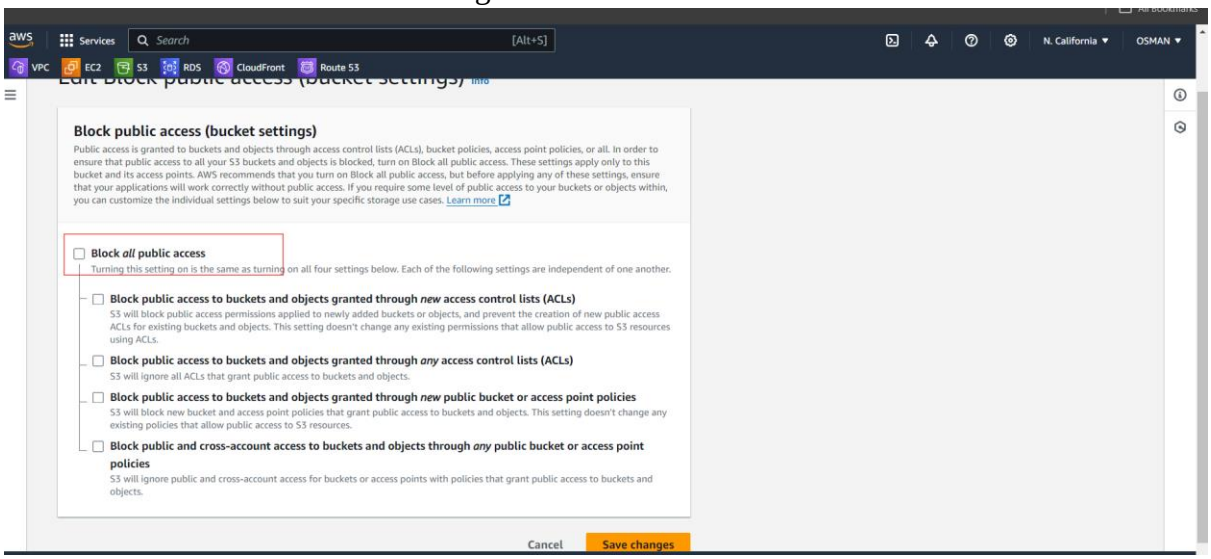
- Code: AccessDenied
- Message: Access Denied

---

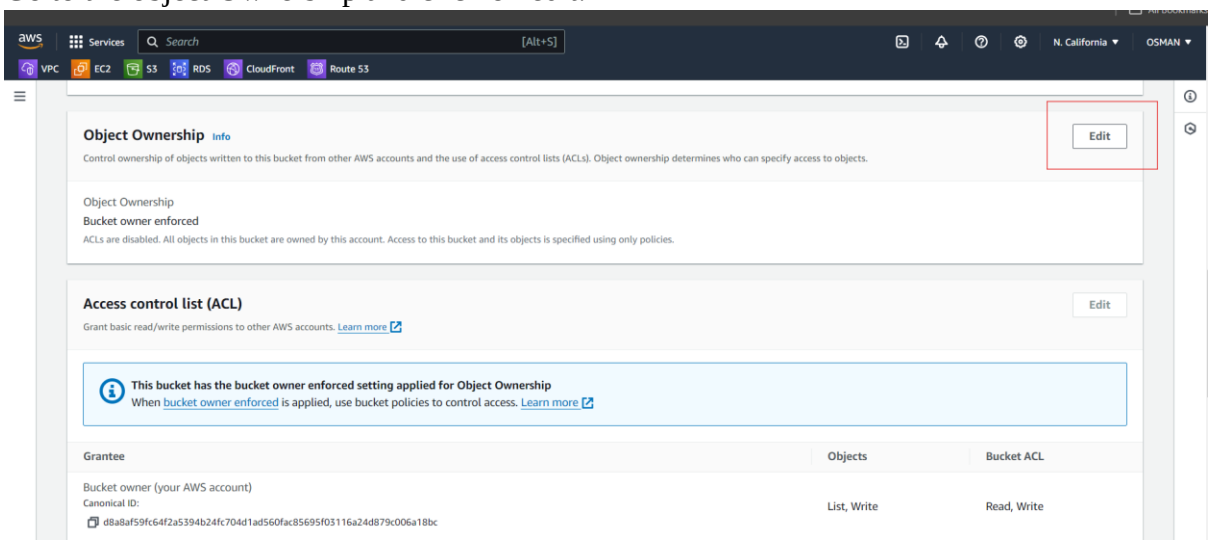
Now we have to give public access to bucket and enable ACLs.



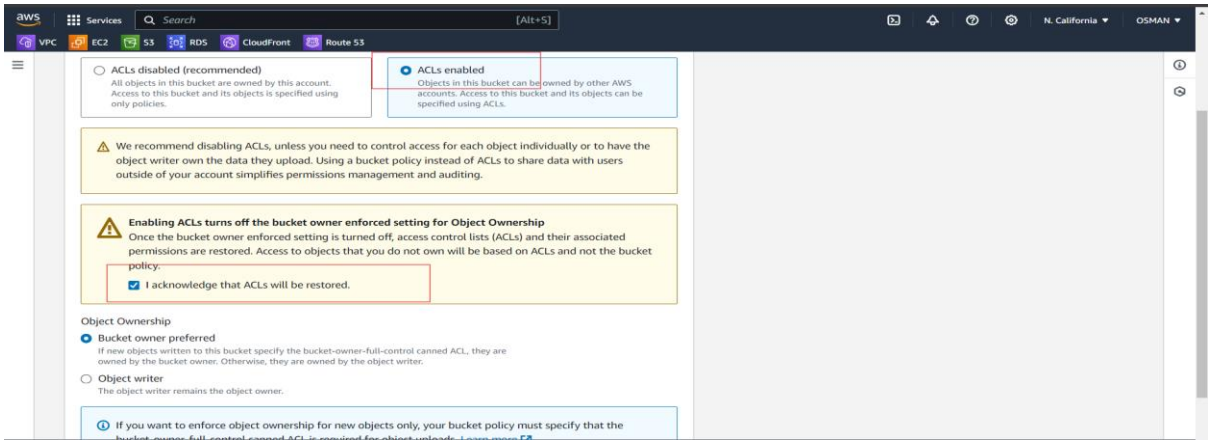
Just click on the edit ----- block public access (bucket setting)
Disable the check box and save changes.



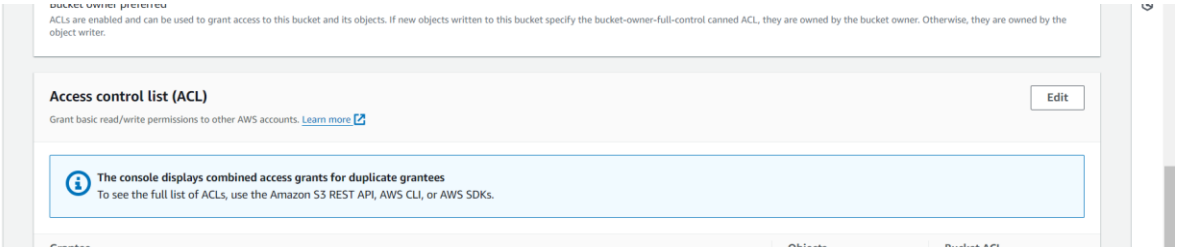

Scroll down.
Go to the object Ownership and click on edit.



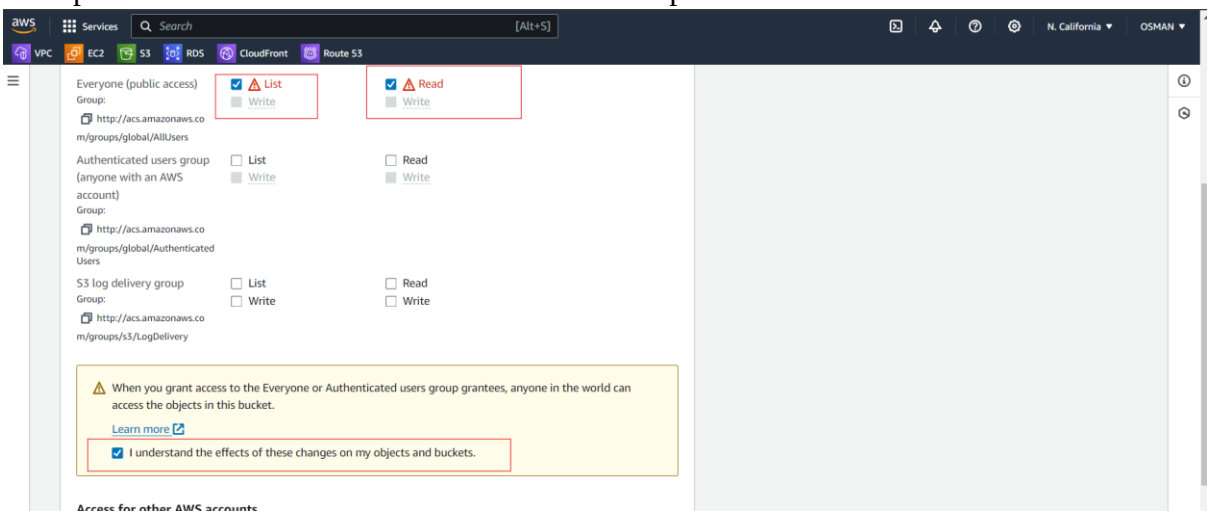

- You will see the below interface.
- Click on the ACLs enabled and click on check box---- I aknowledge…
- Click on save changes.



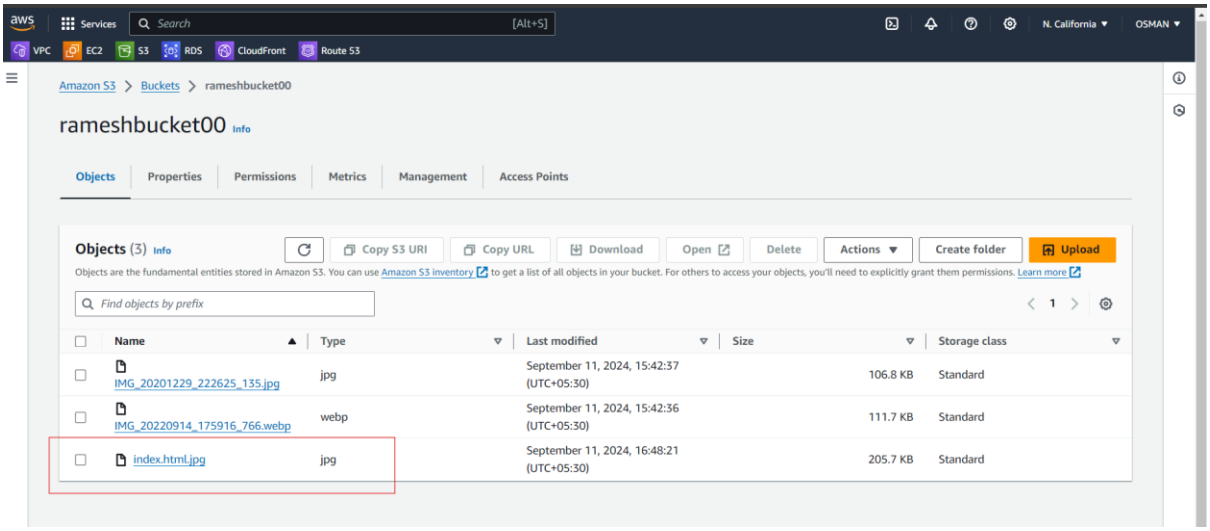
- Even now also not working.
- Now I want give the access control List
- Just click on edit.



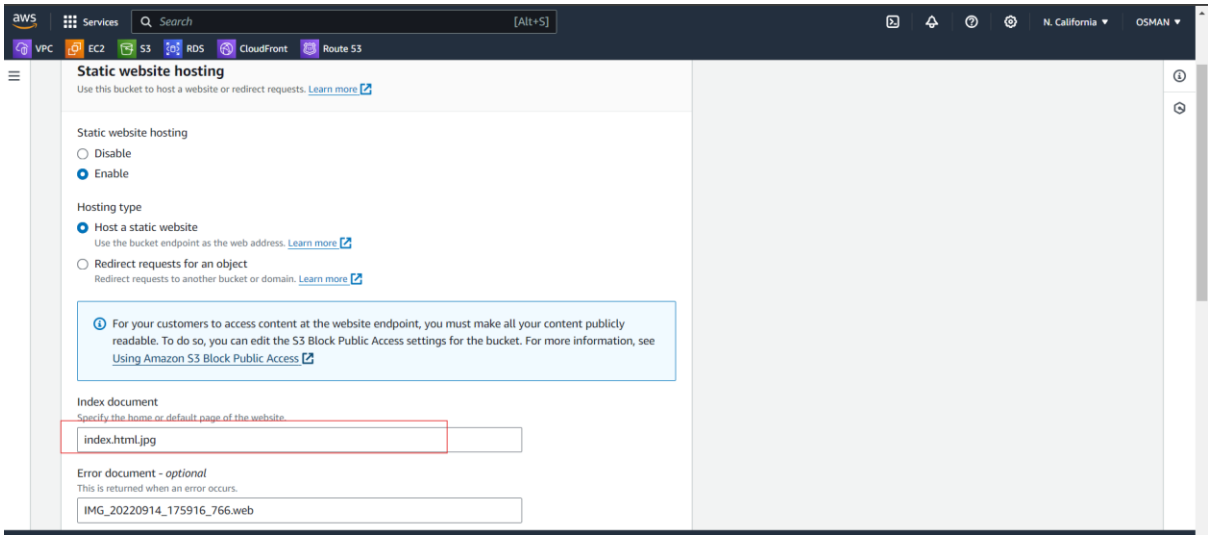

Give public access and click on the write and read options.



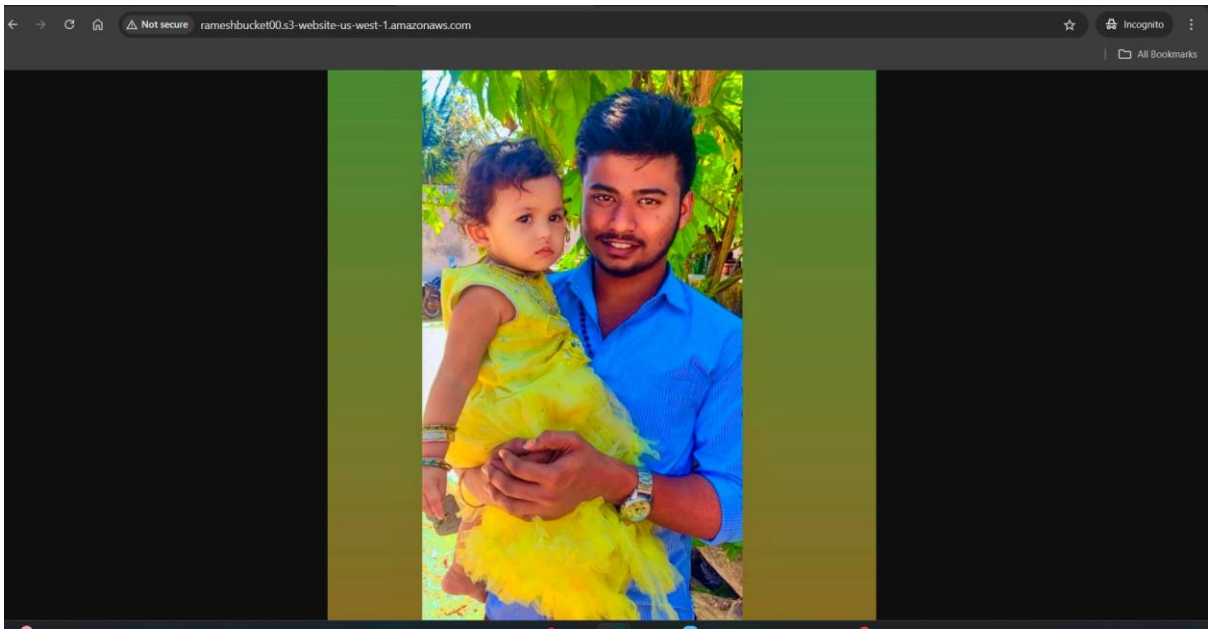

- Click on save changes.
- But now also I am not able to see my image.
- Because When hosting a static website on Amazon S3, the file named `index.html` is crucial because it serves as the default landing page for your website.
- Now I am give another image and but name is index.html.jpg



- Now I am went to static webhosting change the name index.html.jpg




- Now the image will be visible.



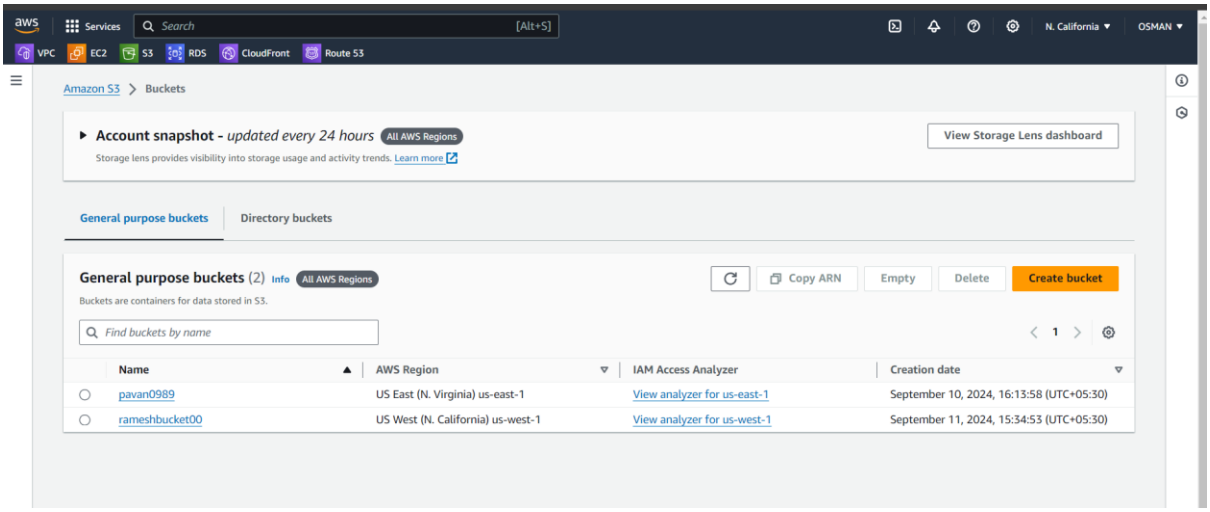
3) Enable cross region replication on s3 buckets.

Here’s how to set up cross-region replication on S3 buckets:

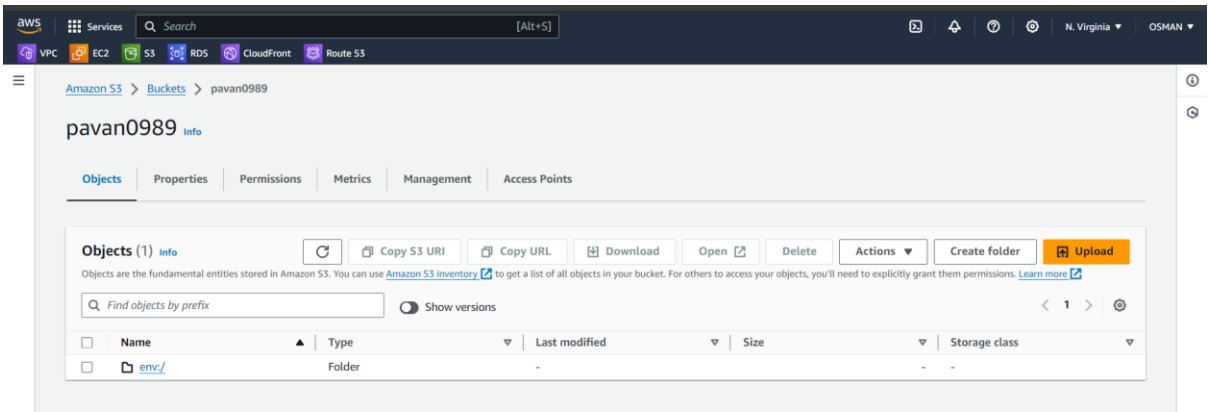
## Prerequisites

1. **Two S3 Buckets:**
   - You need two buckets: one as the **source bucket** and the other as the **destination bucket**.
   - Both buckets should be in **different regions** for cross-region replication.
2. **Versioning:**
   - Both the source and destination buckets **must have versioning enabled**. Without versioning, CRR will not work.
3. **Permissions:**
   - The IAM role associated with the replication should have the necessary permissions to replicate objects between the two buckets.
   - Otherwise while replicate select on that create new role.

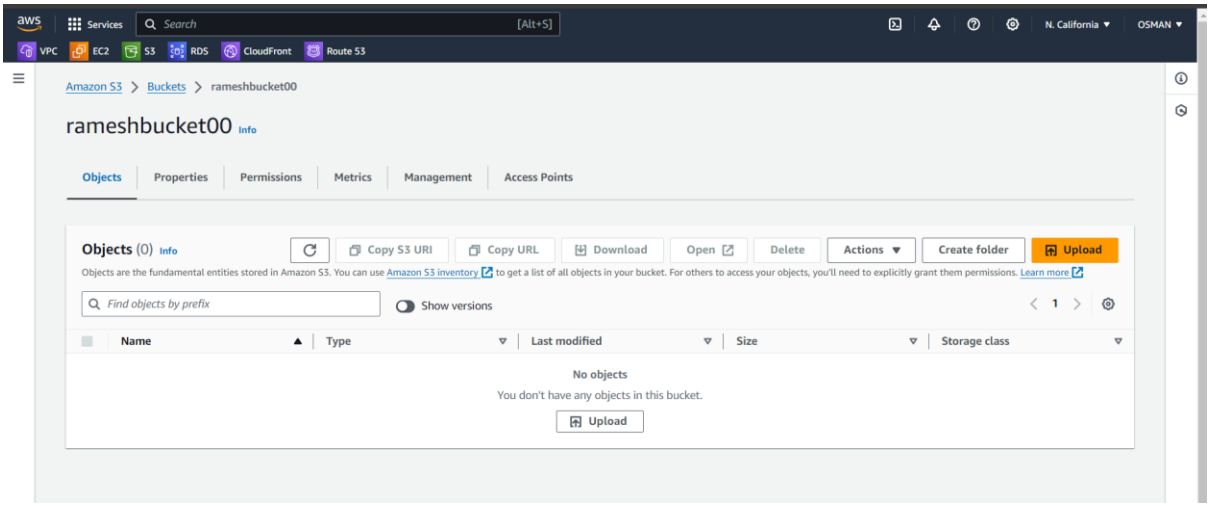
   Here I have two buckets.



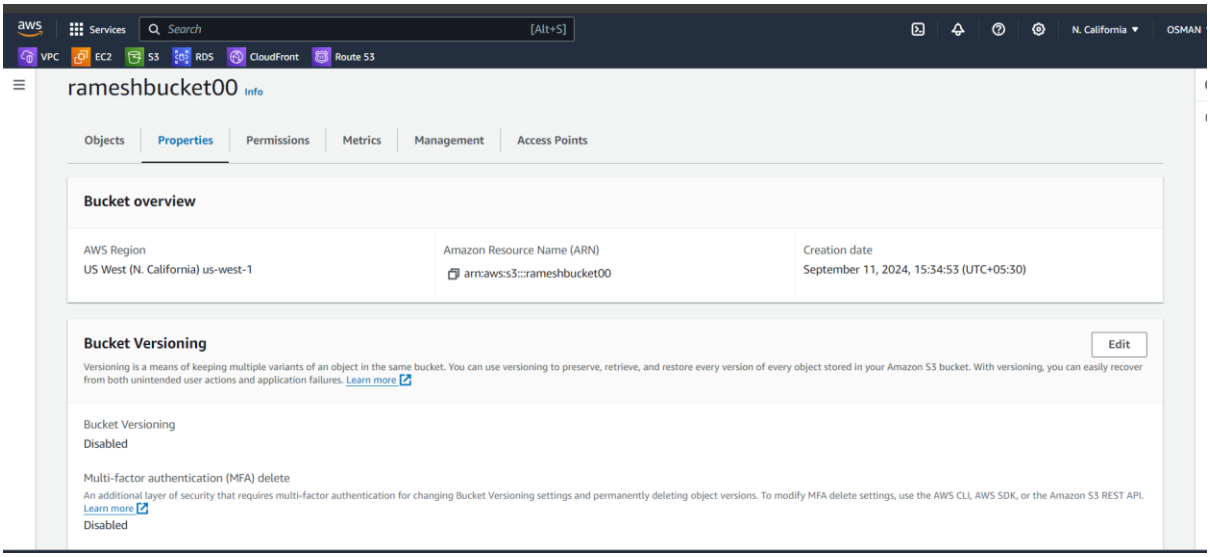

n.virginia bucket.



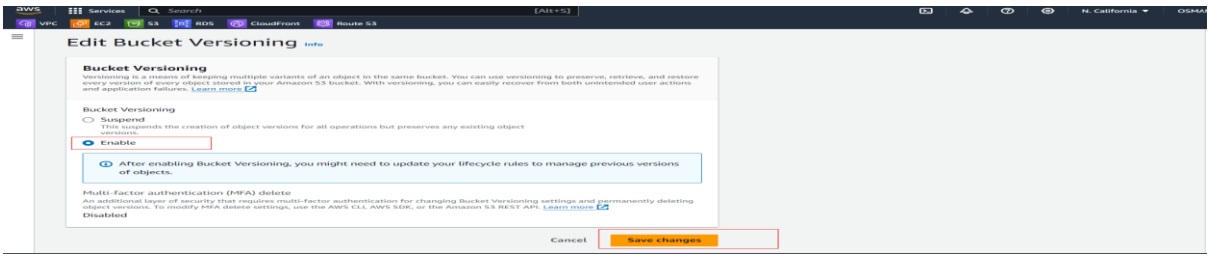
- N.california bucket.




- Now I am enable the two buckets versioning.
- Because I am not configure version of both buckets.
- Go to the properties and Select the bucket versioning ---edit option.

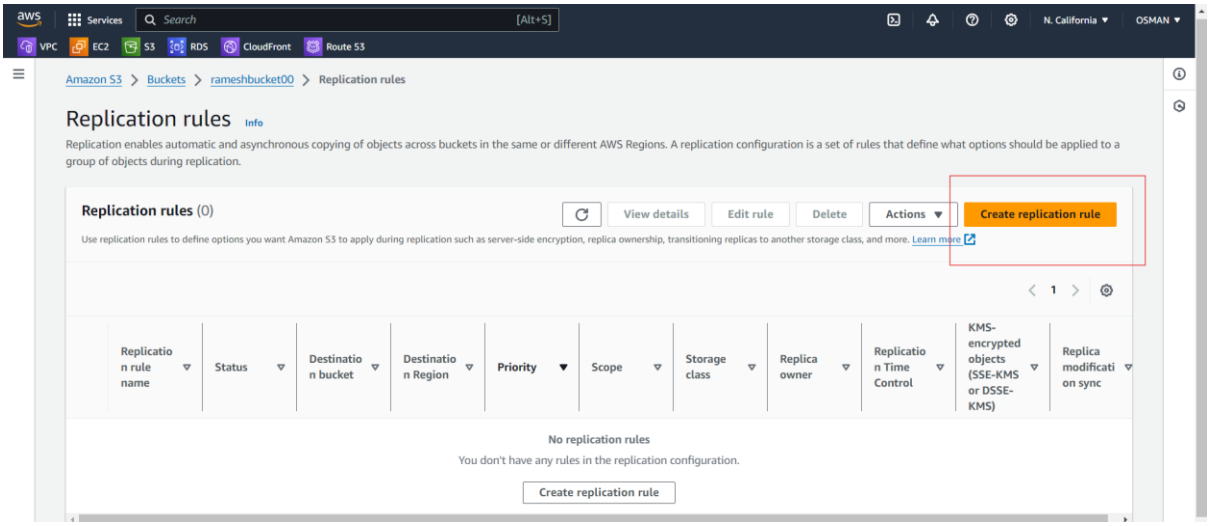



Enable and click on the save changes.

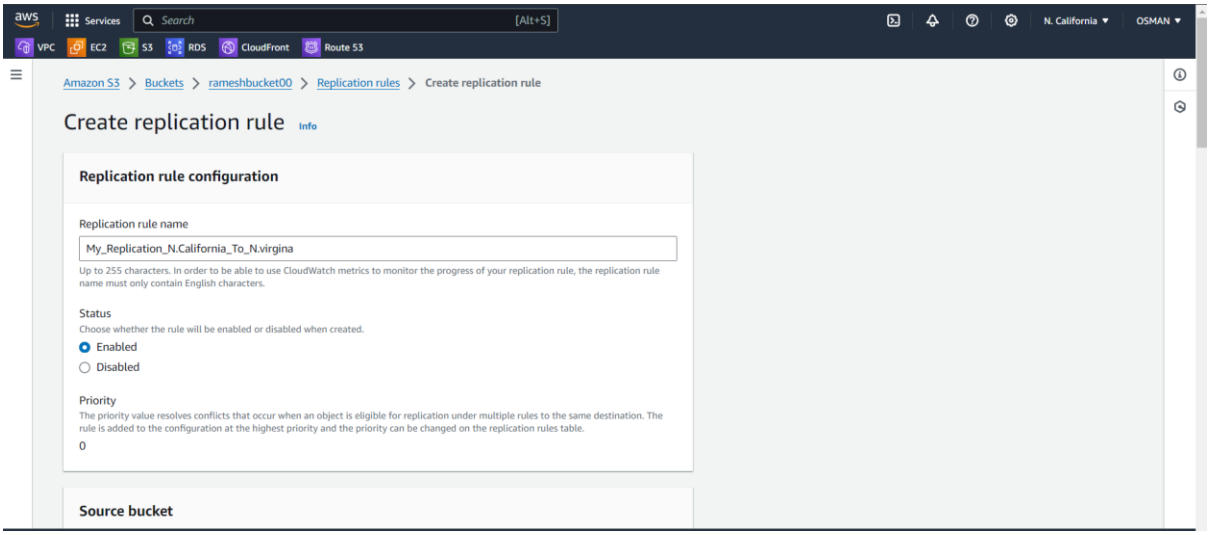



Do same as N.virginia region bucket also.

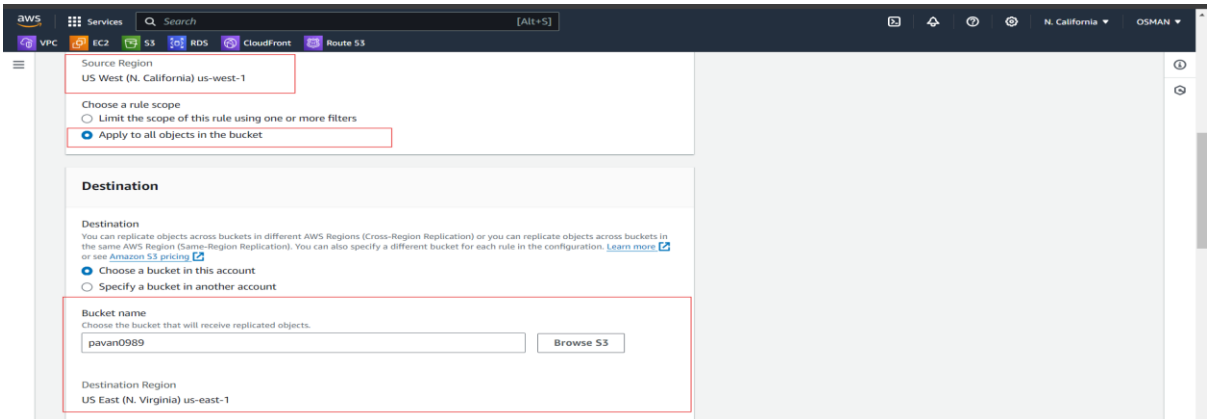
- Click on the management.
- Click on create replication rule.



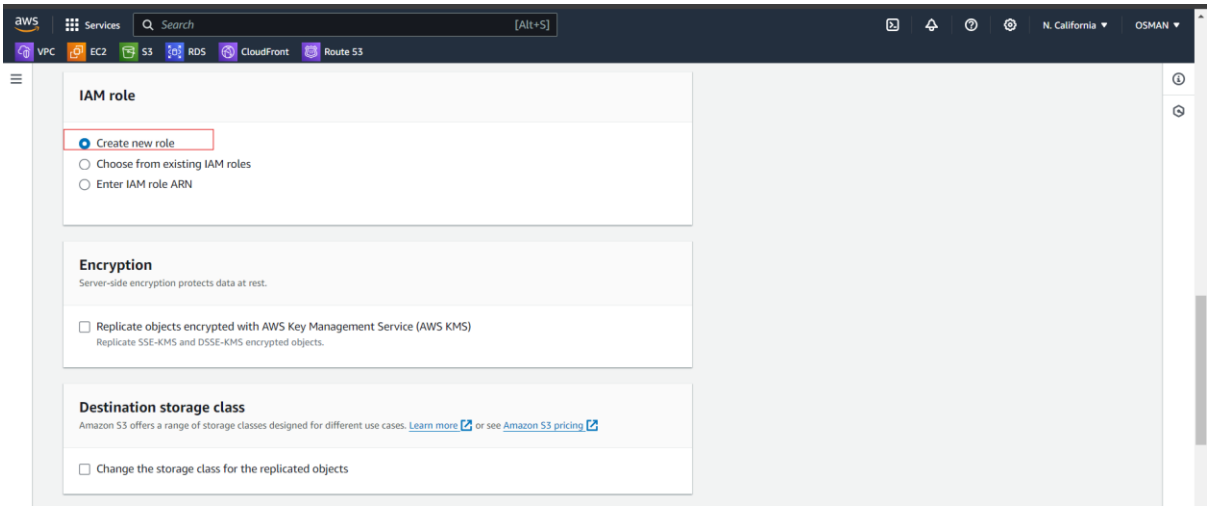

Here I am given just Name ------




Choose a rule scope ----- Apply to all Objects and select your Destination bucket.

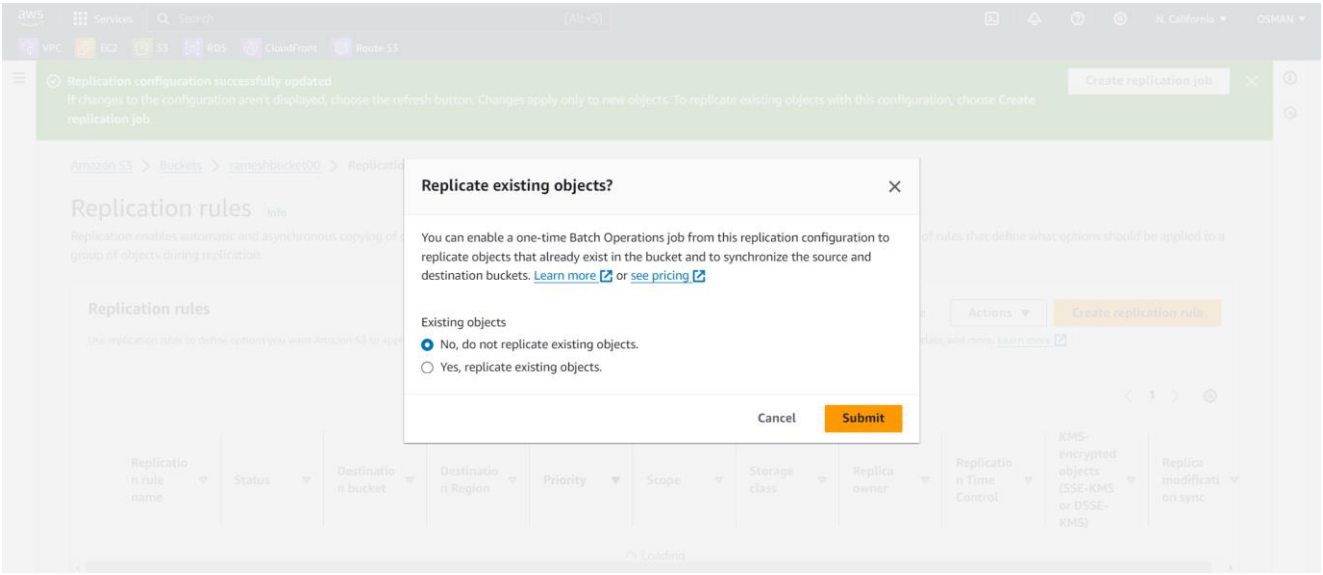


Just click on the create new role.

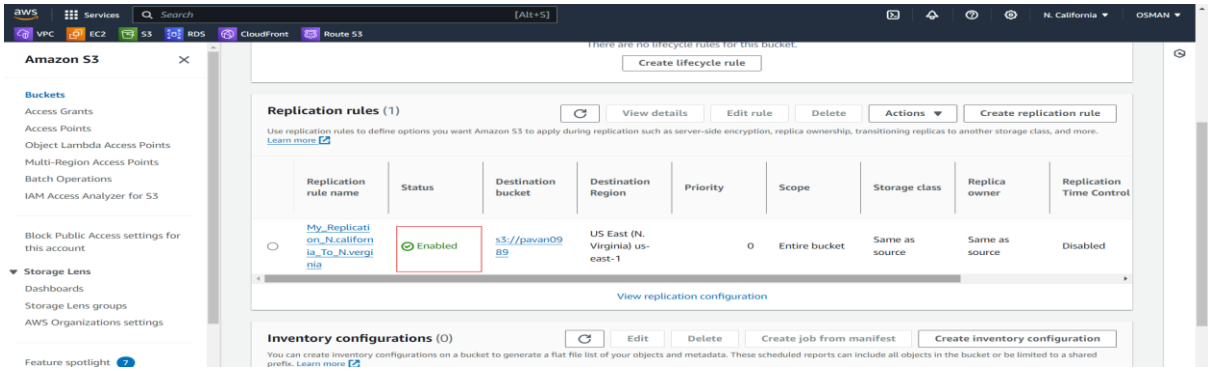



Click one save button and I am select the – No, I don’t replicate existing objects.

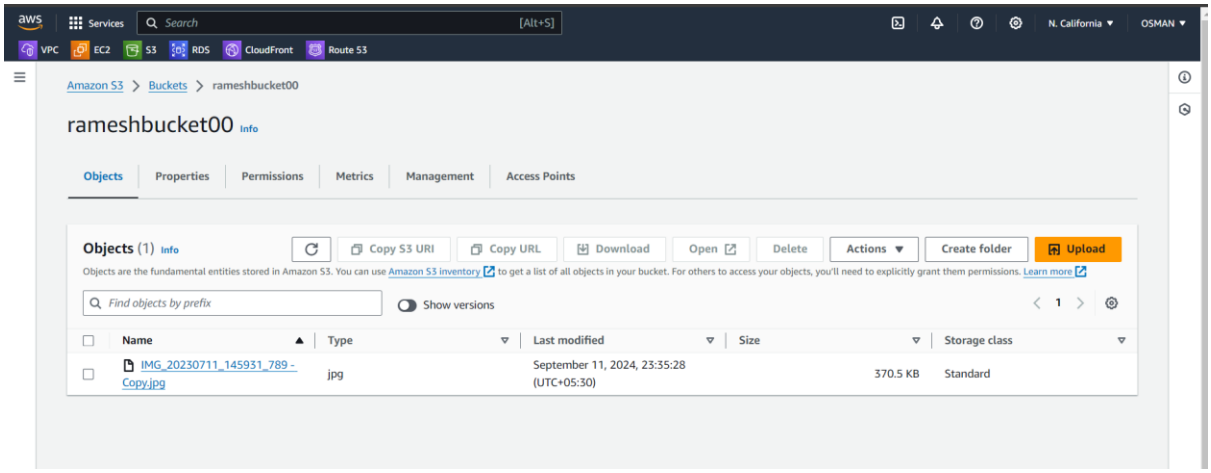
And submit.



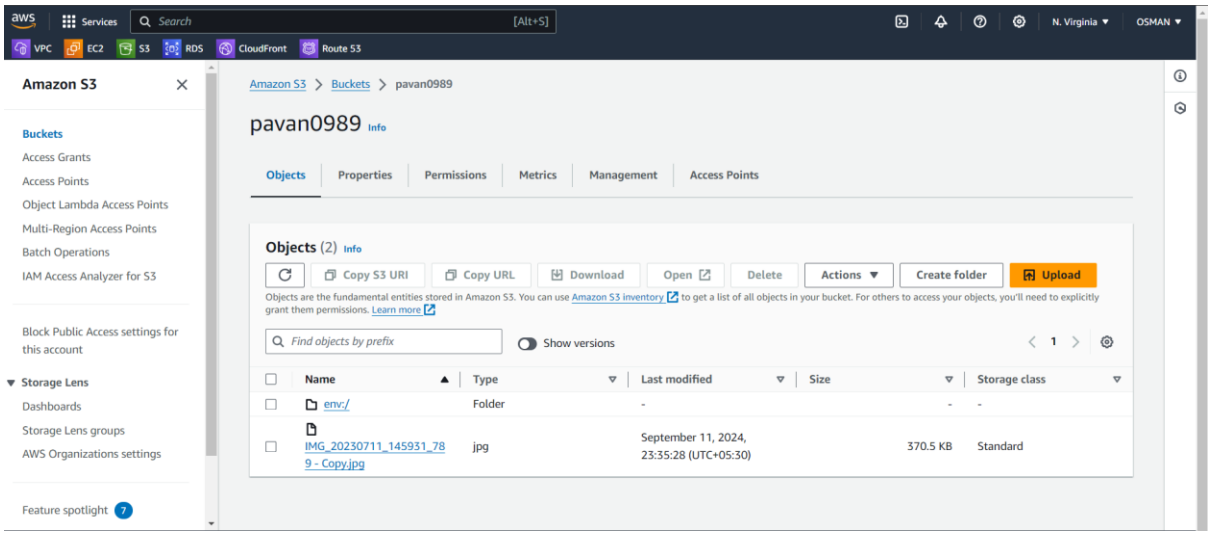

Replication rule is enabled.



N.california I am uploaded one image.




Now I want check the replication happen or not in the n.verginia.




Yes replication is done.

4) Configure bucket policy, only Admin user can see the objects of s3 bucket.

- Here now we want to create admin user and that user and create and bucket policy.
- We all are now how to create user instate of creating Admin user and attach policy to user I am attaching the user is Ramesh.
- Now I am creating one buket policy and attach to the Ramesh user.

5) Setup lifecycle policies to automatically transition or delete objects based on specific criteria.

6) Push some objects in s3 using AWS CLI.

7) Write a bash script to create s3 bucket.

8) Upload one 1 gb of file to s3 using cli.