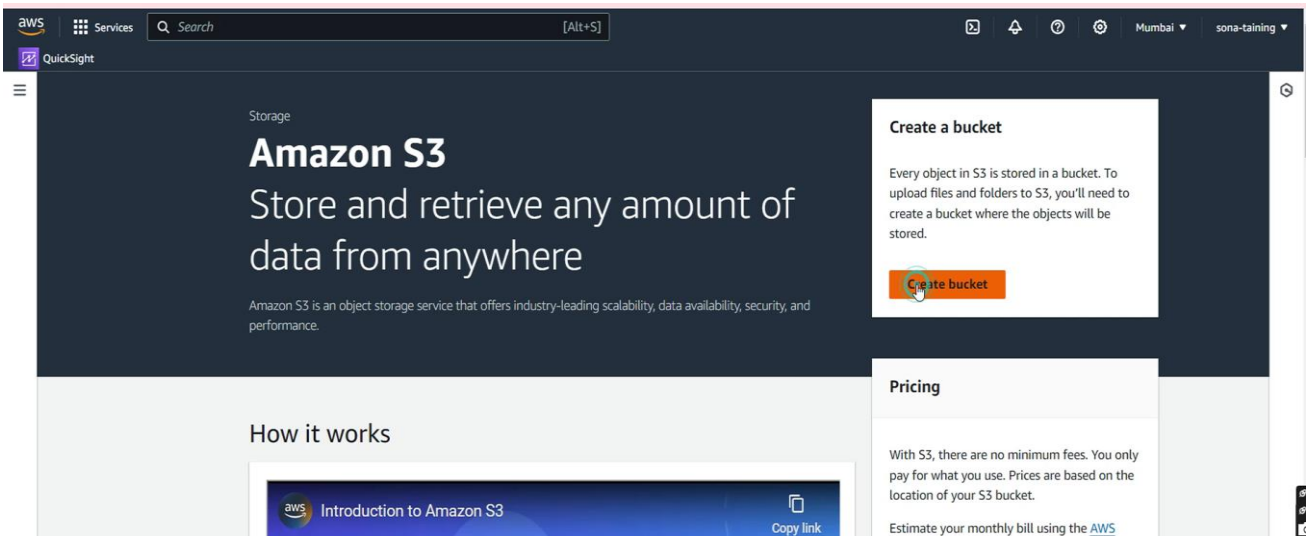
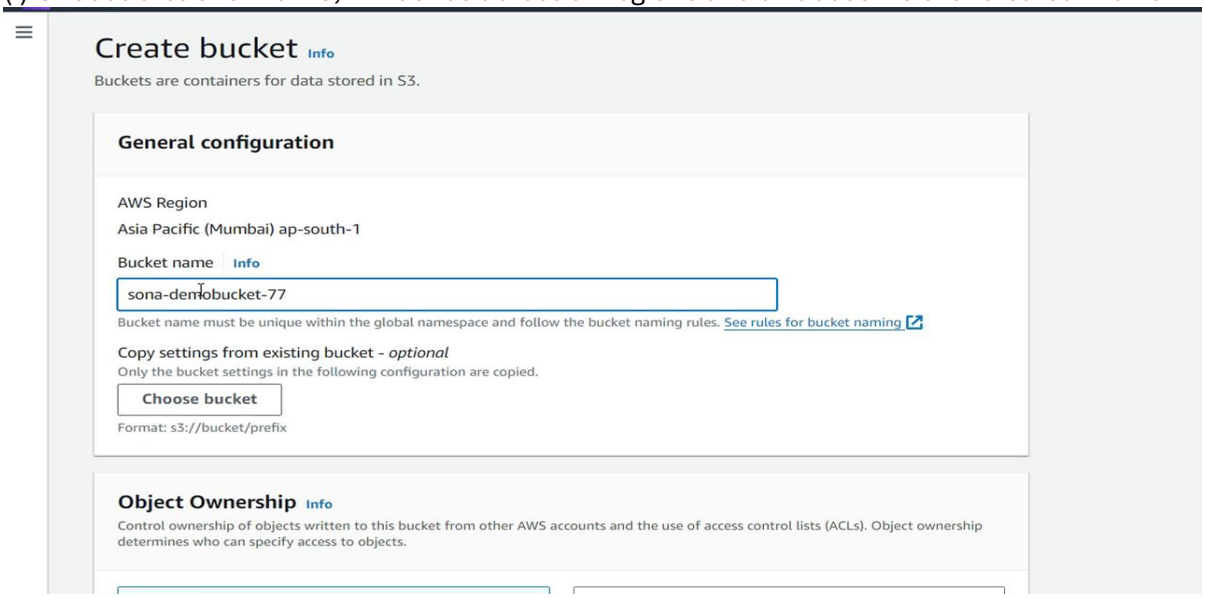
S3 Lab: Static Website Hosting, Bucket Creation, Versioning

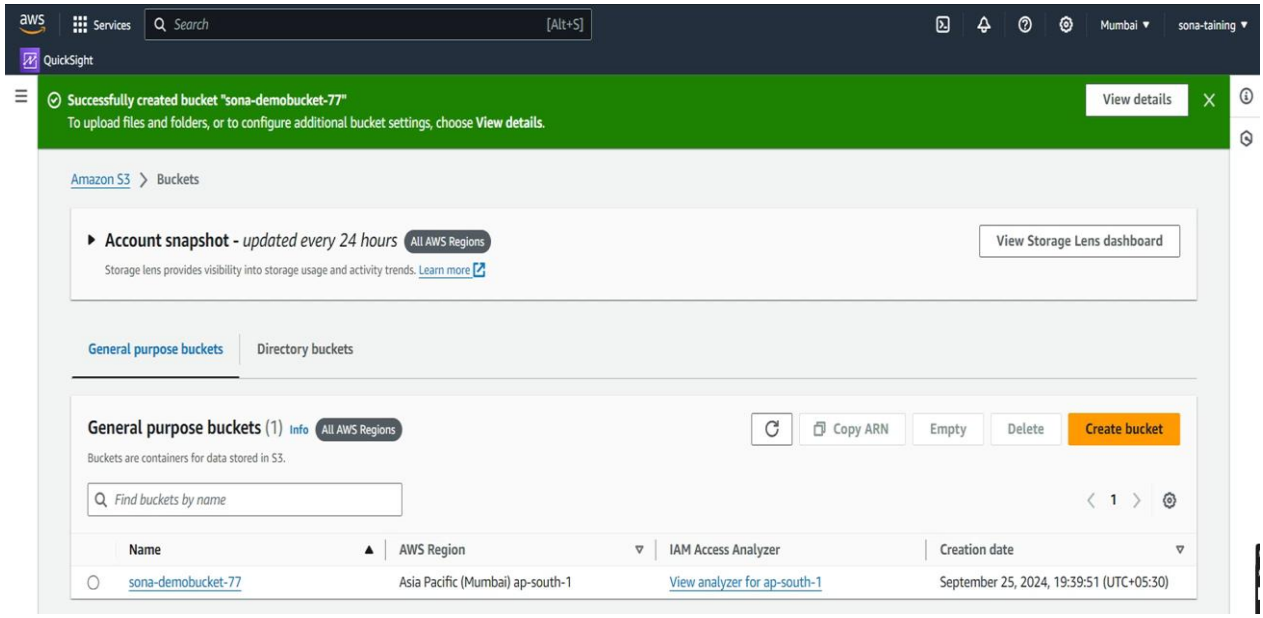
1 Go to S3 service and click on create bucket.



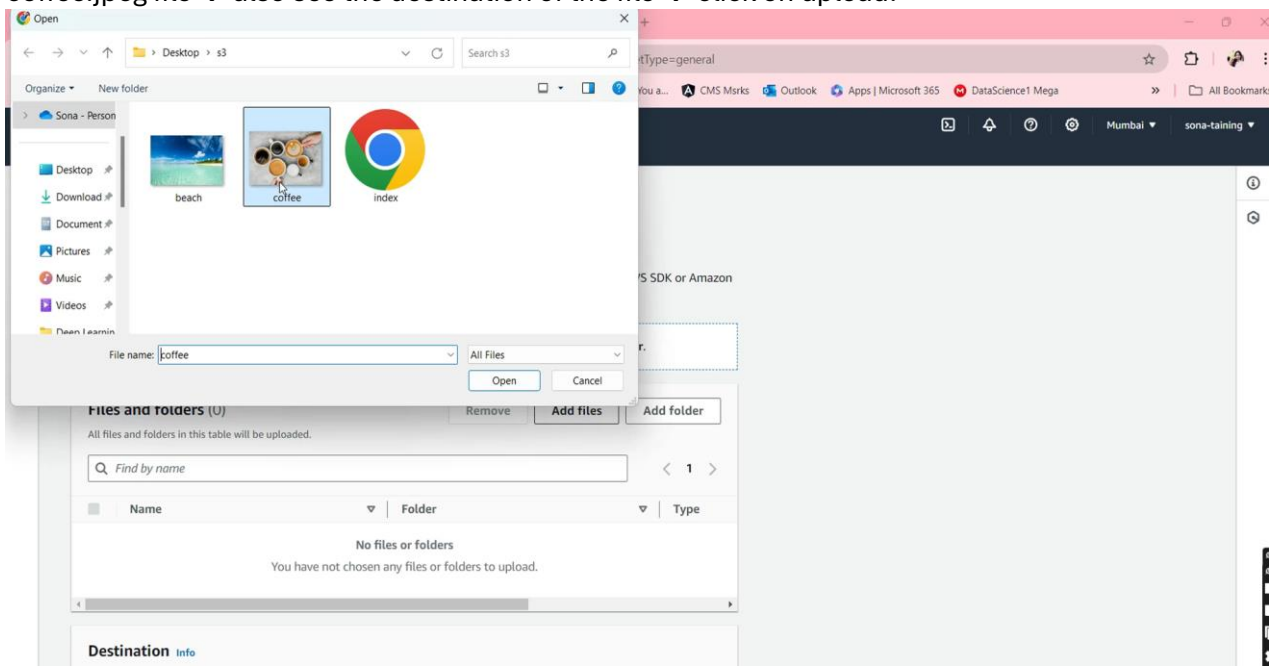
2. (i) Choose a **bucket name**, it must be across all regions and all accounts ever created in aws.

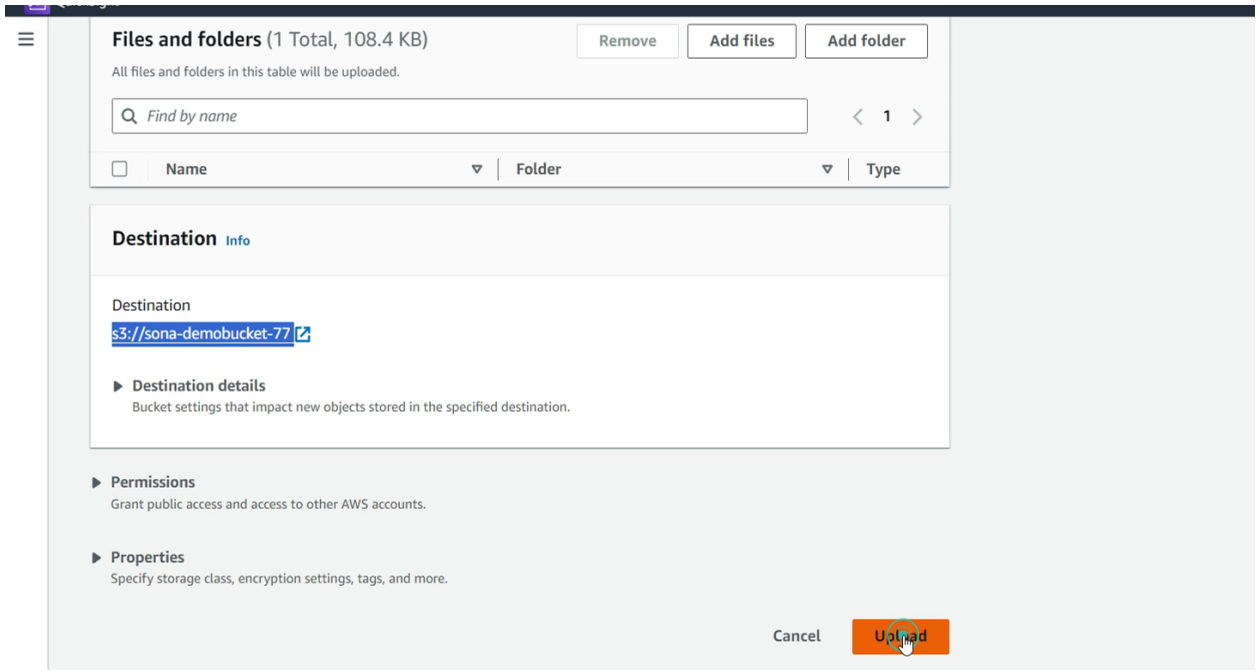


(ii) Under **Ownership**, right now ACLs(Access Control List) is disabled.
(iii) Enable the blocking bucket policy as it so that it will block all the public access. By default, your bucket is always private.
(iv) Under **Bucket Versioning**, keep it disable. We will see later, how to enable it.
(v) No tags are needed.
(vi) Click on “Create Bucket”.

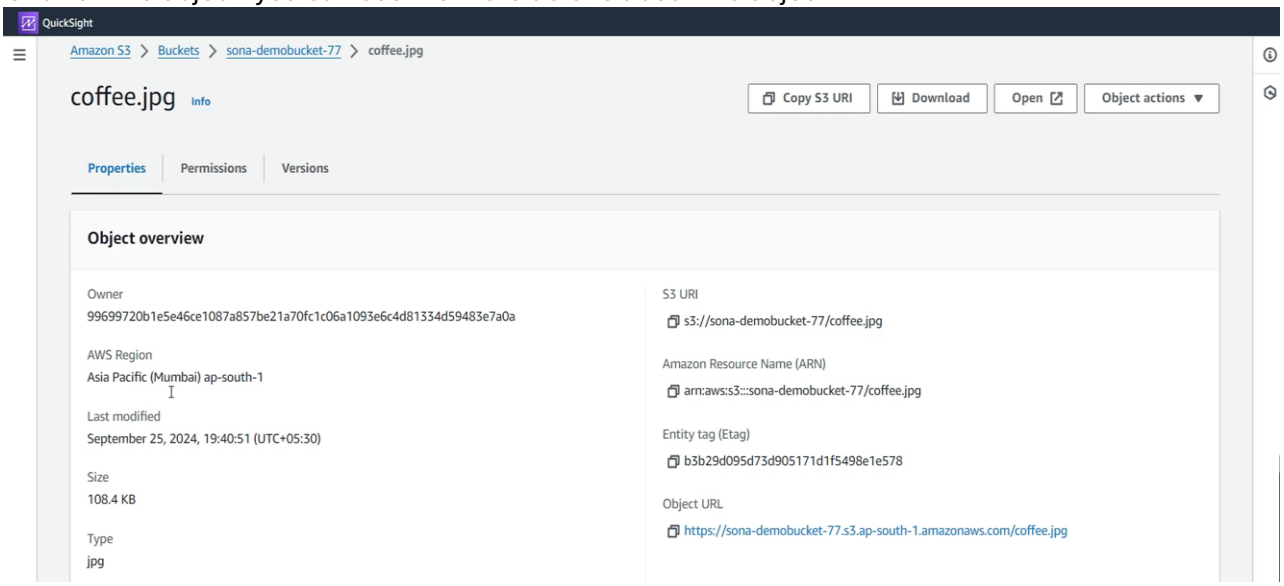


3. Go inside your bucket. Let's upload object -→ click on upload→ add files→ then choose this coffee.jpeg file → also see the destination of the file → click on upload.

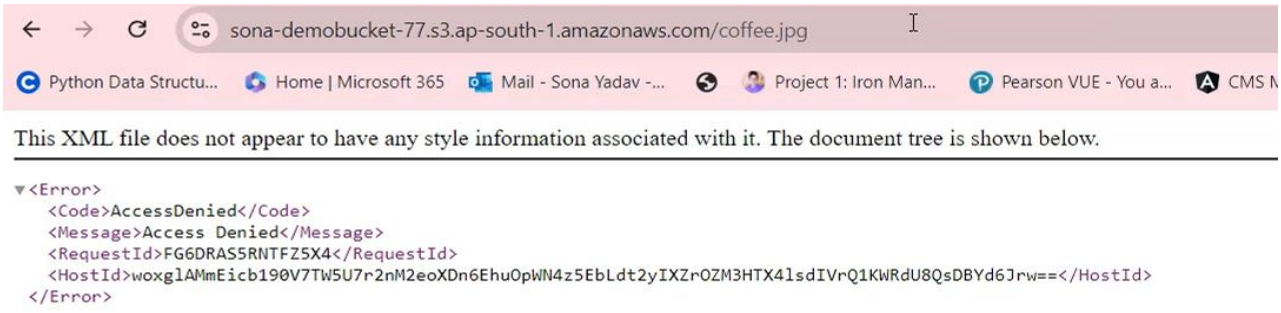




4. Click on the object: you can see the more details about the object.

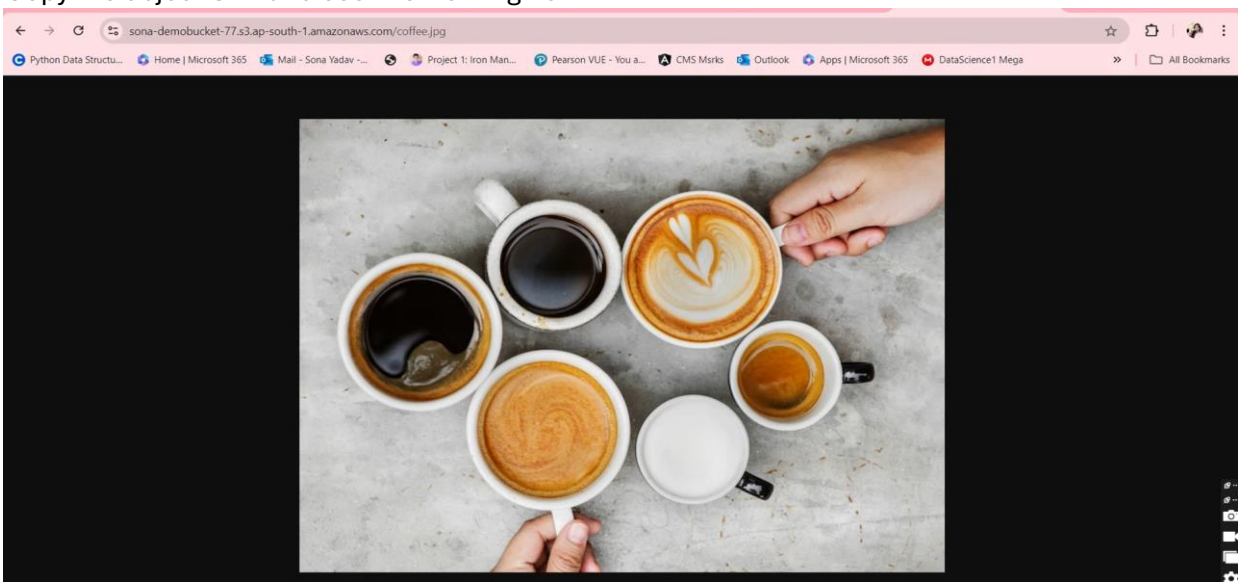


5. Copy the object URL → try to open it to see whether it is working or not. I get an access denied error, so let's fix this error.



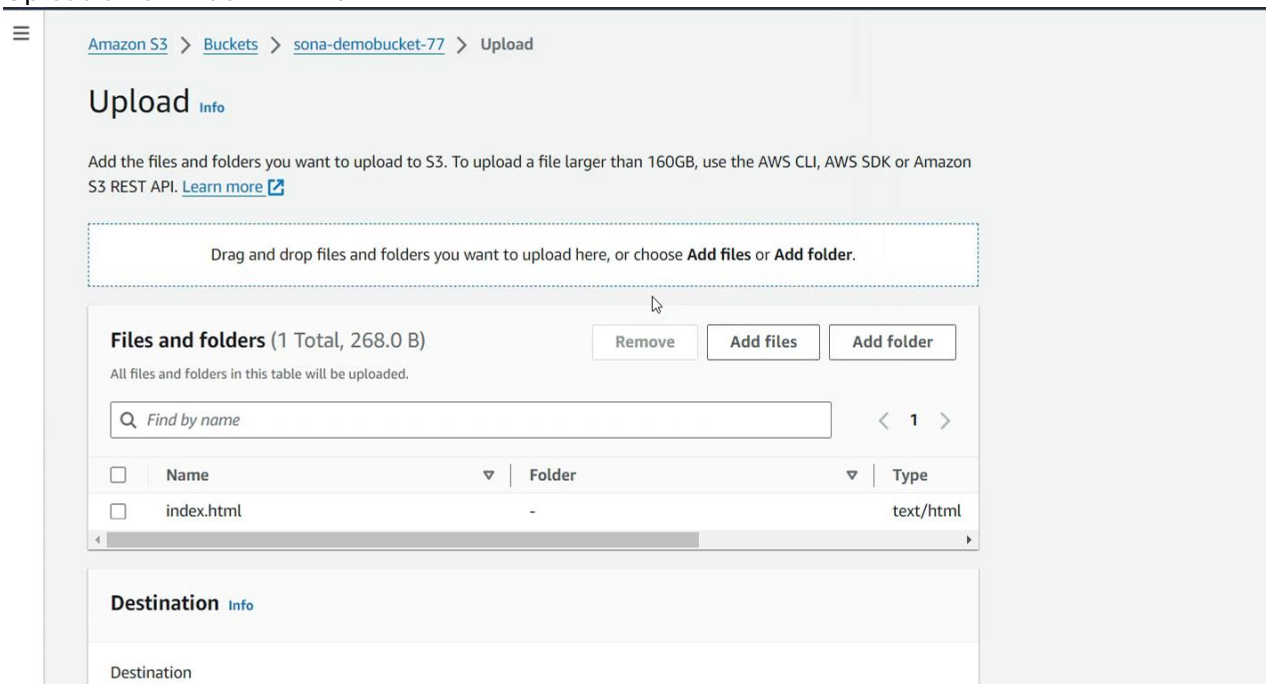
For that, Go to the bucket permission→ allow public access(edit—unchecked—save changes--confirm) → it is a dangerous action off course if you using ream data of your company on s3 bucket, and you make it public then may have data leak → Under Bucket policy (edit—go to policy generators – Select type of policy is S3 bucket Policy – Effect = Allow –-Principal= * -- Actions= GetObject – ARN = your_bucket_arn/* -- click on add statement --- click on policy generate – copy this policy and paste in the bucket policy → Save Changes.

6. Copy the object URL and see it is working now.

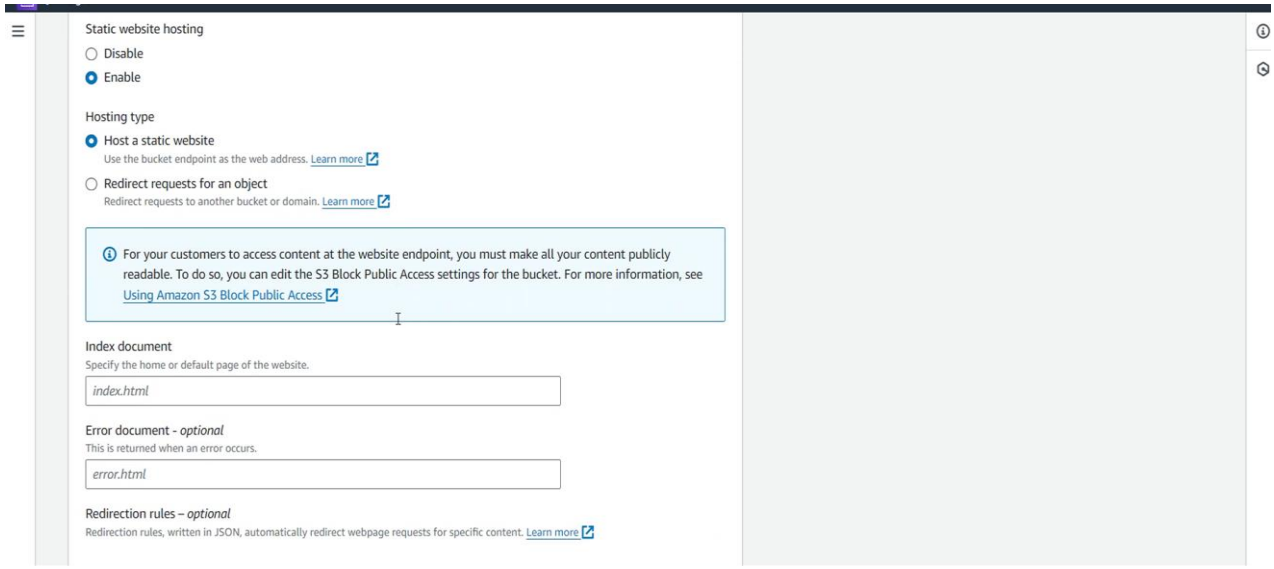


Static Website Hosting

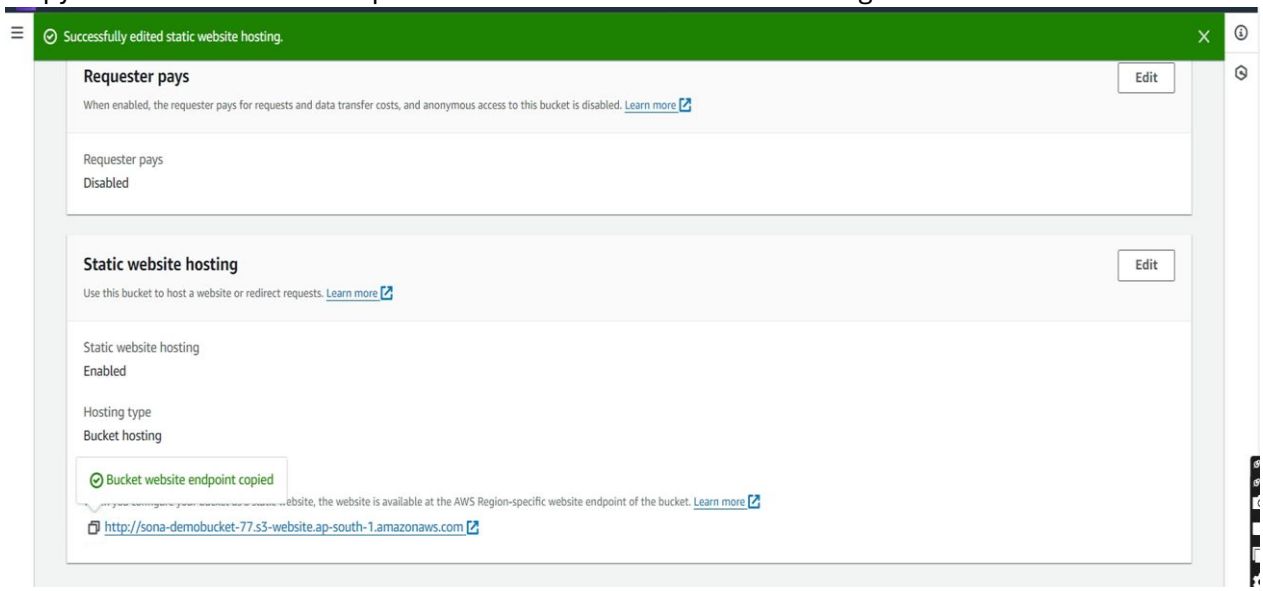
1. Upload a new inde.html file.



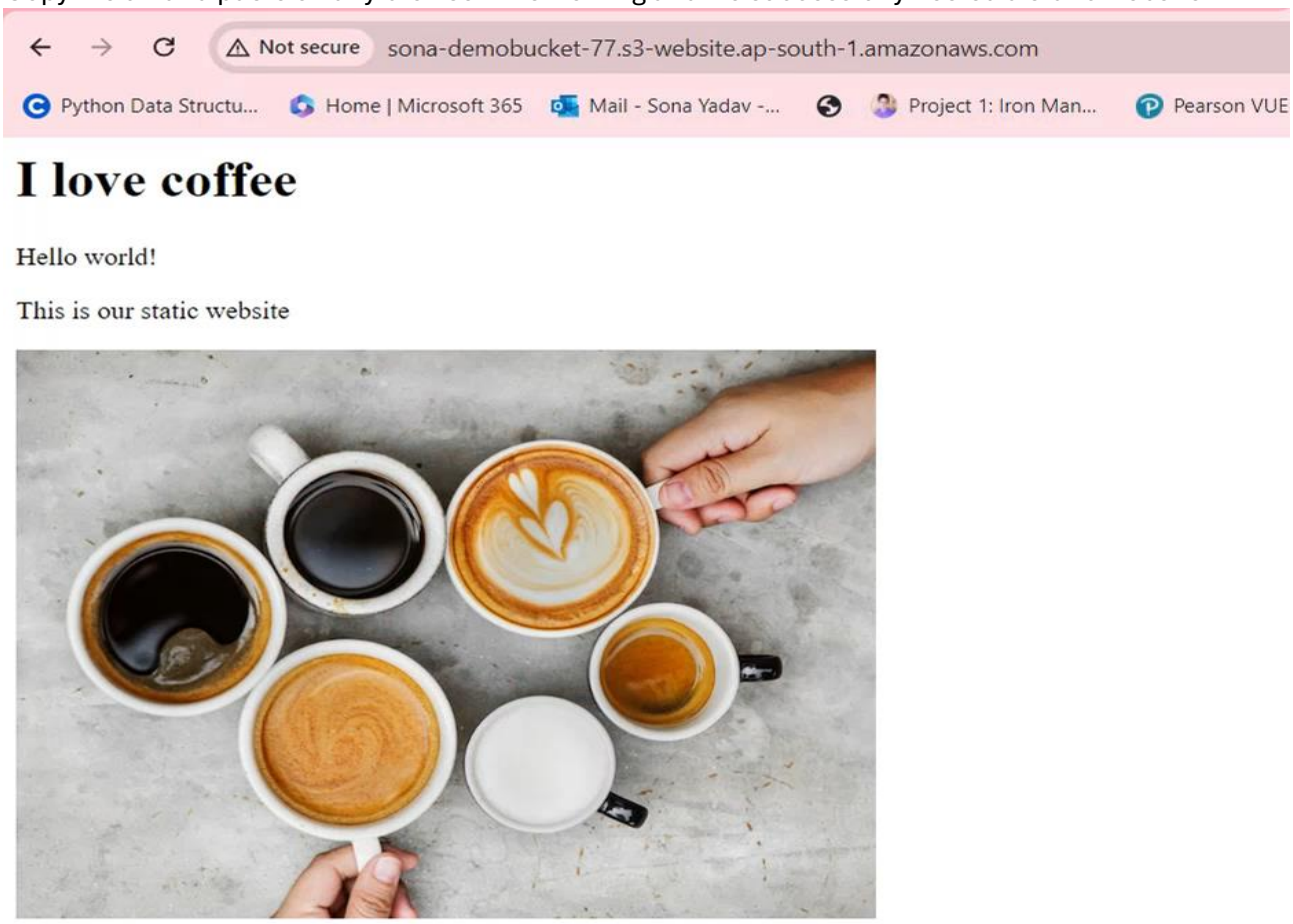
2. Go to the bucket properties → scroll down and at the bottom you can see static website hosting → Click on edit → Enable →index document is index.html → save changes.



3. Copy the Bucket website endpoint URL seen in static website hosting.

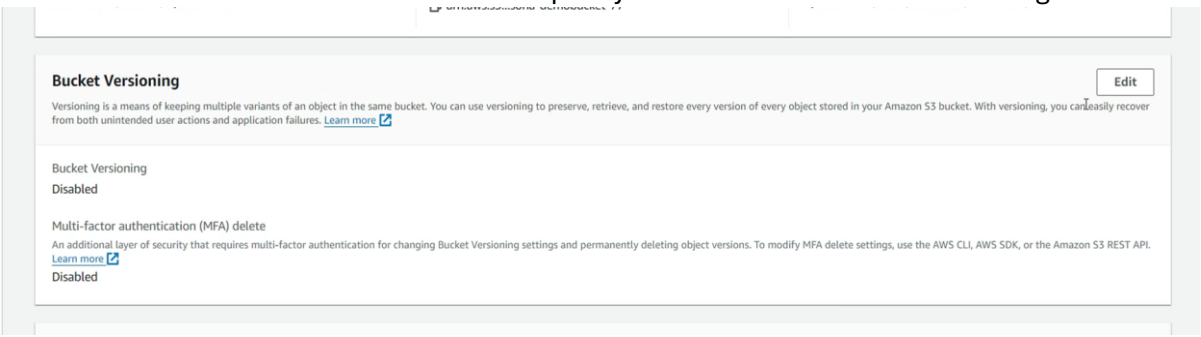


4. Copy the url and paste on any browser. It is working and we successfully hosted a static website.

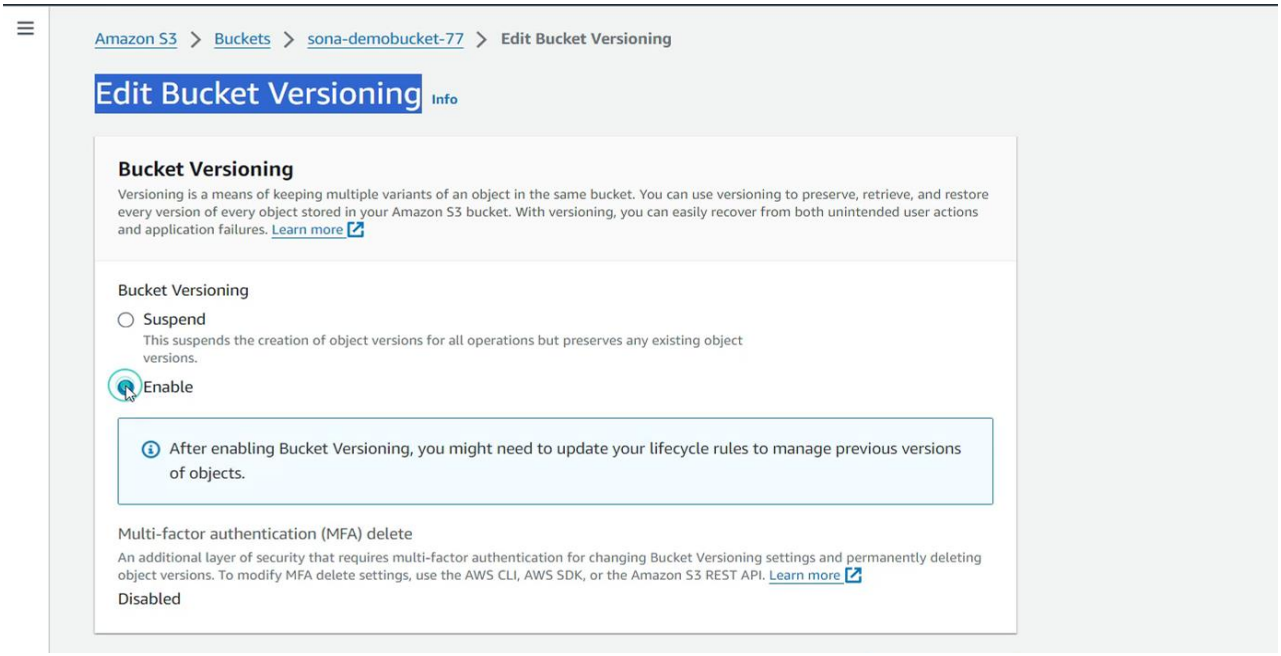


Bucket Versioning

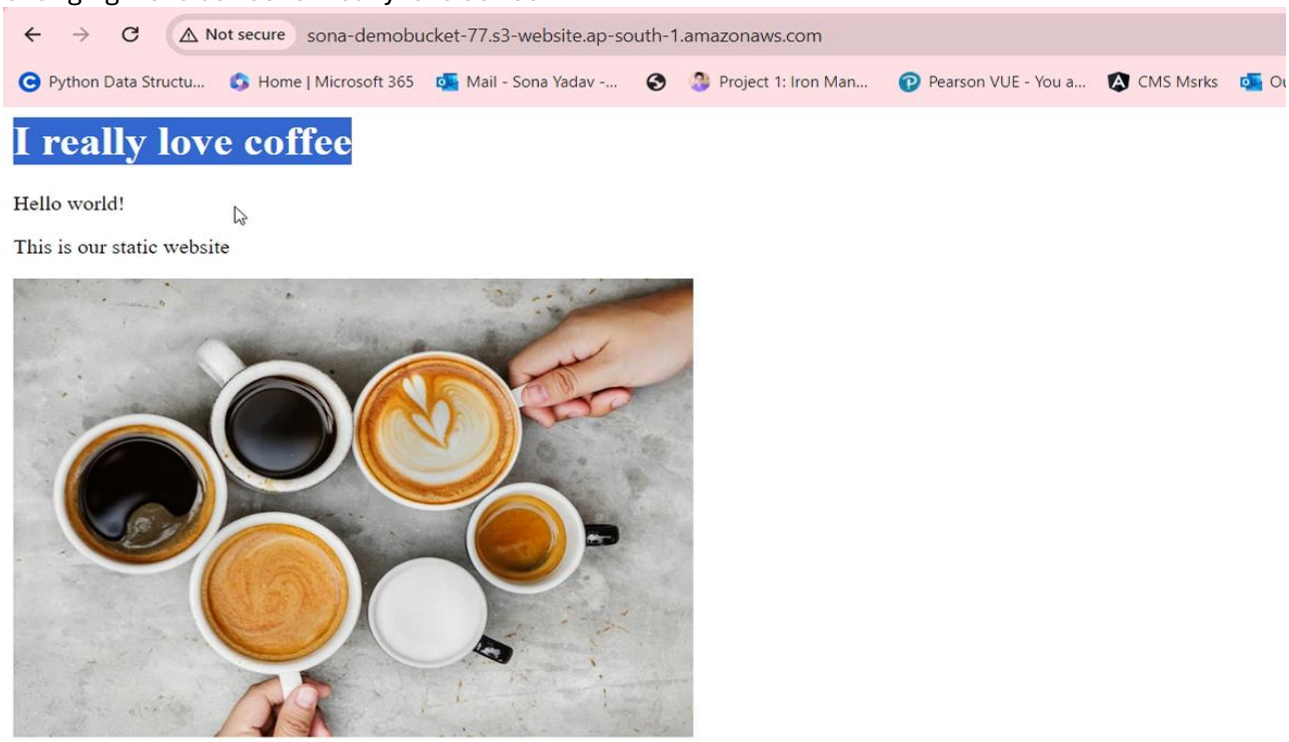
1. It is enable at a bucket level. Go to the bucket policy → Edit → Enable it → save changes.



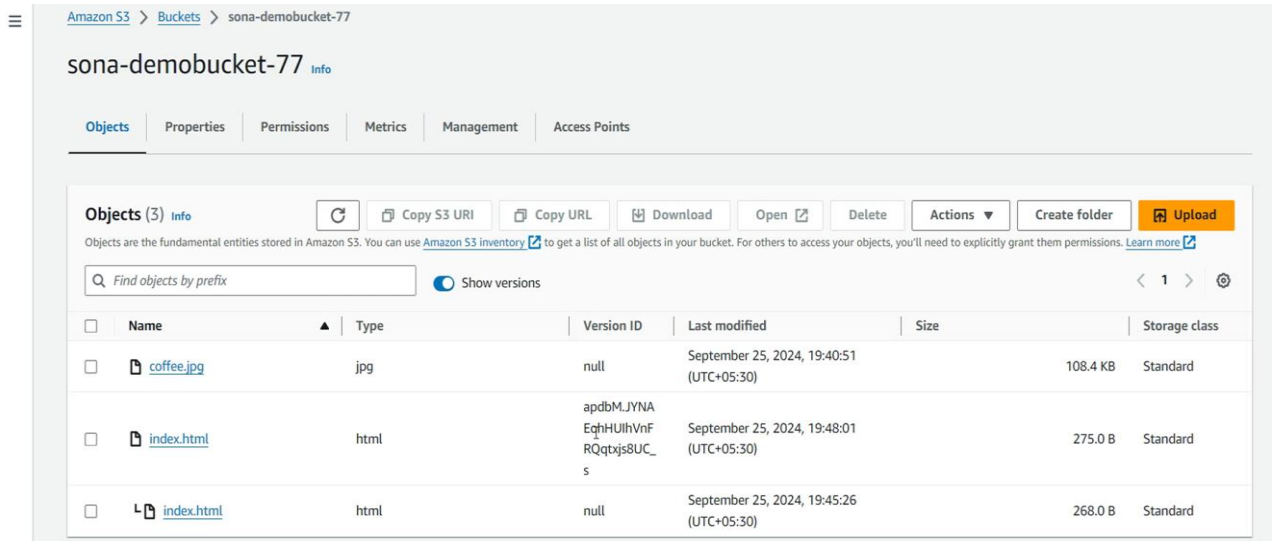
2.



3. Now, any file we override is having versioning.
Update the index.html file → save file → upload it on S3 → Copy the static url and you can see it changing I love coffee to I really love coffee.



Go to bucket → Click on show versions toggle



Th file shows null id becoz it is upload before the versioning is enabled. We can roll back by deleting the versioning id file.