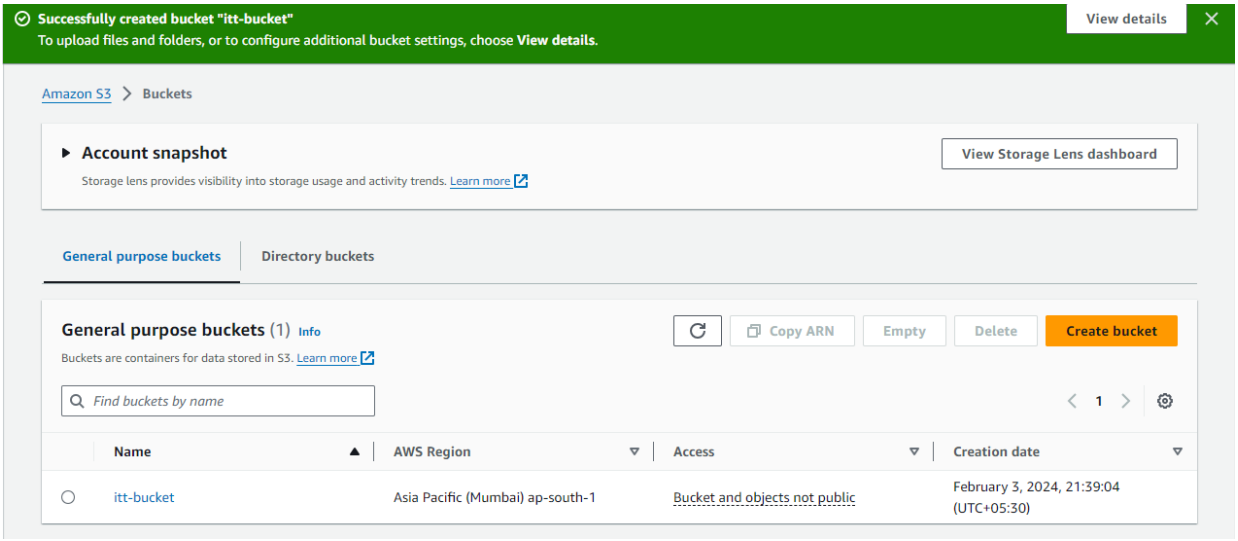
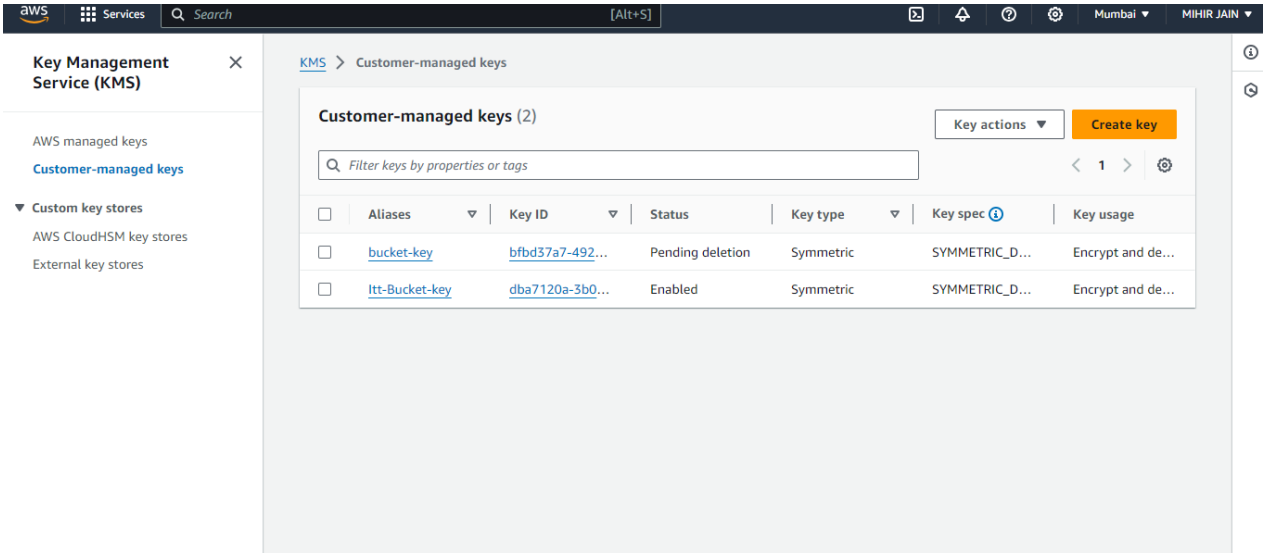
 # Create an S3 bucket with versioning enabled for the objects. Map out a bucket policy such that every object we put within the bucket needs to be encrypted by default using KMS keys: -

1: - Created a Bucket with Versioning: -

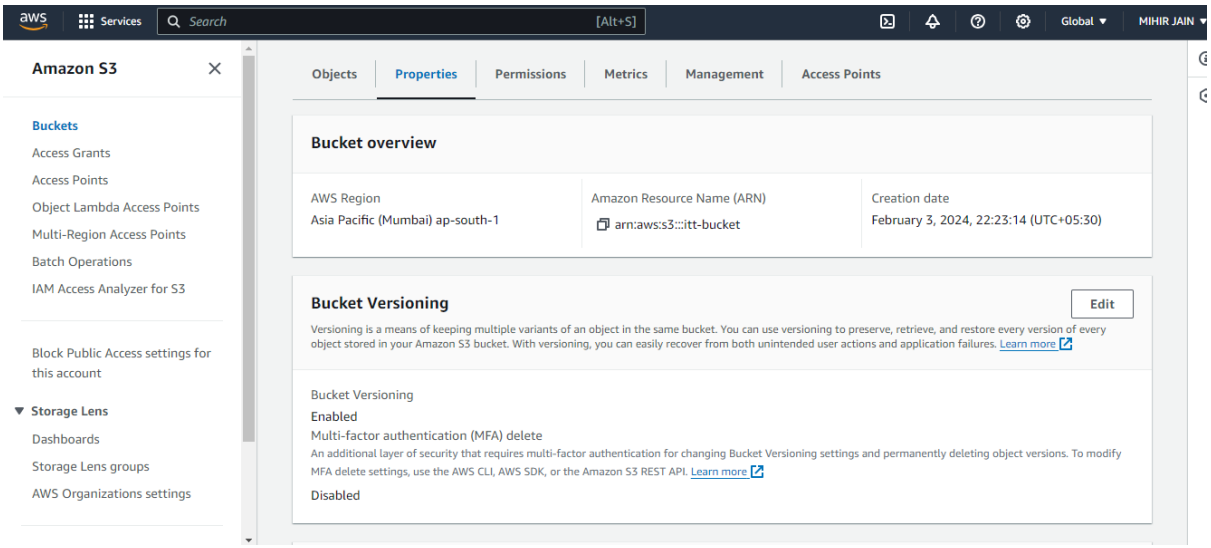


2: - Created a KMS Key: -

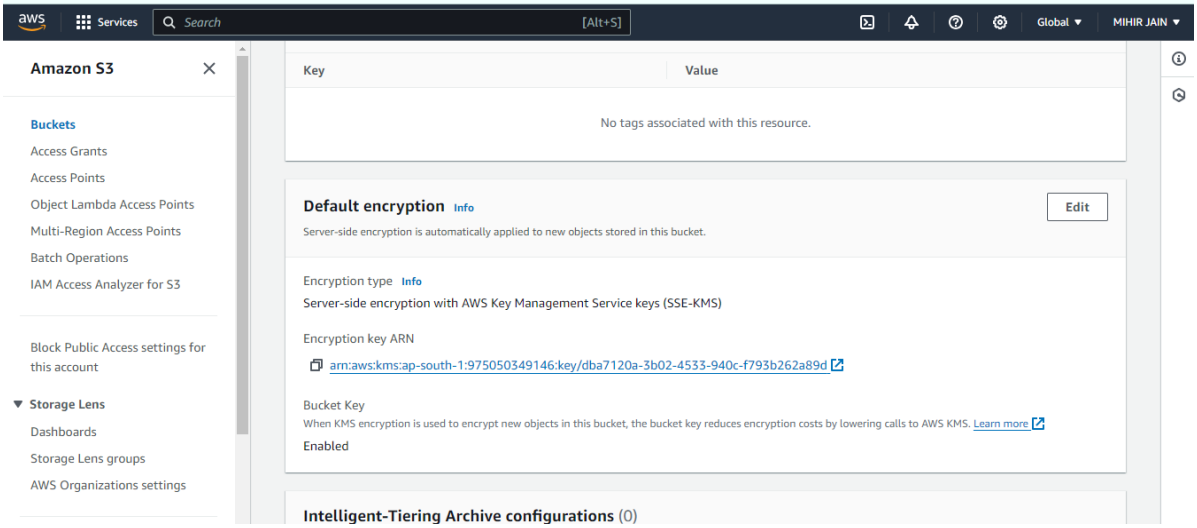


- Created symmetric key in this key
- Name of the key is Itt-bucket-key
- Created a KMS Key with only key administrator can access the key
- After that key users cannot access the key that I am selected

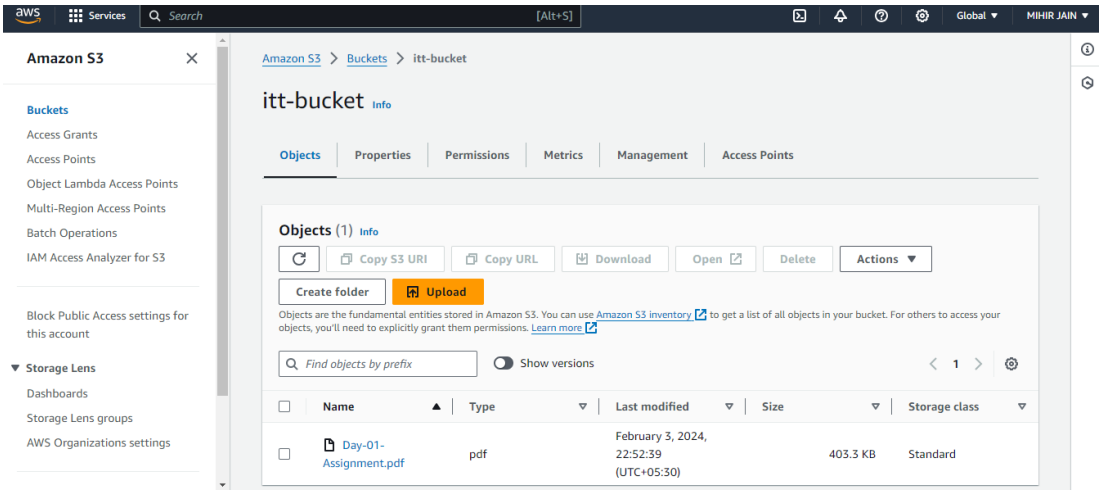
3: - Bucket versioning is enabled: -



4: - In the Bucket We added an Encryption Key: -

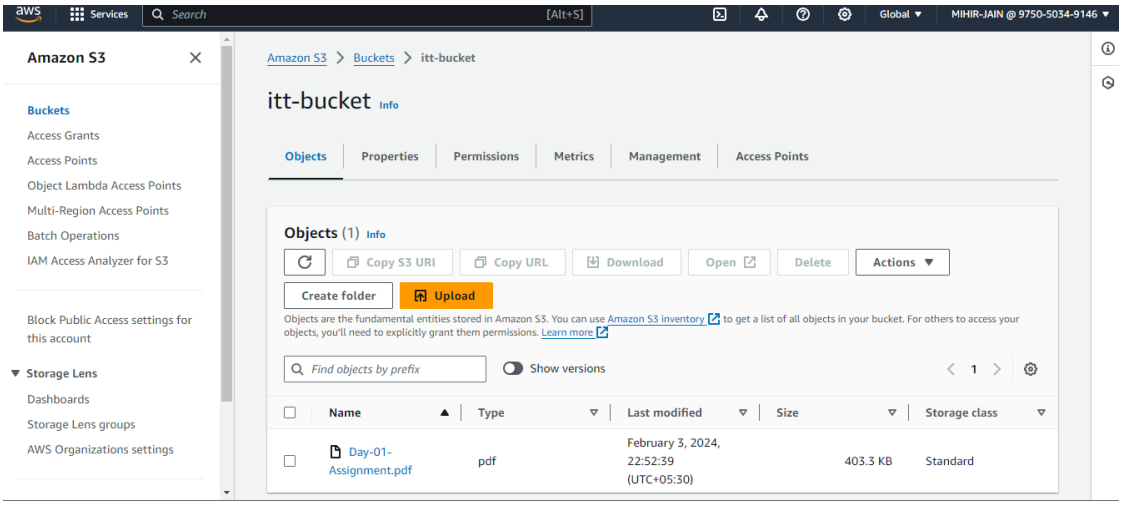


5: - After That I uploaded one file in this bucket from the root user: -

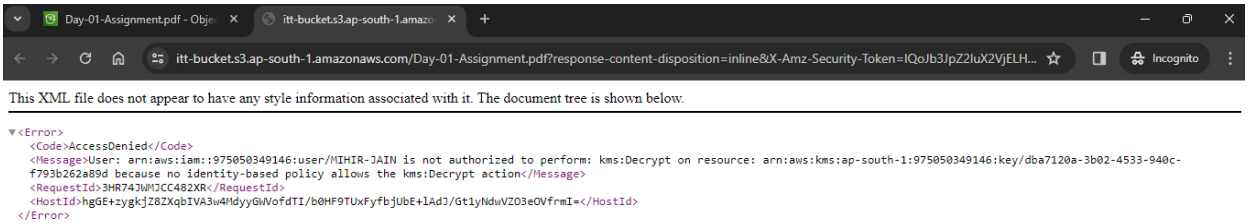


- I am giving IAM policy to user to full access of s3 bucket

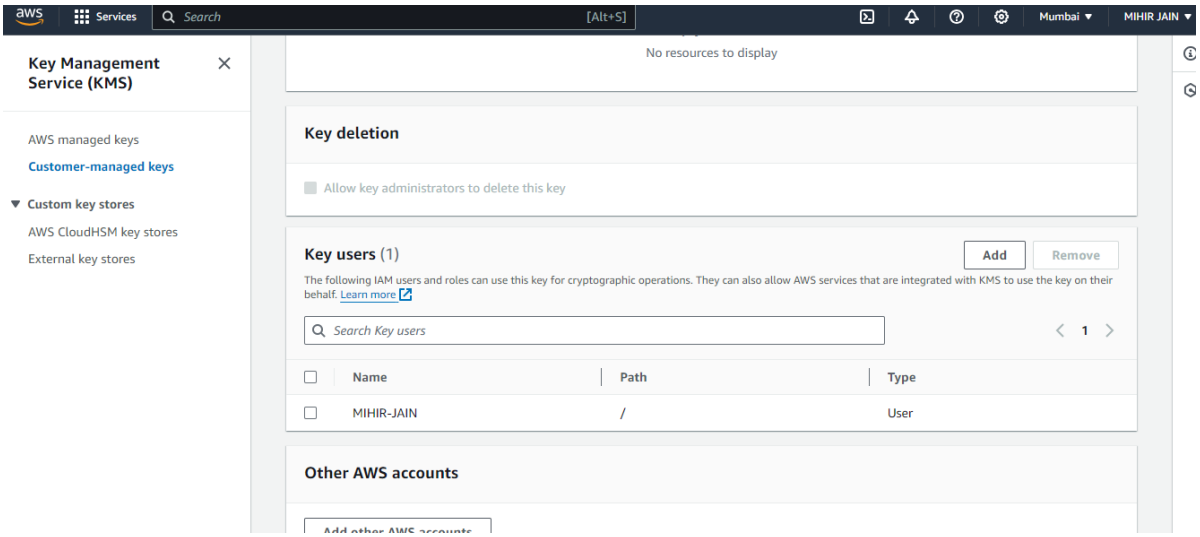
6: - Login From The user and check the file inside the bucket that root user is uploaded: -



- So, the user can see the file that root user is uploaded but user have no access to see the file or upload a file in the bucket because the bucket is encrypted by the KMS key.



6: - So, I am added the user to access the ITT-bucket files: -



- The user can view the file after I added in the key users of the key management service.
- Users have full access to the uploading and editing in the files of bucket.