DAY 20 **DATE:20/05/2025**

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Batch: 25VID0885_DC_Batch4

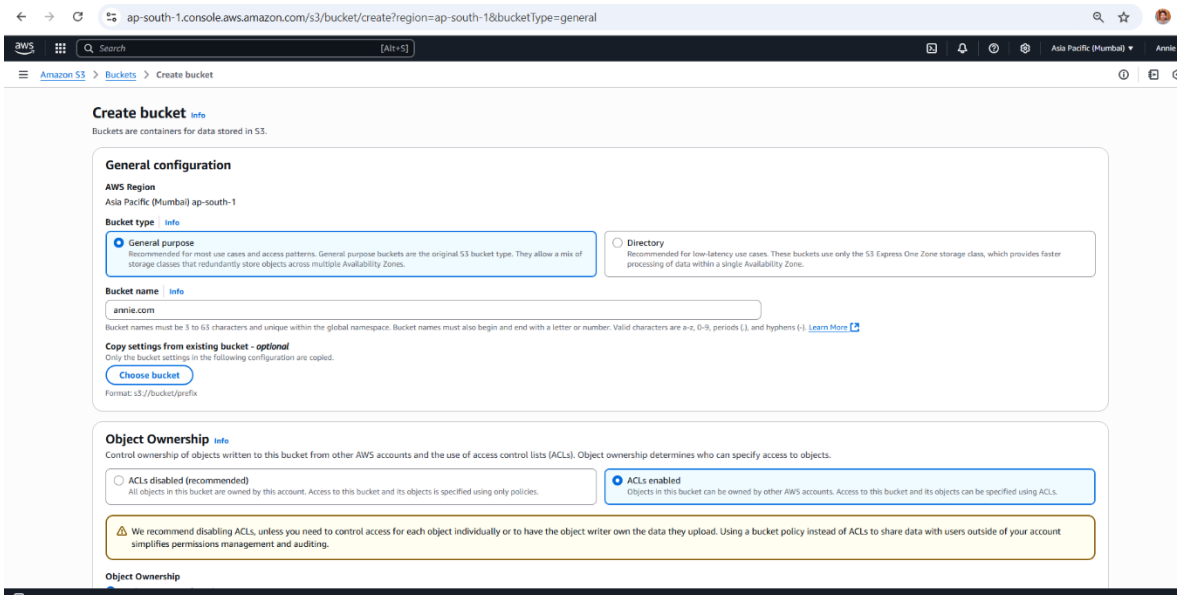
TITLE: DEPLOYING STATIC WEBSITE IN AWS S3 WITH CLOUD BASED SCALABILITY

- **Objective**

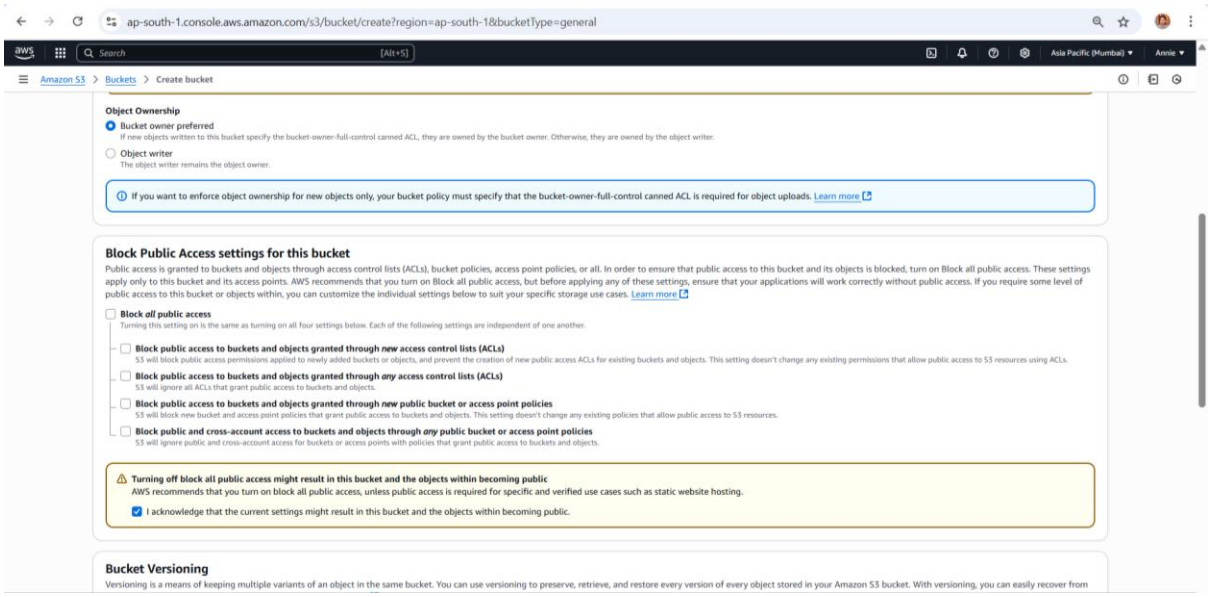
  The primary objective of this project is to successfully deploy a static website using **Amazon Web Services (AWS) S3**, demonstrating a scalable and cost-effective method for hosting web content. This project aims to configure S3 buckets for static website hosting, ensuring proper access policies and permissions are applied for public access. Additionally, it seeks to enhance website performance and availability by integrating **Amazon CloudFront**, which provides global content delivery and caching to reduce latency.

- **Step By Step Process**

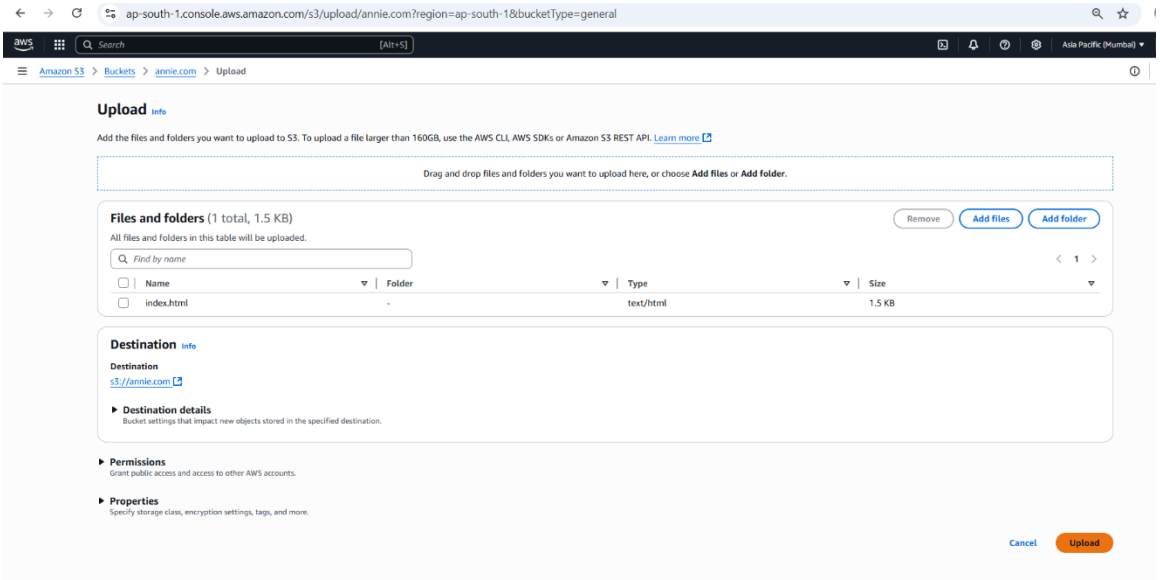
1. Open Amazon S3 console->Click on create bucket->choose bucket type as General purpose->Give a bucket name.



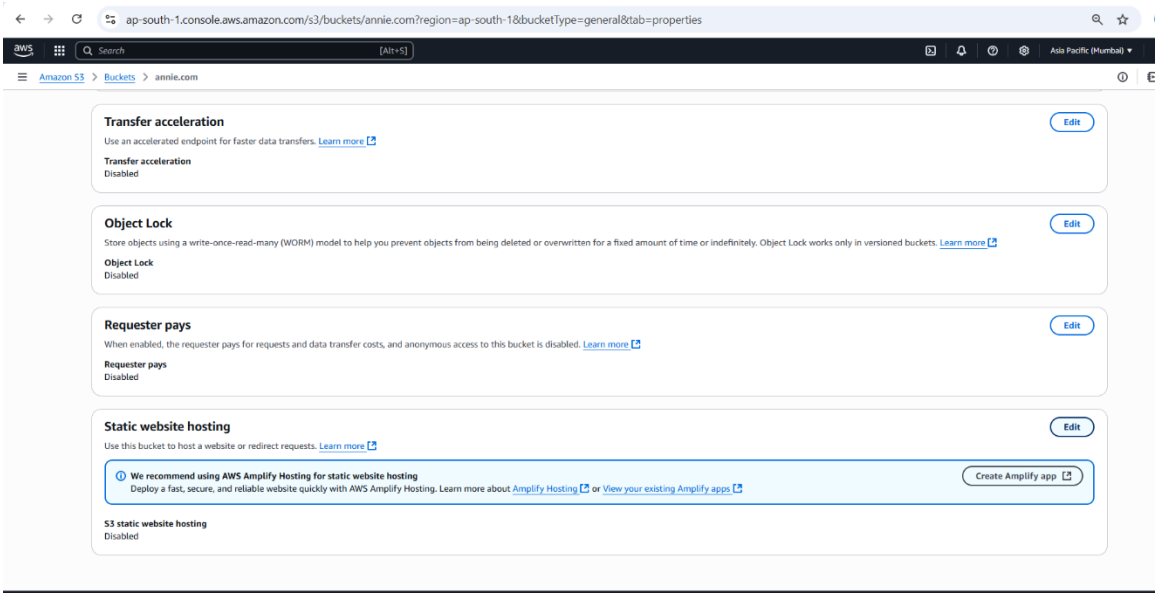
2. Choose object ownership as bucket owner preferred->uncheck the radio button of block all public access->accept the Acknowledgement and create bucket.



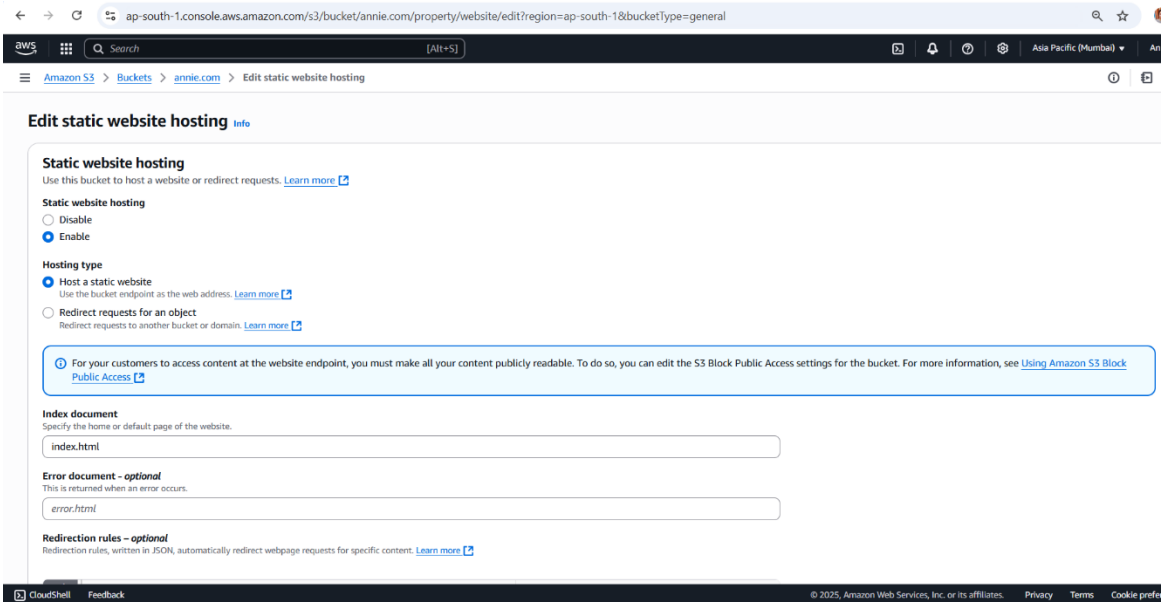
3. Open the bucket->Upload html document(eg:index.html) for static web hosting.



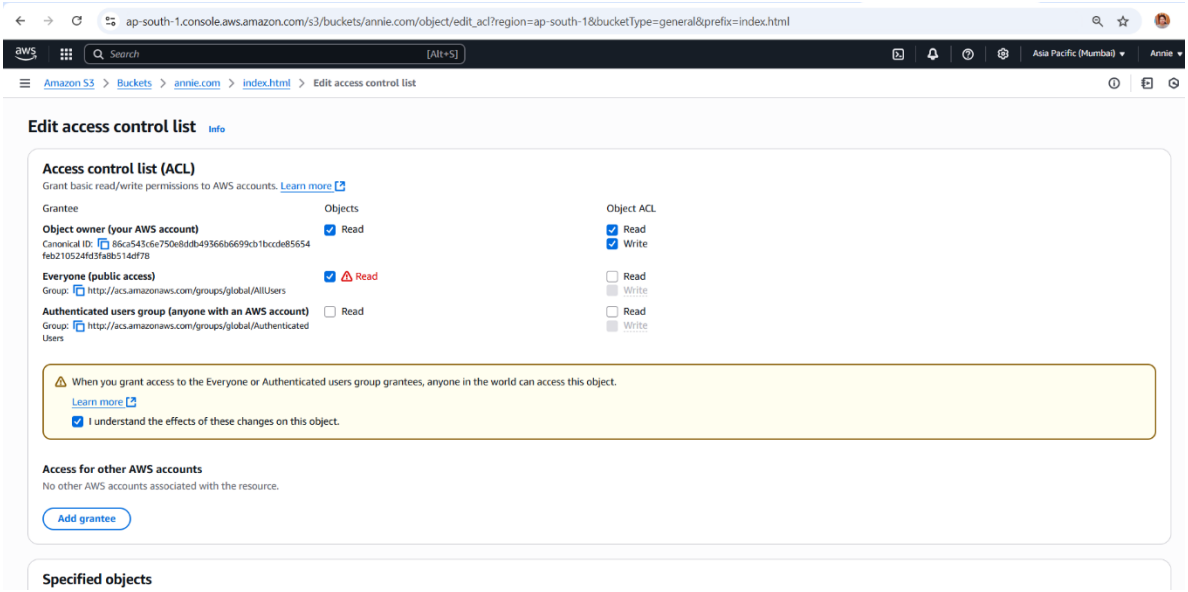
4. Open your created bucket (eg: wipro.com) go to **Properties**-> Static web Hosting->click on edit.



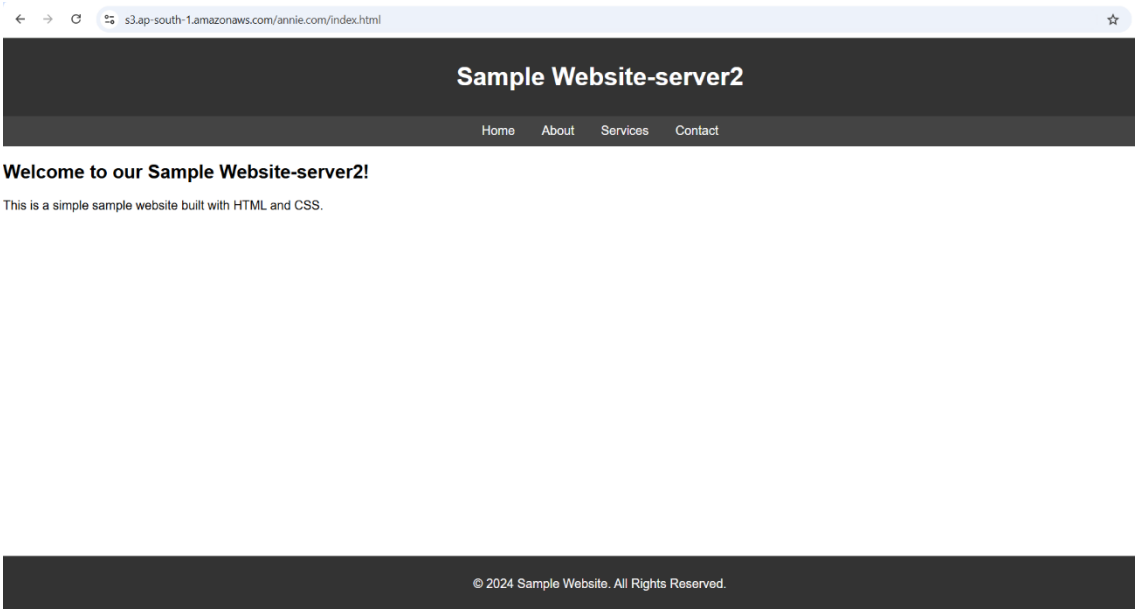
5. Enable the static web hosting->give the name of the html document that has uploaded in the bucket (eg: index.html)->save changes.



6. Open the object->go to permission->edit access control list for object give permission->save changes.



7. Reload the browser.



➢ Conclusion

Deploying a static website using Amazon S3 provides a cost-effective, scalable, and highly available solution for hosting web content. By leveraging AWS S3 for storage and integrating with services such as CloudFront for content delivery, Route 53 for DNS management, and IAM for secure access, organizations can ensure their websites are both fast and secure.

Cloud-based scalability is achieved seamlessly through S3's inherent design, allowing for automatic handling of traffic spikes without the need for manual

intervention. This approach reduces operational complexity, lowers maintenance costs, and delivers a reliable user experience at scale.

Overall, hosting static websites on AWS S3 is an ideal solution for businesses seeking to combine simplicity, performance, and scalability in their web architecture.