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Practical No: 3

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Aim: To understand and demonstrate the use of AWS S3

- 1. What is S3?
- 2. Explain uses of S3
- 3. Deployment of static website on AWS S3 [Screenshots and steps are required]

Ans 1:

Amazon S3, or Simple Storage Service, is a cloud-based object storage service offered by Amazon Web Services (AWS). It allows users to store and retrieve any amount of data, from anywhere, via the internet. S3 is highly scalable, durable, and secure, making it suitable for a wide range of applications

Ans 2:

Uses of S3:

1. Data Storage & Backup

- Store files (documents, images, videos) in buckets.
- Automate backups with S3 Lifecycle Policies and Versioning.

2. Static Website Hosting

- Host static websites (HTML, CSS, JS) directly from S3.
- Integrate with **CloudFront** for CDN acceleration.

4. Big Data & Analytics

- Store logs, datasets for analysis with Athena, Redshift, EMR.
- Supports Parquet, CSV, JSON formats.

5. Application Data & Media Storage

- Store app assets (user uploads, thumbnails).
- Serve media files via S3 + CloudFront.

6. Disaster Recovery (DR)

- Cross-region replication (S3 CRR) for failover.
- Store critical backups offsite.

7. DevOps & CI/CD

- Store build artifacts (Docker images, Lambda code).
- Use with AWS CodePipeline, CodeBuild.

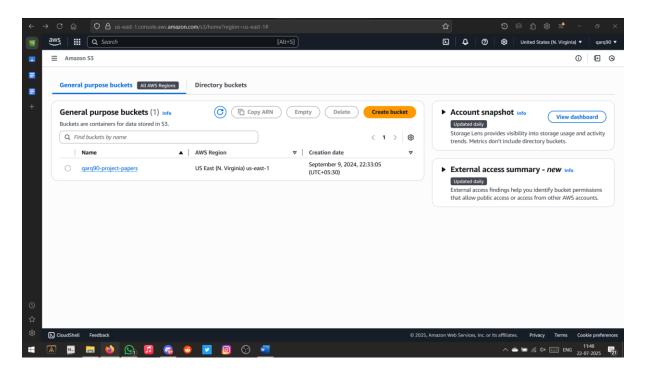
8. Security & Compliance

- Encryption (SSE-S3, SSE-KMS, SSE-C) for data protection.
- Access Control (IAM, Bucket Policies, ACLs).
- Audit logs via AWS CloudTrail.

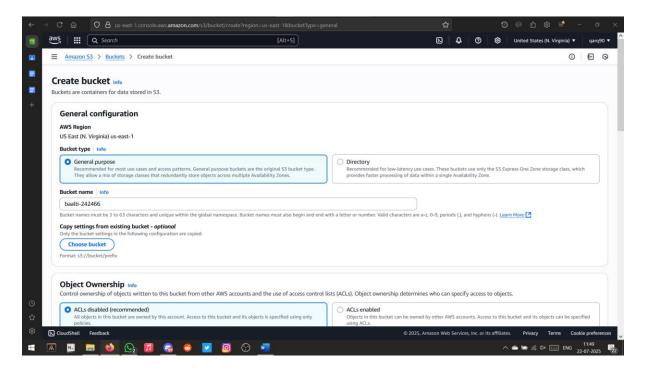
10. Hybrid & Multi-Cloud Storage

- AWS Storage Gateway for on-premises access.
- S3-compatible APIs for multi-cloud use.

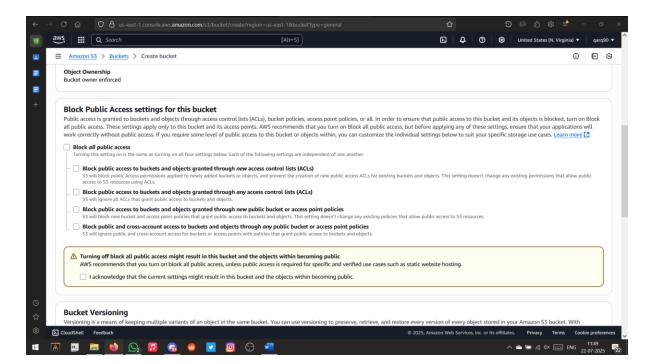
<u>Ans 3:</u>



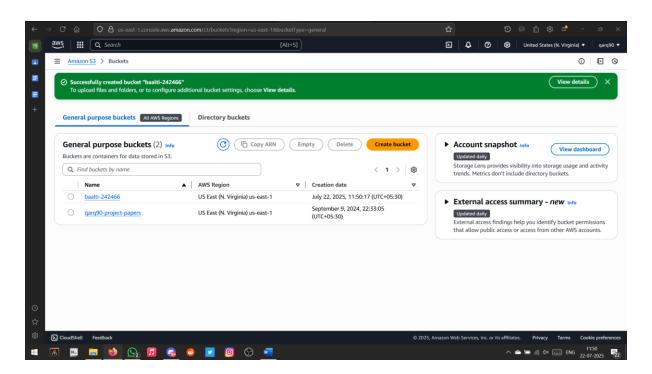
Opened S3 Buckets Page



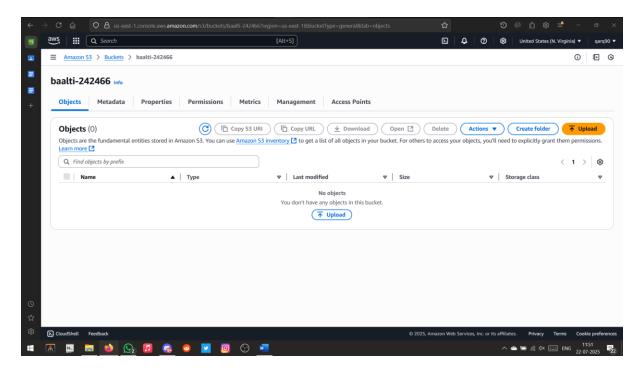
Setting bucket name



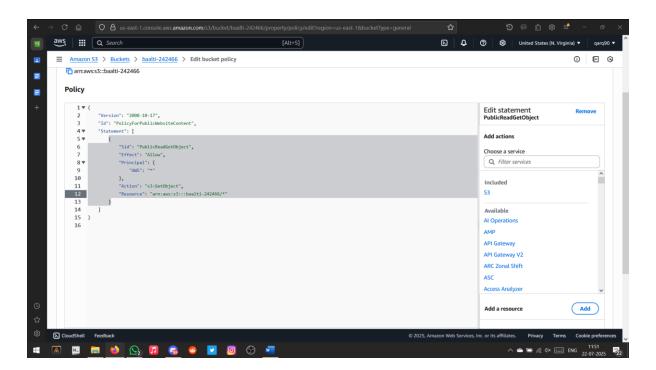
Policies for public access



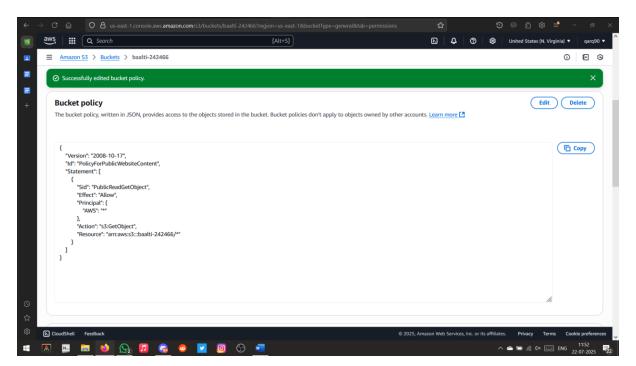
Bucket created successfully



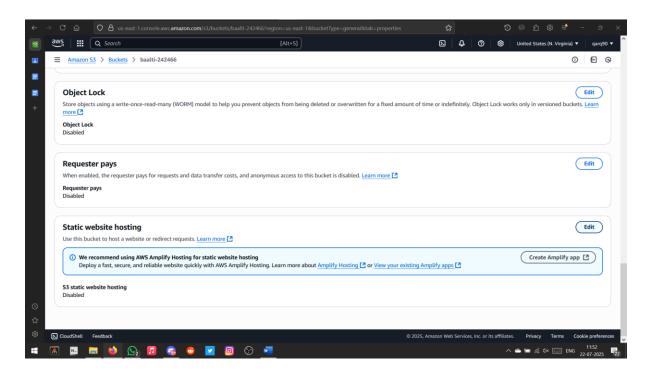
Opened 'baalti-242466' bucket



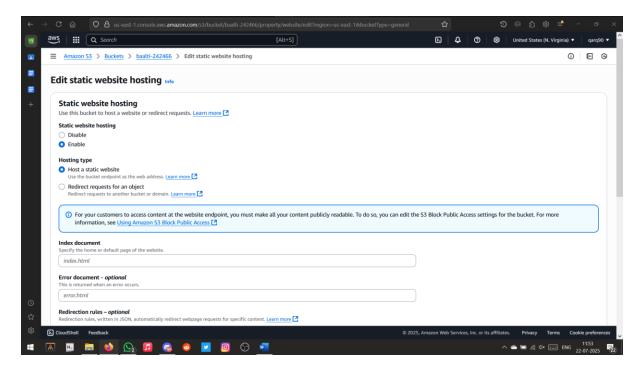
Setting up the bucket policies



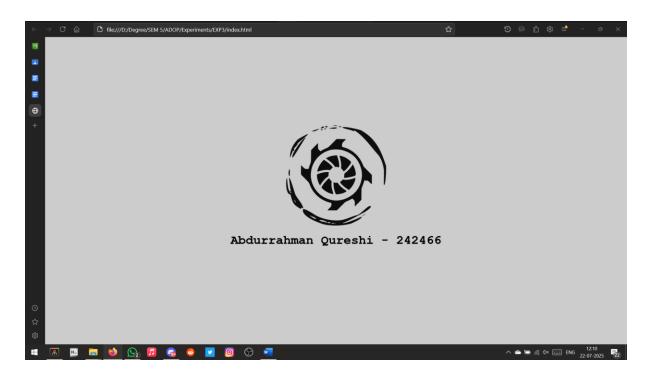
Policies Updated Successfully



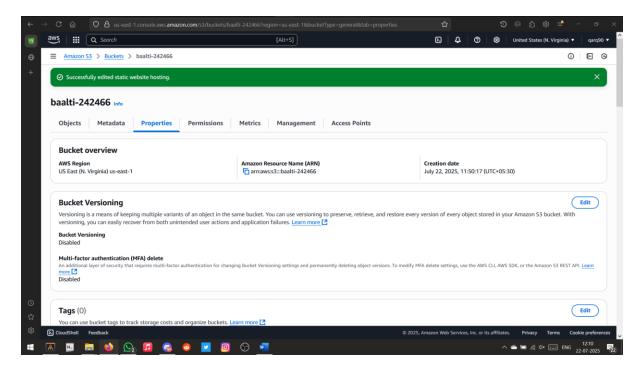
Setting up static website hosting policies



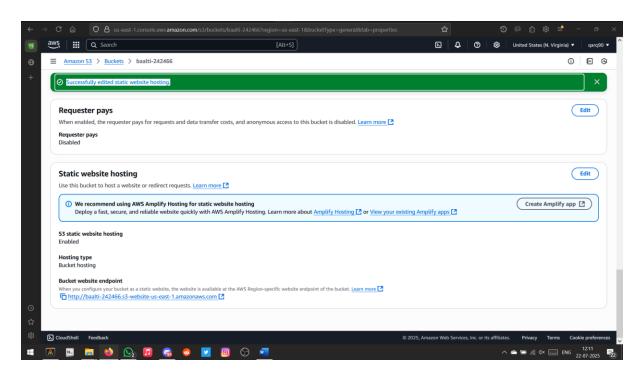
Allowing static website hosting



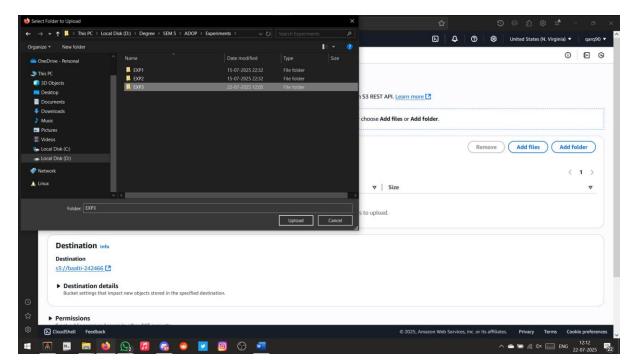
Static Page created



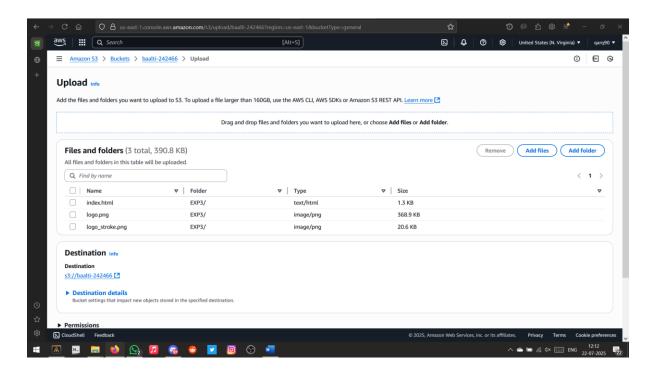
Successfully edited static website hosting



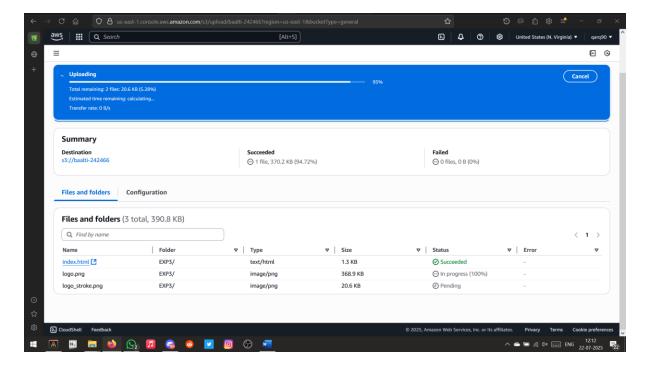
Hosted URL



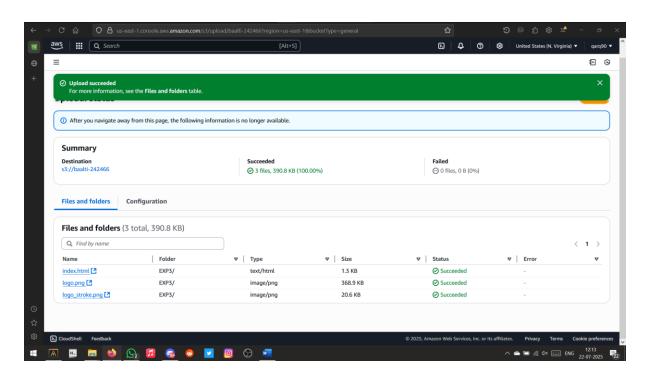
Uploading website code



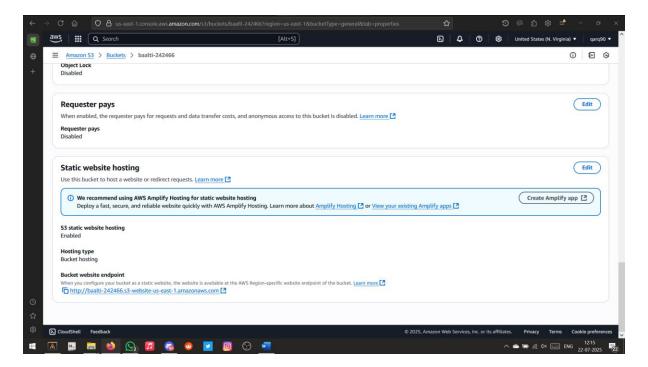
Files Uploaded Successfully



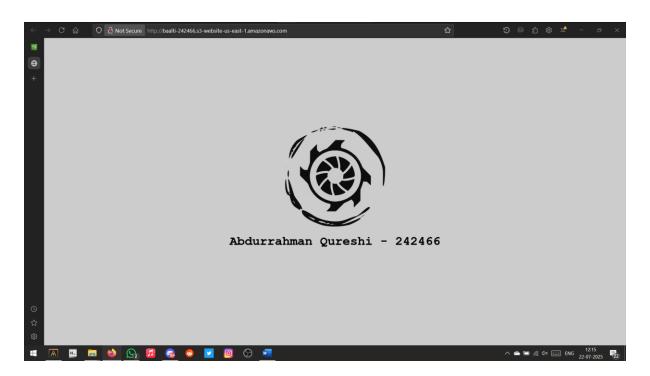
Uploading Files



File uploaded Successfully



URL Generated



Deployed Website