Basic Labs

S3 Storage Fundamentals Lab

Objective:

To gain hands-on experience with Amazon S3 by performing basic storage operations.

Approach:

This lab involves creating an S3 bucket, uploading files to it, and setting up bucket policies for access control. Students will explore the S3 management console, learn about object storage, and understand the concepts of buckets and objects.

Goal:

Students will understand how to use S3 for storing and managing data, learn about S3 security and permissions, and become familiar with S3's user interface.

1. AWS Landing Page

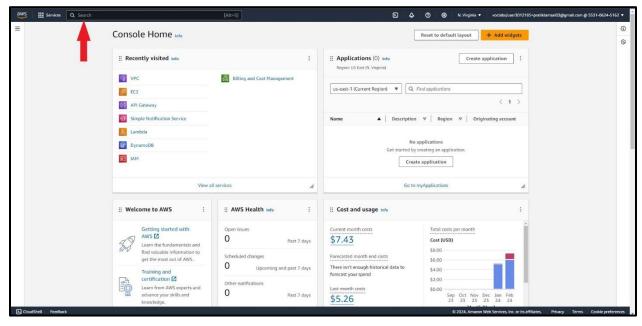


Figure 1 Landing Page

2. Searching for S3

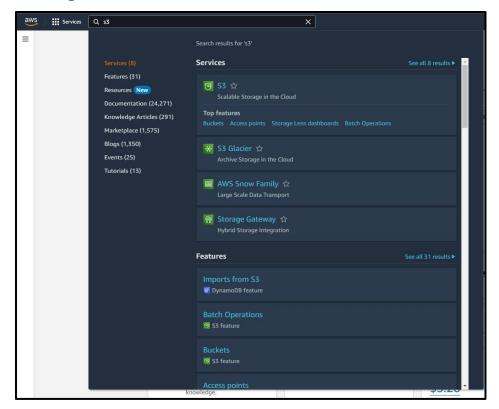


Figure 2 S3 search

3. Creating a bucket

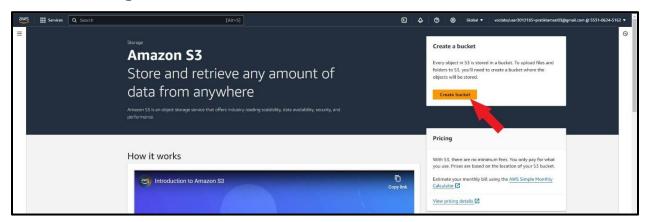


Figure 3 Bucket Creation

4. Naming the bucket

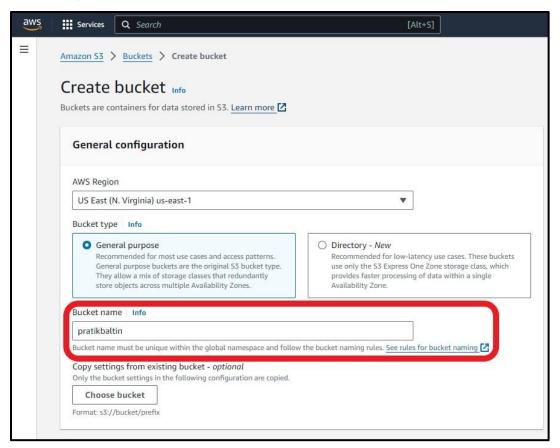


Figure 4 Naming the Bucket

5. Object Ownership

ACL is enabled and Object Ownership is assigned.

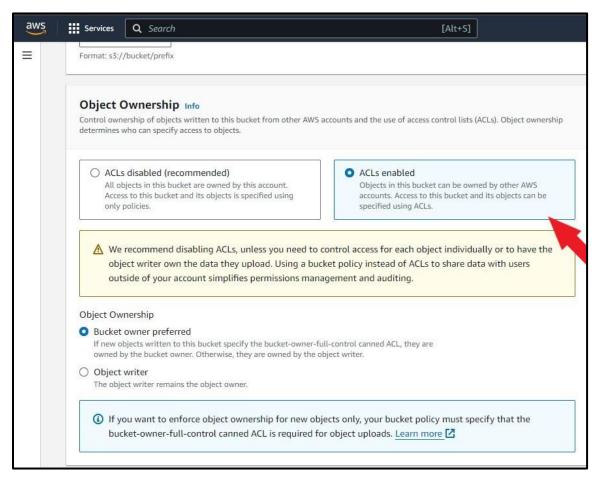


Figure 5 Object Ownership

6. Public Access Settings

All public access is blocked for the bucket.

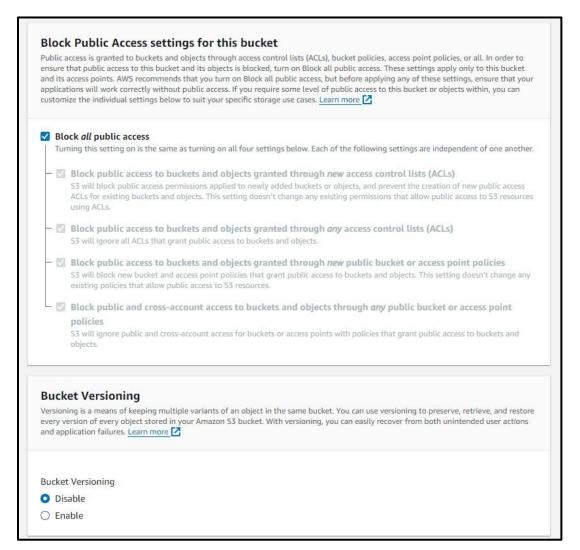


Figure 6 Bucket Public Access Settings

7. Bucket Creation

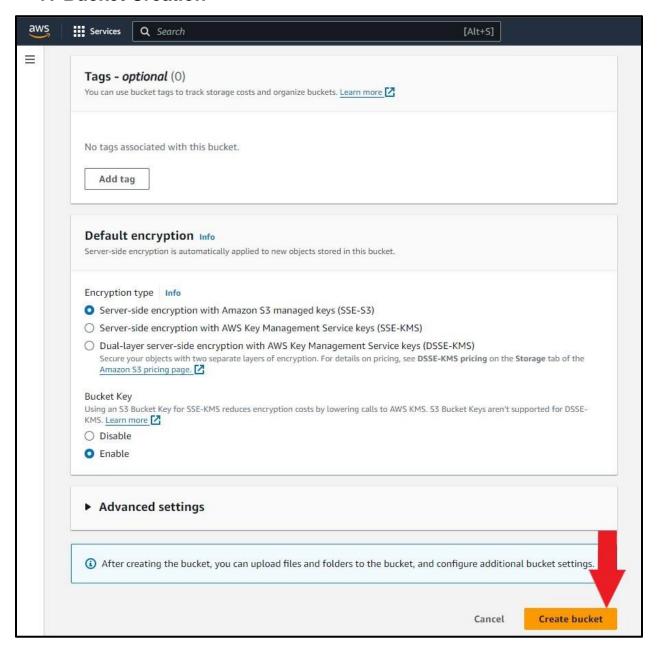


Figure 7 Bucket Creation

8. Successful Bucket Creation

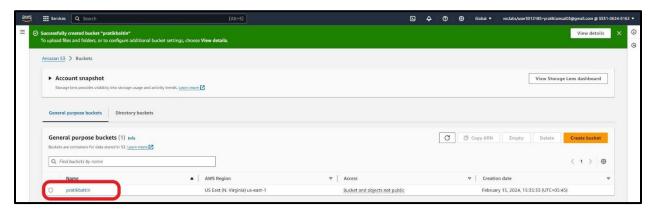


Figure 8 Successful Bucket Creation

9. Empty Bucket

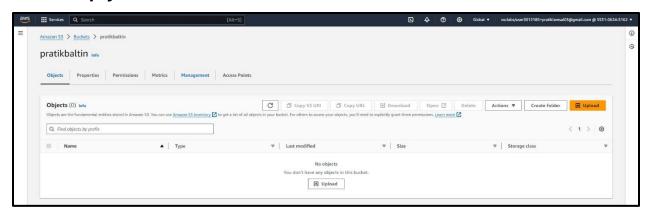


Figure 9 Empty Bucket

10. File Upload

A file is uploaded to the empty bucket

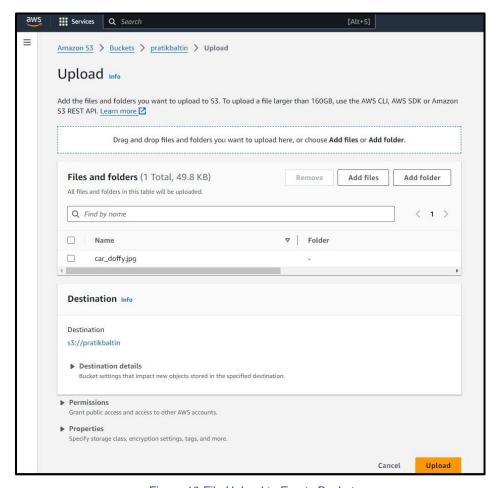


Figure 10 File Upload to Empty Bucket

11. File Successfully Uploaded

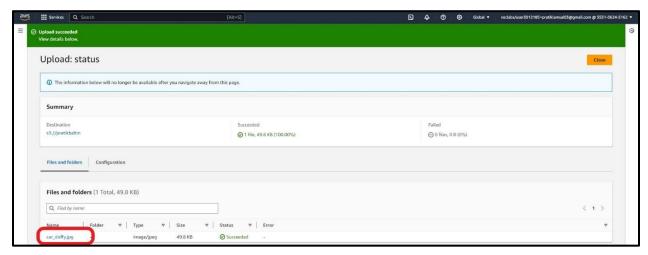


Figure 11 Successful File Upload

12. Object URL

Object URL is copied to check if the task performed is successful

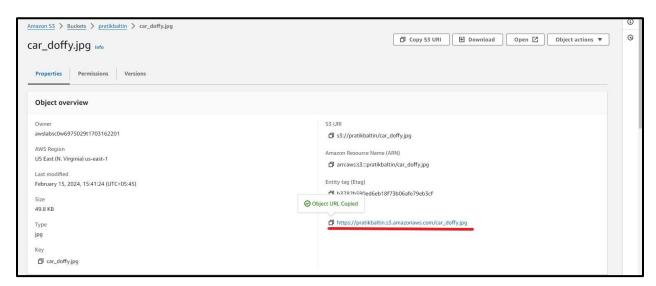


Figure 12 Copying Object URL

13. Access Denied

Figure 13 Access Denied

14. Changing Object ACL

Object ACL is changed to check if it can be accessed.

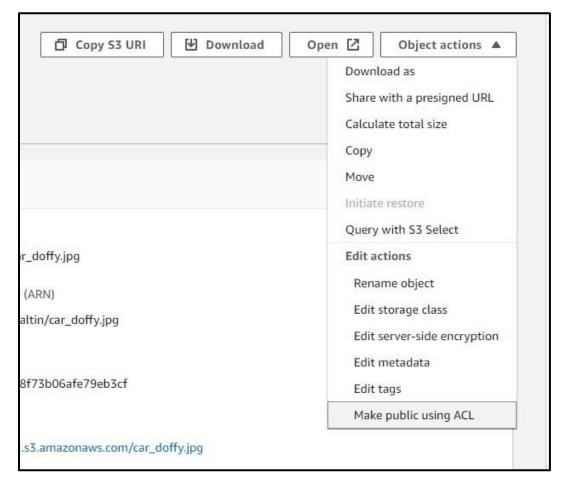


Figure 14 Changing Object ACL

15. Making Object Public

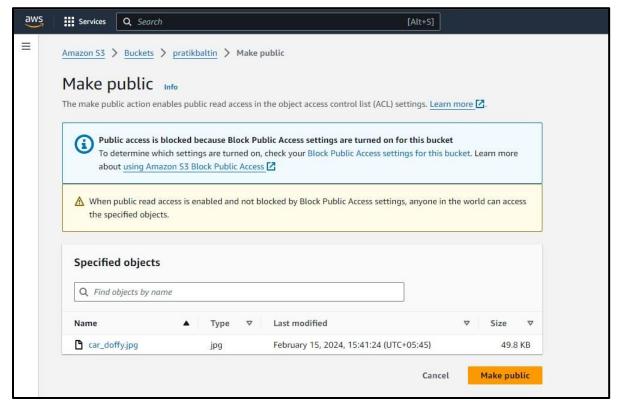


Figure 15 Making Object Public

16. Failed to Make Public

Public Access for object failed as the bucket itself has no access to public.

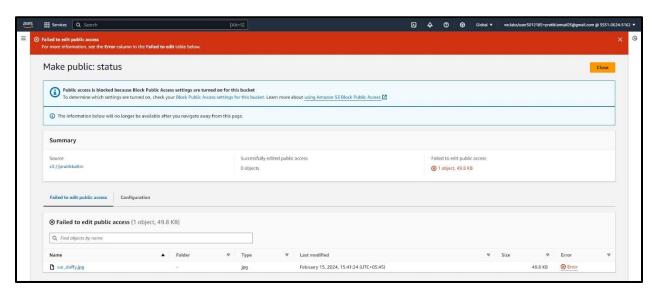


Figure 16 Failed Object Public Access

17. Bucket Public Access

Bucket Public Access is changed to allow public access.

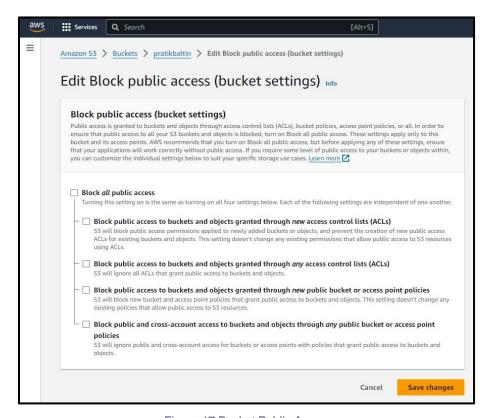


Figure 17 Bucket Public Access

18. Public Access Settings Changed

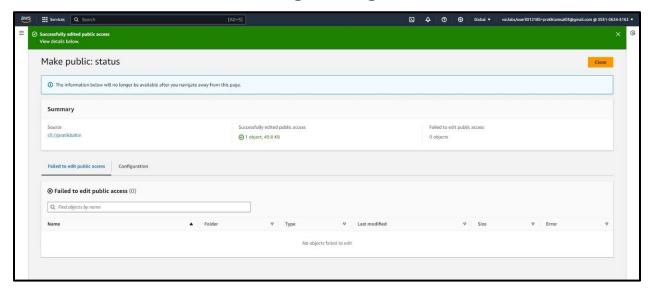


Figure 18 Successful Public Access Changed

19. Successful Upload to Bucket

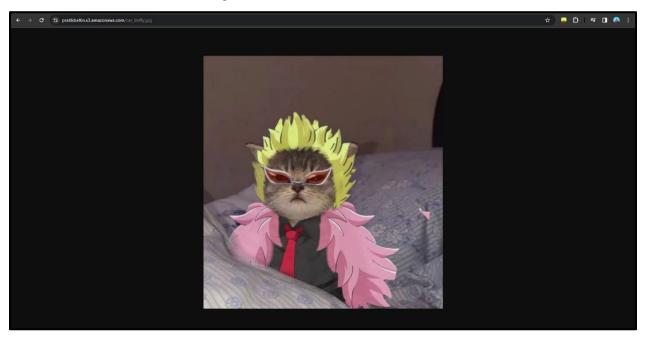


Figure 19 Successful Image Upload