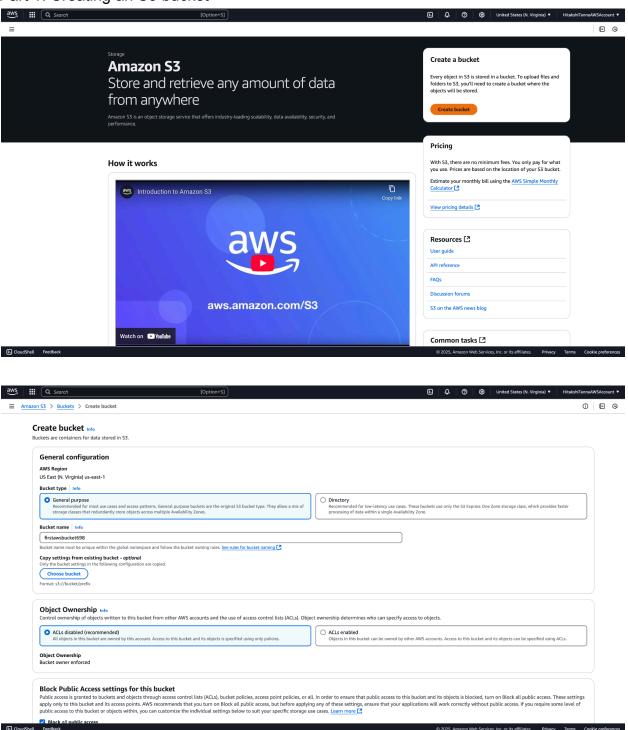
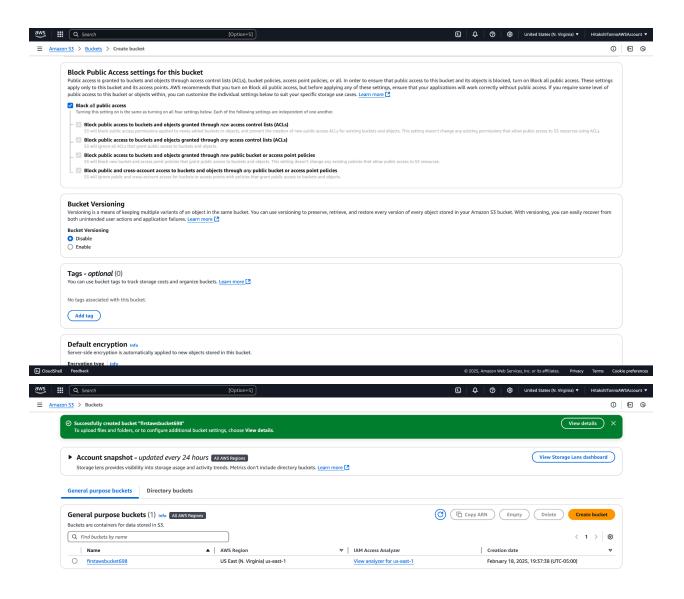
## IS 698 - Cloud Computing & Resource Management

<u>Lab 3a - Amazon S3 - Managing Buckets, Files, Access Control, and Hosting a Static</u>
Website

Part 1: Creating an S3 bucket

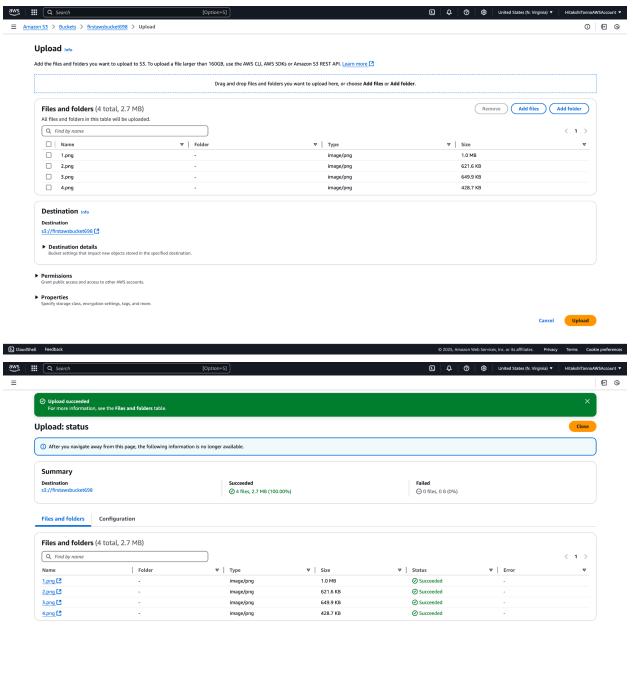




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# Part 2: Uploading a File into the S3 Bucket Via Console

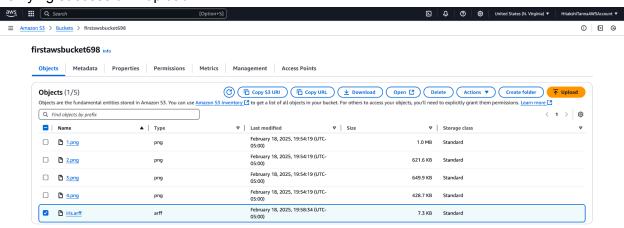
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#### Via AWS CLI

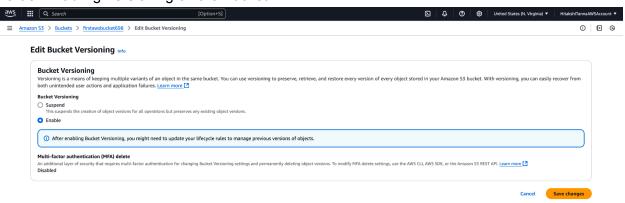


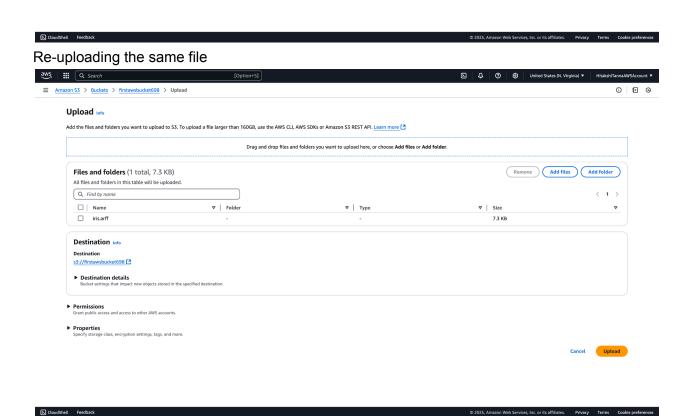
## Verifying successful fil upload



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#### Part 3: Enabling Versioning on the Bucket



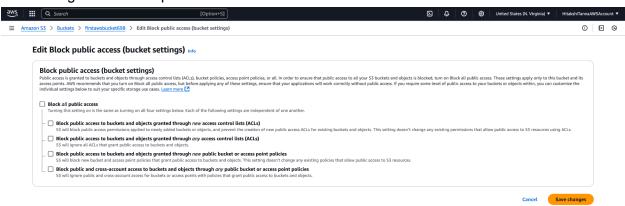


#### Versions of the re-uploaded file

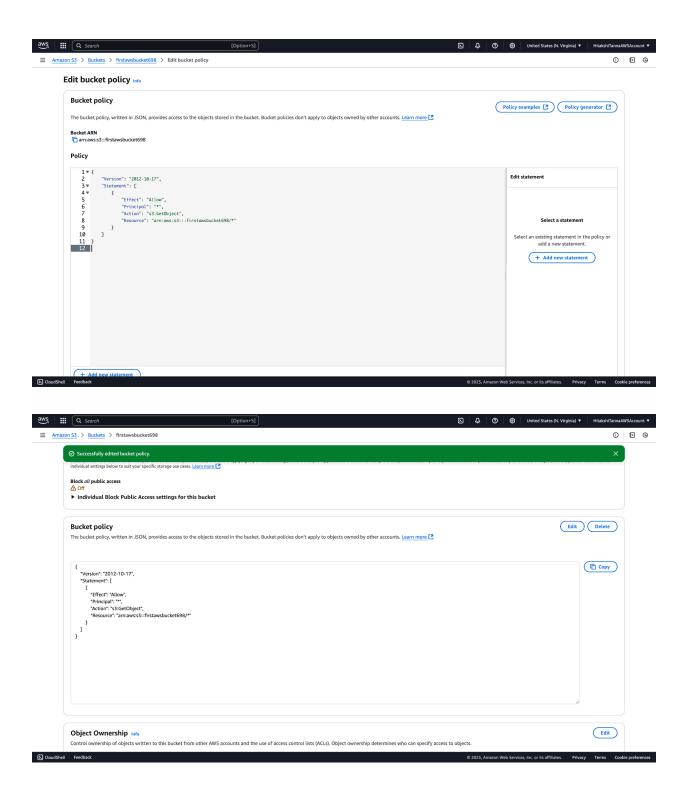




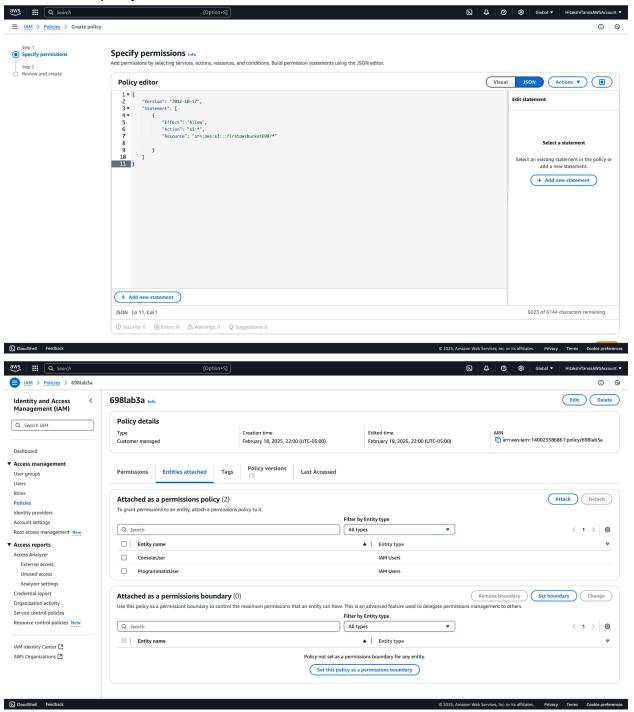
## Part 4: Creating a Bucket Policy and IAM Policy Unchecking the block all policies checkbox



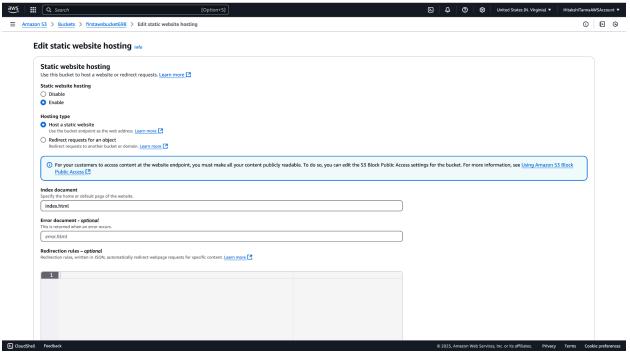
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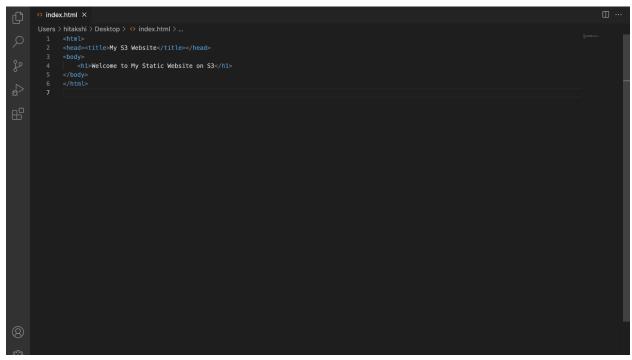
#### Create an IAM policy and attached it to users



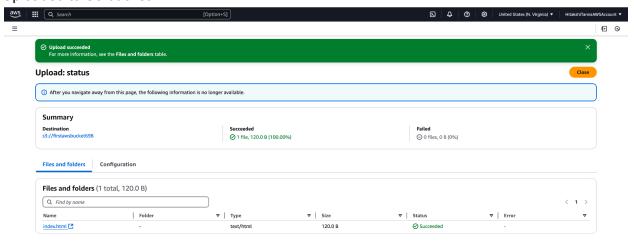
Part 5: Hosting a Static Website on S3 Enabled Static Website hosting



#### Index.html

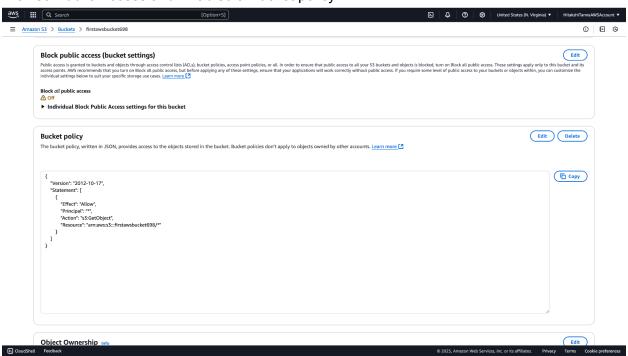


### Uploaded to S3 bucket





### Allowed Public Access and Enabled a Bucket policy



#### Accessed the Website



Welcome to My Static Website on  ${\bf S3}$ 

#### Summary:

This lab involved managing Amazon S3 by creating a bucket, uploading files, configuring access control, enabling versioning, and hosting a static website. The process began with creating an S3 bucket in the AWS Management Console, ensuring a globally unique name, and selecting a preferred region. Public access was initially blocked for security.

Files were uploaded to the S3 bucket using both the AWS Console and AWS CLI. Versioning was then enabled in the bucket settings, and a new version of the file was uploaded to verify version control. Access control was configured by creating a bucket policy to allow public read access and an IAM policy to manage permissions for specific users. One issue was encountered while creating the bucket policy, which was resolved by unchecking the Block all public access checkbox in the bucket permissions.

Finally, static website hosting was enabled by uploading an index.html file and modifying the bucket's permissions to allow public access. The website was successfully accessed using the provided Bucket Website Endpoint.