EXPERIMENT 1A

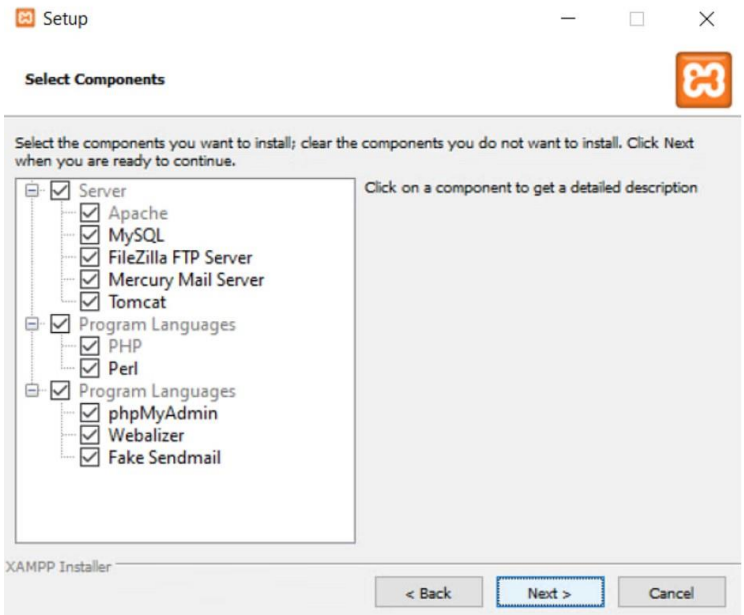
Aim: To develop a website and host it on i) local machine or virtual machine
ii) Amazon S3 Bucket

Static Hosting:

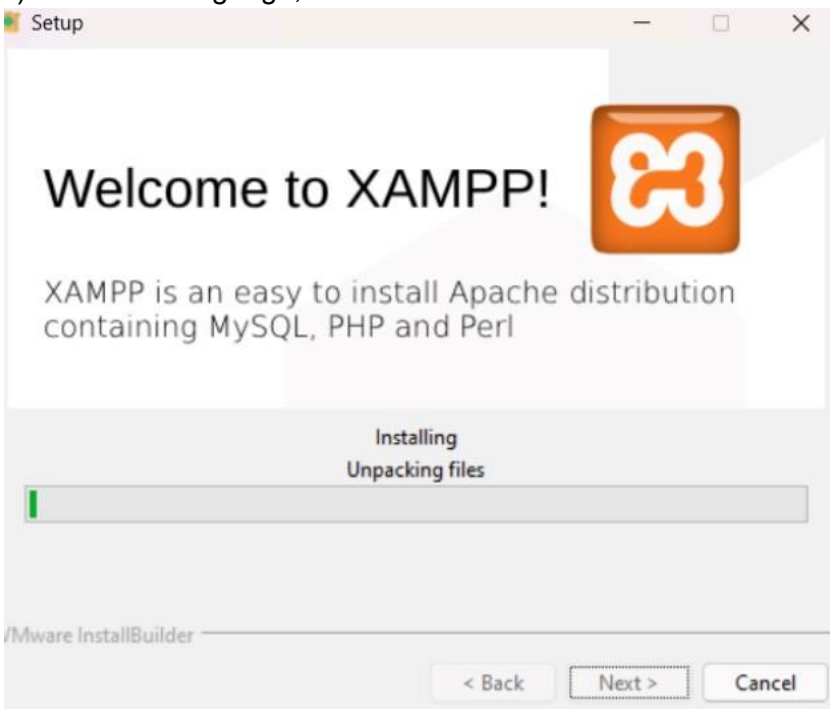
1) On local server (XAMPP)

Step 1: Install XAMPP from https://www.apachefriends.org/ .

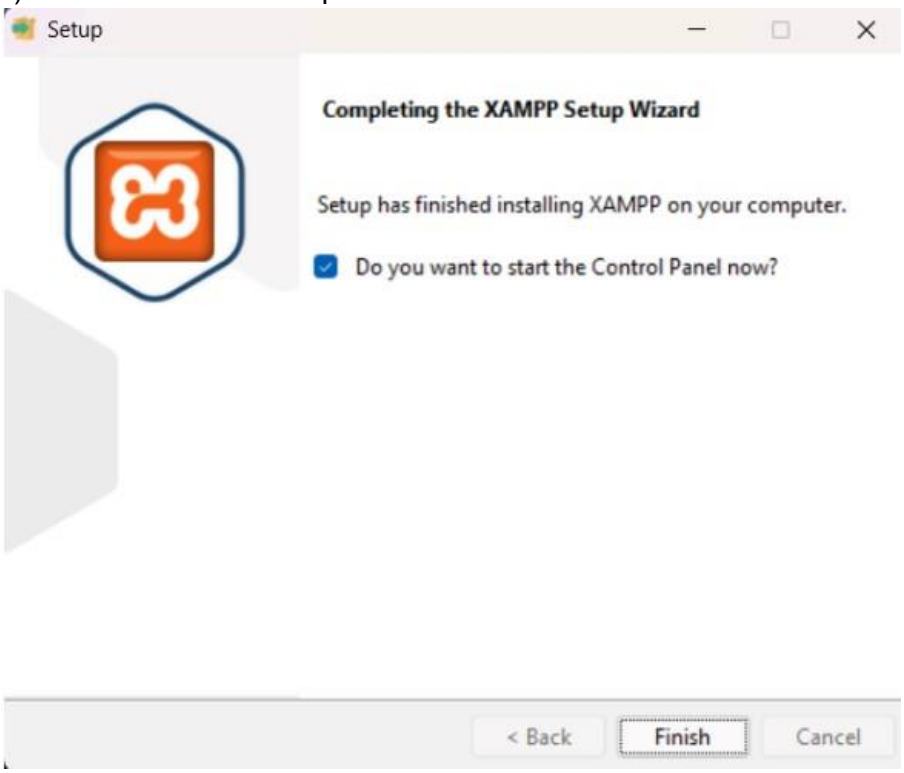
1) Select your OS. It will automatically start downloading.



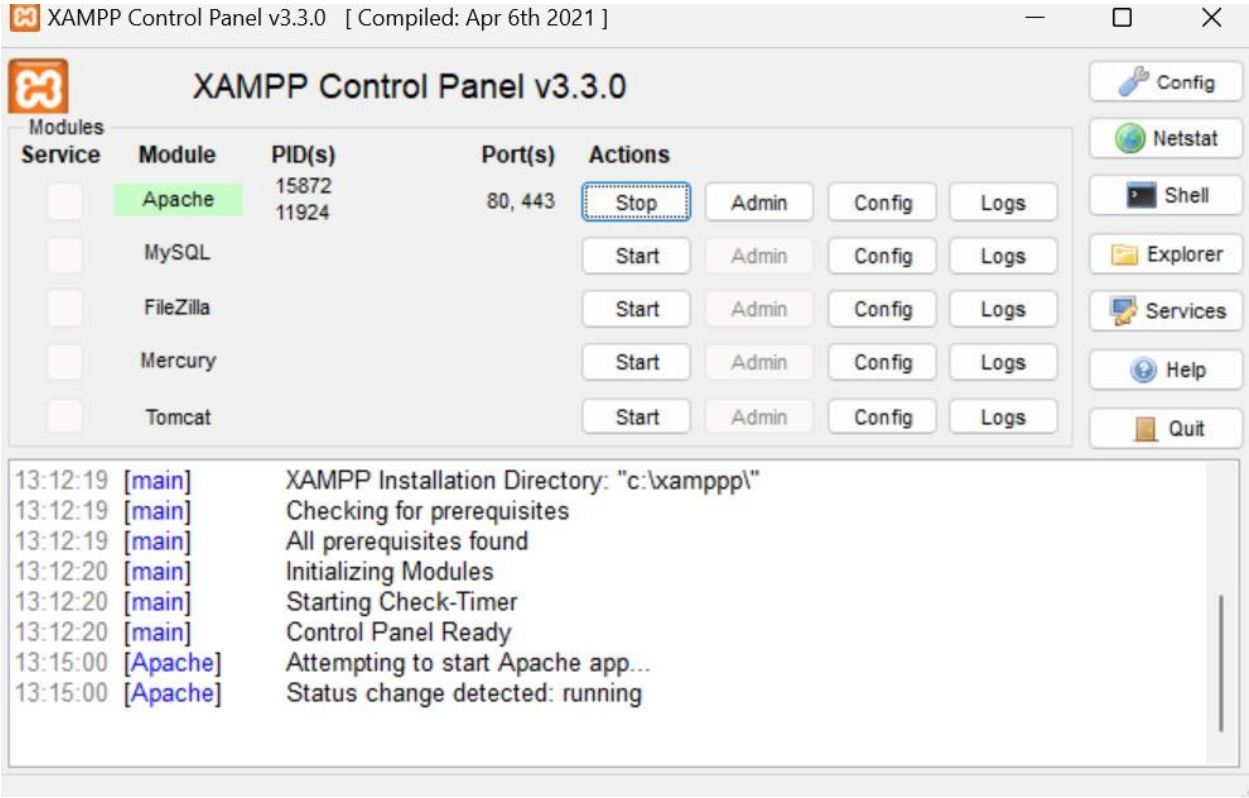
2) Open the setup file. Select all the required components and click next.
3) Select the language, click next. XAMPP starts to install.



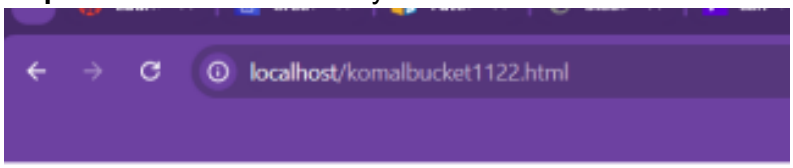
4) The installation is complete. Click Finish.



Step 2: Open XAMPP Control Panel, start the Apache service (Required) and mySQL service (if needed)

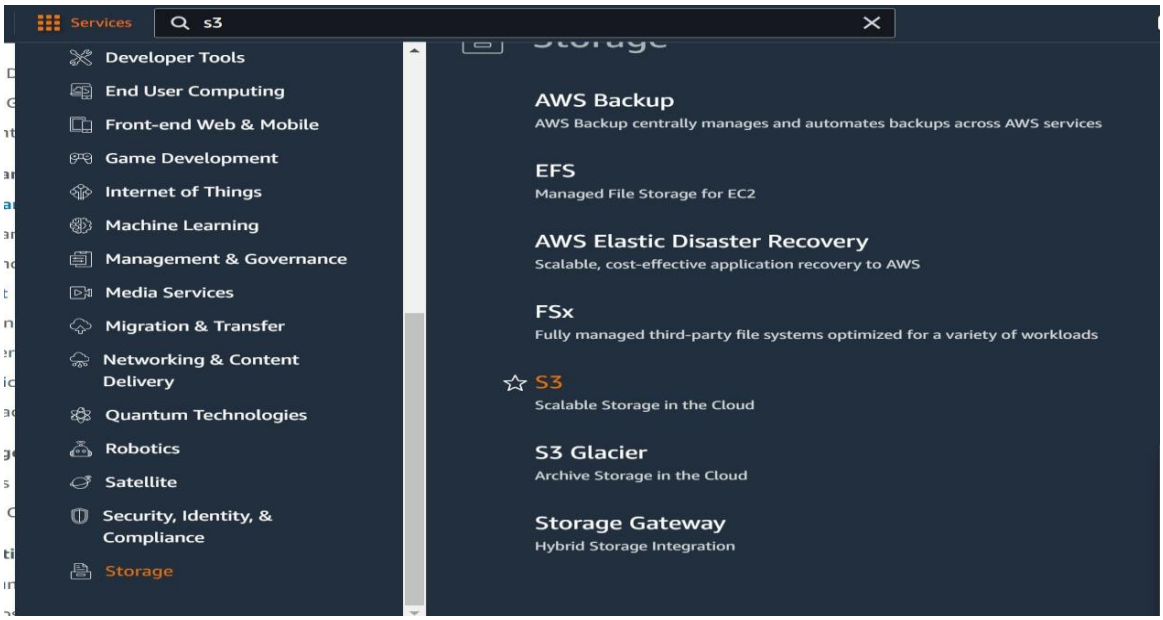


Step 3: Write an html file for your website and host it

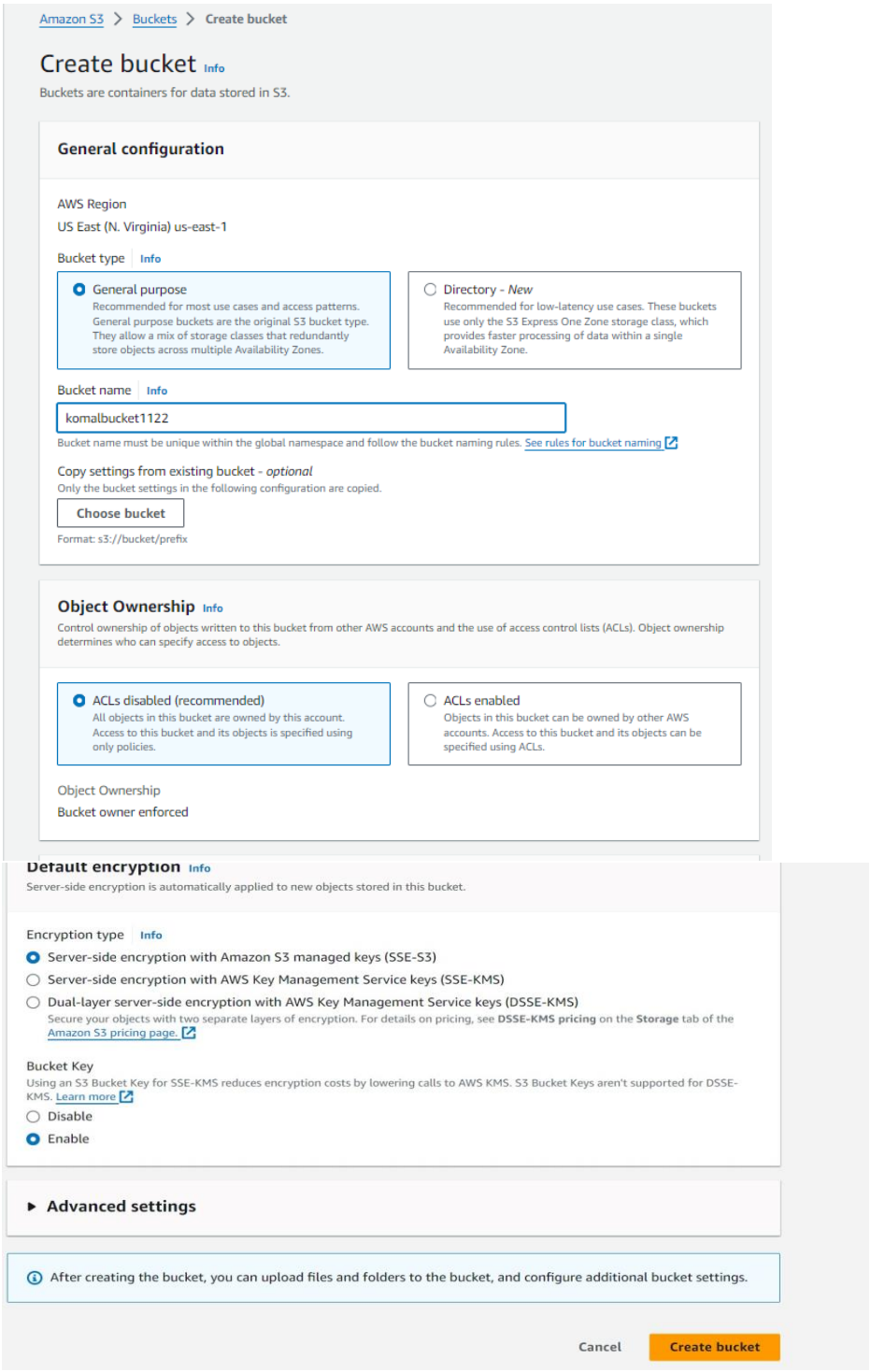


2) AWS S3

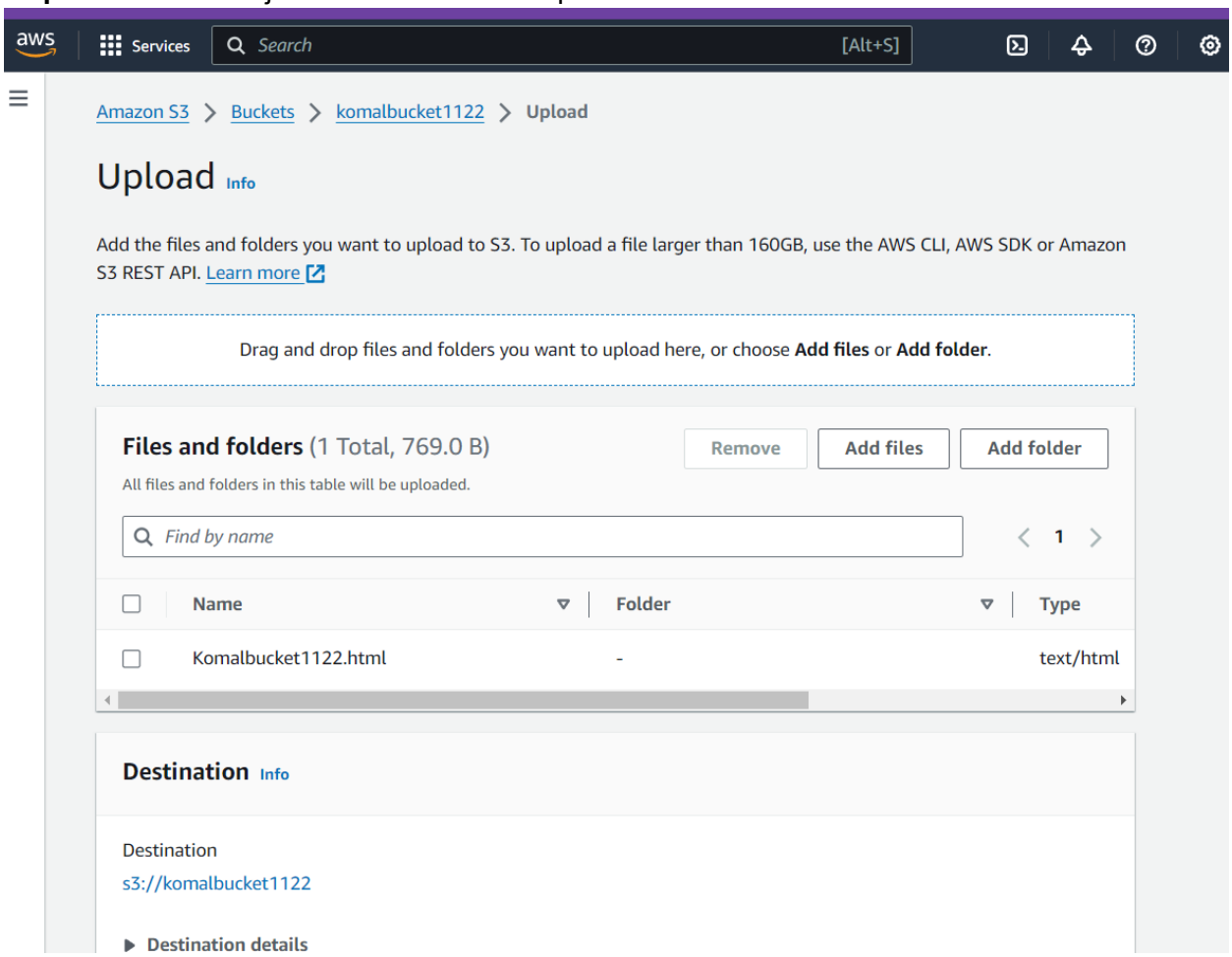
Step 1: Login to your AWS account. Go to services and open S3.



Step 2: Click on Create Bucket. Give a name to your bucket, keeping other options default, scroll down and click on Create Bucket.


Amazon S3 > Buckets > Create bucket
Create bucket Info
Buckets are containers for data stored in S3.
General configuration
AWS Region
US East (N. Virginia) us-east-1
Bucket type Info
General purpose
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.
Directory - New
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.
Bucket name Info
komalbucket1122
Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Format: s3://bucket/prefix
Object Ownership Info
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.
ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.
ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.
Object Ownership
Bucket owner enforced
Default encryption Info
Server-side encryption is automatically applied to new objects stored in this bucket.
Encryption type Info
Server-side encryption with Amazon S3 managed keys (SSE-S3)
Server-side encryption with AWS Key Management Service keys (SSE-KMS)
Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the Amazon S3 pricing page.
Bucket Key
Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more
Disable
Enable
Advanced settings
After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.
Cancel
Create bucket

Step 3: Go to the Objects tab and click on upload file.



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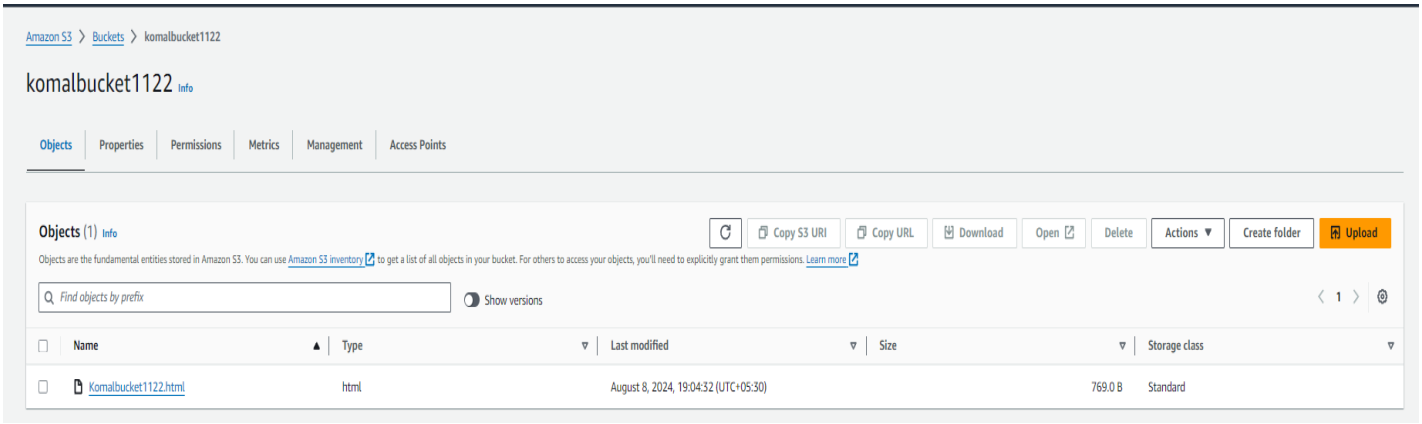
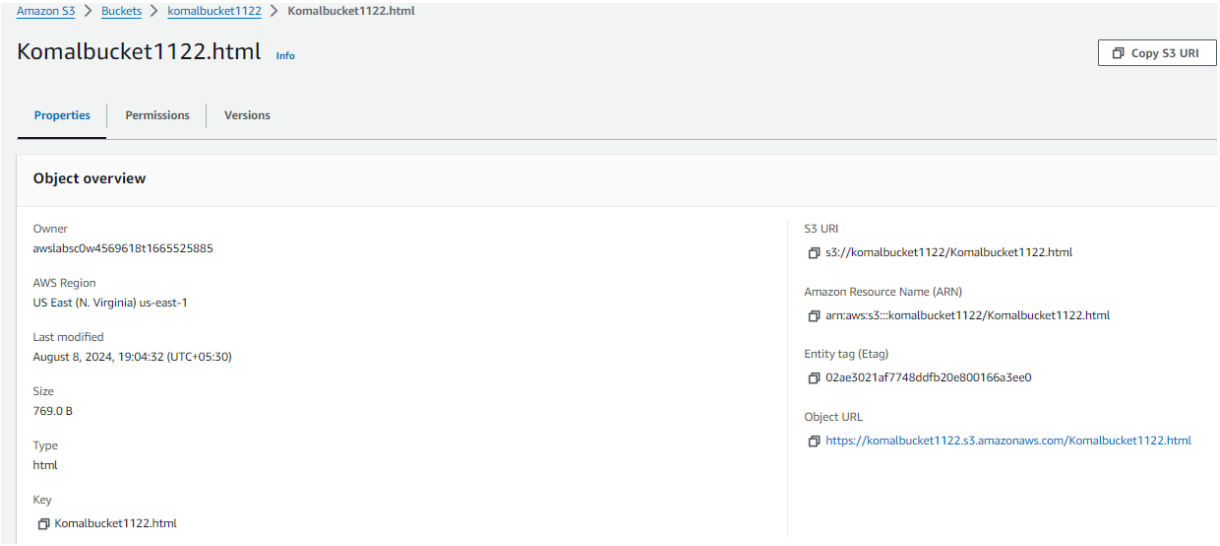
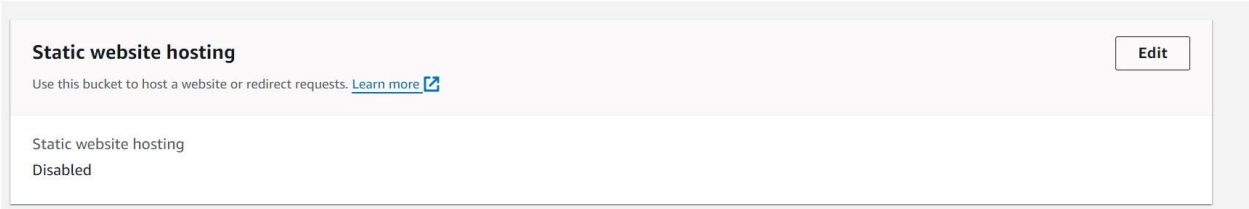
4: Click on Add files. Add all the files you want to upload. Then scroll down and click on Upload.



Step 5: This will take you to the Objects screen. Switch to Properties and scroll down to Static Website Hosting. There you would find the link (Bucket website endpoint) to your website.



6: Scroll down till you find Static website hosting, click on edit.



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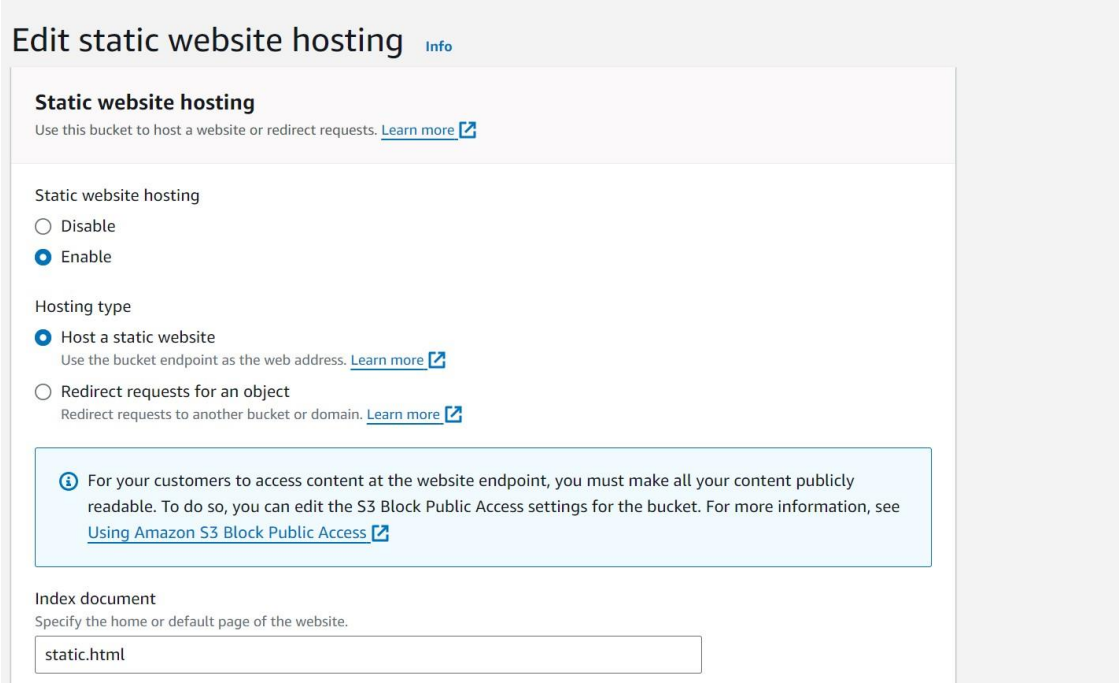
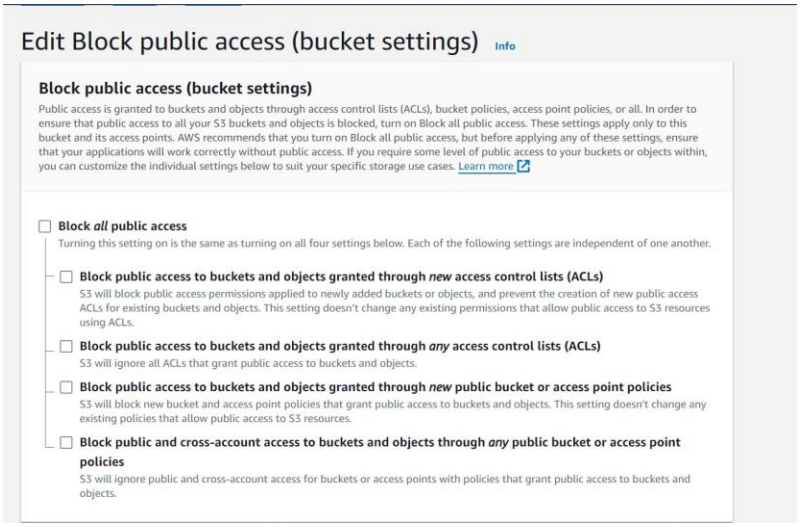
Step 7: Enable static website hosting, in Index document, write the name of your document. Save your changes.



Step 8: Uncheck the Block all public access checkbox and click on save changes.

9: Scroll down to bucket policy and click edit.



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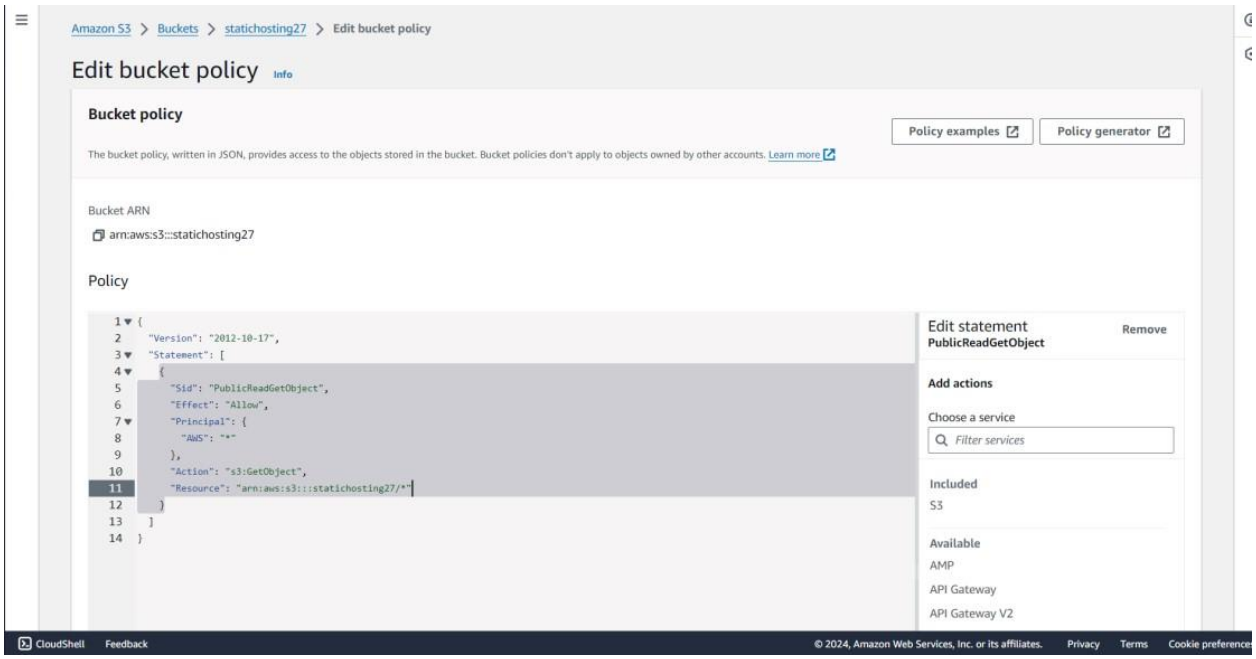

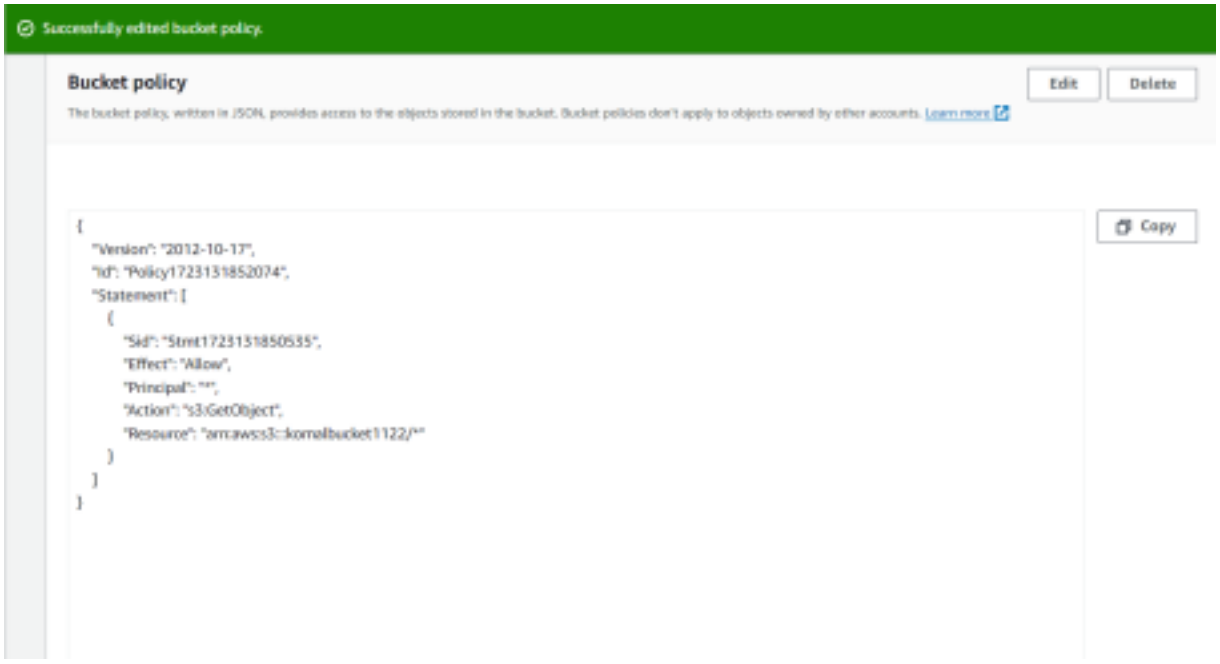

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Step 10:You can access your website now.