Cloud computing Hosting a static website in AWS using s3 bucket

Name:T Dinesh kumar

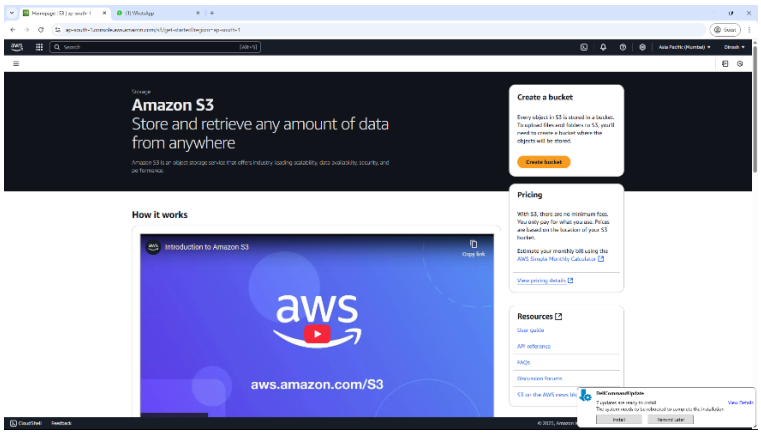
Rollno:23BIT023

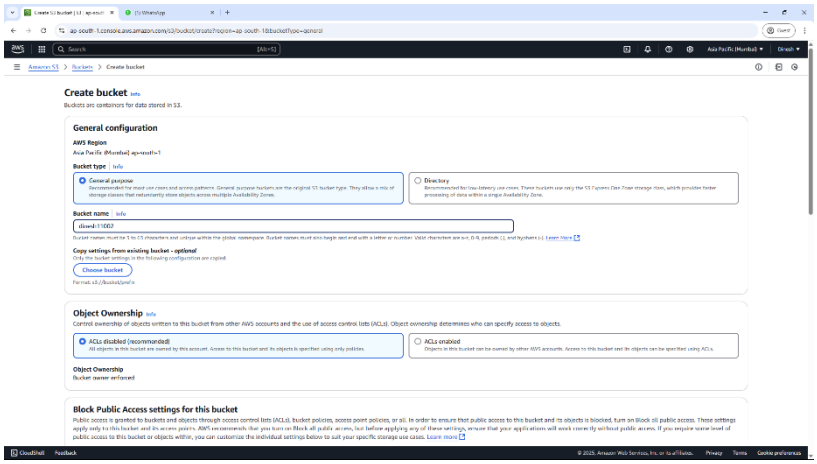
Hosting a Static Website in AWS using S3 Bucket

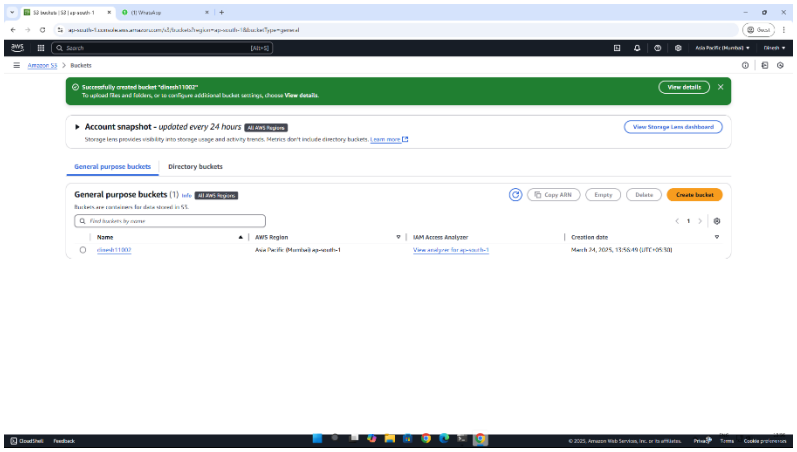
Amazon S3 (Simple Storage Service) allows you to host static websites efficiently without the need for a web server. It provides high availability, scalability, and durability. Below is a **detailed step-by-step guide** to hosting a static website using an S3 bucket.

Step 1: Create an S3 Bucket

1. Log in to your **AWS Management Console**.
2. Navigate to the **S3 service**.
3. Click on **"Create bucket"**.
4. Enter a **unique bucket name** (e.g., my-static-website).
5. Choose a region closest to your users for better performance.
6. **Uncheck** the **"Block all public access"** option so that users can access the website files.
7. Accept the default settings and click **"Create bucket"**.

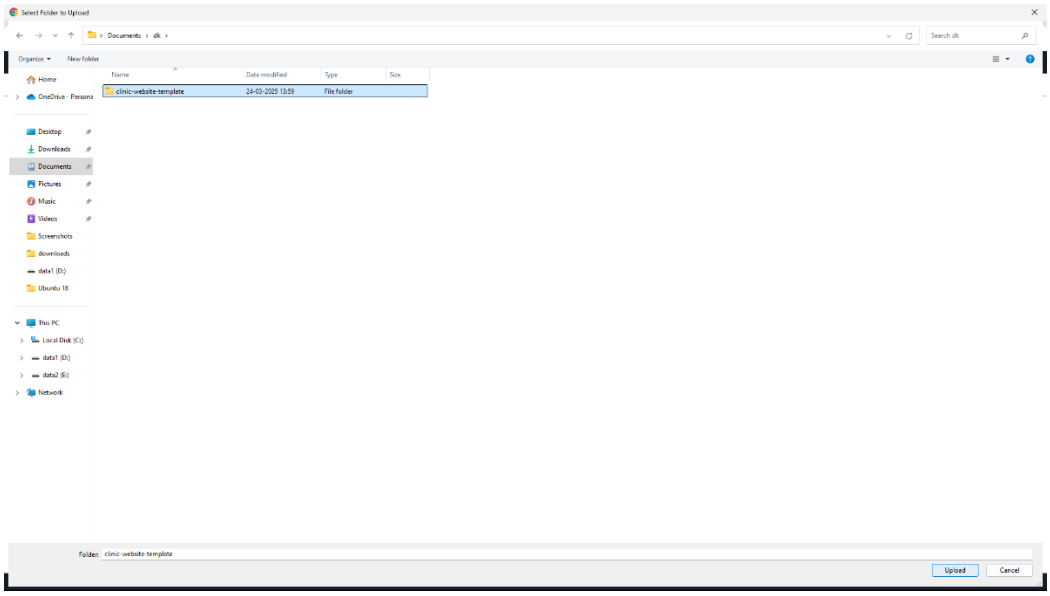


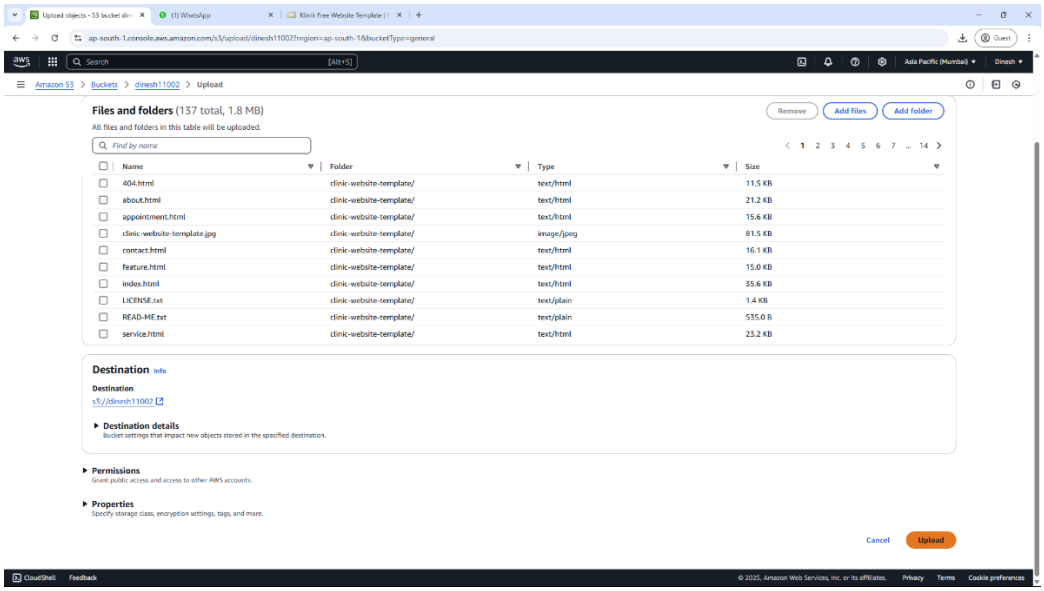


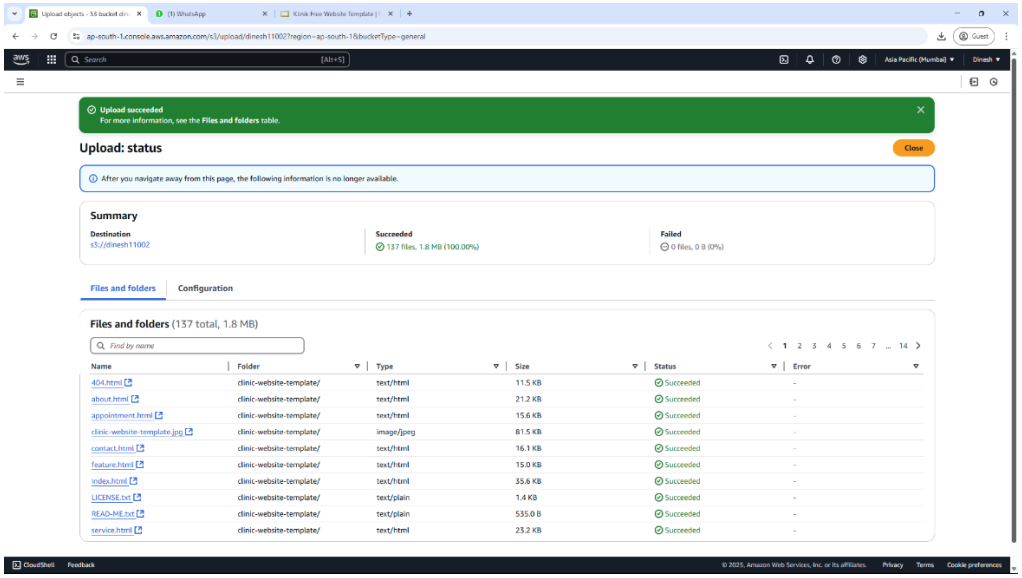


Step 2: Upload Website Files

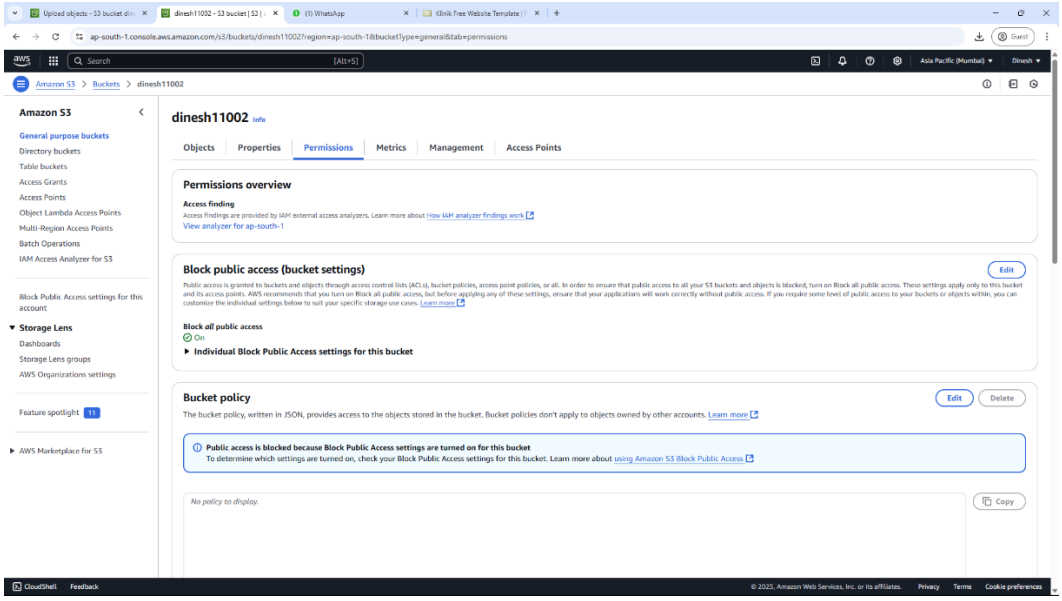
1. Go to the **Objects** tab inside your S3 bucket.
2. Click on **"Upload"** and **add your website files**, including index.html, style.css, images, and JavaScript files.
3. Click **"Upload"** and wait for the process to complete.

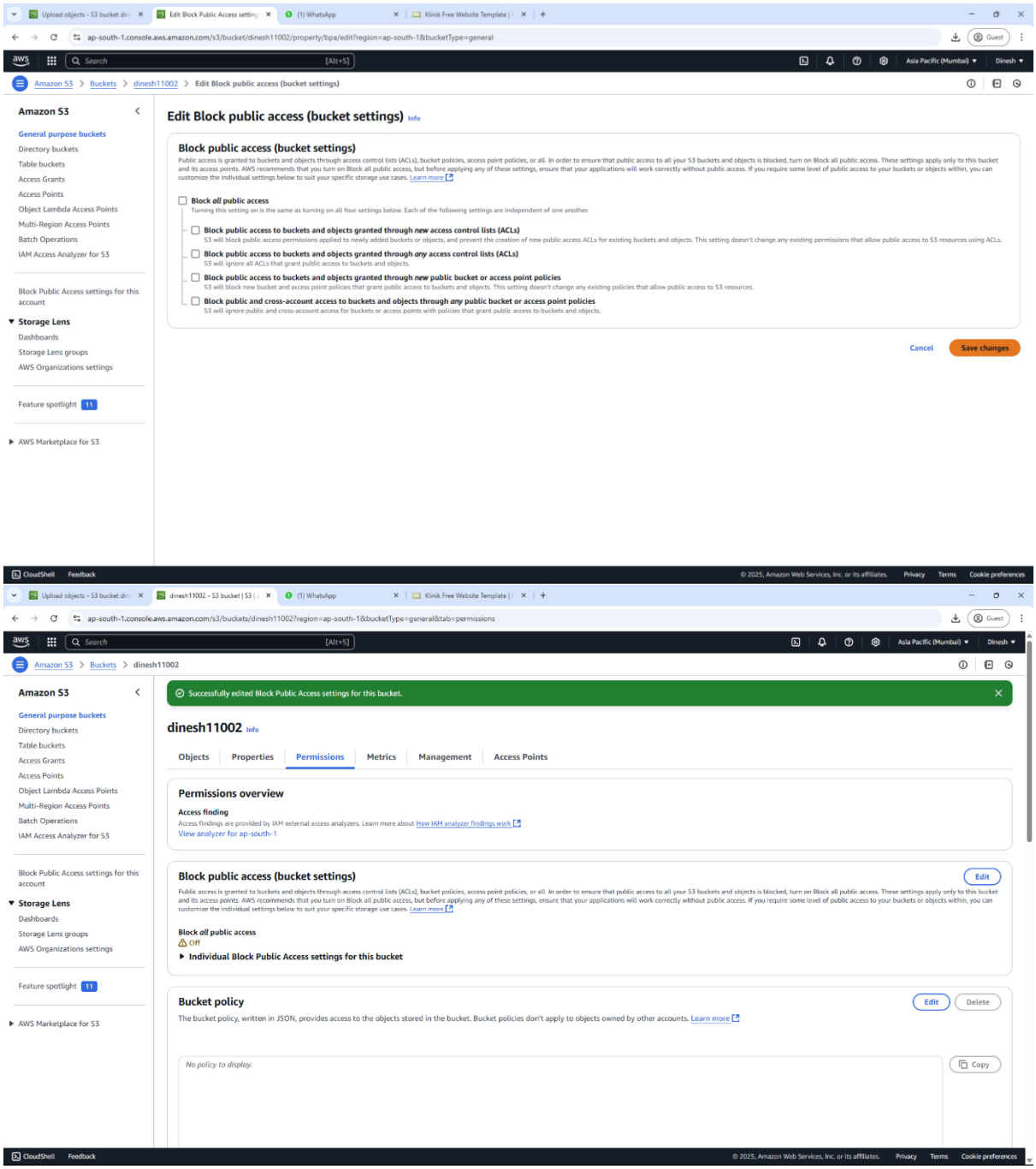






Step 3: Edit Block Public Access



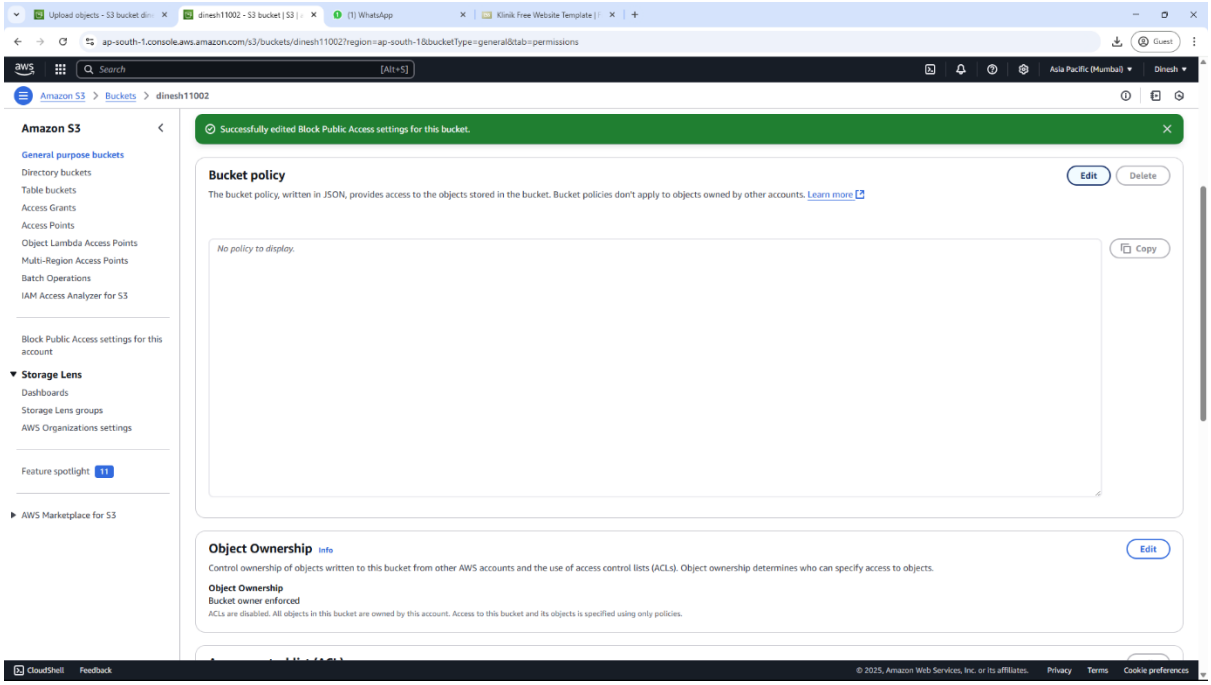


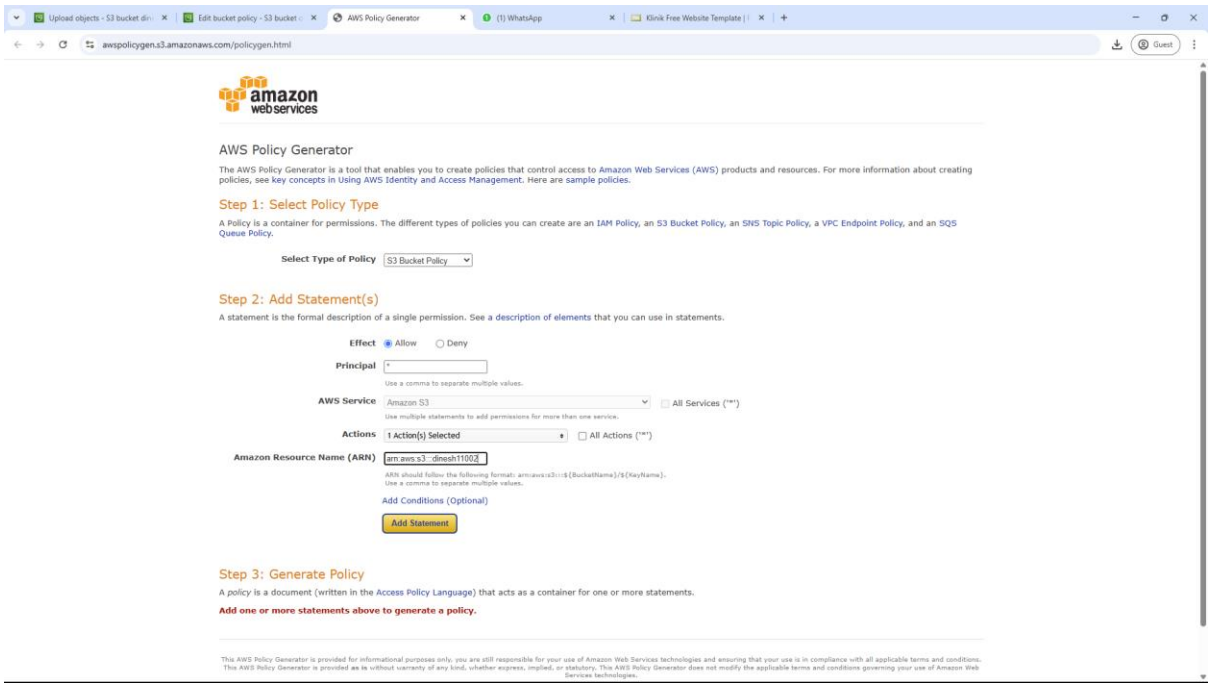
Step 4: Configure Bucket Permissions

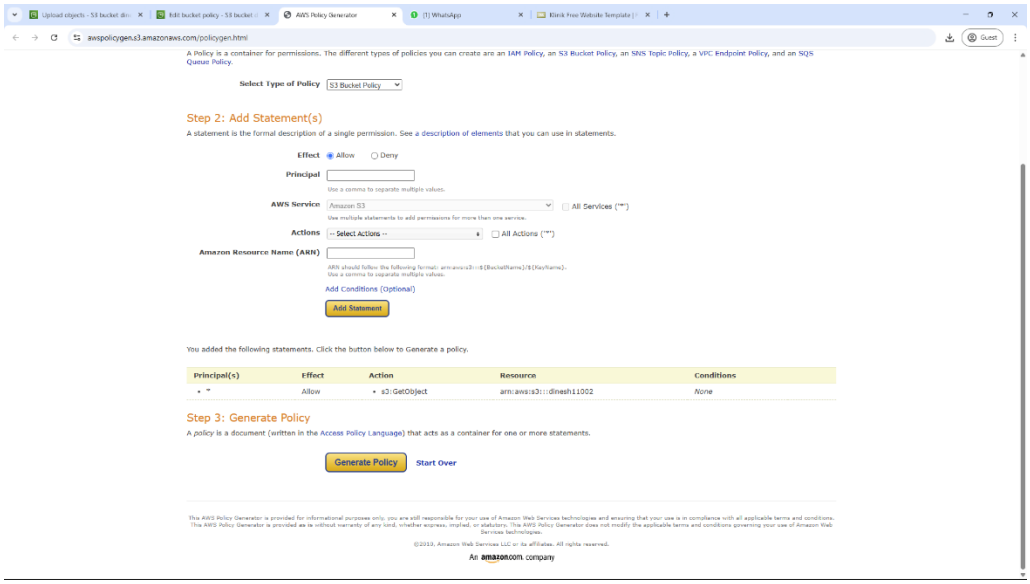
To make your website publicly accessible, you must modify the bucket policy.

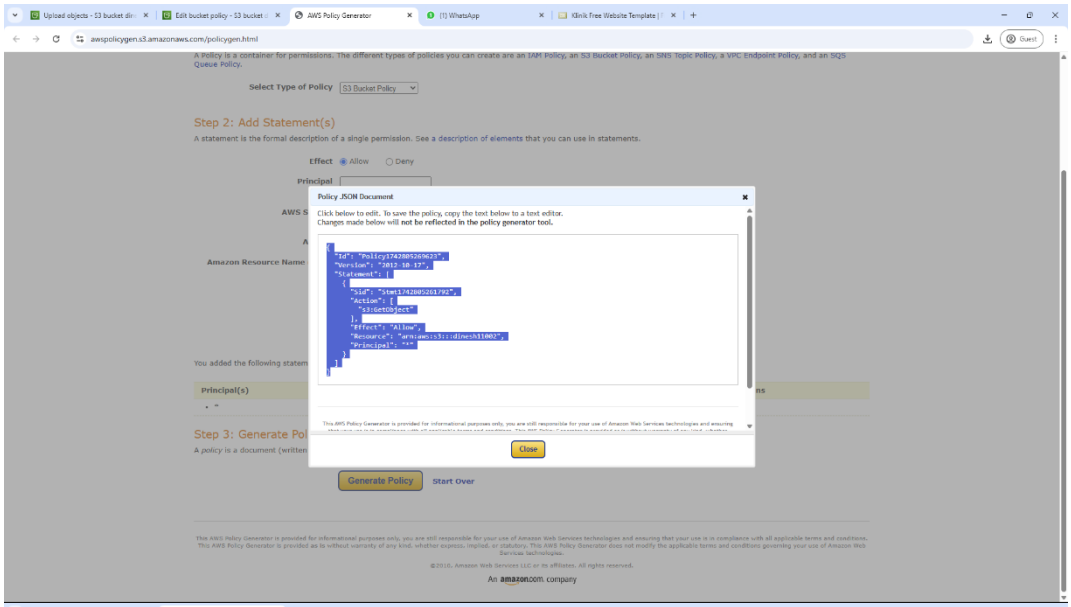
1. Navigate to the **"Permissions"** tab.
2. Scroll down to **"Bucket Policy"** and click **"Edit"**.
3. Add the JSON policy generated:
4. Replace my-static-website with your actual bucket name.
5. Click **"Save changes"**.

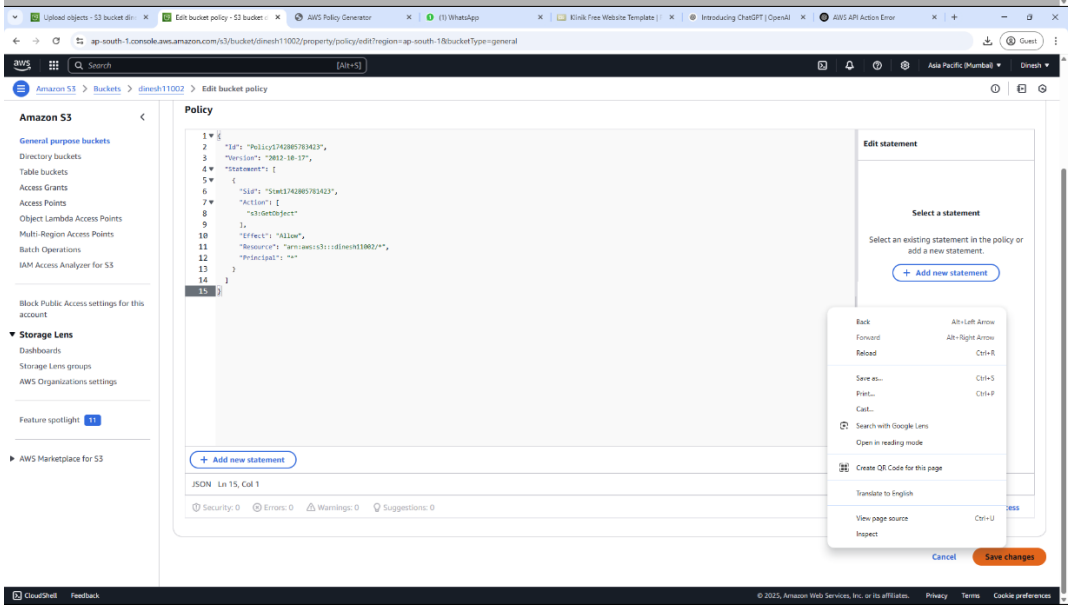
This policy allows anyone on the internet to access the files in your S3 bucket.

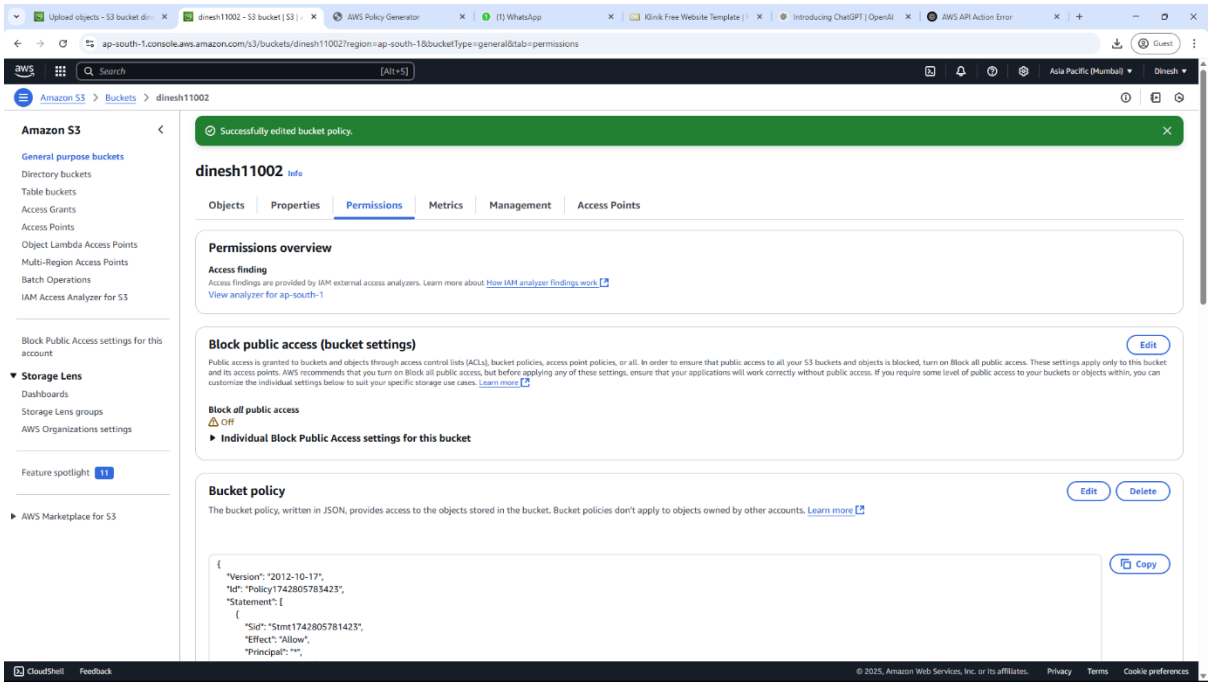





awspolicygen.s3.amazonaws.com/policygen.html
Select Type of Policy
S3 Bucket Policy
Step 2: Add Statement(s)
Effect
Allow
Deny
Principal
AWS Service
Amazon S3
All Services ("*")
Actions
-- Select Actions --
All Actions ("*")
Amazon Resource Name (ARN)
Add Conditions (Optional)
Add Statement
You added the following statements. Click the button below to Generate a policy.
Principal(s)
Effect
Action
Resource
Conditions
Allow
s3:GetObject
arn:aws:s3:::dinesh11002
None
Step 3: Generate Policy
A policy is a document (written in the Access Policy Language) that acts as a container for one or more statements.
Generate Policy
Start Over
An amazon.com company

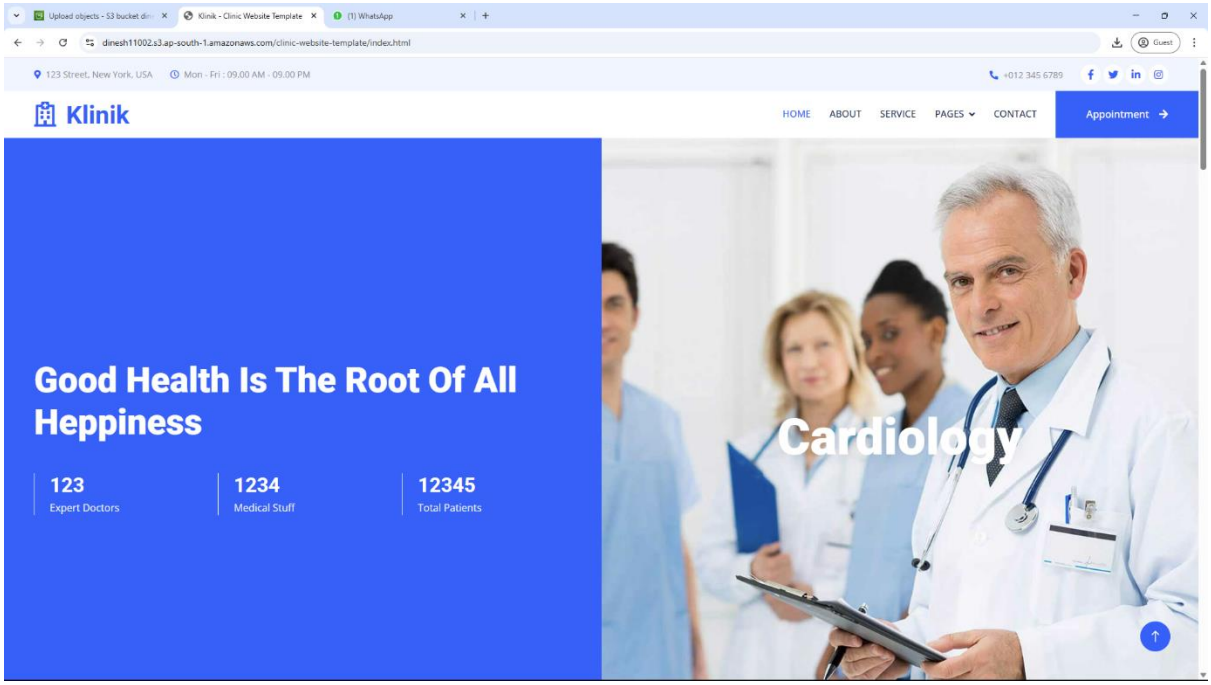

awspolicygen.s3.amazonaws.com/policygen.html
Policy JSON Document
Click below to edit. To save the policy, copy the text below to a text editor.
Changes made below will not be reflected in the policy generator tool.
Close
Generate Policy
Start Over
An amazon.com company


ap-south-1.console.aws.amazon.com/s3/bucket/dinesh11002/property/policy/edit?region=ap-south-1&bucketType=general
Amazon S3
Buckets
dinesh11002
Edit bucket policy
Policy
Edit statement
Select a statement
Select an existing statement in the policy or add a new statement.
Add new statement
JSON Ln 15, Col 1
Cancel
Save changes



Step 5: Test Your Website

1. Go back to the **Properties** tab.
2. Copy the **Static Website Hosting Endpoint URL**.
3. Paste it into your browser to check if your site is accessible.



Step 6:Empty the bucket and terminate it