

Cloud computing Hosting a static website in AWS using s3 bucket

Name: T Dinesh kumar

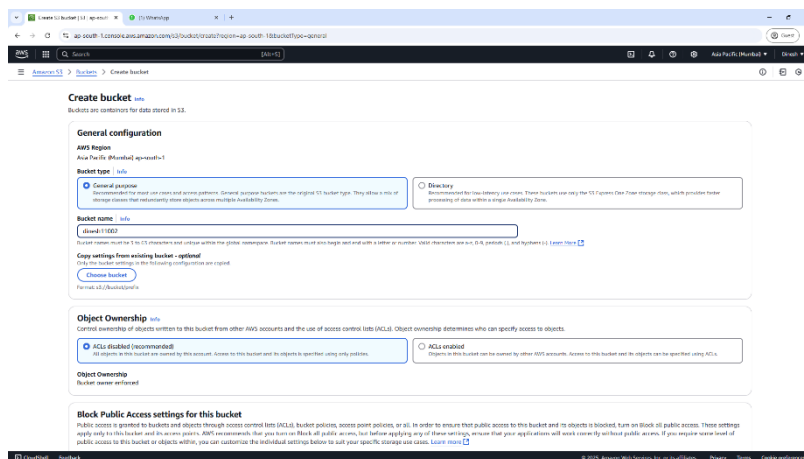
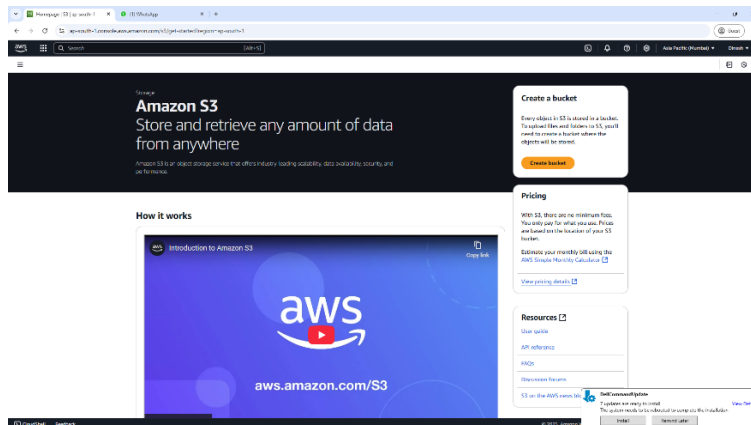
Rollno: 23BIT023

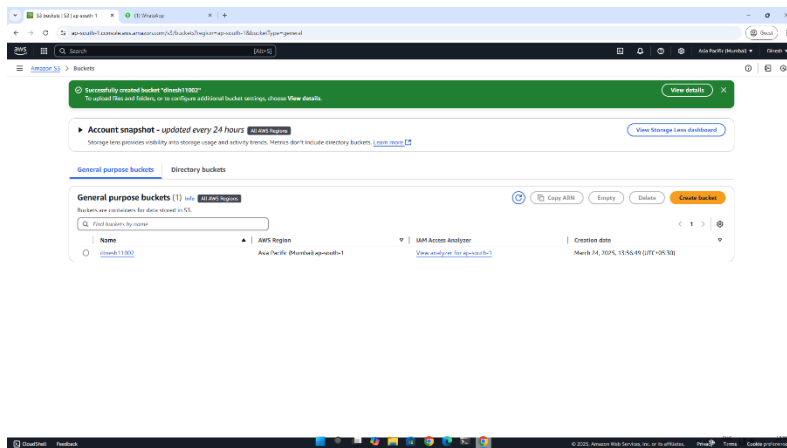
Hosting a Static Website in AWS using S3 Bucket

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

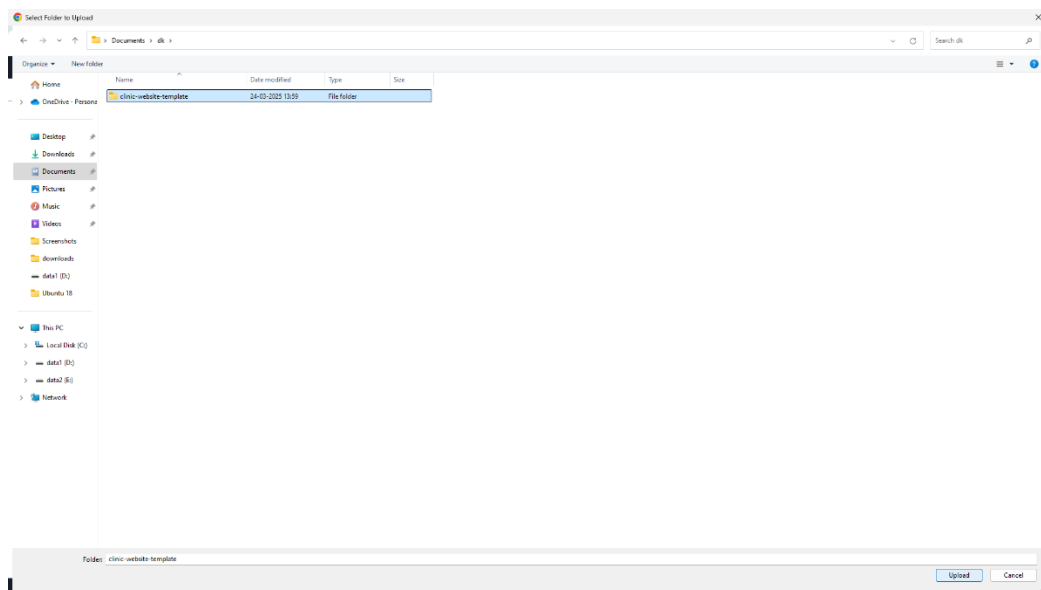
1. Log in to your **AWS Management Console**.
2. Navigate to the **S3** service.
3. Click on **"Create bucket"**.
4. Enter a **unique bucket name** (e.g., my-static-website).
5. Choose a region closest to your users for better performance.
6. **Uncheck** the **"Block all public access"** option so that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

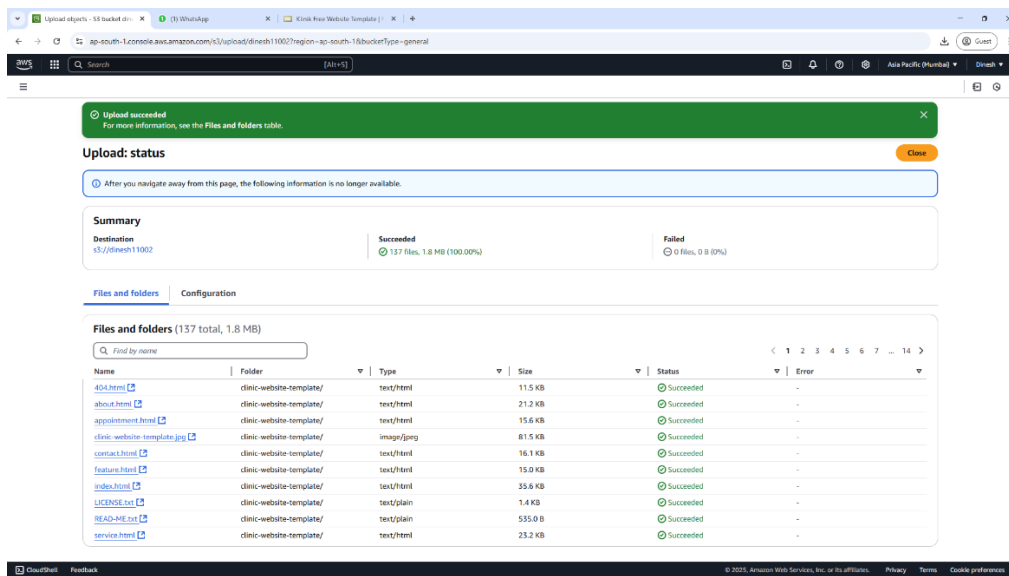
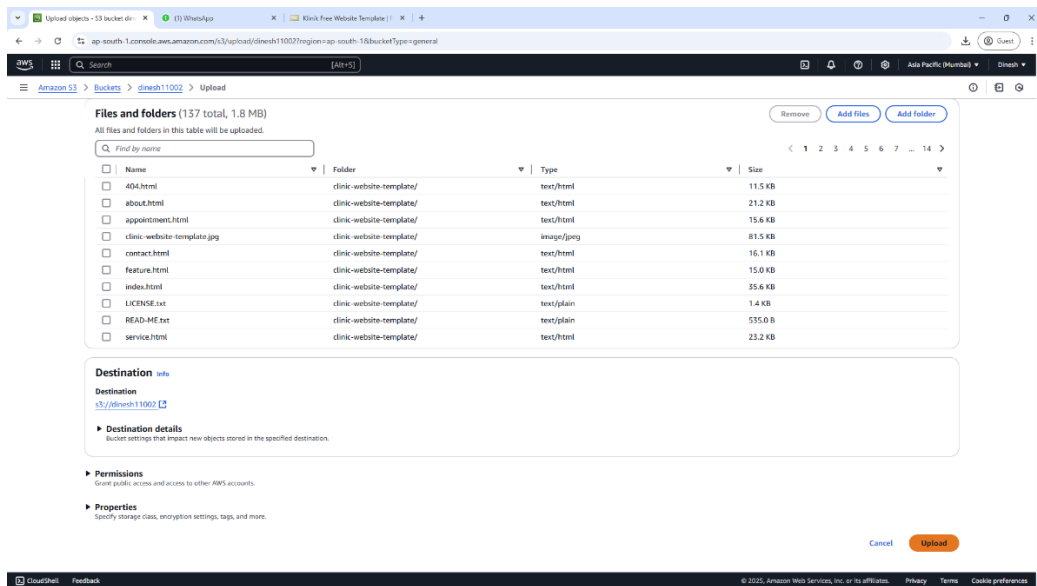




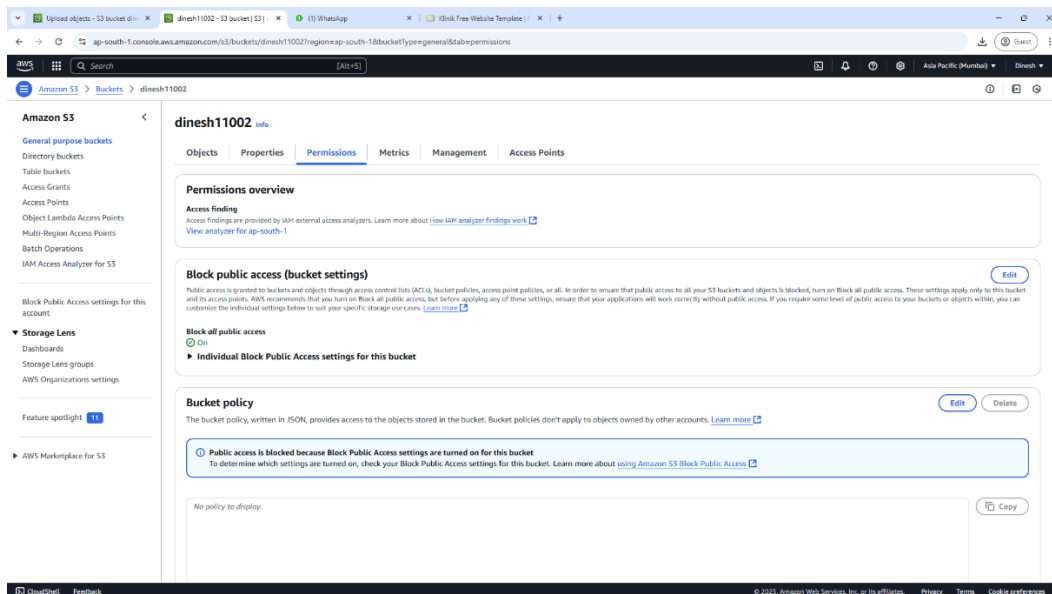
Step 2: Upload Website Files

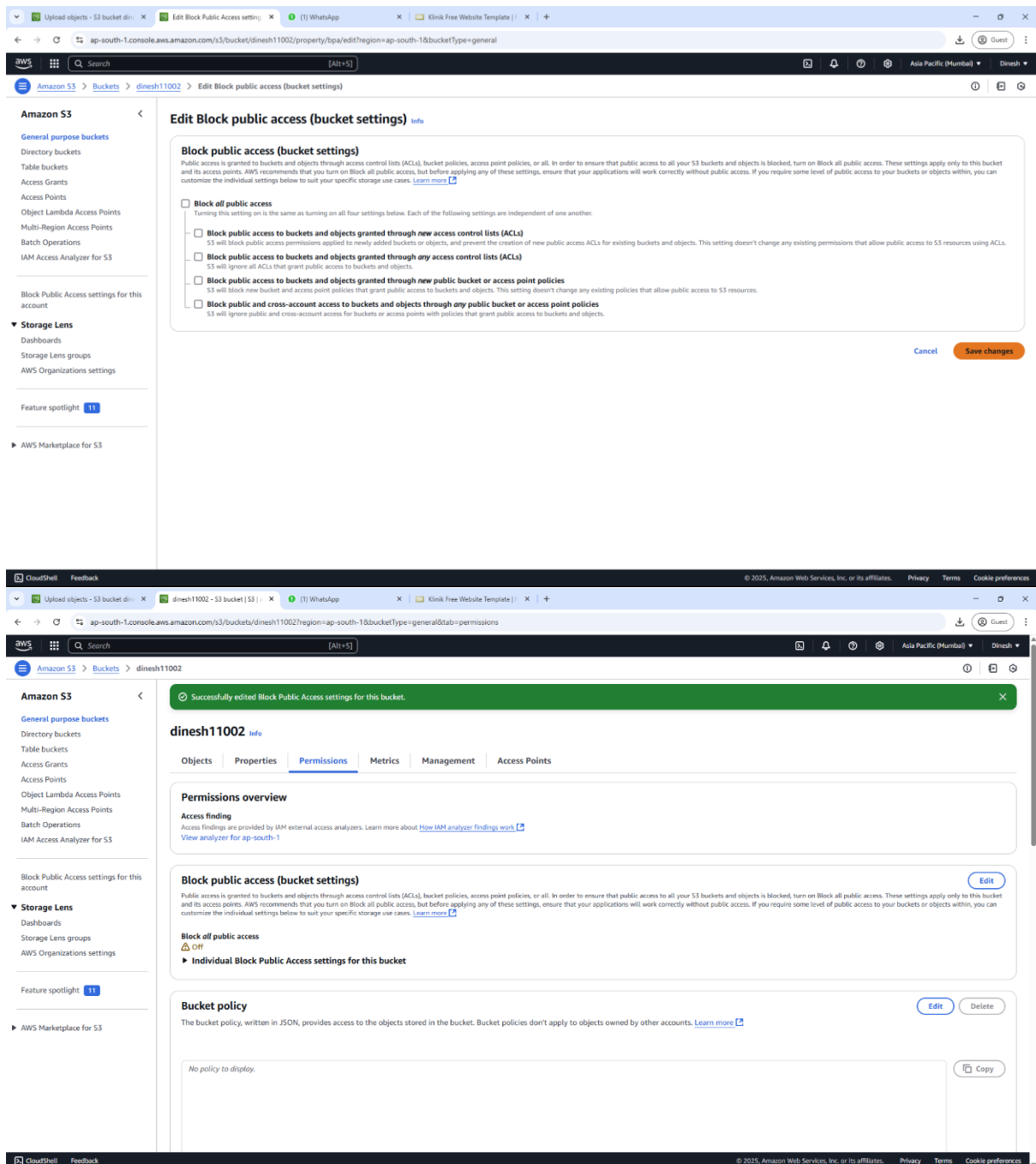
1. Go to the **Objects** tab inside your S3 bucket.
2. Click on **"Upload"** and **add your website files**, including index.html, style.css, images, and JavaScript files.
3. Click **"Upload"** and wait for the process to complete.





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.

The screenshot shows the Amazon S3 console interface. On the left, there's a navigation menu with options like 'General purpose buckets', 'Directory buckets', 'Table buckets', 'Access Grants', 'Access Points', 'Object Lambda Access Points', 'Multi-Region Access Points', 'Batch Operations', 'IAM Access Analyzer for S3', 'Block Public Access settings for this account', 'Storage Lens', 'Dashboards', 'Storage Lens groups', 'AWS Organizations settings', 'Feature spotlight', and 'AWS Marketplace for S3'. The main content area shows the 'Bucket policy' section for the bucket 'dinesh11002'. A green banner at the top indicates 'Successfully edited Block Public Access settings for this bucket.' The 'Bucket policy' section has a 'No policy to display.' message and a 'Copy' button. Below it, the 'Object Ownership' section shows 'Bucket owner enforced' and a note that ACLs are disabled.

The screenshot shows the AWS Policy Generator tool. It has a header with the Amazon Web Services logo and the title 'AWS Policy Generator'. Below the header, there's a description of the tool. The main content area is divided into three steps: 'Step 1: Select Policy Type', 'Step 2: Add Statement(s)', and 'Step 3: Generate Policy'. In 'Step 1', 'S3 Bucket Policy' is selected. In 'Step 2', the 'Effect' is set to 'Allow', the 'Principal' is '*', the 'AWS Service' is 'Amazon S3', the 'Actions' are 's3:GetObject', and the 'Amazon Resource Name (ARN)' is 'arn:aws:s3:::dinesh11002'. There's an 'Add Statement' button at the bottom of the form. 'Step 3' is partially visible at the bottom.

Upload objects - S3 bucket di... Edit bucket policy - S3 bucket... AWS Policy Generator (1) WhatsApp Kink Free Website Template

awsolicygen.s3.amazonaws.com/policygen.html

A policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy **S3 Bucket Policy**

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a description of elements that you can use in statements.

Effect ☒ Allow ☐ Deny

Principal

Use a comma to separate multiple values.

AWS Service **Amazon S3** ☐ All Services ("")

Use multiple statements to add permissions for more than one service.

Actions **-- Select Actions --** ☐ All Actions ("")

Amazon Resource Name (ARN)

ARN should follow the following format: arn:aws:s3:::bucketName/PrefixName.

Use a comma to separate multiple values.

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:::dmesh11002	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**

The AWS Policy Generator is provided for informational purposes only; you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. The AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.

©2013, Amazon Web Services LLC or its affiliates. All rights reserved.

An **amazon.com** company

Upload objects - S3 bucket di... Edit bucket policy - S3 bucket... AWS Policy Generator (1) WhatsApp Kink Free Website Template

awsolicygen.s3.amazonaws.com/policygen.html

A policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy **S3 Bucket Policy**

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a description of elements that you can use in statements.

Effect ☒ Allow ☐ Deny

Principal

Use a comma to separate multiple values.

AWS Service **Amazon S3** ☐ All Services ("")

Use multiple statements to add permissions for more than one service.

Actions **-- Select Actions --** ☐ All Actions ("")

Amazon Resource Name (ARN)

ARN should follow the following format: arn:aws:s3:::bucketName/PrefixName.

Use a comma to separate multiple values.

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:::dmesh11002	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**

The AWS Policy Generator is provided for informational purposes only; you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. The AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.

©2013, Amazon Web Services LLC or its affiliates. All rights reserved.

An **amazon.com** company

Upload objects - S3 bucket di... Edit bucket policy - S3 bucket... AWS Policy Generator (1) WhatsApp Kink Free Website Template Introducing ChatGPT (OpenAI) AWS API Action Error

ap-south-1.console.aws.amazon.com/s3/bucket/dmesh11002/properties/policy/edit?region=ap-south-1&bucketType=general

Amazon S3 Buckets > dmesh11002 Edit bucket policy

Amazon S3

- General purpose buckets
- Directory buckets
- Table buckets
- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- Storage Lens groups
- AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Policy

```
1 {
2   "Id": "Policy174286783423",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt174286783423",
7       "Action": [
8         "s3:GetObject"
9       ],
10      "Effect": "Allow",
11      "Resource": "arn:aws:s3:::dmesh11002/*",
12      "Principal": "*"
13    }
14  ]
15 }
```

Edit statement

Select a statement in the policy or add a new statement.

+ Add new statement

+ Add new statement

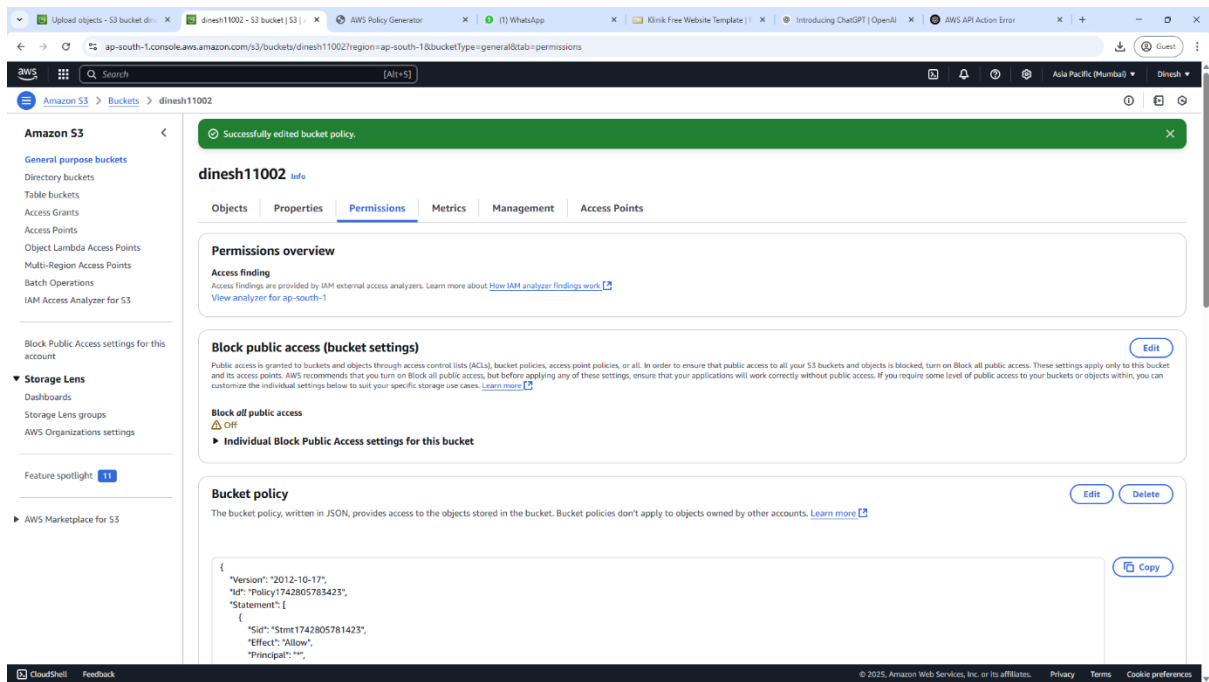
JSON Ln 15, Col 1

Security 0 Errors 0 Warnings 0 Suggestions 0

Back Alt+Left Arrow
Forward Alt+Right Arrow
Reload Ctrl+R
Save etc... Ctrl+S
Print... Ctrl+P
Cut...
Search with Google Lens
Open in reading mode
Create QR Code for this page
Translate to English
View page source Ctrl+U
Inspect

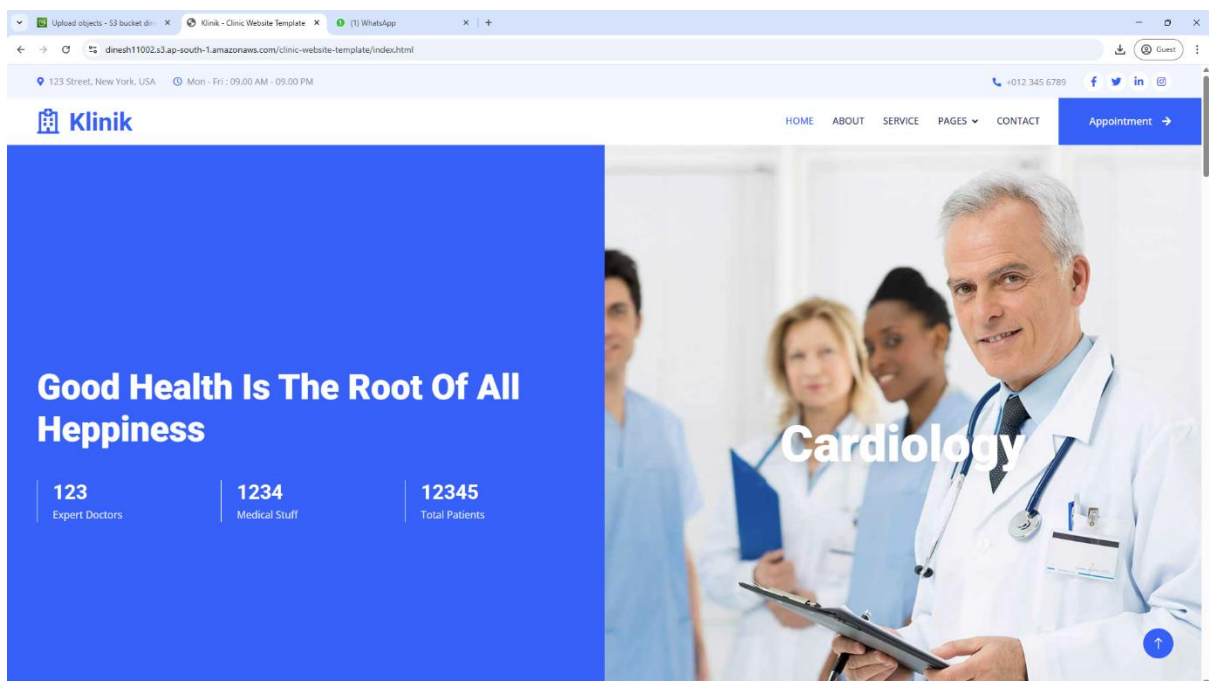
Cancel **Save changes**

© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences



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

