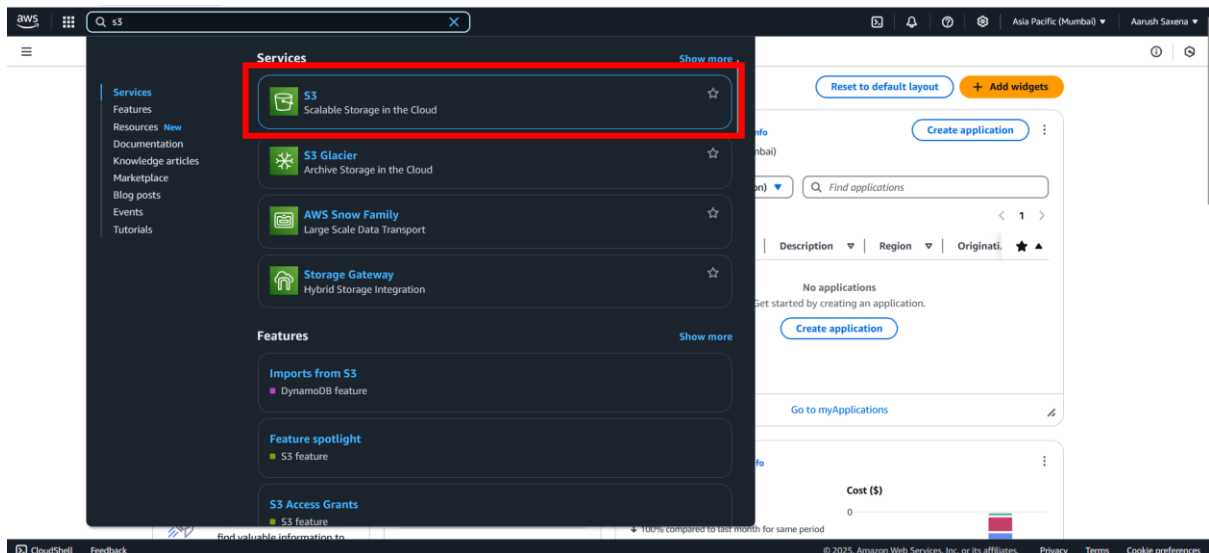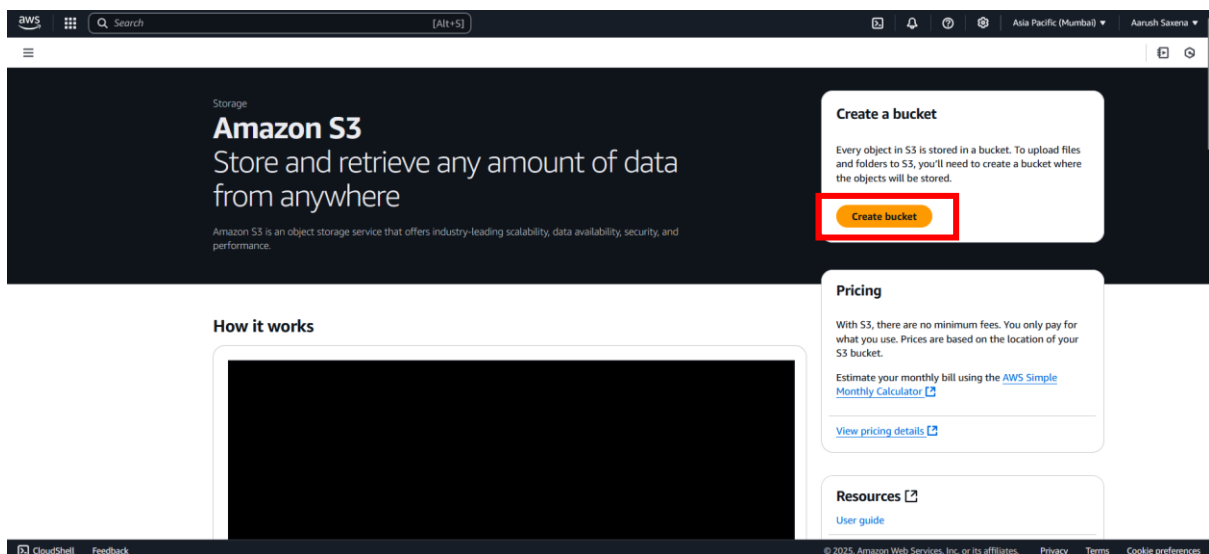# S3 custom 404 page and access bucket data from another bucket (or access static website)
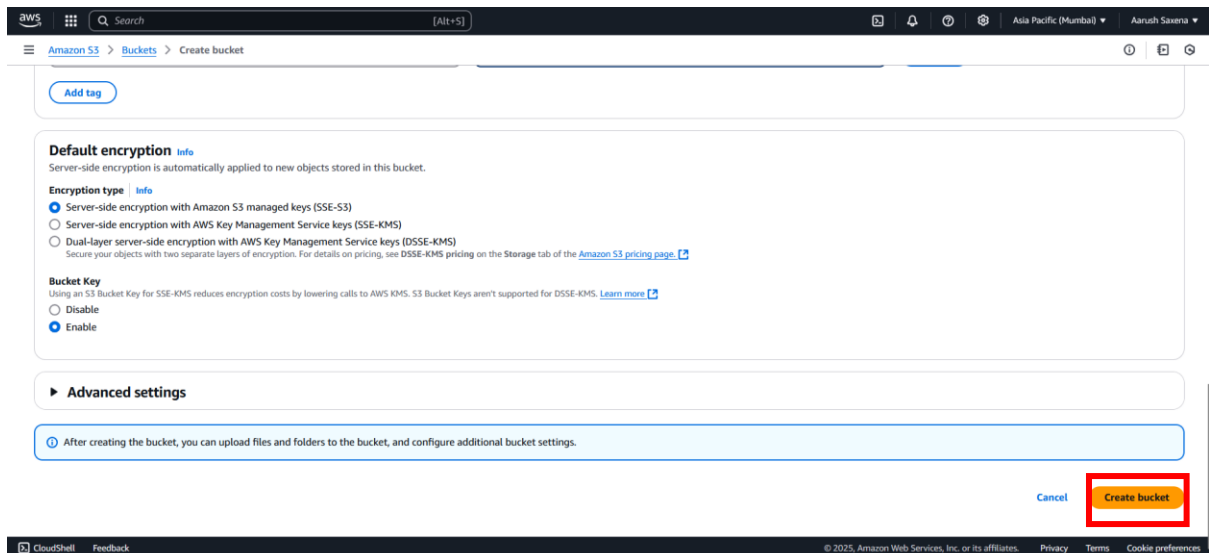
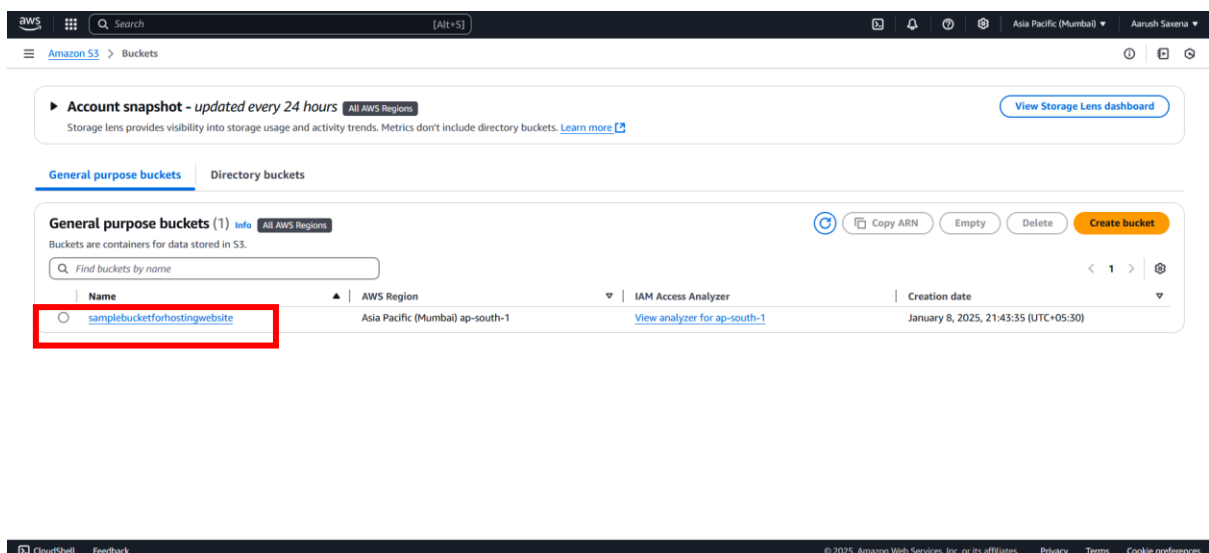Step1: Log-in to your aws account and search for S3 and click on it.

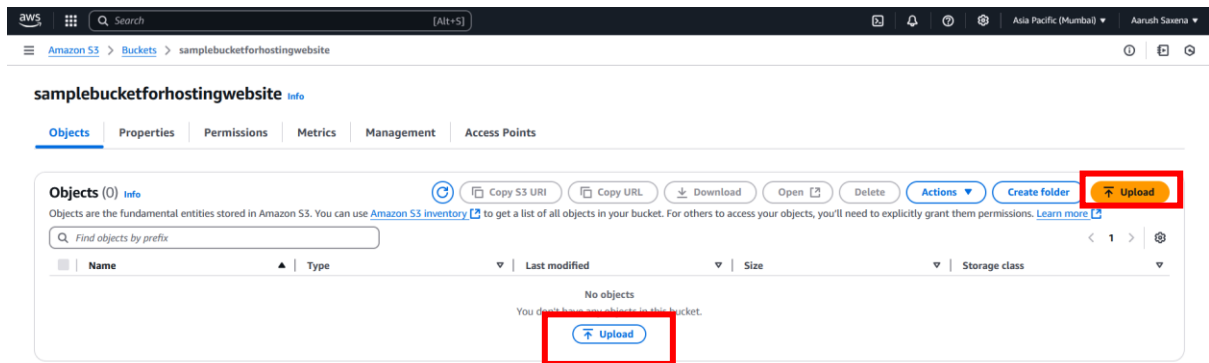After clicking on it you will see S3 dashboard as shown in image given below. Click on create bucket.

After clicking on create bucket you will see a console as shown in image given below. Give a bucket name to bucket and uncheck the block public access and leave everything to as it is and click on create bucket button.

Create bucket Info

Buckets are containers for data stored in S3.

General configuration

AWS Region
Asia Pacific (Mumbai) ap-south-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**
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

samplebucketforhostingwebsite

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 Info

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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

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more 🗗

☐ **Block *all* public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

    ☐ Block public access to buckets and objects granted through *new* access control lists (ACLs)
    S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

    ☐ Block public access to buckets and objects granted through *any* access control lists (ACLs)
    S3 will ignore all ACLs that grant public access to buckets and objects.

    ☐ Block public access to buckets and objects granted through *new* public bucket or access point policies
    S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

    ☐ Block public and cross-account access to buckets and objects through *any* public bucket or access point policies
    S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

⚠ **Turning off block all public access might result in this bucket and the objects within becoming public**
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☑ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more 🗗

Bucket Versioning
◉ Disable
○ Enable

Tags - *optional* (1)

You can use bucket tags to track storage costs and organize buckets. Learn more 🗗

Key	Value - *optional*	
Name	samplewebsiteforhosting	Remove

[Add tag]

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 🗗
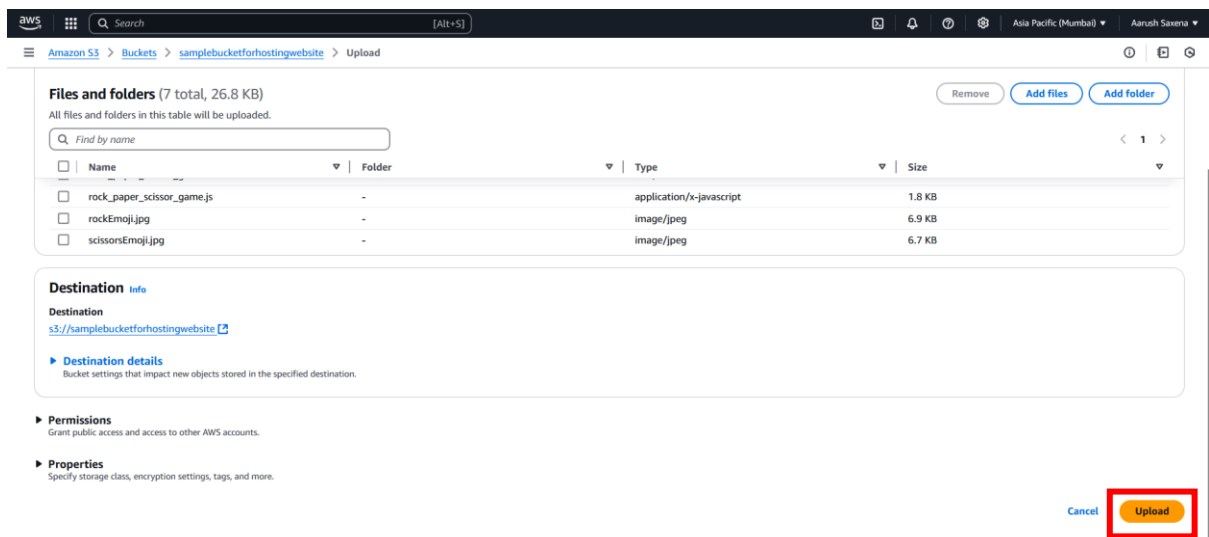○ Disable
◉ Enable

Step2: After clicking on create bucket button you can see your bucket in S3 now click on bucket.

You can see options to upload data or objects to your bucket by clicking on upload button.

Here we are uploading html, css and javascript and some related images to it and leave everthings to default settings and click on upload button.

After clicking on it you can see objects(data) on your bucket. As shown in image given below.

Step3: Now we have to provide it public access so that it can be accessible by publicly. Click on permissions as shown in image given below.

After clicking on permissions scroll down a little bite and find bucket policy option and click on edit button.

After clicking on it we are paste policy to it but assume that we do not know how to write it so click on policy generator button.
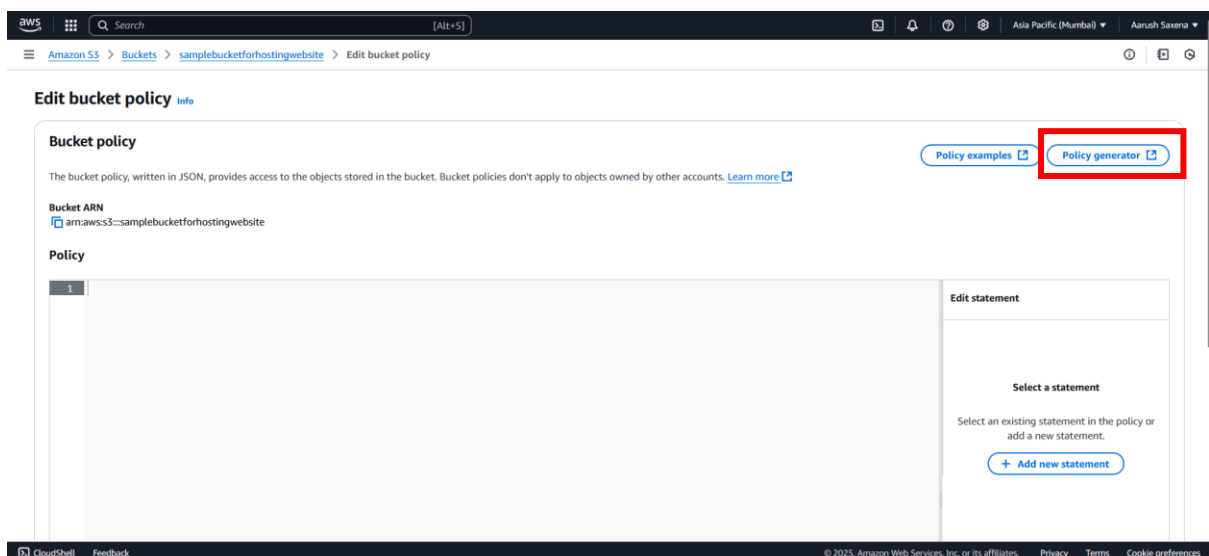
A window will appear as shown in image given below. Now select the policy type as S3 bucket policy and provide * to principal so that it will apply to everything and paste arn and click on add statement.

It will generate policy now click on generate policy button and copy it

Copy the policy and paste it to policy window and provide */ in the resources so that this policy will apply to each and every object and click on save changes.
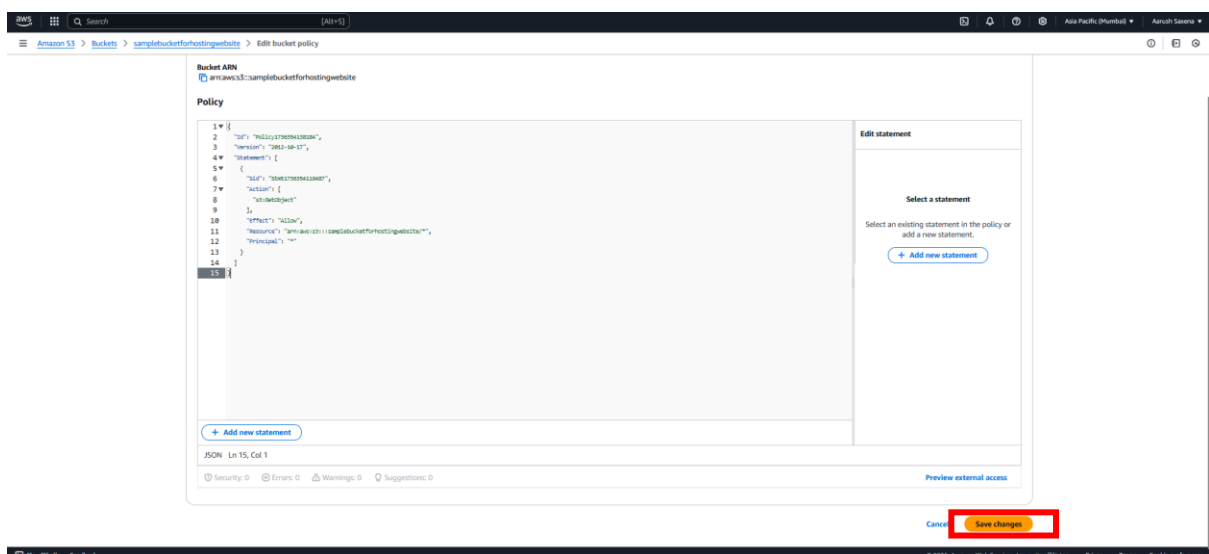
Step4: Now we have to add static website for S3 bucket for that click on properties option, scroll down and at the end you will see static website hosting option click on edit button.

After clicking on it window will appear as shown in image given below, click on Enable option and type index document or index file name.
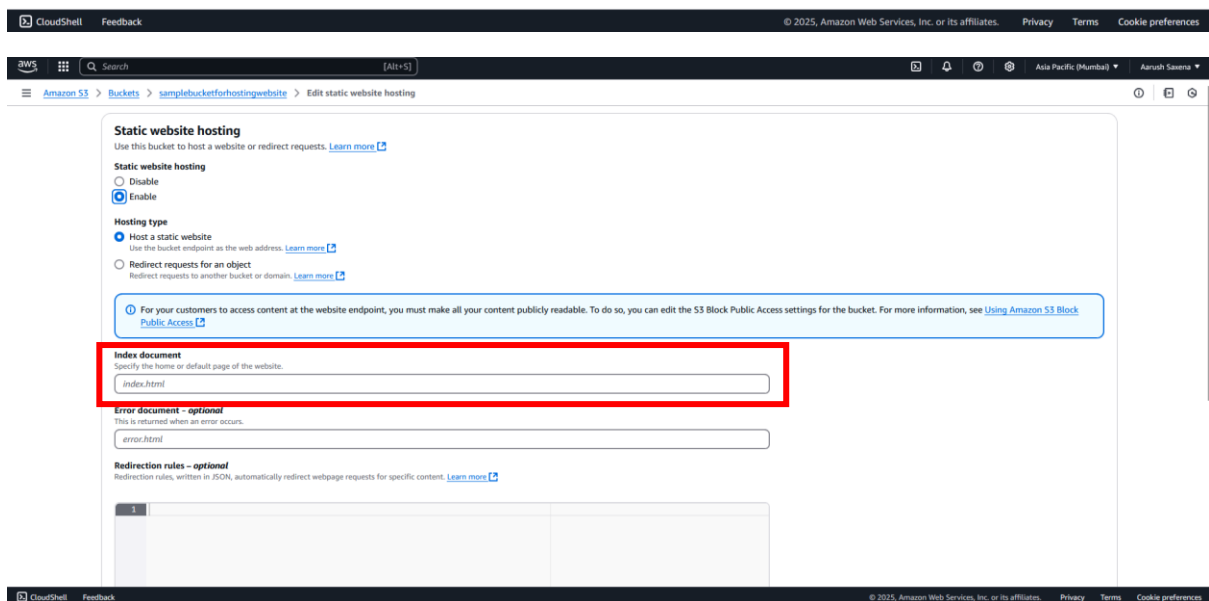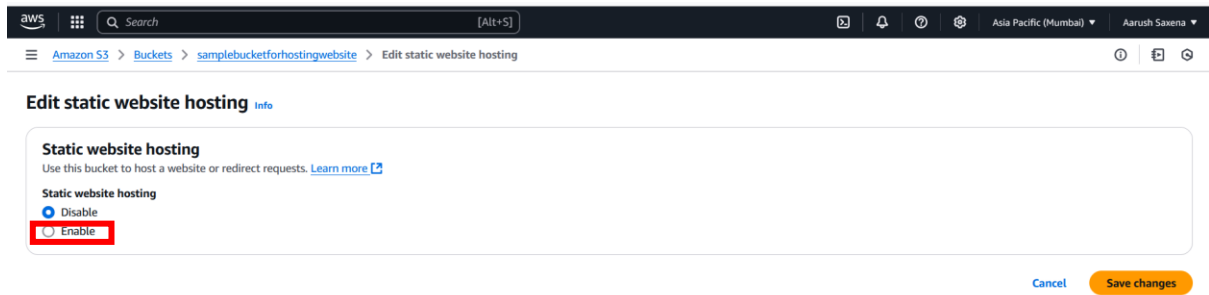
Step5: As you click on it you will see a bucket website endpoint link and paste it to your web browser.
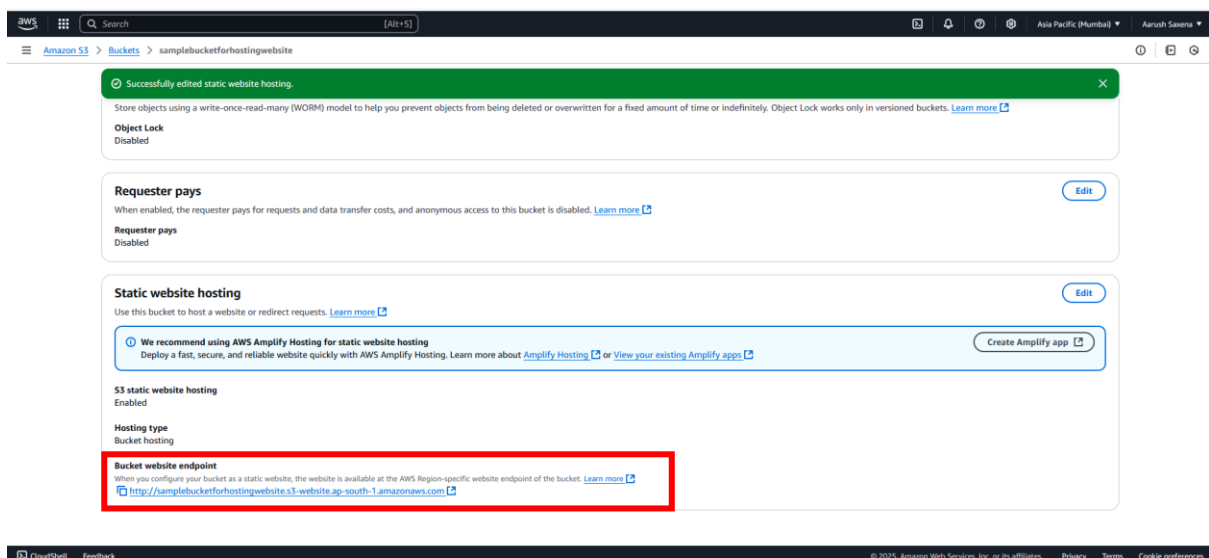
Copy it and paste it to the browser and your will see your html file.

If someone type somethings else which is not present in S3 bucket, it will show 404 page not found. We can change it or redirect it to another object. For that follow Step6.
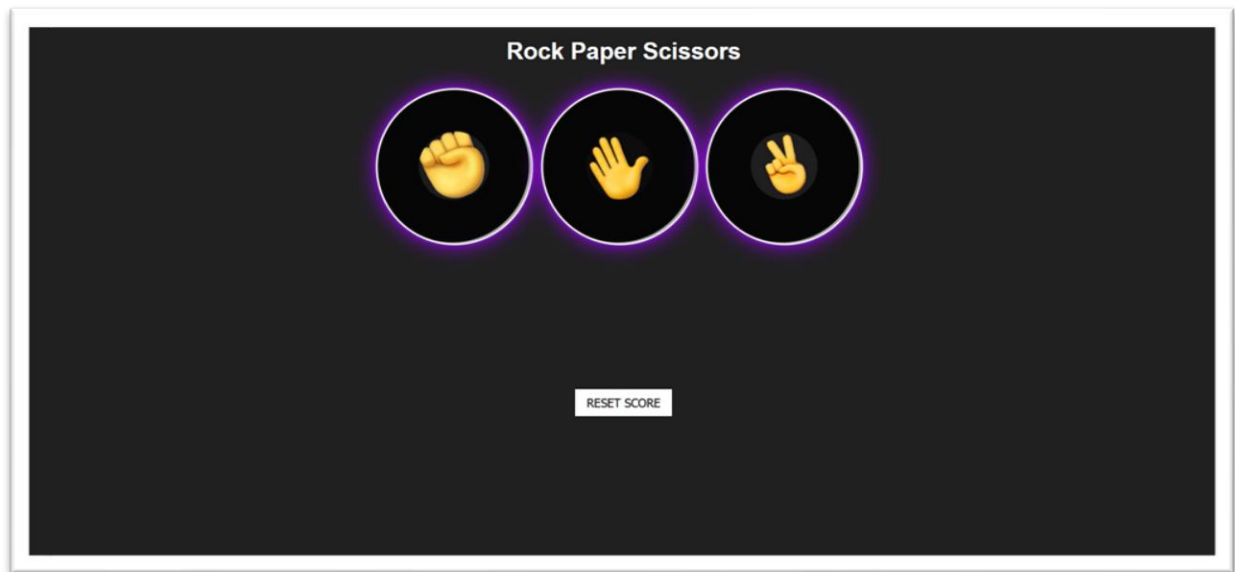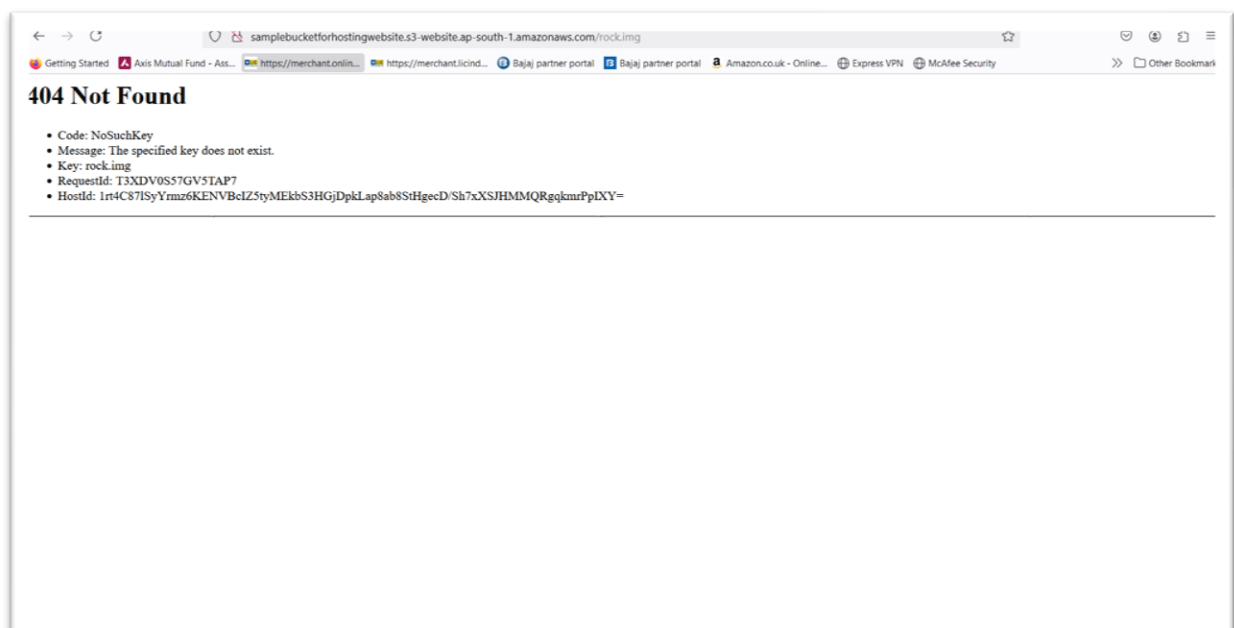

Step6: Go back to bucket and upload file which you want to show if someone type anything invalid or landing another 404 page. In our case we are going to upload custom landing 404 page.

Now after uploading image, click on properties option and scroll down and click on static website hosting edit button.

Amazon S3 > Buckets > samplebucketforhostingwebsite

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 10

▶ AWS Marketplace for S3

samplebucketforhostingwebsite Info

Objects | **Properties** | Permissions | Metrics | Management | Access Points

Objects (6) Info

Copy S3 URI | Copy URL | Download | Open | Delete | Actions ▼ | Create folder | Upload

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

Find objects by prefix

	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class ▽
☐	paperEmoji.jpg	jpg	January 8, 2025, 22:00:39 (UTC+05:30)	8.5 KB	Standard
☐	rock_paper_scissor_game.css	css	January 8, 2025, 22:00:41 (UTC+05:30)	1.6 KB	Standard
☐	rock_paper_scissor_game.html	html	January 8, 2025, 22:00:41 (UTC+05:30)	1.1 KB	Standard
☐	rock_paper_scissor_game.js	js	January 8, 2025, 22:00:42 (UTC+05:30)	1.8 KB	Standard
☐	rockEmoji.jpg	jpg	January 8, 2025, 22:00:42 (UTC+05:30)	6.9 KB	Standard
☐	scissorsEmoji.jpg	jpg	January 8, 2025, 22:00:43 (UTC+05:30)	6.7 KB	Standard

---

Amazon S3 > Buckets > samplebucketforhostingwebsite

Object Lock
Edit

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. Learn more

Object Lock
Disabled

Requester pays
Edit

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more

Requester pays
Disabled

Static website hosting
Edit

Use this bucket to host a website or redirect requests. Learn more

> ⓘ **We recommend using AWS Amplify Hosting for static website hosting**
> Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about Amplify Hosting or View your existing Amplify apps
>
> Create Amplify app

S3 static website hosting
Enabled

Hosting type
Bucket hosting

Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more
http://samplebucketforhostingwebsite.s3-website.ap-south-1.amazonaws.com

---

Amazon S3 > Buckets > samplebucketforhostingwebsite > Edit static website hosting

Edit static website hosting Info

Static website hosting
Use this bucket to host a website or redirect requests. Learn more

Static website hosting
○ Disable
● Enable

Hosting type
● Host a static website
Use the bucket endpoint as the web address. Learn more

○ Redirect requests for an object
Redirect requests to another bucket or domain. Learn more

> ⓘ For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access

Index document
Specify the home or default page of the website.

rock_paper_scissor_game.html

Error document – optional
This is returned when an error occurs.

lava-lamp-animation-404-error-page.gif

Redirection rules – optional
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. Learn more

1

And click on save changes. Now if anyone type something invalid it will redirect it to our custom 404 page not found image.
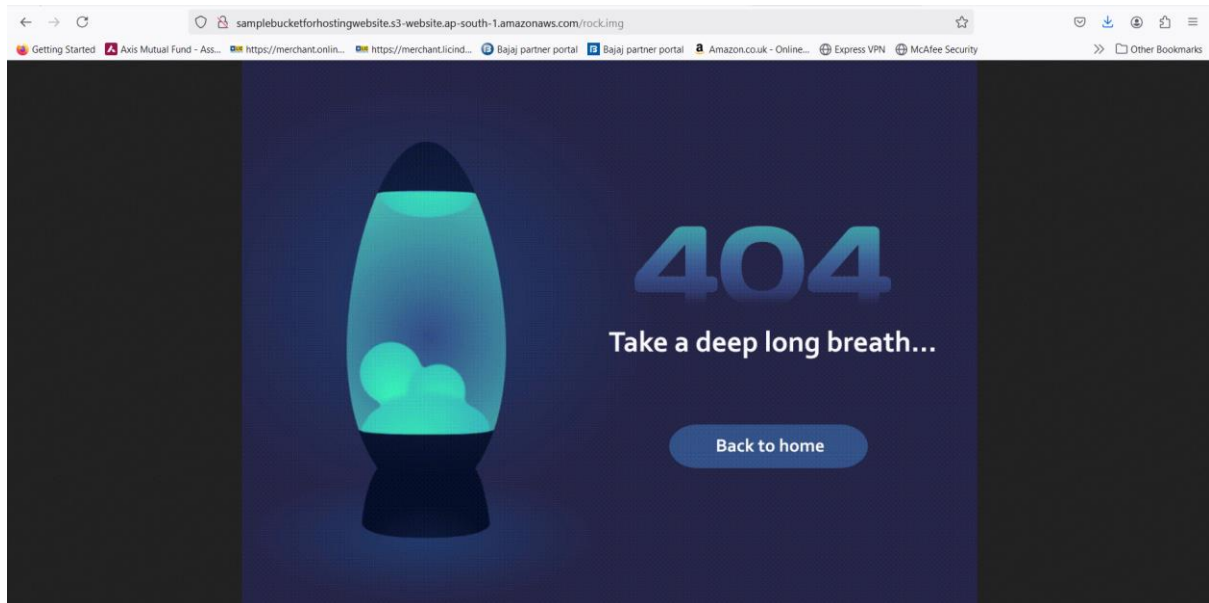
If we want to bring data from another bucket for that follow Step7.

Step7: Go back to bucket page and create another bucket.

anotherbucketforstaticwebsite Info

Objects | **Properties** | Permissions | Metrics | Management | Access Points

Objects (0) Info

Copy S3 URI | Copy URL | Download | Open ⬈ | Delete | Actions ▼ | Create folder | ⬆ Upload

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory ⬈ to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more ⬈

🔍 Find objects by prefix

< 1 > ⚙

☐	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class ▽

No objects
You don't have any objects in this bucket.

⬆ Upload

Object Lock

Edit

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. Learn more ⬈

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Requester pays

Edit

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Requester pays
Disabled

Static website hosting

Edit

Use this bucket to host a website or redirect requests. Learn more ⬈

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Create Amplify app ⬈

S3 static website hosting
Disabled

Edit static website hosting Info

Static website hosting

Use this bucket to host a website or redirect requests. Learn more ⬈

Static website hosting
⦿ Disable
◯ Enable

Cancel | Save changes

aws | Search [Alt+S] | Asia Pacific (Mumbai) ▼ | Aarush Saxena ▼

Edit static website hosting Info

Static website hosting

Use this bucket to host a website or redirect requests. Learn more 🔗

Static website hosting
- ○ Disable
- ● Enable

Hosting type
- ○ Host a static website
  Use the bucket endpoint as the web address. Learn more 🔗
- ● Redirect requests for an object
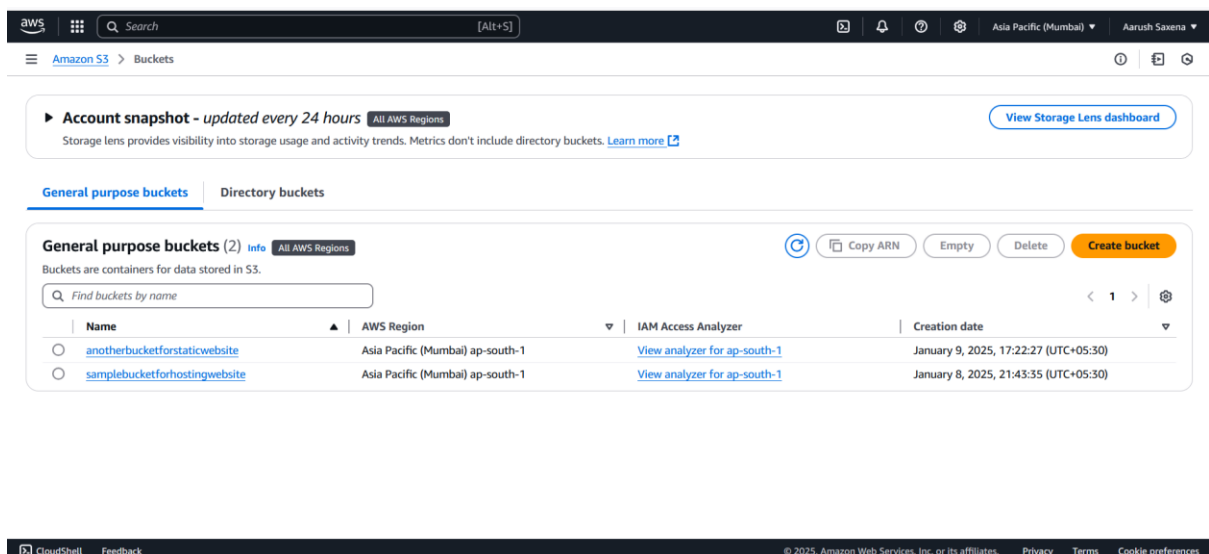 Redirect requests to another bucket or domain. Learn more 🔗

Host name

samplebucketforhostingwebsite.s3-website.ap-south-1.amazonaws.com

Target bucket website address or personal domain

Protocol - Optional
- ● none
- ○ http
- ○ https

Cancel | Save changes

---

aws | Search [Alt+S] | Asia Pacific (Mumbai) ▼ | Aarush Saxena ▼

Amazon S3 > Buckets > anotherbucketforstaticwebsite

✓ Successfully edited static website hosting.   ✕

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. Learn more 🔗

Object Lock
Disabled

Requester pays   Edit

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Use this bucket to host a website or redirect requests. Learn more 🔗

ⓘ **We recommend using AWS Amplify Hosting for static website hosting**   Create Amplify app 🔗
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about Amplify Hosting 🔗 or View your existing Amplify apps 🔗

S3 static website hosting
Enabled

Hosting type
Redirect request

Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more 🔗
📋 http://anotherbucketforstaticwebsite.s3-website.ap-south-1.amazonaws.com 🔗

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samplebucketforhostingwebsite.s3-website.ap-south-1.amazonaws.com

Getting Started | Axis Mutual Fund - Ass... | https://merchant.onlin... | https://merchant.liicind... | Bajaj partner portal | Bajaj partner portal | Amazon.co.uk - Online... | Express VPN | McAfee Security | Other Bookmarks

Rock Paper Scissors

RESET SCORE