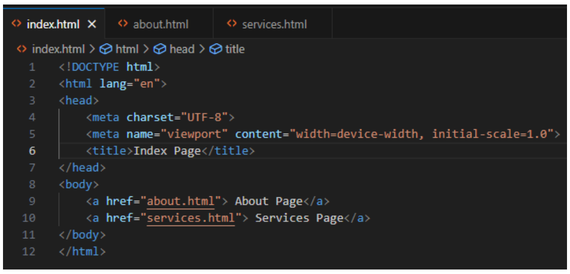
ASSIGNMENT 6:-

PROBLEM STATEMENT :

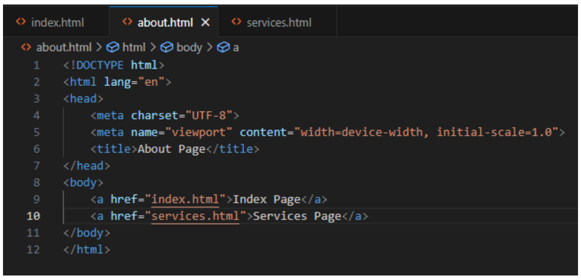
Uploading a static website on AWS S3.

To upload the website ->

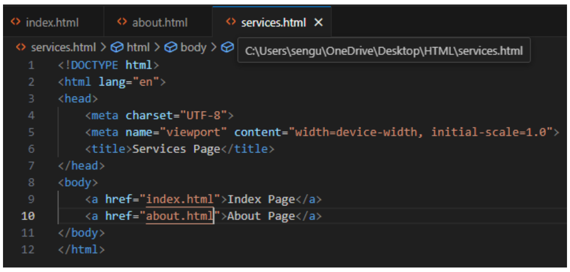
STEP 1-> Create 3 Static Webpages using HTML



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Index Page</title>
</head>
<body>
    <a href="about.html"> About Page</a>
    <a href="services.html"> Services Page</a>
</body>
</html>
```

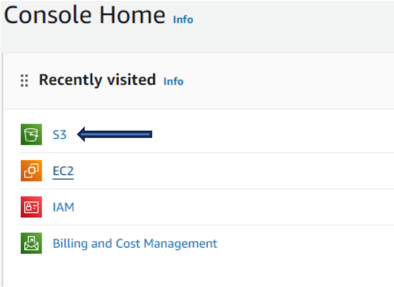


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>About Page</title>
</head>
<body>
    <a href="index.html">Index Page</a>
    <a href="services.html">Services Page</a>
</body>
</html>
```

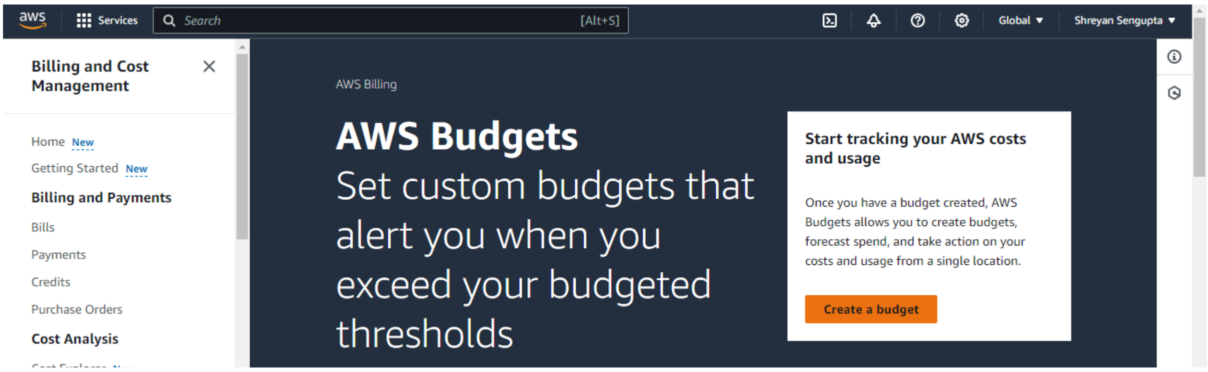

index.html
about.html
services.html ×
services.html > html > body >
C:\Users\sengu\OneDrive\Desktop\HTML\services.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Services Page</title>
</head>
<body>
    <a href="index.html">Index Page</a>
    <a href="about.html">About Page</a>
</body>
</html>
```

STEP 2-> Click on the S3 button



STEP 3->Click on “Create Bucket”.



AWS Billing

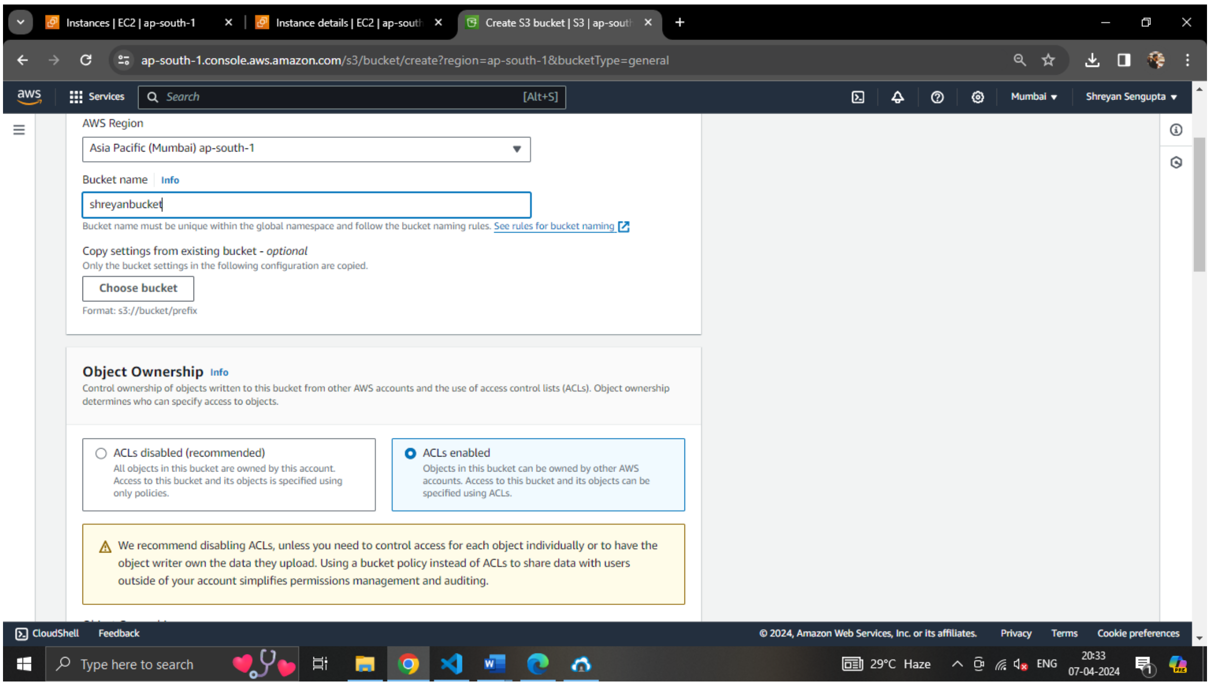
AWS Budgets

Set custom budgets that alert you when you exceed your budgeted thresholds

Start tracking your AWS costs and usage

Once you have a budget created, AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.

STEP 4-> Give name, andSelect“ACL s enabled” option under the Object Ownership heading.


Instances | EC2 | ap-south-1
Instance details | EC2 | ap-south
Create S3 bucket | S3 | ap-south
ap-south-1.console.aws.amazon.com/s3/bucket/create?region=ap-south-1&bucketType=general
Services
Search
[Alt+S]
Mumbai
Shreyan Sengupta
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
29°C Haze
ENG
20:33
07-04-2024

AWS Region

Asia Pacific (Mumbai) ap-south-1

Bucket name Info

shreyanbucket

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

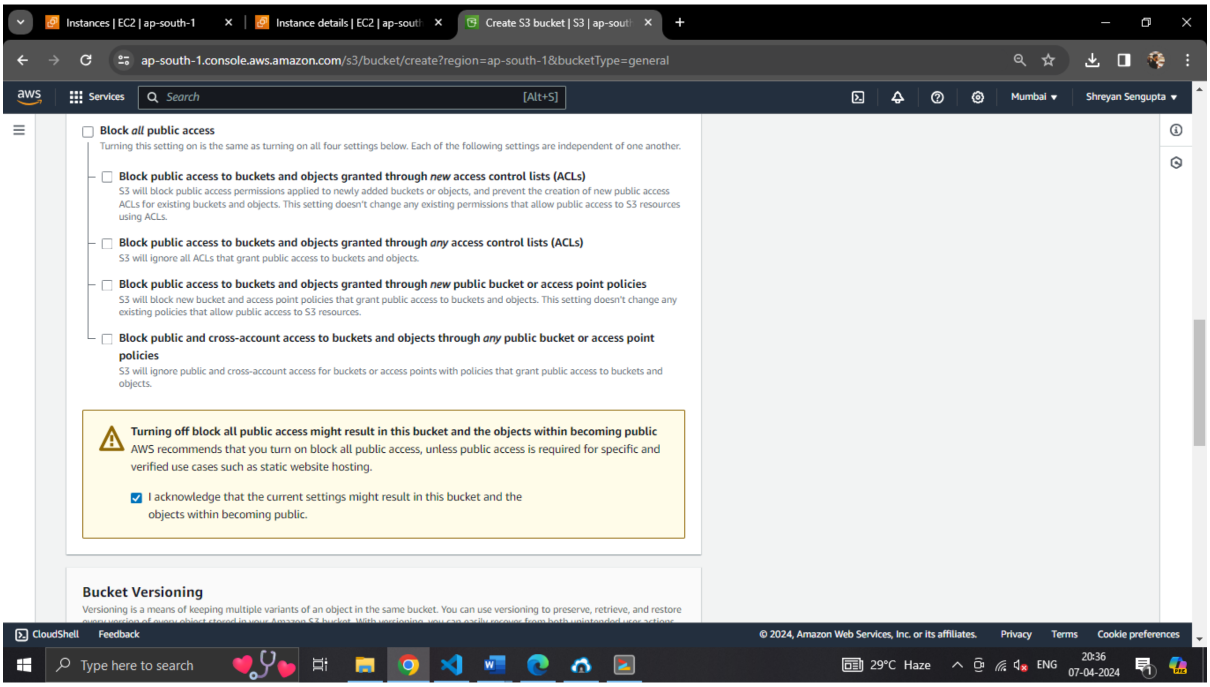
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

○ 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.

We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.

STEP 5-> Uncheck Block all public access & click the I acknowledge checkbox


Instances | EC2 | ap-south-1
Instance details | EC2 | ap-south
Create S3 bucket | S3 | ap-south
ap-south-1.console.aws.amazon.com/s3/bucket/create?region=ap-south-1&bucketType=general
Services
Search
[Alt+S]
Mumbai
Shreyan Sengupta
CloudShell
Feedback
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Privacy
Terms
Cookie preferences
Type here to search
29°C Haze
ENG
20:36
07-04-2024

□ **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 access 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.

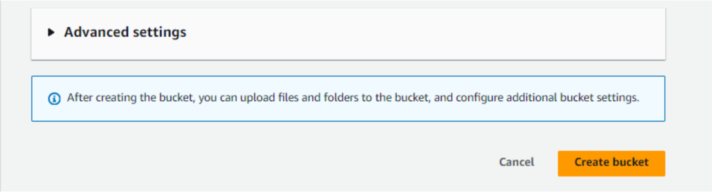
□ **Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

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

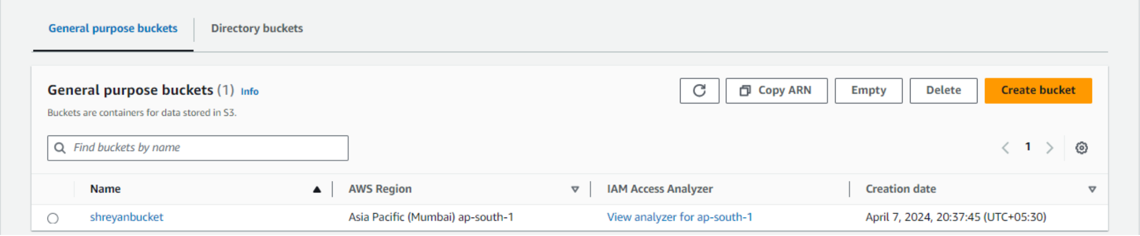
STEP 6-> Click on Create Bucket.



▸ **Advanced settings**

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

STEP 7->The Bucket is thus created successfully



General purpose buckets | Directory buckets

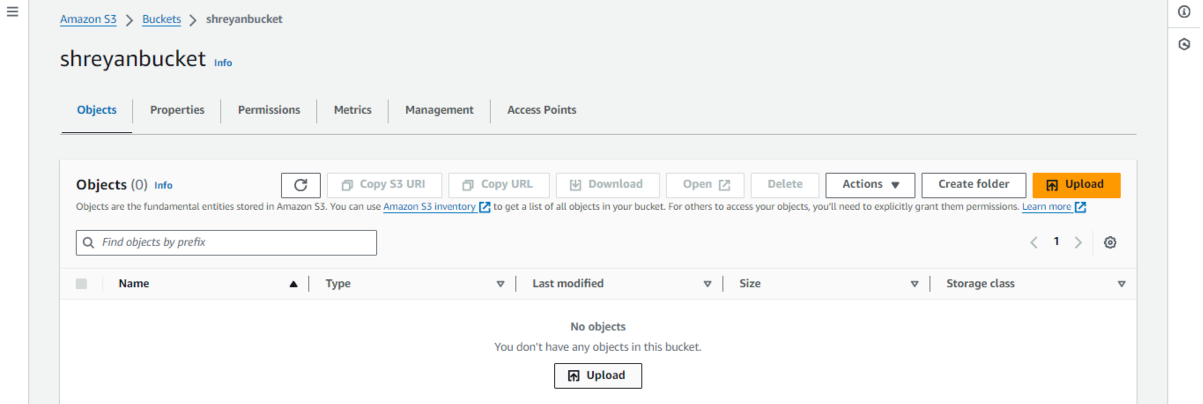
General purpose buckets (1) Info

Buckets are containers for data stored in S3.

Find buckets by name

	Name	AWS Region	IAM Access Analyzer	Creation date
○	shreyanbucket	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	April 7, 2024, 20:37:45 (UTC+05:30)

STEP 8-> Click on the Bucket andthen click on Upload.



Amazon S3 > Buckets > shreyanbucket

shreyanbucket Info

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

Objects (0) Info

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

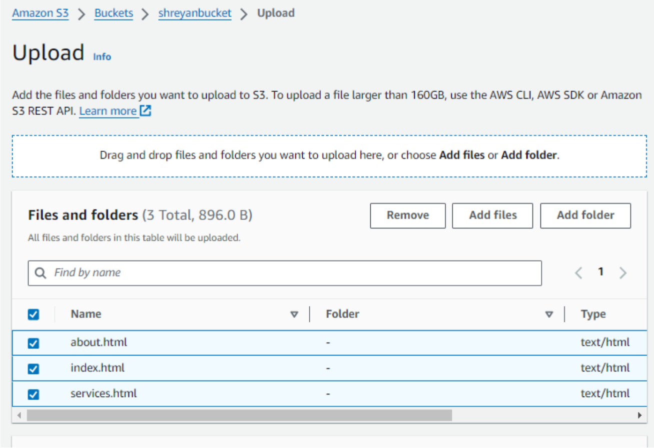
Find objects by prefix

	Name	Type	Last modified	Size	Storage class

No objects

You don't have any objects in this bucket.

STEP 9-> Click on Add file and then add the static html files.



Amazon S3 > Buckets > shreyanbucket > Upload

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

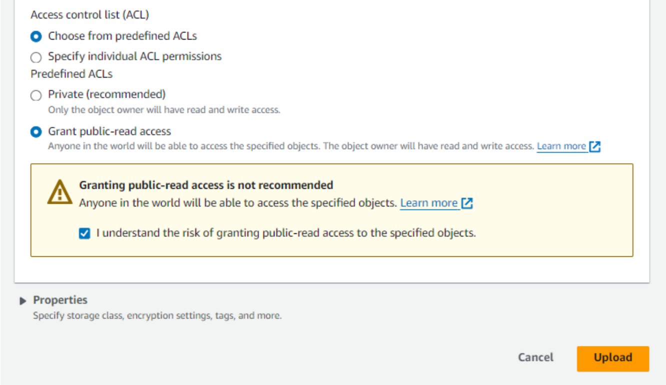
Files and folders (3 Total, 896.0 B)

All files and folders in this table will be uploaded.

Find by name

☑	Name	Folder	Type
☑	about.html	-	text/html
☑	index.html	-	text/html
☑	services.html	-	text/html

STEP 10-> Then Click on permission option then Select Granting Public Read Access option. Then Click the “I understand” and then click Upload.



Access control list (ACL)

● Choose from predefined ACLs

○ Specify individual ACL permissions

Predefined ACLs

○ Private (recommended)

Only the object owner will have read and write access.

● Grant public-read access

Anyone in the world will be able to access the specified objects. The object owner will have read and write access. Learn more

Granting public-read access is not recommended

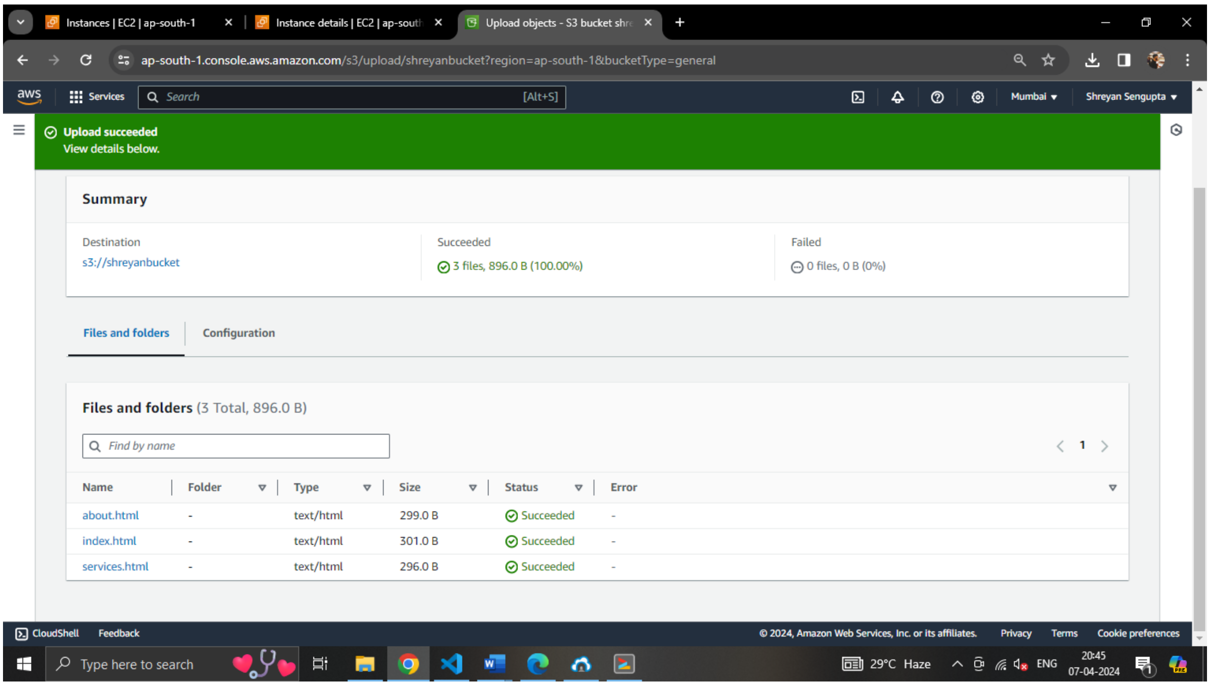
Anyone in the world will be able to access the specified objects. Learn more

☑ I understand the risk of granting public-read access to the specified objects.

▶ **Properties**

Specify storage class, encryption settings, tags, and more.

STEP 11-> The file has been uploaded successfully.



Instances | EC2 | ap-south-1
Instance details | EC2 | ap-south
Upload objects - S3 bucket shr
ap-south-1.console.aws.amazon.com/s3/upload/shreyanbucket?region=ap-south-1&bucketType=general
Services
Search
[Alt+S]
Mumbai
Shreyan Sengupta

Upload succeeded
View details below.

Summary

Destination	Succeeded	Failed
s3://shreyanbucket	3 files, 896.0 B (100.00%)	0 files, 0 B (0%)

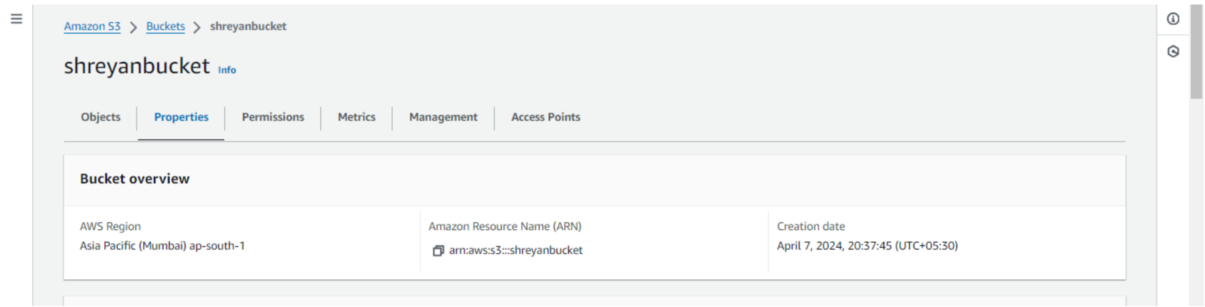
Files and folders | Configuration

Files and folders (3 Total, 896.0 B)

Name	Folder	Type	Size	Status	Error
about.html	-	text/html	299.0 B	Succeeded	-
index.html	-	text/html	301.0 B	Succeeded	-
services.html	-	text/html	296.0 B	Succeeded	-

Find by name
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
29°C Haze
ENG
20:45
07-04-2024

STEP 12-> From the bucket go to the Properties.

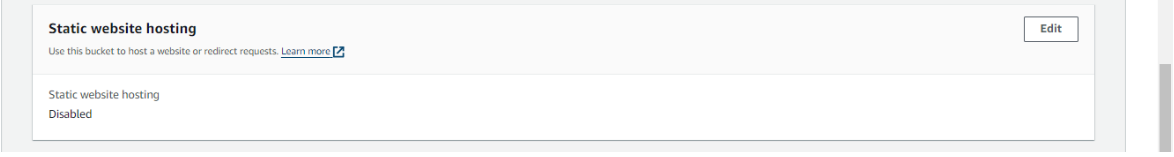


shreyanbucket

Bucket overview

AWS Region	Amazon Resource Name (ARN)	Creation date
Asia Pacific (Mumbai) ap-south-1	arn:aws:s3:::shreyanbucket	April 7, 2024, 20:37:45 (UTC+05:30)

STEP 13-> Scrolldown to the last-->In Static Website Hosting, click on Edit .

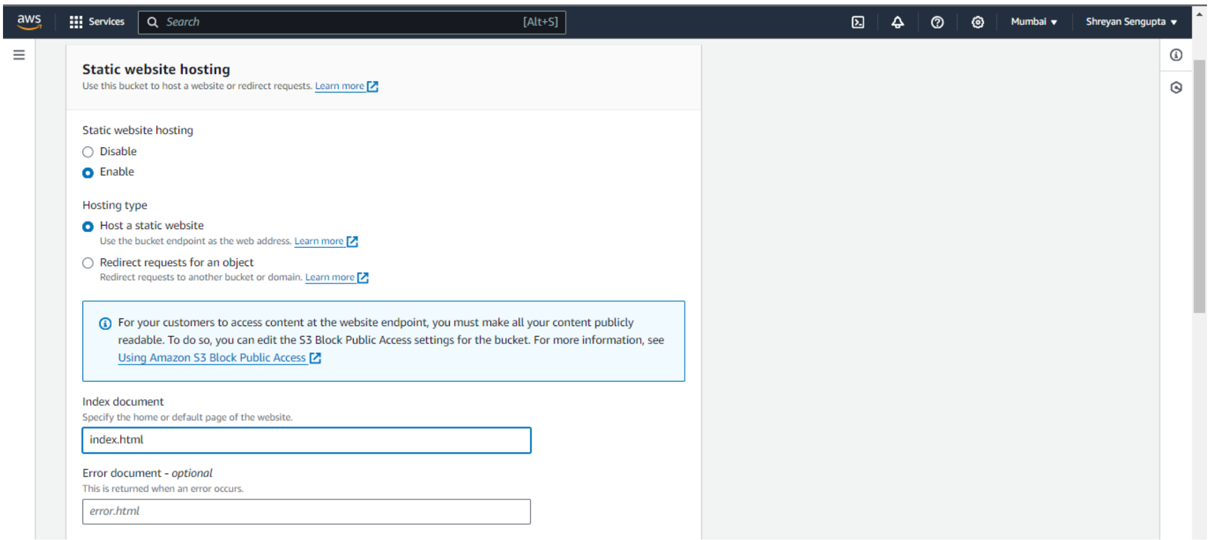


Static website hosting

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

Static website hosting
Disabled

STEP 14-> click on Enable Radiobutton. ThenGive the name of the index file “index.html”.



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.

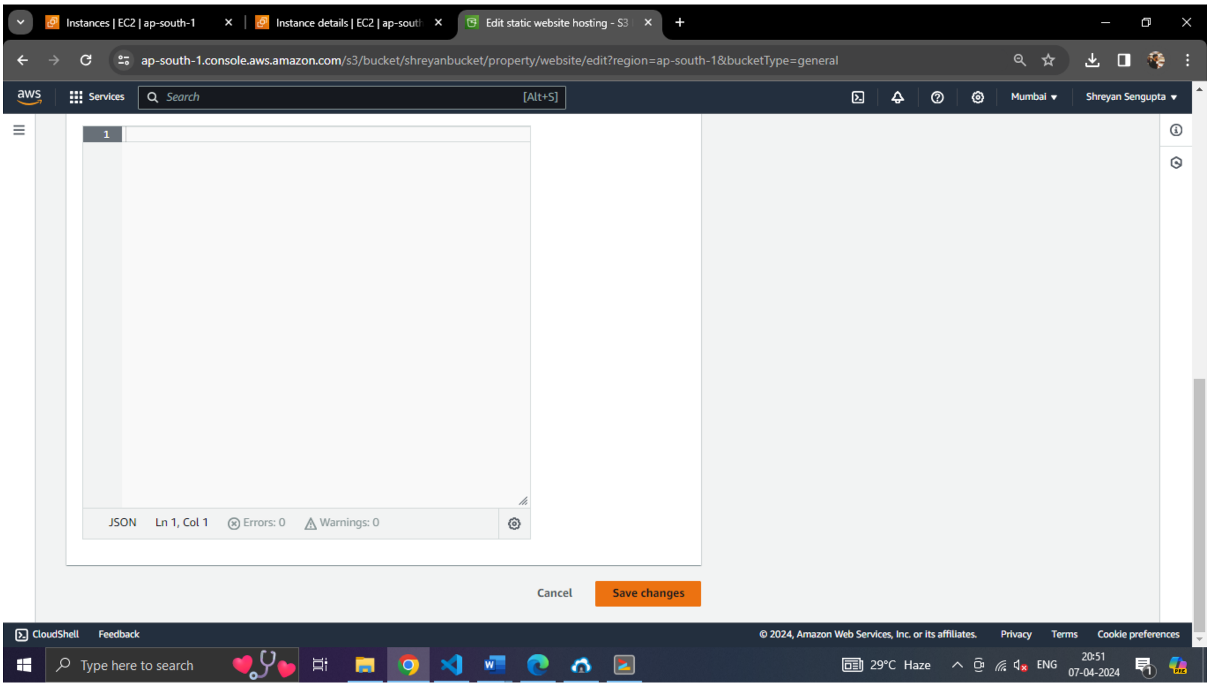
index.html

Error document - *optional*

This is returned when an error occurs.

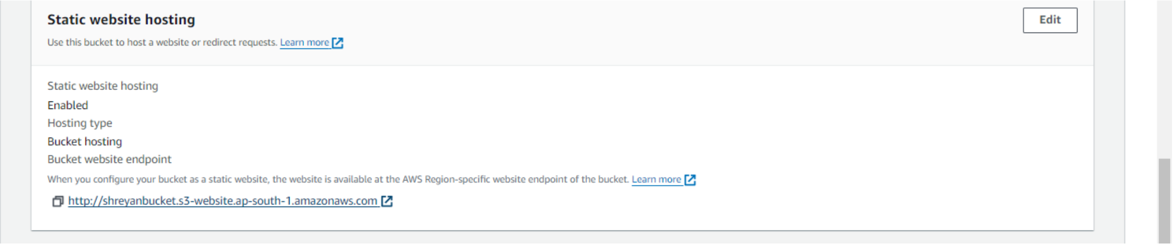
error.html

STEP 15-> Click on "Save Changes"



Instances | EC2 | ap-south-1
Instance details | EC2 | ap-south
Edit static website hosting - S3
ap-south-1.console.aws.amazon.com/s3/bucket/shreyanbucket/property/website/edit?region=ap-south-1&bucketType=general
aws
Services
Search [Alt+S]
Mumbai
Shreyan Sengupta
1
JSON
Ln 1, Col 1
Errors: 0
Warnings: 0
Cancel
Save changes
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
29°C Haze
ENG
20:51
07-04-2024

STEP 16-> From Static Website Hosting copy the URL.



Static website hosting

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

Static website hosting

Enabled

Hosting type

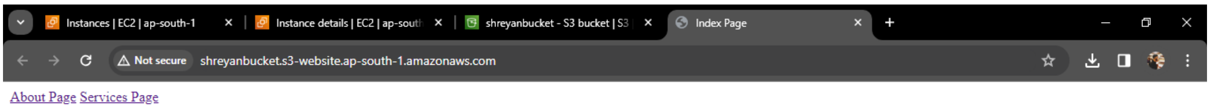
Bucket hosting

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://shreyanbucket.s3-website.ap-south-1.amazonaws.com

STEP 17-> Open a new window and paste the URL



Instances | EC2 | ap-south-1
Instance details | EC2 | ap-south
shreyanbucket - S3 bucket | S3
Index Page
Not secure

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

About Page Services Page