

Project : Host a static website using AWS S3 bucket.

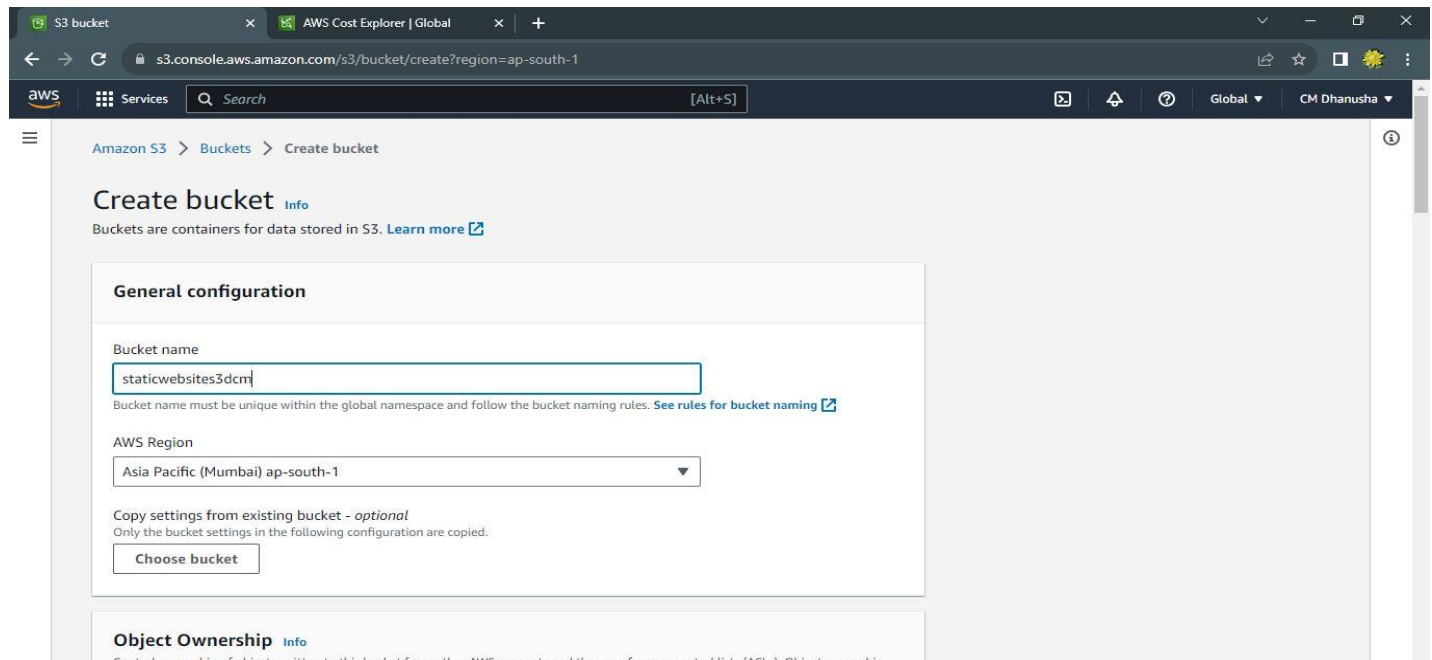
Tools used:

AWS S3 Bucket

Implementation:

1. Create an S3 bucket and upload index.html and error.html files to the bucket.
2. Enable ACL, so that it makes the objects within bucket publicly accessible to host the website.
3. Untick the block all public access.
4. Enable static website hosting and give index document as index.html and error document error.html.
5. Change the status of objects as public using ACL.
6. Open the url of the website to access it.

Screenshots:



S3 bucket

AWS Cost Explorer | Global

s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1

Services Search [Alt+S]

Global CM Dhanusha

Bucket name
staticwebsite
Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

AWS Region
Asia Pacific (Mumbai) ap-south-1

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket

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

S3 bucket

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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 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.

S3 bucket

AWS Cost Explorer | Global

s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1

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KMS. [Learn more](#)
☐ Disable
☒ Enable

▼ Advanced settings
Object Lock
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. [Learn more](#)
☒ Disable
☐ Enable
Permanently allows objects in this bucket to be locked. Additional Object Lock configuration is required in bucket details after bucket creation to protect objects in this bucket from being deleted or overwritten.

ⓘ Object Lock works only in versioned buckets. Enabling Object Lock automatically enables Bucket Versioning.

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

Cancel Create bucket

staticwebsites3dcm - S3 bucket x AWS Policy Generator x AWS Cost Explorer | Global x +

s3.console.aws.amazon.com/s3/buckets/staticwebsites3dcm?region=ap-south-1&tab=objects

Amazon S3

Buckets

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

AWS Organizations settings

Feature spotlight 3

staticwebsites3dcm

Info

Objects Properties Permissions Metrics Management Access Points

Objects (0)

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](#)

Copy S3 URI Copy URL Download Open Delete Actions

Create folder Upload

Find objects by prefix

1

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				
Upload				

S3 Management Console x AWS Policy Generator x AWS Cost Explorer | Global x +

s3.console.aws.amazon.com/s3/upload/staticwebsites3dcm?region=ap-south-1

Amazon S3 > Buckets > staticwebsites3dcm > 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 (2 Total, 3.1 KB)

Remove Add files Add folder

All files and folders in this table will be uploaded.

Find by name

1

Name	Folder	Type	Size
error.html	-	text/html	71.0 B
index.html	-	text/html	3.0 KB

Destination

staticwebsites3dcm - S3 bucket x staticwebsites3dcm.s3.ap-south-1 x AWS Policy Generator x AWS Cost Explorer | Global x +

s3.console.aws.amazon.com/s3/bucket/staticwebsites3dcm/property/website/edit?region=ap-south-1

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.

index.html

Error document optional

staticwebsites3dcm - S3 bucket staticwebsites3dcm.s3.ap-south- AWS Policy Generator AWS Cost Explorer | Global

s3.console.aws.amazon.com/s3/bucket/staticwebsites3dcm/property/website/edit?region=ap-south-1

Services Search [Alt+S]

Disable
Enable

Hosting type

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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

Redirection rules - optional
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

s3.console.aws.amazon.com/s3/buckets/staticwebsites3dcm?region=ap-south-1&tab=objects

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staticwebsites3dcm Info

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Create folder Upload

Find objects by prefix

	Name	Type	Last modified	Size
<input checked="" type="checkbox"/>	error.html	html	August 7, 2023, 20:06:08 (UTC+05:30)	
<input checked="" type="checkbox"/>	index.html	html	August 7, 2023, 20:06:08 (UTC+05:30)	

Actions

Copy

Move

Initiate restore

Query with S3 Select

Edit actions

Rename object

Edit storage class

Edit server-side encryption

Edit metadata

Edit tags

Make public using ACL

