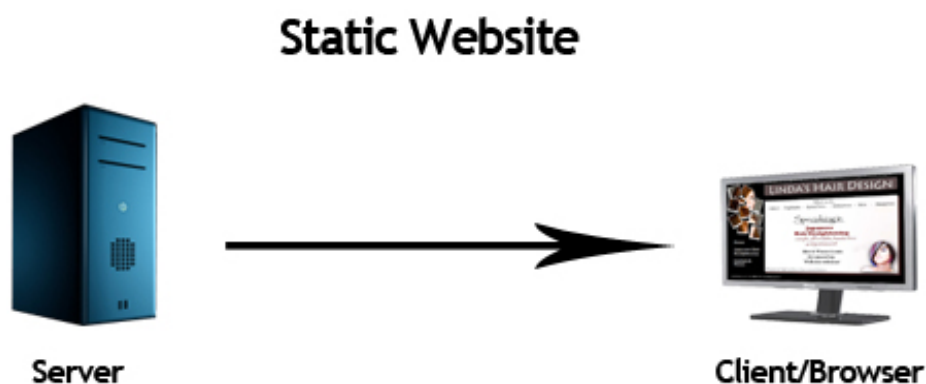


Simple Static Website on Amazon S3

Static website:

Static website is the basic type of website that is easy to create. You don't need the knowledge of web programming and database design to create a static website. Its web pages are coded in HTML. The codes are fixed for each page so the information contained in the page does not change and it looks like a printed page.



To set up a simple static website on Amazon S3, follow these steps:

- Create an S3 Bucket
- Enable Static Website Hosting
- Upload website content
- Set Object Permissions
- Verify Website Hosting

Why Host a Static Website on AWS S3

- Keep track of deployed website with no maintenance.
- Always virtually available
- No server costs incurred. Massive reduction on costs.

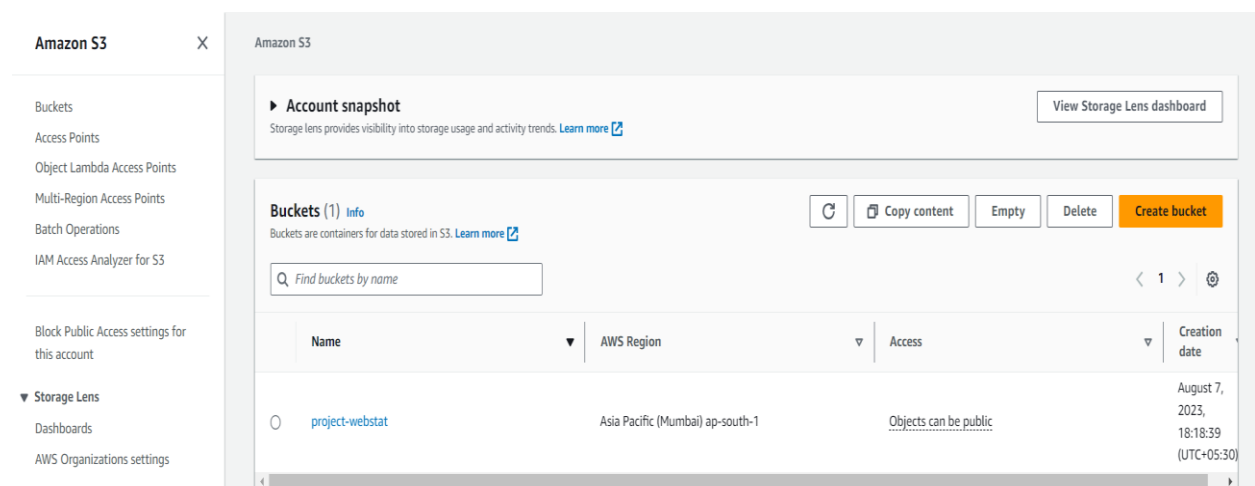
1. Create An S3 Bucket

Amazon S3: Amazon S3 (Simple Storage Service) is a cloud-based object storage service provided by Amazon Web Services (AWS). It allows users to store and retrieve any amount of data over the internet. S3 is designed to be highly scalable, durable, and secure, making it a

popular choice for various use cases, including website hosting, data backup, data archiving, content distribution, and application data storage.

Steps:

- Log in to your AWS account and navigate to the Amazon S3 dashboard.
- Click on the "Create bucket" button.
- Give your bucket a unique name and choose the appropriate region.
- Leave the default settings as they are and proceed to create the bucket.



2. Enable Static Website Hosting

Enabling static website hosting in AWS S3 allows you to host static websites directly from your S3 bucket. A static website is a website that consists of fixed content and does not require server-side processing or dynamic content generation. Instead, it primarily comprises HTML, CSS, JavaScript, images, and other static assets.

Steps:

- Once the bucket is created, select it from the list.
- Go to the "Properties" tab and scroll down to the "Static website hosting" section.
- Click on "Edit" and select the "Enable" option.
- In the "Index document" field, enter the name of your main HTML file (e.g., "index.html")
- Save the changes.

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](#)

i 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

3.Upload Website Content

- In your S3 bucket, click on the "Upload" button.
- Select the HTML, CSS, and any other necessary files that make up your portfolio website.
- Click on "Upload" to add the files to your bucket.

Objects (3)

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](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

[Previous](#) [1](#) [Next](#) [Settings](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	css/	Folder	-	-	-
<input type="checkbox"/>	images/	Folder	-	-	-
<input type="checkbox"/>	index.html	html	August 7, 2023, 18:21:47 (UTC+05:30)	2.9 KB	Standard

4. Set Object Permissions

- Select the file you want to make public in your bucket, such as "index.html."
- Click on "Properties" for the selected file.
- In the "Permissions" tab, find the "Access control list (ACL)" section and click "Edit."
- Add a new grantee with the following settings:
 - Grantee type: "Everyone"
 - Permission: "Read"
- Save the changes.

Block public access (bucket settings)

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 all your S3 buckets and 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 your buckets 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.

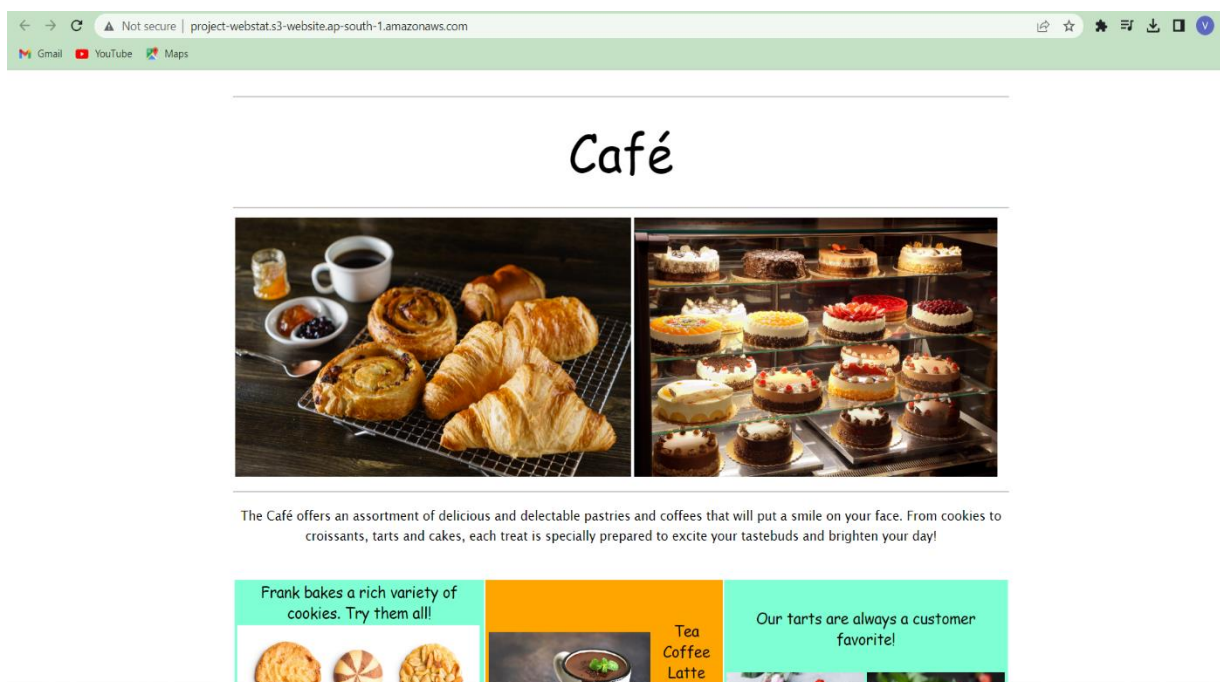
Cancel

Save changes

5. Verify Website Hosting

- After setting up the bucket and applying the necessary permissions, AWS will provide you with a website endpoint URL. You can find this under the "Static website hosting" section.
- Visit the provided endpoint URL in your web browser to verify that your portfolio website is up and running.

URL Link: <http://project-webstat.s3-website.ap-south-1.amazonaws.com>



References: <https://youtu.be/orEEW4pD53c>