

Hosting a Static Website on Google Cloud Storage

Objective:

Host a static website using Google Cloud Storage, including HTML/CSS files, configuring permissions, and making it publicly accessible.

Prerequisites:

- A Google Cloud account (with billing enabled)
- Basic HTML/CSS files (we'll provide an example)

Step 1: Prepare Your Static Website Files

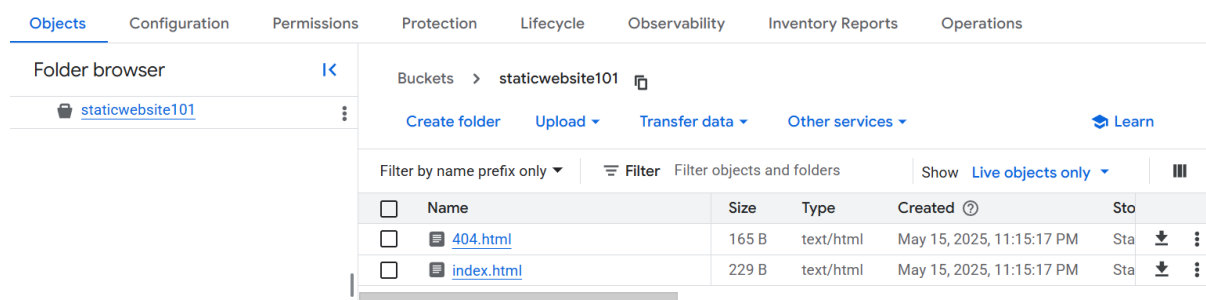
1. If you have a website then just use that or if you don't have any then you can download from the GitHub.

Step 2: Create a New GCS Bucket

1. Go to **Cloud Console > Cloud Storage > Buckets**.
2. Click **Create Bucket**.
3. Name the bucket **exactly the same as your domain name** (e.g., `www.example.com`) if you're using a custom domain. Otherwise, any unique name works.
4. Choose a **location** (e.g., `us-central1`).
5. **Storage class**: Standard.
6. Click **Create**.

Step 3: Upload Your Website Files

1. Click into your bucket.
2. Click **Upload Files** and upload `index.html` and `404.html`.



Step 5: Make Objects Public

1. Go to the bucket > **Permissions**.
2. Click **"Grant Access"**.
3. Add **allUsers** as **principal**.
4. Assign the role: **Storage Object Viewer**.


5. Click **Save**.

Resource

 staticwebsite101

Add principals

Principals are users, groups, domains, or service accounts. [Learn more about principals in IAM](#)

 Adding "allUsers" makes this resource **public and accessible to anyone on the internet**.

New principals *

allUsers X



Assign roles

Roles are composed of sets of permissions and determine what the principal can do with this resource. [Learn more](#)

Role *

Storage Object Viewer

IAM condition (optional) ?

+ Add IAM condition





Grants access to view objects and their metadata, excluding ACLs. Can also list the objects in a bucket.

Save


Cancel


6. This makes all objects in the bucket publicly readable (important for website hosting).


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| | | | |
|----------------------|---------------|--|-------------|
| Location | Storage class | Public access | Protection |
| asia-south1 (Mumbai) | Standard |  Public to internet | Soft Delete |

Objects Configuration Permissions Protection Lifecycle Observability Inventory Reports Operations







Folder browser 

 staticwebsite101

Buckets > staticwebsite101 

Create folder Upload Transfer data Other services Learn

Filter by name prefix only Filter Filter objects and folders Show Live objects only

| <input type="checkbox"/> | Name | Size | Type | Created ? | Sto |
|--------------------------|--|-------|-----------|---------------------------|---|
| <input type="checkbox"/> |  404.html | 165 B | text/html | May 15, 2025, 11:15:17 PM | Sta   |
| <input type="checkbox"/> |  index.html | 229 B | text/html | May 15, 2025, 11:15:17 PM | Sta   |

7. Now you need to go inside the index.html file and copy the Public URL and paste it in a new tab you will see your Static website up and running.

[Download](#) [Edit Metadata](#) [Edit Access](#) [Delete](#)

Overview

| | |
|---------------------|---|
| Type | text/html |
| Size | 229 B |
| Created | May 15, 2025, 11:15:17 PM |
| Last modified | May 15, 2025, 11:15:17 PM |
| Storage class | Standard |
| Custom time | — |
| Public URL ? | https://storage.googleapis.com/staticwebsite101/index.html |
| Authenticated URL ? | https://storage.cloud.google.com/staticwebsite101/index.html?authuser=1 |
| gsutil URI ? | gs://staticwebsite101/index.html |

Permissions

Public access ⚠️ Public to internet

Protection

storage.googleapis.com/staticwebsite101/index.html

Welcome to My Static Website on GCP!

This is served from a GCS bucket.

- Similarly, you can also view the other file which 404.html and you will see that it is also working.

storage.googleapis.com/staticwebsite101/404.html

Oops! Page Not Found