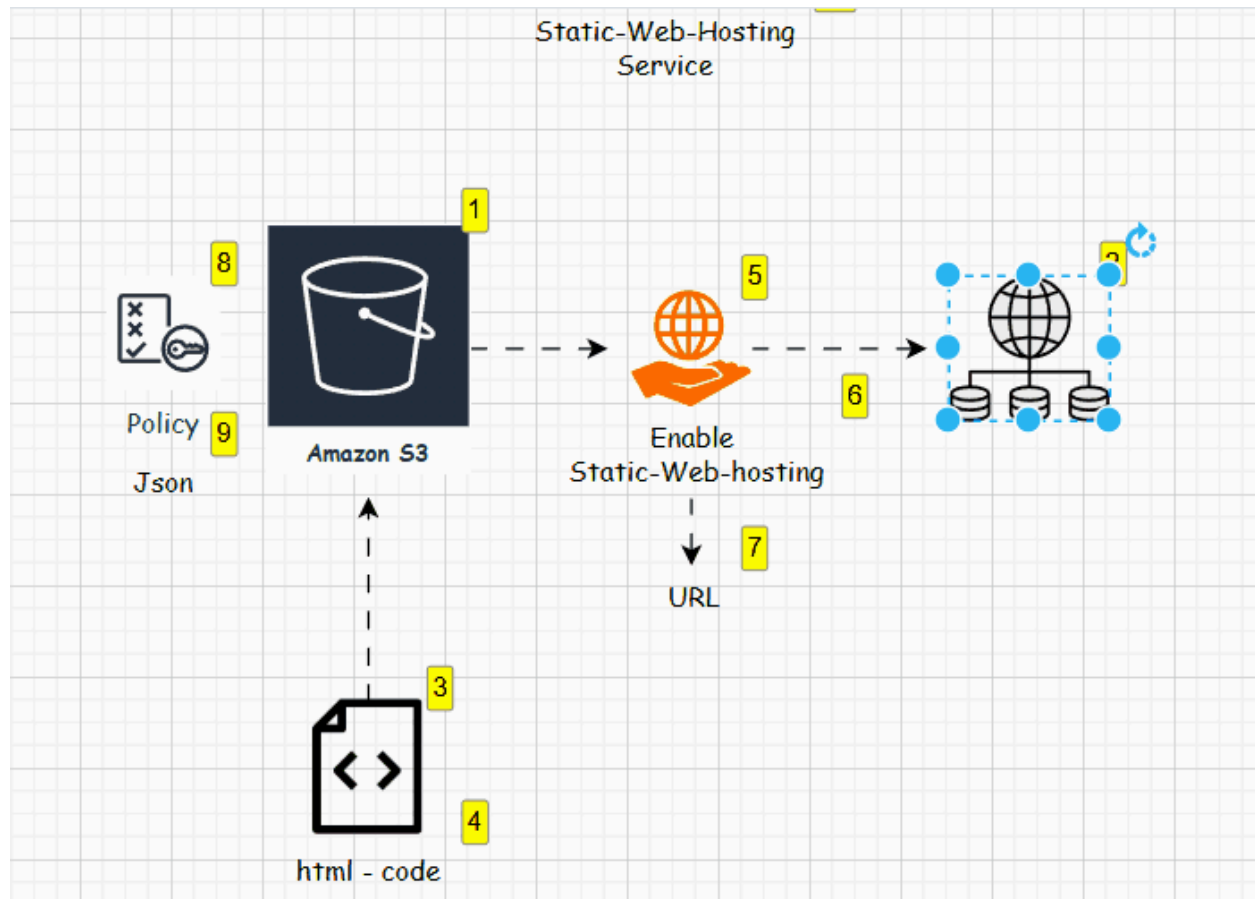


Static web hosting on Amazon S3 (Simple Storage Service) allows you to host static websites directly from an S3 bucket. A **static website** includes files like HTML, CSS, JavaScript, and media files (images, videos) — but no server-side code (e.g., PHP, [Node.js](#)).



♦ What Is Static Web Hosting on S3?

When enabled, Amazon S3 serves your website files directly over the internet via HTTP or HTTPS. You can use it to:

- Host a single-page application (SPA)
- Serve static assets for a web app
- Deploy a simple personal or portfolio site

◆ Key Characteristics

- **Only static content** — no dynamic server-side code
- Highly durable and available (Amazon S3 is designed for 99.999999999% durability)
- Can integrate with **Amazon CloudFront** (CDN) for improved performance and HTTPS
- Can use **custom domain names**

✓ How to Enable Static Website Hosting on S3

Here's a step-by-step guide:

1. Create an S3 Bucket

- Go to the [AWS S3 Console](#).
- Click “**Create bucket**”.
- Give it a unique name (e.g., `my-website-bucket`).
- Choose the appropriate region.
- **Important:** Uncheck "Block all public access" if you want the content publicly accessible (you'll be warned about this).

2. Upload Website Files

- Open your new bucket.
- Click “**Upload**” > add files (e.g., `index.html`, `style.css`, etc.) > upload.

3. Enable Static Website Hosting

- Go to the bucket settings.

- Click “**Properties**” tab.
- Scroll to “**Static website hosting**”.
- Click “**Edit**”.
- Choose “**Enable**”.
- Enter:
 - **Index document:** `index.html`
 - **Error document:** `error.html` (optional)
- Save changes.

4. Make Files Public (Manually or via Bucket Policy)

- For each file: Click the file > **Permissions** > **Make public**.
- Or set a **bucket policy** to allow public read access:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::my-website-bucket/*"
    }
  ]
}
```

(Replace `my-website-bucket` with your bucket name)

5. Access Your Website

- In the **Static website hosting** section, you'll see the **Endpoint URL** (e.g., <http://my-website-bucket.s3-website-us-east-1.amazonaws.com>)
 - Visit this URL to see your website live.
-

Optional: Use Custom Domain + HTTPS

- Use **Amazon Route 53** to point your domain to your S3 bucket.
 - Use **Amazon CloudFront** to:
 - Serve content via HTTPS
 - Improve performance via edge caching
 - Add custom domain support with SSL/TLS
-