

STATIC WEBSITE HOSTING WITH AWS S3

Step 1: Create an S3 Bucket

1. **Go to the S3 Console:** Log in to your AWS Management Console and navigate to the [S3 service](#).
2. **Create a New Bucket:**
 - Click on "Create bucket."
 - Enter a unique bucket name (e.g., `your-website-name`).
 - Choose the AWS region closest to your audience.
 - Uncheck "Block all public access" to allow public access to your website files (you will configure permissions later).
 - Click "Create bucket."

Step 2: Upload your website files

1. **Open the S3 Bucket:**
 - Click on your newly created bucket from the list.
2. **Upload Files:**
 - Click "Upload" and select the HTML, CSS, JavaScript, and any other static files (like images) that make up your website.

- Click "Upload" to add these files to the bucket.

Step 3: Configure the S3 Bucket for Static Website Hosting

1. Enable Static Website Hosting:

- In your bucket, go to the "Properties" tab.
- Scroll down to find "Static website hosting" and click "Edit."
- Select "Enable" for Static website hosting.
- Enter the name of your index document (usually `index.html`).
- Enter the name of your error document (like `error.html`) if you have one.
- Click "Save changes."

Step 4: Set Bucket Policy to Make Your Website Public

1. Go to the Permissions Tab:

- Navigate to the "Permissions" tab in your S3 bucket.

2. Edit Bucket Policy:

- Click "Edit" next to "Bucket Policy."
- Copy and paste the following JSON policy to allow public read access:

```
2. {  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Sid": "PublicReadGetObject",  
            "Effect": "Allow",  
            "Principal": "*",  
            "Action": "s3:GetObject",  
            "Resource": "arn:aws:s3:::your-website-name/*"  
        }  
    ]  
}
```

3.

- Replace `your-website-name` with the name of your bucket.
- Click "Save changes."

Step 5: Access Your Static Website

1. Get the Website URL:

- Go back to the "Properties" tab of your bucket.
- Scroll to "Static website hosting" and copy the "Bucket website endpoint" URL.

2. Visit Your Website:

- Paste the endpoint URL into your browser's address bar to view your hosted static website.

Optional: Configure a Custom Domain (If Needed)

1. Purchase a Domain: If you don't already have one, purchase a domain from a registrar like AWS Route 53.

2. Create a Route 53 Hosted Zone: Set up DNS records in Route 53 or your domain registrar to point your domain to your S3 bucket.

3. Update S3 Bucket Settings:

- In the "Static website hosting" section, specify your custom domain name.

- Add an alias in Route 53 to point to your S3 bucket.