Simple Website Hosting using AWS S3 and Terraform

For this project, I will be using Terraform to create the resources I need to host a static website on S3.

```
C:\Users\Miguel Huerto\Desktop\terraform_course>cd ..
C:\Users\Miguel Huerto\Desktop>mkdir s3staticwebsite
C:\Users\Miguel Huerto\Desktop>cd s3staticwebsite
C:\Users\Miguel Huerto\Desktop\s3staticwebsite> code .
```

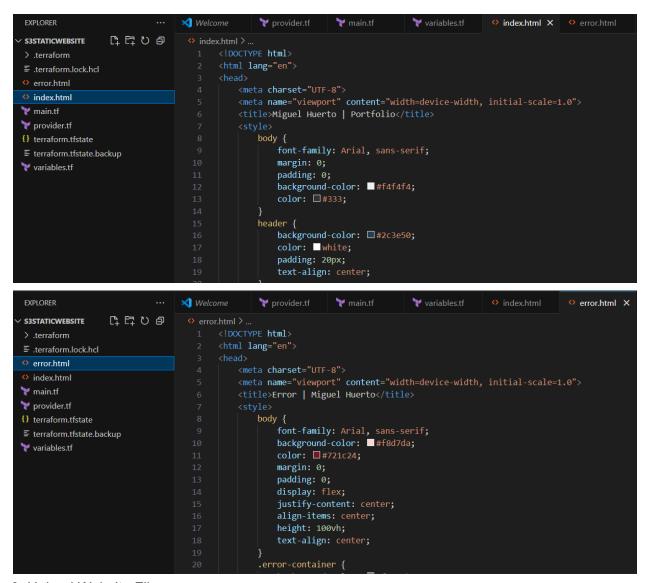
```
⋈ Welcome
                                                    provider.tf X
 EXPLORER
                   同の打打
                                    🚩 provider.tf > ધ provider "aws"
✓ S3STATICWEBSITE
                                           terraform {
 🏋 provider.tf
                                             required providers {
                                               aws = {
                                                 source = "hashicorp/aws"
                                                 version = "5.88.0"
                                           provider "aws" {
                                           # Configuration options
                                           }
                                     12
```

```
PS C:\Users\Miguel Huerto\Desktop\s3staticwebsite> terraform init
Initializing the backend...
Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.88.0"...
- Installing hashicorp/aws v5.88.0...
```

1. Create an S3 Bucket

2. Configure the bucket for Static Website Hosting

```
resource "aws_s3_bucket_ownership_controls" "example"
  bucket = aws s3 bucket.mybucket.id
  rule {
    object ownership = "BucketOwnerPreferred"
resource "aws s3 bucket public access block" "example" {
  bucket = aws s3 bucket.mybucket.id
  block_public_acls = false
 block_public_policy = false
ignore_public_acls = false
  restrict public buckets = false
resource "aws_s3_bucket_acl" "example" {
  depends on = [
    aws s3 bucket ownership controls.example,
    aws s3 bucket public access block.example,
  bucket = aws_s3_bucket.mybucket.id
  acl = "public-read"
```



3. Upload Website Files

```
resource "aws_s3_object" "index" {
  bucket = aws_s3_bucket.mybucket.id
  key = "index.html"
  source = "index.html"
  acl = "public-read"
  content_type = "text/html"
}

resource "aws_s3_object" "error" {
  bucket = aws_s3_bucket.mybucket.id
  key = "error.html"
  source = "error.html"
  acl = "public-read"
  content_type = "text/html"
}
```

```
resource "aws_s3_bucket_website_configuration" "example" {
  bucket = aws_s3_bucket.mybucket.id

index_document {
    suffix = "index.html"
  }

error_document {
    key = "error.html"
  }

depends_on = [aws_s3_bucket_acl.example]
}
```

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