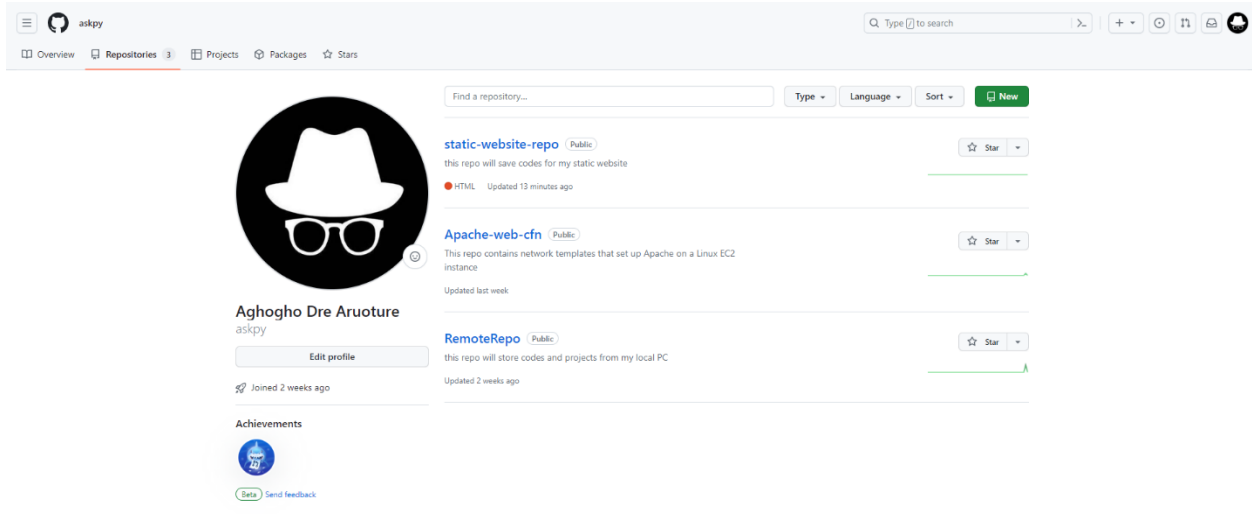


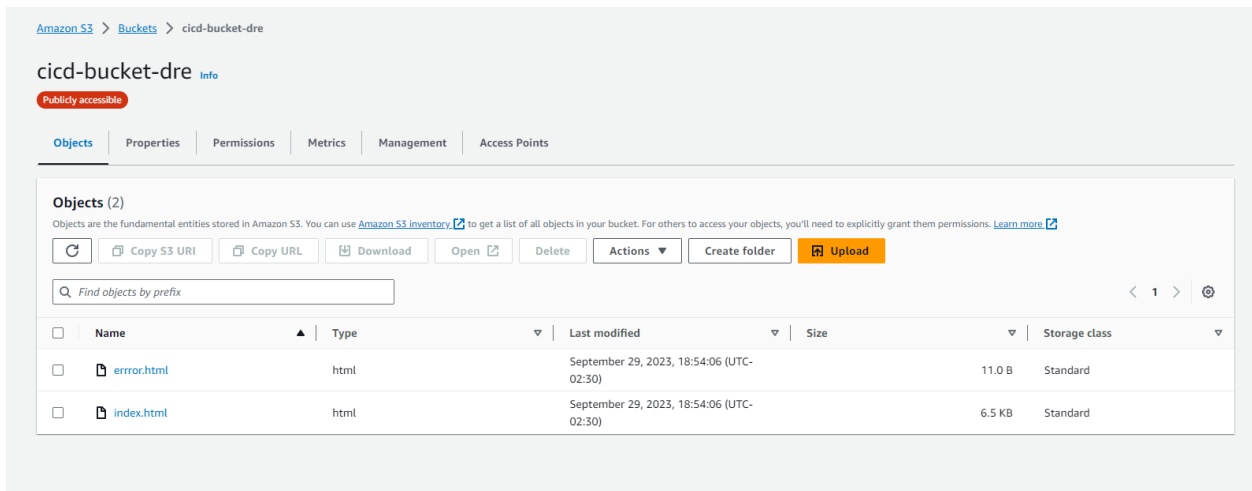
## Project By: AGHOGHO DRE ARUOTURE

Setting a two stages CI/CD pipeline using CodePipeline to automatically deploy a static website on amazon S3 bucket

In this case, the source code is my Github repository <https://github.com/askpy/static-website-repo.git>  
**Codepipeline allows you to choose from a list of source code**



An S3 bucket was created and error.html and index.html files(objects) were uploaded



## Static Website has to be enabled on the S3 bucket

The screenshot shows the Amazon S3 console interface. On the left is a navigation sidebar with options like Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Block Public Access settings, Storage Lens, Dashboards, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area displays the settings for a specific bucket. It includes three sections: 'Object Lock' (disabled), 'Requester pays' (disabled), and 'Static website hosting' (enabled). The 'Static website hosting' section shows the bucket's endpoint: <http://cicd-bucket-dre-s3-website-us-east-1.amazonaws.com>.

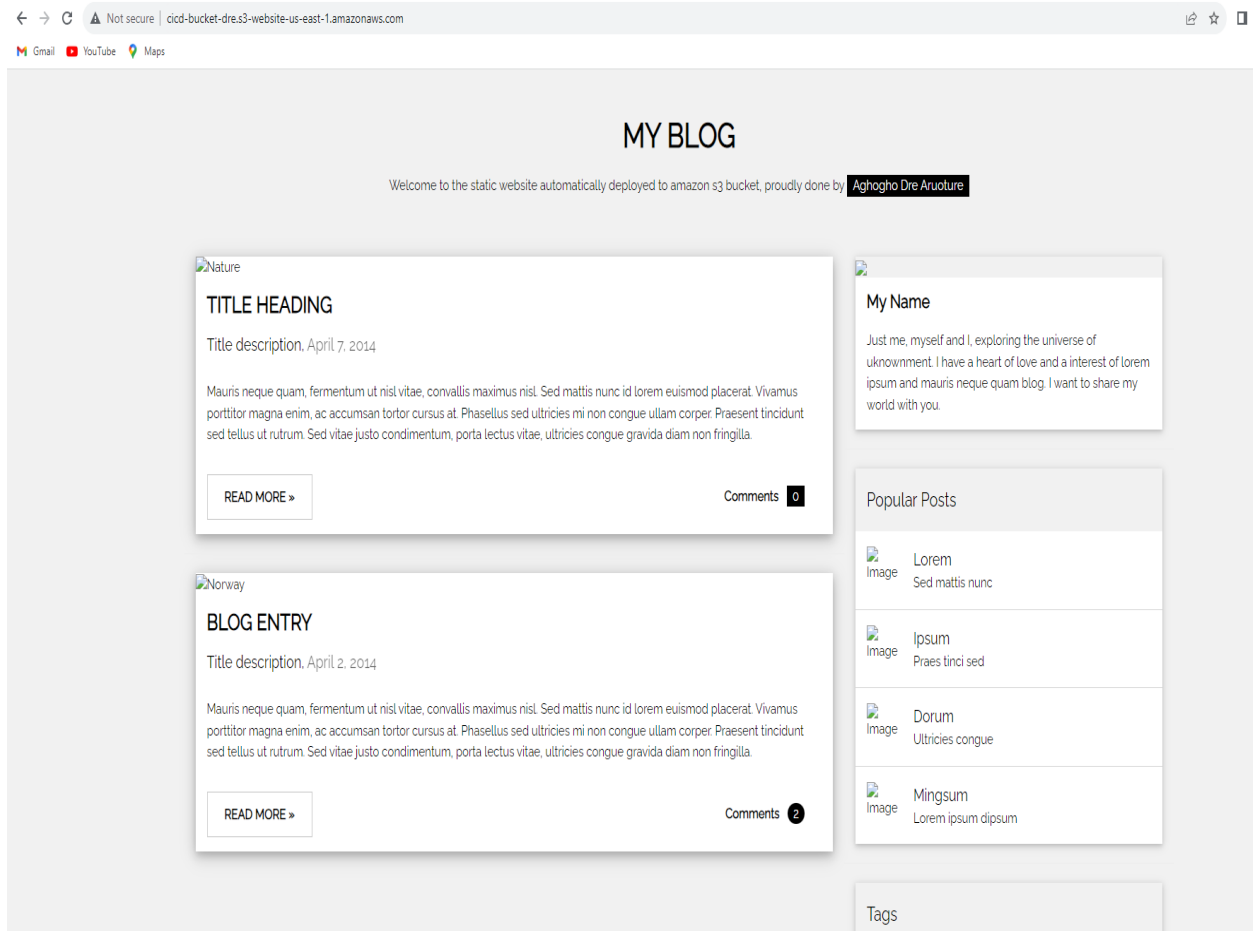
## A bucket policy is also written to give the permission to users

This screenshot shows the 'Bucket policy' section of the Amazon S3 console. It displays a JSON policy that grants 'GetObject' permissions to the 'Public' role. The policy is as follows:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "For the General Public",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3::cicd-bucket-dre/*"
    }
  ]
}
```

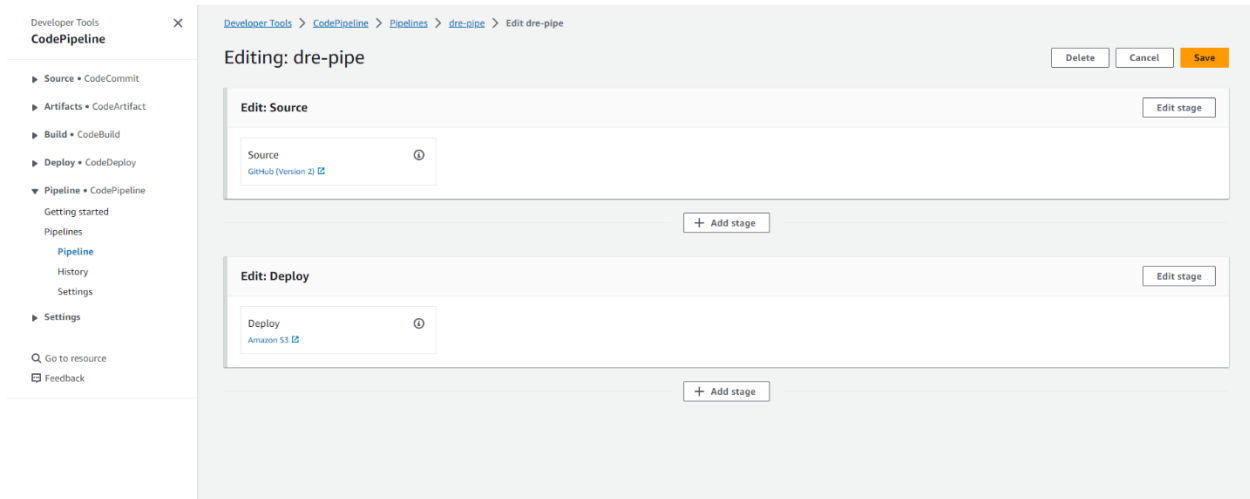
The console also shows the 'Block public access (bucket settings)' section, which is currently set to 'Off'. There are 'Edit' and 'Delete' buttons for the policy, and a 'Copy' button for the JSON text.

The static website is tested manually using the S3 bucket Dns name <http://cid-bucket-dre.s3-website-us-east-1.amazonaws.com> <http://cid-bucket-dre.s3-website-us-east-1.amazonaws.com>



A two stages CI/CD pipeline was created using Codepipeline to automate the deployment of the static website on amazon S3 bucket anytime the developer makes a change to the code(website)

In the codepipeline console, my github version 2 was linked to it and the deployment path was defined to be S3 bucket.



Two stages CI/CD pipeline successfully built. Any changes on the code pushed to the source code (github) will be automatically built, tested and deployed henceforth

