REPORT

Week-1: Create a static website hosted on Amazon S3.

Introduction:
This report outlines the successful completion of the task to create a static website hosted on Amazon S3. The objective was to design a website that is built using static web pages and deploy it on Amazon Simple Storage Service (S3). The project aimed to demonstrate the ability to create a simple, yet functional website using HTML, CSS, and JavaScript, and host it on Amazon S3 for reliable and scalable web hosting.
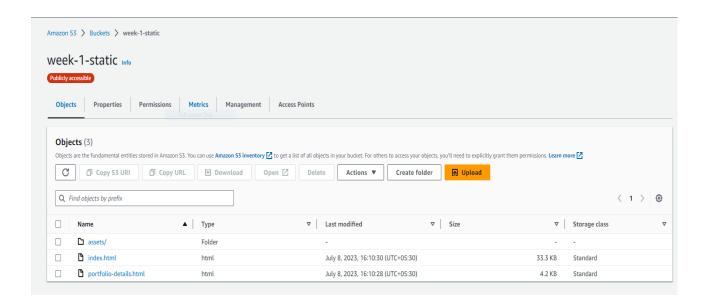
Project Scope:
The scope of this project included the following key tasks:
- Designing a static portfolio website.
- Creating an Amazon S3 bucket.
- Uploading the website content to the bucket hosting.
- Configuring the bucket for static website.
- Configuring bucket policies and setting up appropriate permissions.
- Testing and verifying the website functionality.

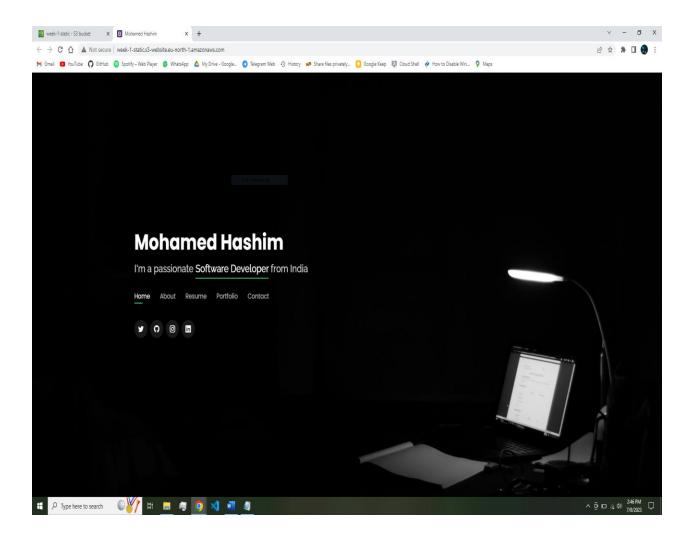### Step-by-Step Guide to Creating a Static Website Hosted on Amazon S3:
- Sign in to the AWS Management Console.
- Open the Amazon S3 service.
- Create a new bucket.
- Enter a unique name for bucket.
- Uncheck the Block all public access checkbox in the "Block Public Access setting for this bucket" section & acknowledge the S3 bucket and its content being made public.
- Click on the Create Bucket button at the bottom.
- Upload Website contents to the S3 Bucket.
- Setting up Static Web Hosting in S3 Bucket from properties.
- Setting up Permissions in S3 Bucket by moving to the bucket policy section.
- Test and verify website by AWS URL in properties from Static Web Hosting.

week-1-static Info

Publicly accessible

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (3)

Objects are the fundamental entities stored in Amazon S3. You can use **Amazon S3 inventory** ↗ to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. **Learn more** ↗

⟳ | Copy S3 URI | Copy URL | Download | Open ↗ | Delete | Actions ▾ | Create folder | **Upload**

🔍 Find objects by prefix

‹ 1 › ⚙

	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class ▽
☐	📄 assets/	Folder	-	-	-
☐	📄 index.html	html	July 8, 2023, 16:10:30 (UTC+05:30)	33.3 KB	Standard
☐	📄 portfolio-details.html	html	July 8, 2023, 16:10:28 (UTC+05:30)	4.2 KB	Standard

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PublicReadGetObject",
            "Effect": "Allow",
            "Principal": "*",
            "Action": "s3:GetObject",
            "Resource": "arn:aws:s3:::week-1-static/*"
        }
    ]
}
```

Reference :

https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteAccessPermissionsReqd.html

https://stackoverflow.com/questions/41498655/s3-bucket-policy-for-hosted-static-website

https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteHosting.html