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SWE 645 Assignment 1

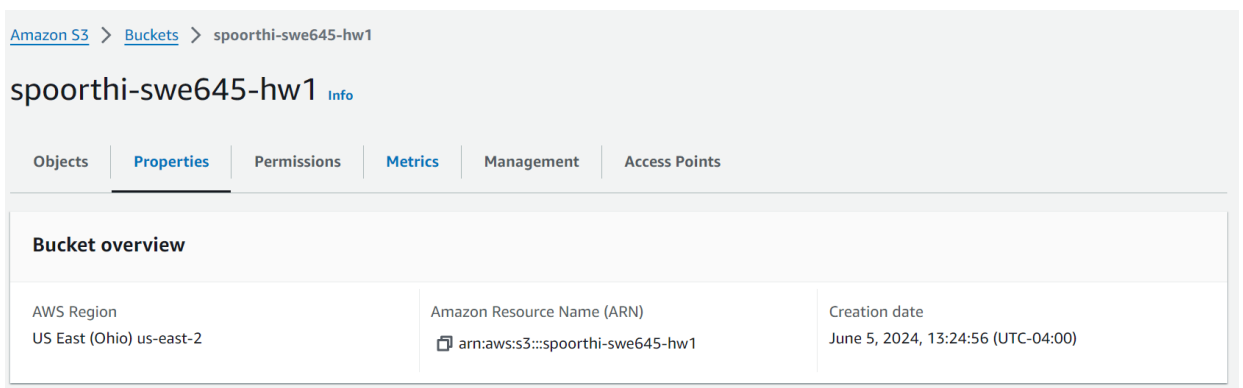## Part 1 – Hosting the Homepage in S3:

S3 Link: http://spoorthi-swe645-hw1.s3-website.us-east-2.amazonaws.com/

index.html: https://spoorthi-swe645-hw1.s3-website.us-east-2.amazonaws.com/index.html

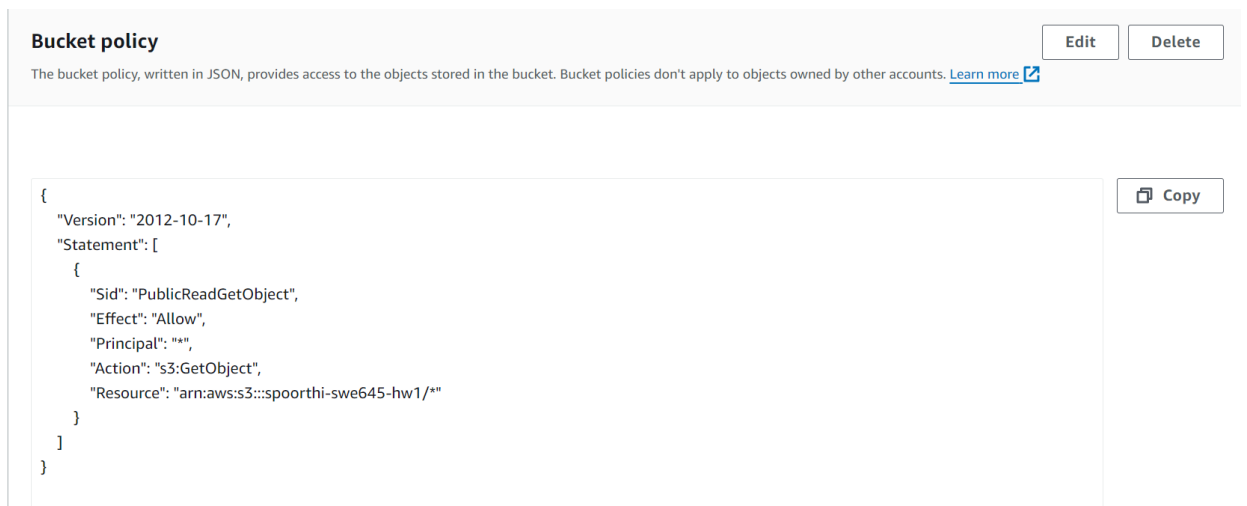*error.html*: http://spoorthi-swe645-hw1.s3-website.us-east-2.amazonaws.com/error.html

Created my homepage using HTML, CSS, JavaScript and Bootstrap.

1. Created a S3 bucket named "*spoorthi-swe645-hw1*"

Amazon S3 > Buckets > spoorthi-swe645-hw1

spoorthi-swe645-hw1 Info

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

Bucket overview

| AWS Region	Amazon Resource Name (ARN)	Creation date
US East (Ohio) us-east-2	arn:aws:s3:::spoorthi-swe645-hw1	June 5, 2024, 13:24:56 (UTC-04:00)

2. Enabled public access and created bucket policy to make the objects publicly accessible.

Bucket policy Edit Delete

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PublicReadGetObject",
            "Effect": "Allow",
            "Principal": "*",
            "Action": "s3:GetObject",
            "Resource": "arn:aws:s3:::spoorthi-swe645-hw1/*"
        }
    ]
}
```

3. Enabled static site hosting, configured *index.html* and *error.html*
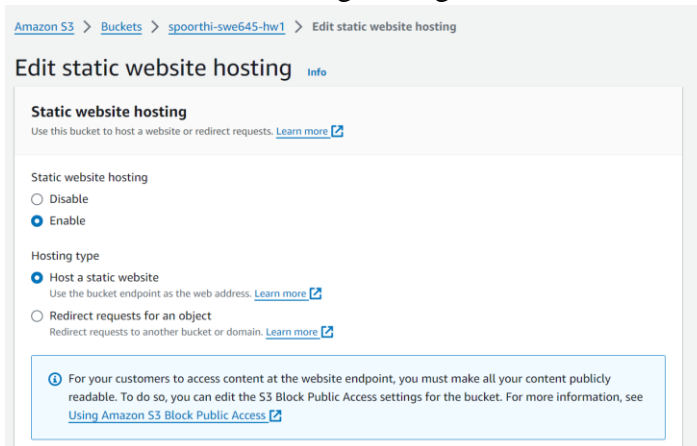
4. Uploaded the project files.
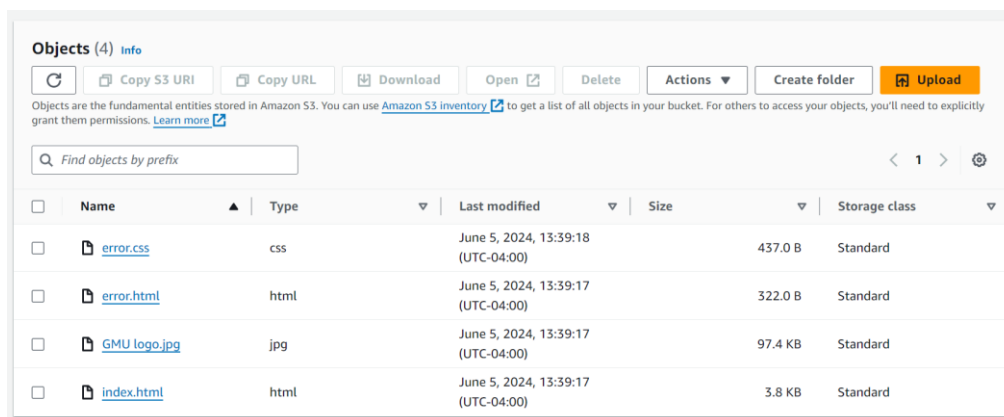
5. Accessed the webpage using
http://spoorthi-swe645-hw1.s3-website.us-east-2.amazonaws.com/
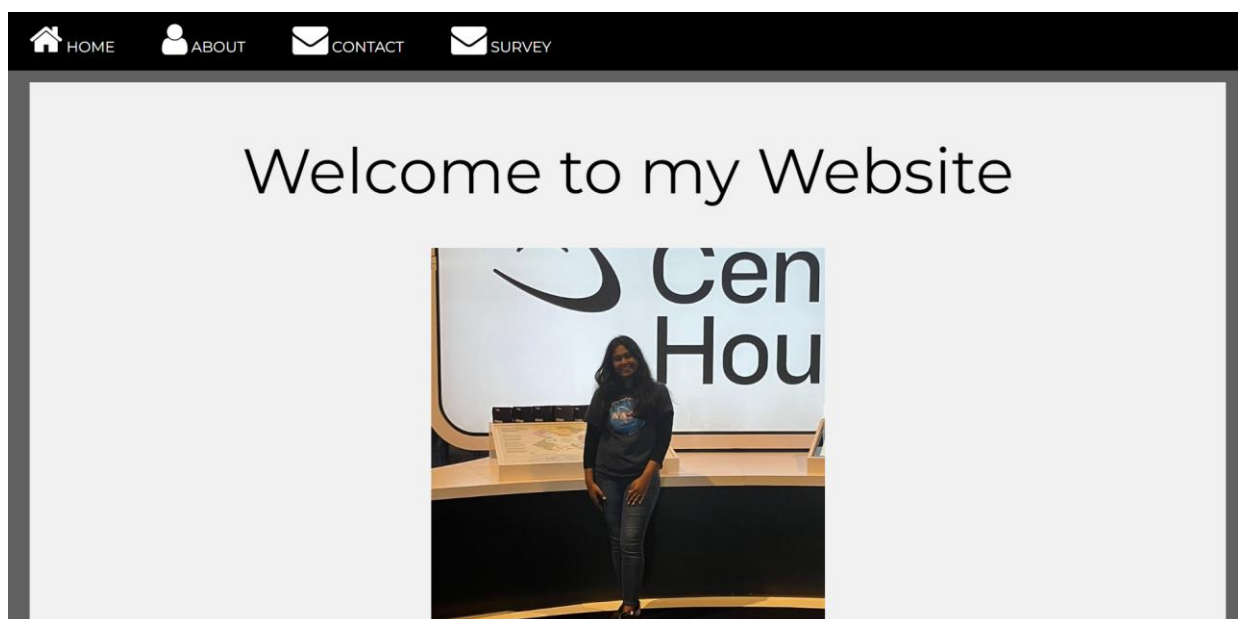
6. Survey page can be accessed by clicking on the "**Survey**" button

Part 2 – Hosting Survey page in EC2:
http://3.19.148.116/survey.html

1. Created survey page using HTML, CSS, JavaScript, and Bootstrap.

2. Created a EC2 instance named "*spoorthi-swe645-hw1*" with a "*Ubuntu Server 22.04 LTS*" image.

Created a key pair permission file called "*spoorthi-swe645-hw1.ppk*" file.

3. Modified Network settings and firewall to all SSH clients along with HTTP & HTTPS traffic.
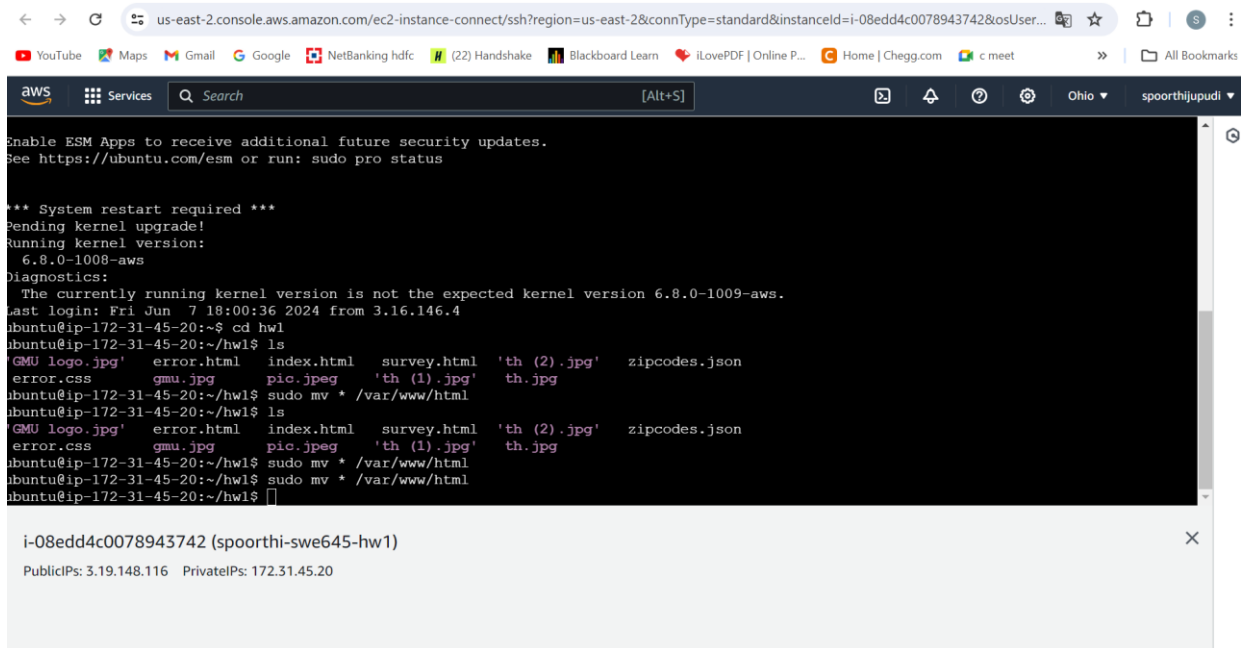
Security groups

sg-0a6b496e7fd1a2c47 (launch-wizard-1)

▼ Inbound rules

Name	Security group rule ID	Port range	Protocol	Source
–	sgr-01313c03a7e7854a5	22	TCP	0.0.0.0/0
–	sgr-074b5304d5a3a8a45	443	TCP	0.0.0.0/0
–	sgr-0d67313aa4804843a	80	TCP	0.0.0.0/0

4. Once the instance is up and running, and all the checks are passed. I connected to the instance using AWS console.

5. Updated the ubuntu image by running "*sudo apt-get update*".

6. Installed apache webserver by running "*sudo apt-get install apache2*".

7. Copied the local program files into the web server deployment folder at "*/var/www/html*" using winscp.
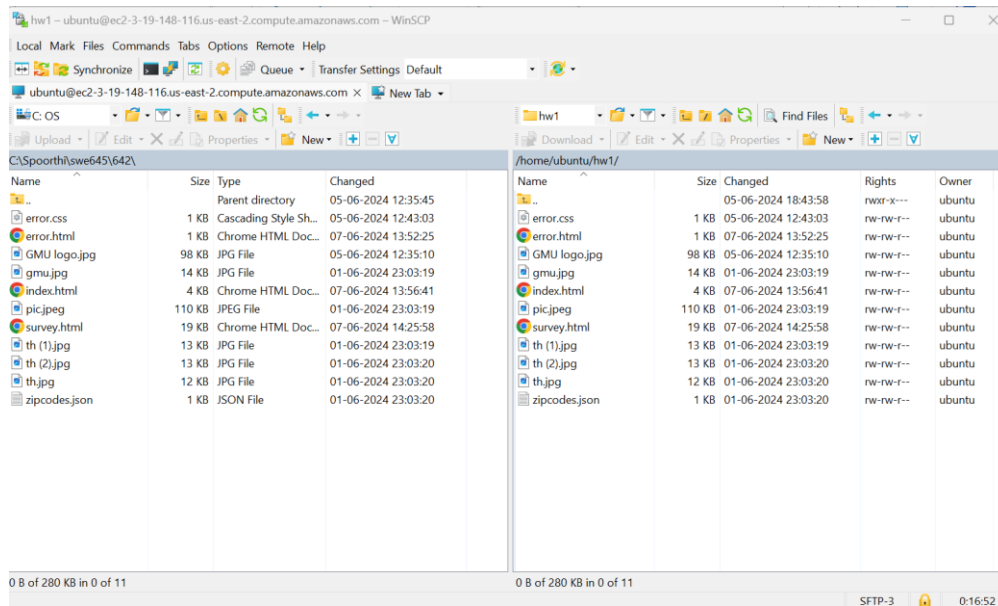
8. Accessed the survey page using http://3.19.148.116/survey.html

Homepage can be accessed by clicking the "**Home**" link