

SWE 645 Assignment 1

Part 1 – Hosting the Homepage in S3:

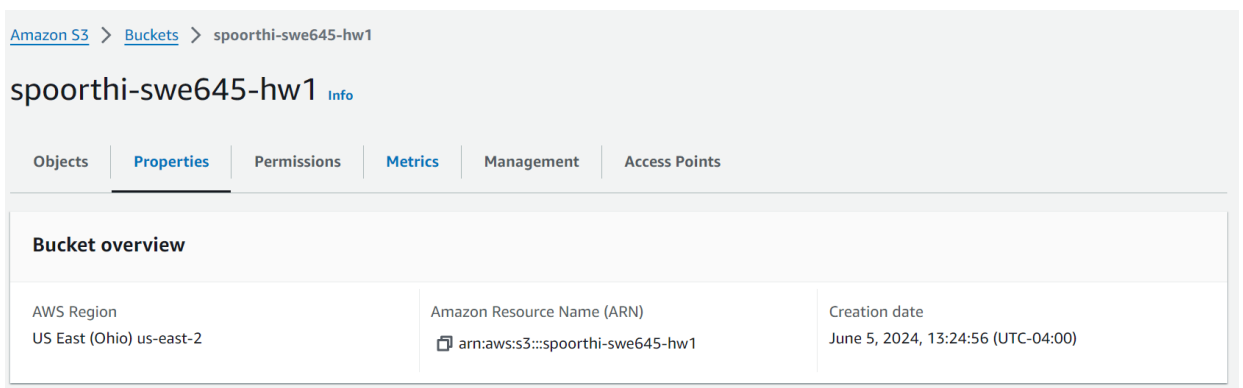
S3 Link: <http://spoorthi-swe645-hw1.s3-website.us-east-2.amazonaws.com/>

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

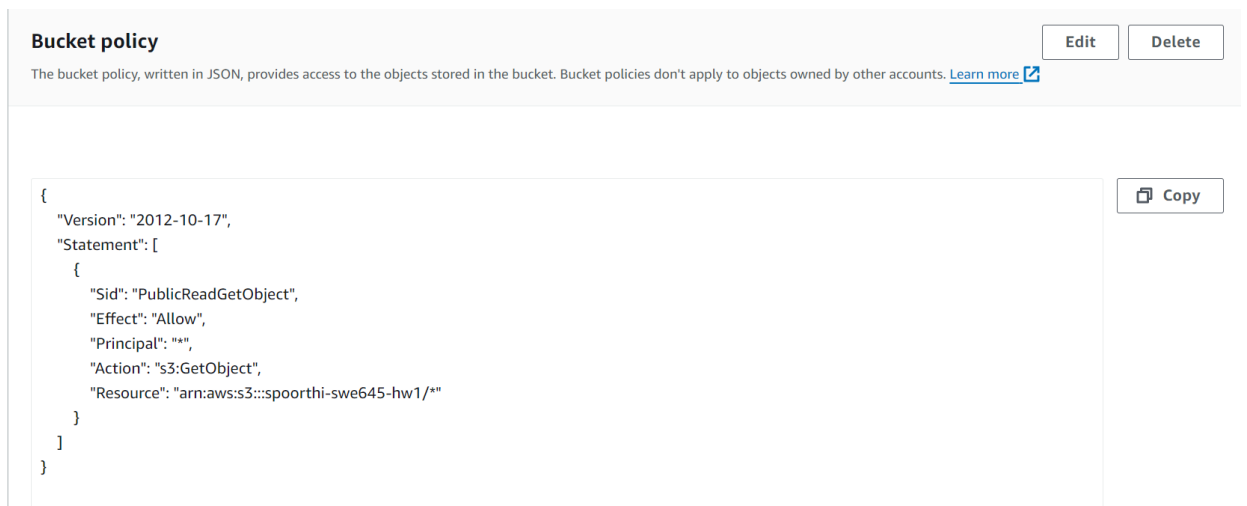
error.html: <http://spoorthi-swe645-hw1.s3-website.us-east-2.amazonaws.com/error.html>

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

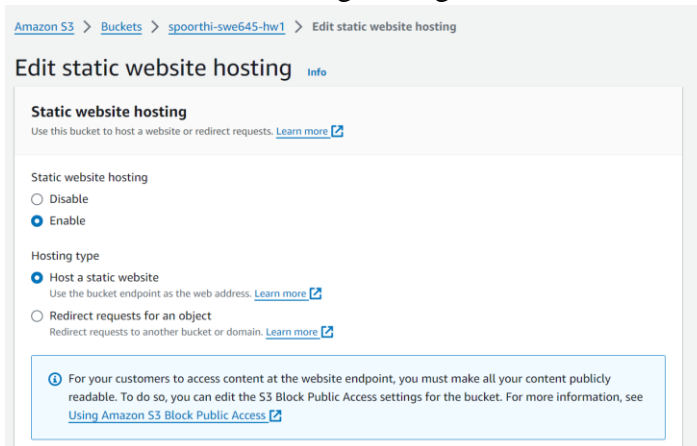
1. Created a S3 bucket named “*spoorthi-swe645-hw1*”



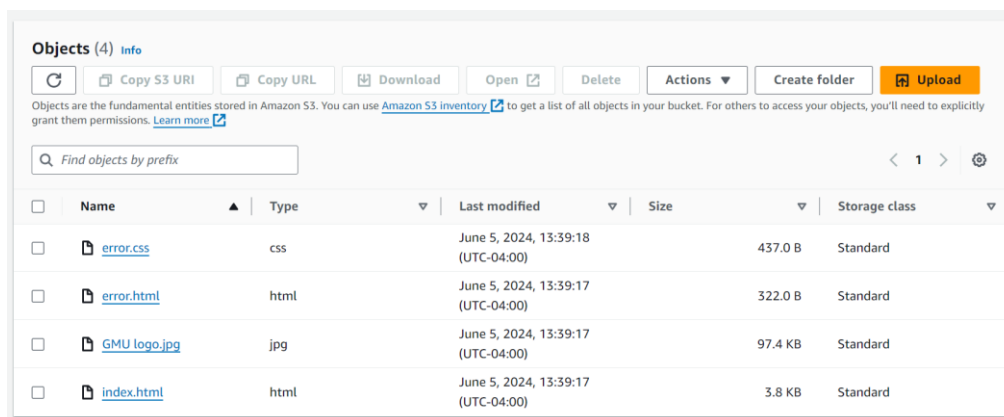
2. Enabled public access and created bucket policy to make the objects publicly accessible.



3. Enabled static site hosting, configured *index.html* and *error.html*

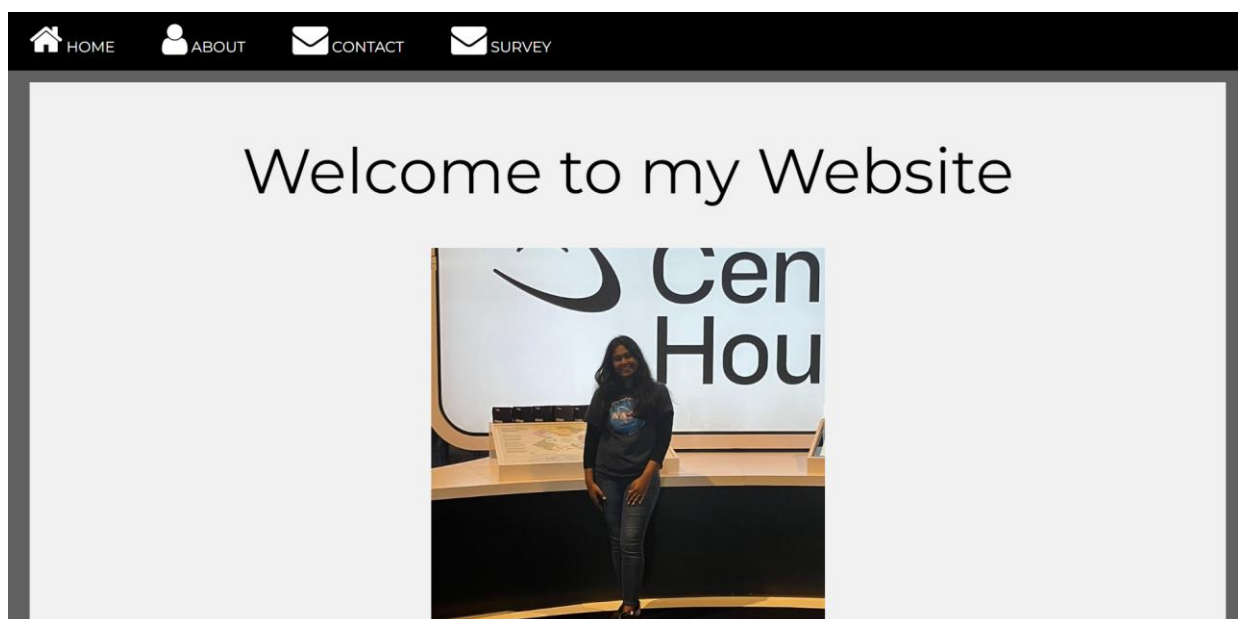


4. Uploaded the project files.



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

HOME CONTACT SURVEY

CS Department Survey

Good Afternoon, Spoorthi, welcome to Survey
Edit name

Username: *
Spoorthi

Street Address: *

City: *

State: *

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.

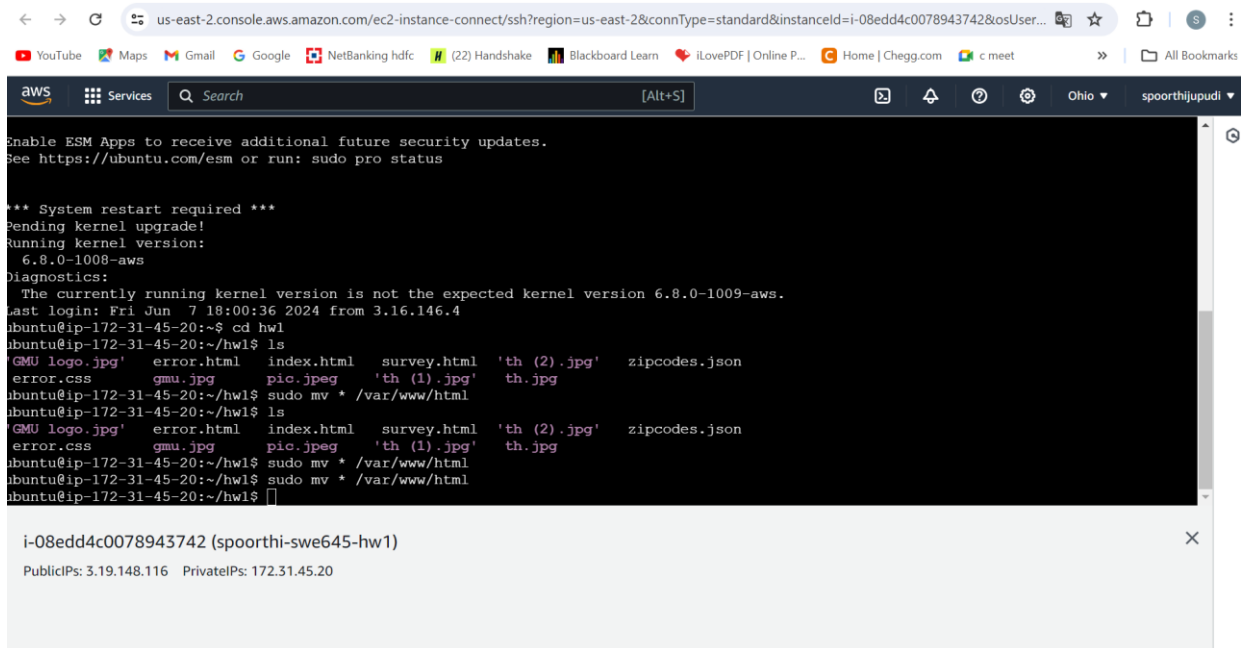
Security groups

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.



The screenshot shows an AWS console terminal window for an EC2 instance. The terminal output indicates a kernel upgrade from 6.8.0-1008-aws to 6.8.0-1009-aws. It shows the current running kernel version is not the expected one, and a system restart is required. The user runs 'ls' and 'sudo mv * /var/www/html' to move files to the web server directory. The instance ID is i-08edd4c0078943742 (spoorthi-swe645-hw1).

```
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
Pending kernel upgrade!
Running kernel version:
 6.8.0-1008-aws
Diagnostics:
The currently running kernel version is not the expected kernel version 6.8.0-1009-aws.
Last login: Fri Jun  7 18:00:36 2024 from 3.16.146.4
ubuntu@ip-172-31-45-20:~$ cd hw1
ubuntu@ip-172-31-45-20:~/hw1$ ls
'GMU logo.jpg'  error.html  index.html  survey.html  'th (2).jpg'  zipcodes.json
error.css      gmu.jpg    pic.jpeg   'th (1).jpg'  th.jpg
ubuntu@ip-172-31-45-20:~/hw1$ sudo mv * /var/www/html
ubuntu@ip-172-31-45-20:~/hw1$ ls
'GMU logo.jpg'  error.html  index.html  survey.html  'th (2).jpg'  zipcodes.json
error.css      gmu.jpg    pic.jpeg   'th (1).jpg'  th.jpg
ubuntu@ip-172-31-45-20:~/hw1$ sudo mv * /var/www/html
ubuntu@ip-172-31-45-20:~/hw1$ sudo mv * /var/www/html
ubuntu@ip-172-31-45-20:~/hw1$
```

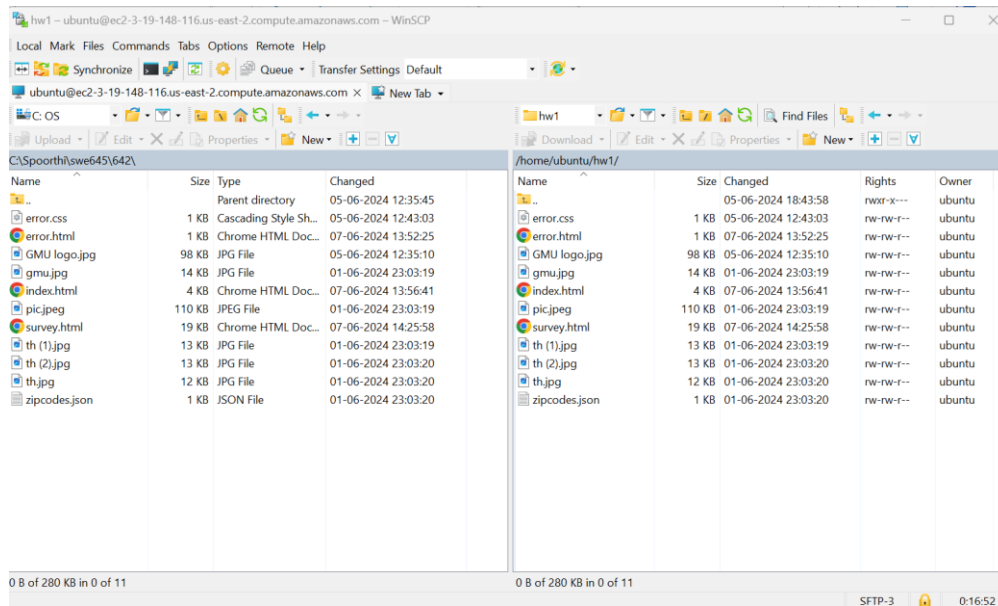
i-08edd4c0078943742 (spoorthi-swe645-hw1)
PublicIPs: 3.19.148.116 PrivateIPs: 172.31.45.20

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

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

```
ubuntu@ip-172-31-45-20:~/hw1$ systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Thu 2024-06-06 06:22:37 UTC; 1 day 12h ago
     Docs: https://httpd.apache.org/docs/2.4/
    Main PID: 6127 (apache2)
      Tasks: 55 (limit: 1130)
     Memory: 9.4M (peak: 10.0M)
        CPU: 6.783s
    CGroup: /system.slice/apache2.service
            └─ 6127 /usr/sbin/apache2 -k start
               20121 /usr/sbin/apache2 -k start
               20122 /usr/sbin/apache2 -k start
```

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>

The screenshot shows a web browser window with the address bar displaying '3.19.148.116/survey.html'. The page has a black navigation bar with links for HOME, CONTACT, and SURVEY. Below the navigation bar is a yellow banner with the text 'CS Department Survey'. The main content area has a grey background and contains the text 'Good Evening, spoo, welcome to Survey' and 'Edit name'. Below this is a green form with four input fields labeled 'Username', 'Street Address', 'City', and 'State'. The 'Username' field contains the text 'Spoorthi'.

Homepage can be accessed by clicking the “[Home](#)” link