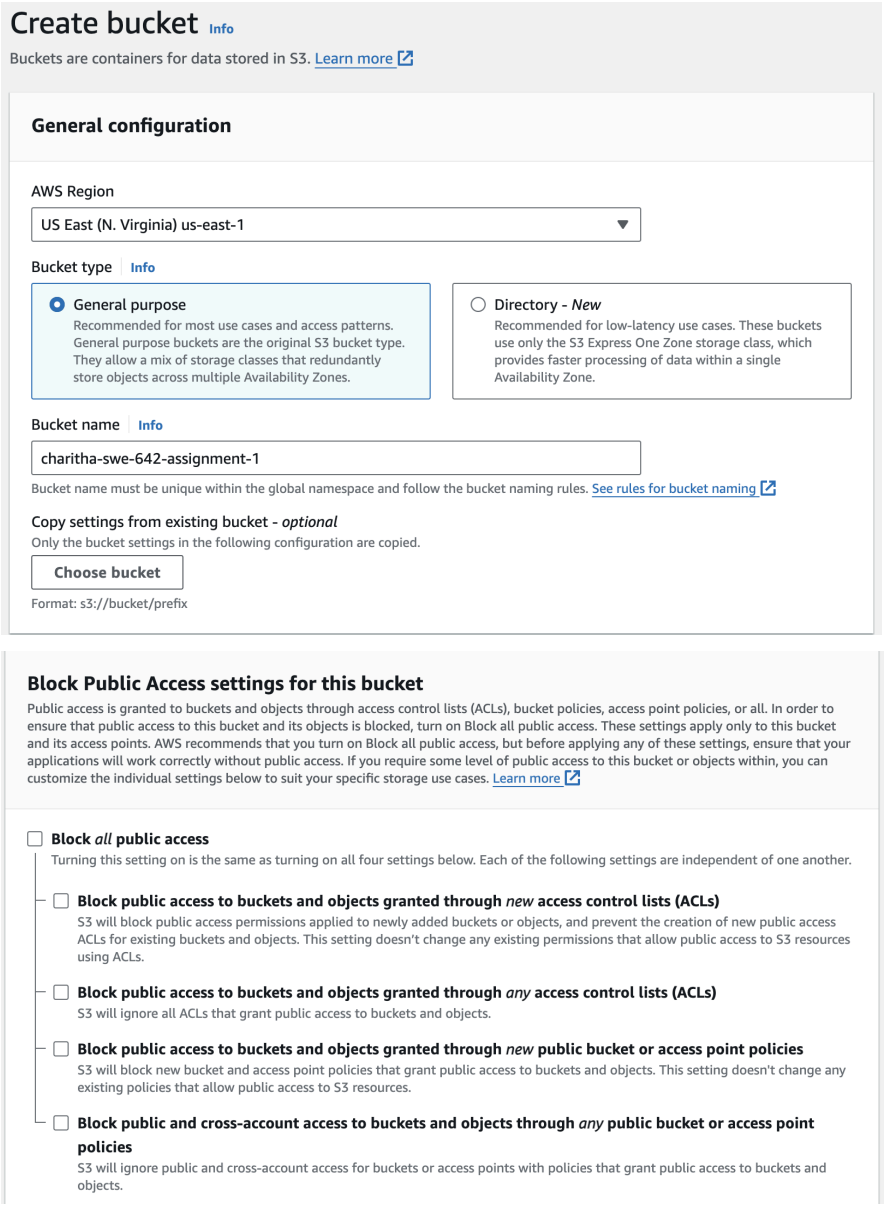
SWE 642: Assignment 1

Urls

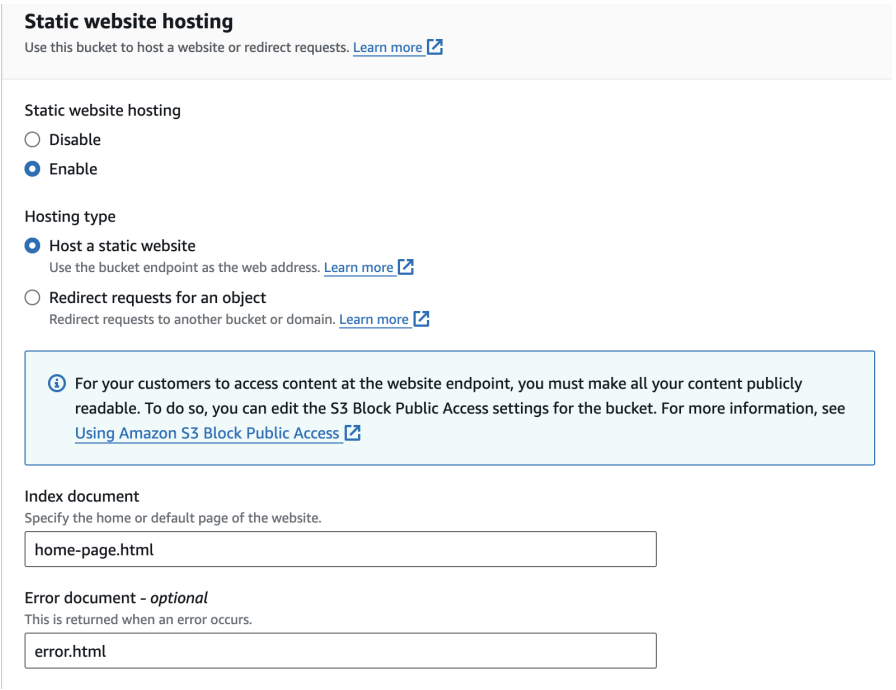
S3 - *http://charitha-swe-642-assignment-1.s3-website-us-east-1.amazonaws.com/*
EC2 - *http://ec2-3-91-184-96.compute-1.amazonaws.com/home-page.html*

Documentation to deploy on S3

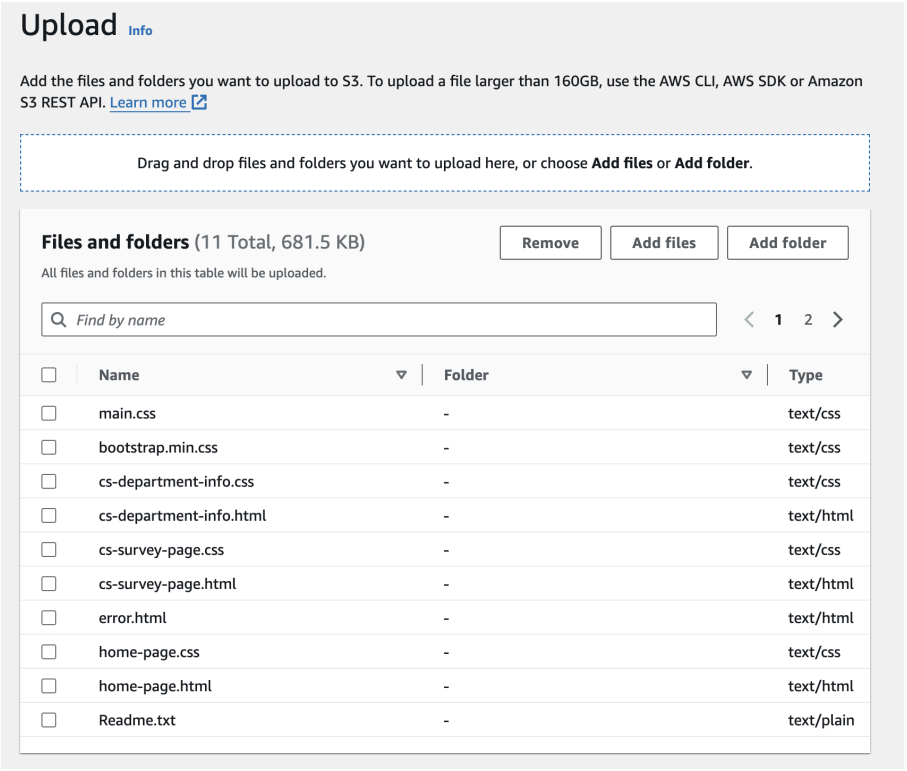
1. Creating the bucket - In aws S3 console, click on Create Bucket button. Provide the bucket name (charitha-swe-642-assignment-1) and select the closest aws region. Since we want the website to be publicly accessible , uncheck the Block Public Access settings option. Keep all other options to the default value. Click on the Create Button.



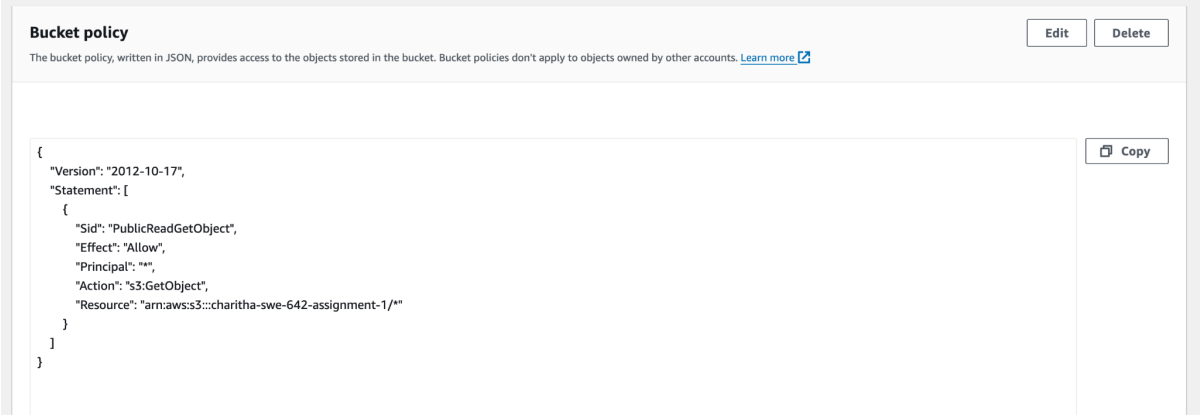
2. Enable Static Website Hosting - Select the bucket we have created, In the properties section, Under Static website hosting, choose Edit. Select enable option for Static website hosting, Host a static website for hosting type and Specify the home and error html files.



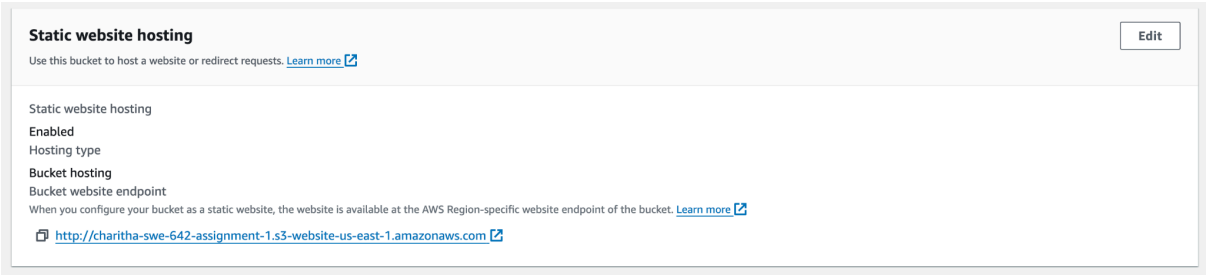
3. Upload the files - Now click on the S3 bucket created in the above step, Click on the upload button. Click on the Add Files button and add the required html and css files and click on the upload button.



4. Add bucket policy - Now go to the Permissions tab, In the bucket policy section, Click on the edit button and add the below code.

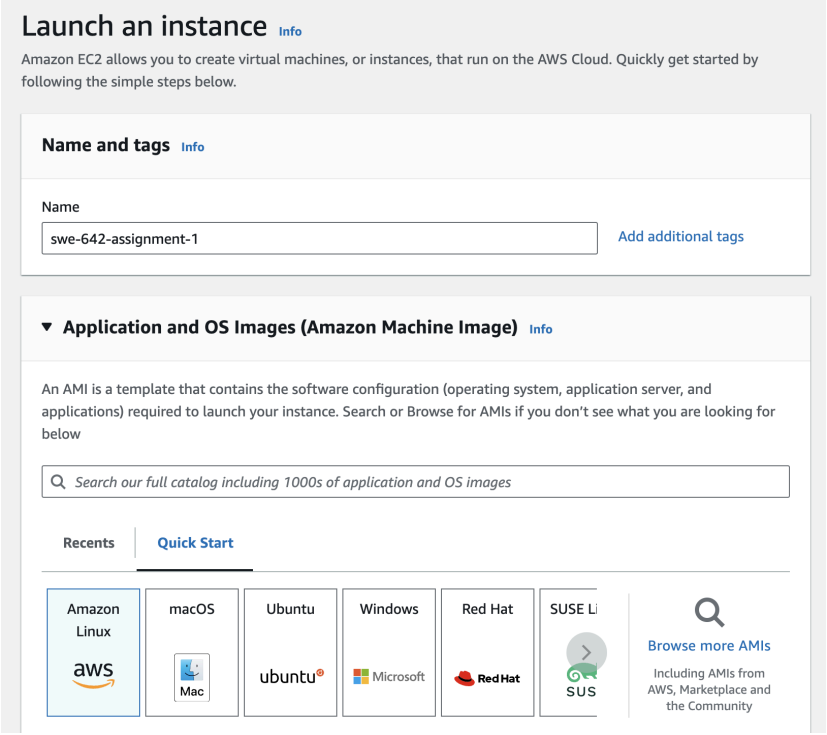


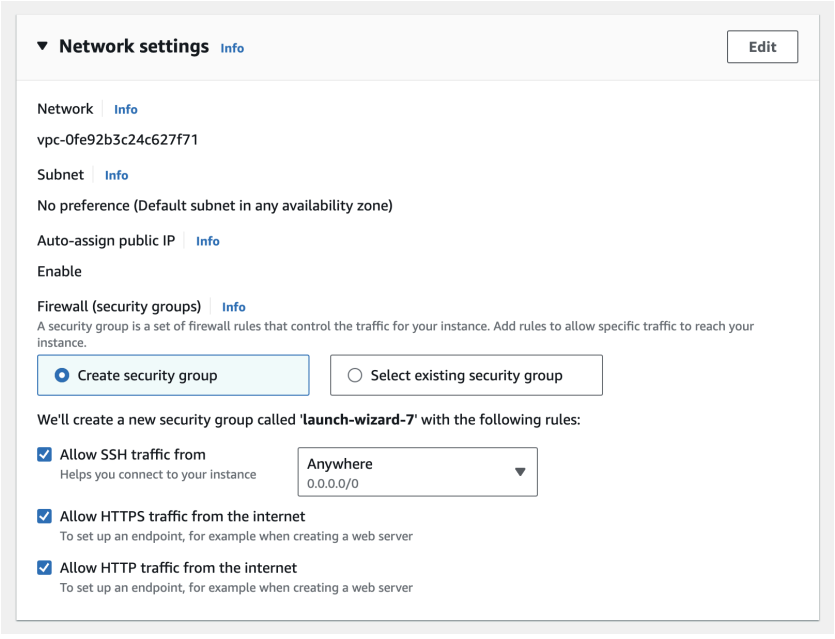
5. Test the website - In the properties tab of the created bucket, Under Static website hosting, choose your Bucket website endpoint.



Documentation to deploy on EC2

1. Creating an EC2 Instance - In the EC2 console, click on Launch Instance button. Give the instance name (swe-642-assignment-1), Choose the Amazon Machine Image(Amazon Linux), Instance type as t2 micro, Select the key pair (selected existing pem key), In the network settings, Check Allow HTTPS traffic from the internet and Allow HTTP traffic from the internet options.





2. Connect to your instance - Once the instance is running, Click on the connect button to see the different options. Using the below command to connect from the terminal.

```
ssh -i /path/to/your/key.pem ec2-user@your-instance-public-dns-name
```

3. Installing the Web Server - Use the below commands to update the package repository and install apache web server.

```
sudo yum update -y
```

```
sudo yum install -y httpd
```

4. Copy files and folders - Use the below command to copy the files or folder from local to EC2 instance.

```
scp -i /path/to/your/key.pem /path/to/your/zip-file.zip
ec2-user@your-instance-public-dns-name:~/
```

```
unzip zip-file.zip
```

5. Deploying your website - Use the below commands to move the files to the web server's root directory.

```
sudo mv ~/zip-file/* /var/www/html/
```

6. Managing the Web Server Service - Use the below commands to check the status, to start, and run the web server.

```
sudo systemctl status httpd
```

```
sudo systemctl start httpd
```

```
sudo systemctl enable httpd
```

7. Verify the website - Open the web browser and enter the EC2 instance's public DNS or IP address and see if the website is live.

REFERENCES

1. EC2 - https://www.youtube.com/watch?v=Islmm-LMu38
2. S3 - https://docs.aws.amazon.com/AmazonS3/latest/userguide/HostingWebsiteOnS3Setup.html