SWE-642 Assignment-1

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- S3 Links
  - Websites for the home page:

    http://swe-642-hw-1.s3-website-us-east-1.amazonaws.com/

  - Website for CS information page:

    http://swe-642-hw-1.s3-website-us-east-1.amazonaws.com/info.html

  - Website for Survey Page

    http://swe-642-hw-1.s3-website-us-east-1.amazonaws.com/survey.html

- EC2 Links
  - Websites for the home page:

    http://ec2-54-198-151-140.compute-1.amazonaws.com/

  - Website for CS information page:

    http://ec2-54-198-151-140.compute-1.amazonaws.com/info.html

  - Website for Survey Page

    http://ec2-54-198-151-140.compute-1.amazonaws.com/survey.html

Note: We can access the Info Page and Survey link from the home page.

Configuration of a static website in S3 Bucket:

1. I first created a bucket ***swe-642-hw-1*** in my Amazon AWS account by entering the Amazon S3 console while following all the required procedures for naming an S3 bucket. The region is automatically chosen to North East Virginia.
2. I have also given public access to my bucket so that it can be accessed. Then I clicked on create bucket.
3. Then I went to **Properties** section in my S3 bucket ***swe-642-hw-1.*** Under **Static website hosting**, I have chosen to **Edit** and then enabled it.
4. Later I confirmed the names of the document as **index.html** and **error.html** .
5. On clicking save changes, I received the URL for my S3 bucket.

6. Then under the **Buckets** section ------→ **Permissions** ----→ **Bucket-policy** --→ then click **Edit** and I have given the required bucket policy with my bucket-name ***swe-645-hw-1***. Then save changes.
7. Now the last step which I have done is to upload my index.html and error.html with images. Then I went to my bucket and chose **Upload files**. I have uploaded **info.html** and **survey.html** and then tested out my S3 link.
8. This is how I have hosted a static website on an S3 bucket. The links are provided above.

Configuration of a static website in EC2

1. Similar to S3 bucket, I first created a bucket **swe-642-hw-1** in my Amazon AWS account by entering the Amazon EC2 console.
    a. I have chosen an Ubuntu instance for my EC2 all while choosing t2.micro as instance.
    b. I have also given a key-pair generating it as a .pem file.
    c. Then I checked all the incoming **Https** traffic to access my website.
2. After creating the instance, I waited until it passed 2/2 checks before I connected to the console.
3. In the aws website, I have connected to **EC2 Connect Instant** and then entered the console.
4. These are the steps which I have followed:
    a. First I used the command sudo apt-get update to update all the packages to the latest versions.
    b. Then I installed apache tomcat in my instance to host a static website. I have used sudo apt-get install apache2 which installed the Apache tomcat.
    c. Thirdly I have had to put my files in this particular folder /var/www/html/ . So, I used cd /var/www/html/ to enter that particular location.
5. Now in my local computer, using git bash, I have copied all the required files and used the below command to copy all the files from local to the EC2 instance

    scp -i ~/Downloads/swe642.pem -r "D:\SWE642\Assignment-1 " ubuntu@ec2-44-201-219-14.compute-1.amazonaws.com:/home/ubuntu/swe-hw1
6. Back to the AWS Console:
    a. Move the files from the folder uploaded from local machine to /var/www/html using the below command. Repeat it for moving all the files with same filename.

    sudo mv -v /home/ubuntu/swe642/Part1/index.html /var/www/html/

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sudo mv -v /home/ubuntu/swe642/Part1/MKR.jpg /var/www/html/
sudo mv -v /home/ubuntu/swe642/Part1/github.jpg /var/www/html/
sudo mv -v /home/ubuntu/swe642/Part1/indeed.jpg /var/www/html/
sudo mv -v /home/ubuntu/swe642/Part1/linkedIn.jpg /var/www/html/
sudo mv -v /home/ubuntu/swe642/Part1/index.html /var/www/html/
```

   b. After moving all the files, close the aws console.
7. Then go to instances, and choose the EC2 instance **swe-642-hw-1**, and click on **instance-id**. Then I have clicked on **Public IPV4 DNS** and copied the **EC2 hosting link**.
8. I have then changed from **https** to **http** in the copied link. My EC2 instance works as expected.
9. This is how I have hosted a static website on an EC2 instance. The links are provided above.