SWE 645-Home Work Assignment 1

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Part1:

In this part, I have created two HTML files. The first is the home page known as index.html, and the second is error.html. The home page displays information about me and my professional experience. I used one of the W3.CSS Templates and modified it. The error page displays the message "page is not available" when index.html is unavailable.

Steps for creating a bucket:

1. Login to AWS console - https://console.aws.amazon.com/s3/
2. Click on the Create bucket option -> Give a unique name for the bucket.
3. Choose the closer region -> Click on the Create button.

Steps for hosting a Static website in an S3 bucket:

1. Choose the created bucket.
2. Click on Properties -> select Edit under Static Web Hosting.
    a. Select Enable under Static website hosting.
    b. Enter index.html for the Index document.
    c. Enter error.html for Error document.
    d. Click on the Save.
3. Click on Permissions -> select Edit under Block public access -> uncheck Block all public access option -> click on Save.
4. Click on Edit under -> Bucket Policy -> Add the below content in the editor and click on Save

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

```
                }
```

5. Click on Objects -> choose the Upload button to upload the index.html, error.html and associated image files.
6. The endpoint URL is found under the Static Website Hosting option.

The website created in Part 1 is hosted at http://kavya-staticwebsite.s3-website-us-east-1.amazonaws.com

Part2:

In this part, I created a Student Survey Form with all the given requirements and deployed it in an Apache Web server hosted on an EC2 instance. I have attached the link to this form on the website I created in Part 1, under the Survey Form section.

Link to Application hosted:

http://44.204.3.18/

Steps for creating an EC2 instance:

1. Login to AWS console - https://console.aws.amazon.com/s3/
2. Click on Compute -> Instance -> Launch Instances.
3. Enter the name of the instance.
4. Select the operating system. I have selected Amazon Linux as the operating system.
5. Click on Create Key pair -> enter the name -> select .ppk file format -> click on Create. It will download the private key to your system.
6. Click on the Launch instance button.

Connecting to machine
Use the putty for connecting to the EC2 instance or we can click on the connect option in the AWS console.

ec2-user@44.204.3.18

Steps for installing the Apache web server on an EC2 instance:

1. Update the Operating System
   sudo yum update -y
2. Install Apache on an EC2 instance
   sudo yum install httpd -y
3. Start and enable to run
   sudo service httpd start

        sudo systemctl enable httpd
4. Navigate to directory "/var/www/html/"
5. Copy the server.html file
   scp -i <path-to-key> survey.html ec2-user@<ec2-public-ip>:/var/www/html/
   Rename survey.html to index.html (it's optional)
6. Access it in the browser http://<your-ec2-public-ip>
   http://44.204.3.18/

Links:

Part1: http://kavya-staticwebsite.s3-website-us-east-1.amazonaws.com

Part2: http://44.204.3.18/