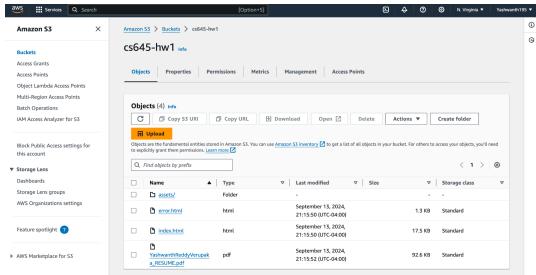
SWE645 ASSIGNMENT-1

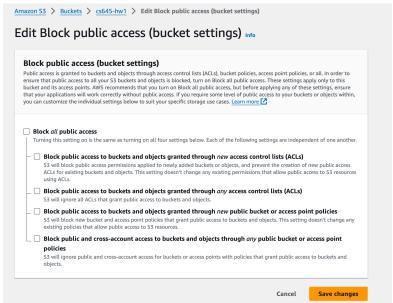
Yashwanth Reddy Verupaka G01455748

Steps involved for PART 1 - S3 Deployment:

 Create a bucket in S3 and add all the folders and files needed to the S3 bucket. A Pop up appears if everything uploads successfully.



 Next allow public access to our files so that they can be accessed. Go to permissions menu of your bucket and disable "Block all public access"

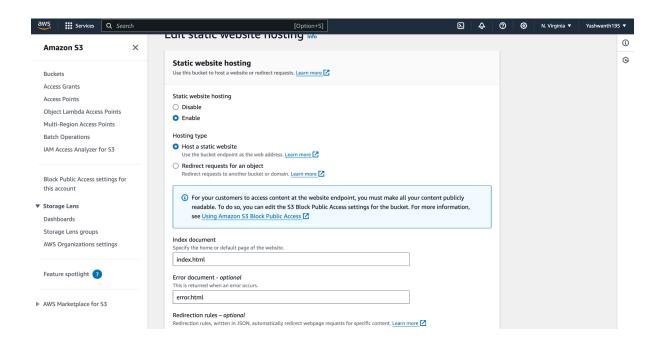


- To publicly access your bucket add bucket policy to your bucket. Go to the permissions tab of your bucket edit under bucket policy
- Enter the bucket policy provided on the AWS site in the editor:

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

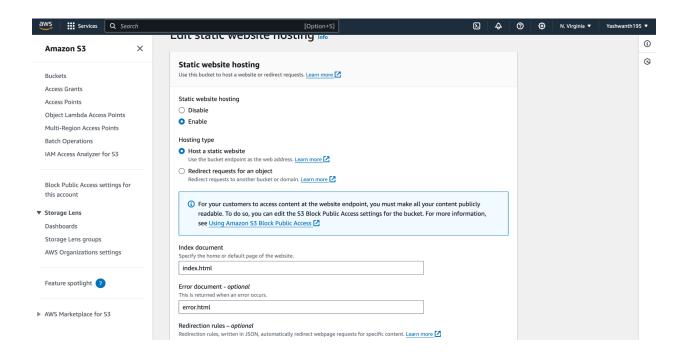
Replace "bucket name" with your own bucket name.

• Enable Static Web Hosting by enabling it in the properties tab. Also add the index and error html pages path in the block provided.



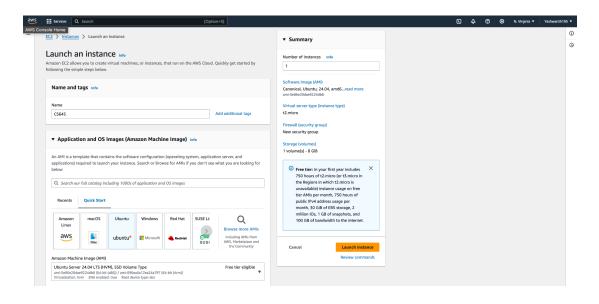
This generates a link that can be used to access the website.

Link to S3 deployment:- http://cs645-hw1.s3-website-us-east-1.amazonaws.com

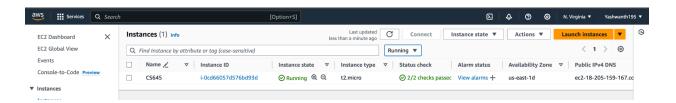


Steps involved for PART 2 - EC2 Deployment:

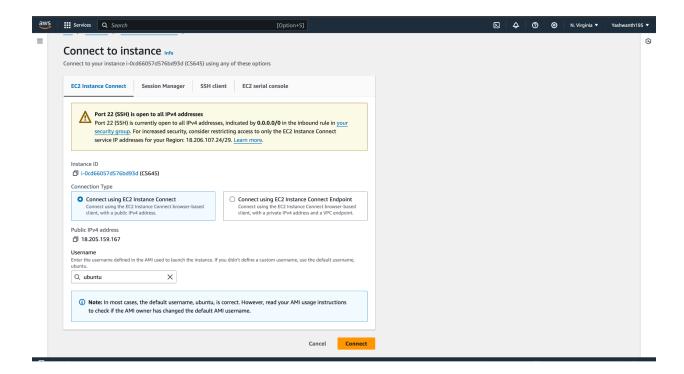
 Create an EC2 instance on your AWS account. Select the AMI you want, I have chosen Ubuntu and set the instance type to t2.micro and give a desired name.



- Create a key pair that can be used to access your instance.
- Also create a security group which allows us to set rules that control the traffic for your instance. Make sure to allow inbound traffic from Port 80(HTTP) and Port 22(SSH) to ensure that requests are served.



• Connect to this instance, by clicking on the "Connect" button at the bottom. You can set the username of the AMI or leave it as default which is ubuntu.



Once connected to the instance switch to root user by using the command.

Sudo su -

- Install the apache server and check if the server is installed.
 - Command to install: sudo apt install apache2
 - Command to check: sudo ufw app list
- Now, this server will have to disable its firewall.
 - Command to diable firewall: sudo ufw allow 'Apache'

- Check if the apache server is running by using the command.
 - Command to check status: sudo systematl status apache2

- Now upload all the files needed for deployment from your local machine to your EC2 instance. Instead of sending each file I have zipped the entire folder and sent it as a file.Use the following command in your local machine to server copy the files.
 - scp -i CS645-key.pem /Users/yashwanthverupaka/Desktop/Working-645.zip ubuntu@ec2-18-205-159-167.compute-1.amazonaws.com:

ec2-18-205-159-167.compute-1.amazonaws.com: is my Public IPv4 DNS

- Once files are copied to the server unzip the folder.
- Once unzipped cd into the folder and move all the files into '/var/www/html/' folder
 - Command to move files: mv * /var/www/html/
- Once all files are present and the server is active, you must be able to access your page using the public IPv4 DNS link.

Link to EC2 deployment:- ec2-18-205-159-167.compute-1.amazonaws.com

LINKS to DEPLOYMENTS:

- → S3 Deployment: http://cs645-hw1.s3-website-us-east-1.amazonaws.com
- → EC2 deployment: ec2-18-205-159-167.compute-1.amazonaws.com