APTIMITHRA BY ETHNUS

FACE DETECTION APP ON AWS

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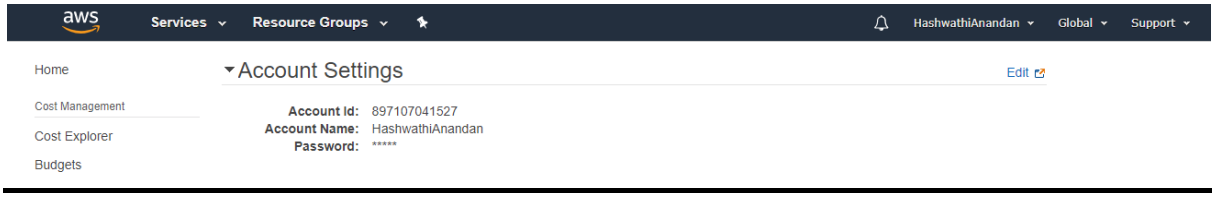
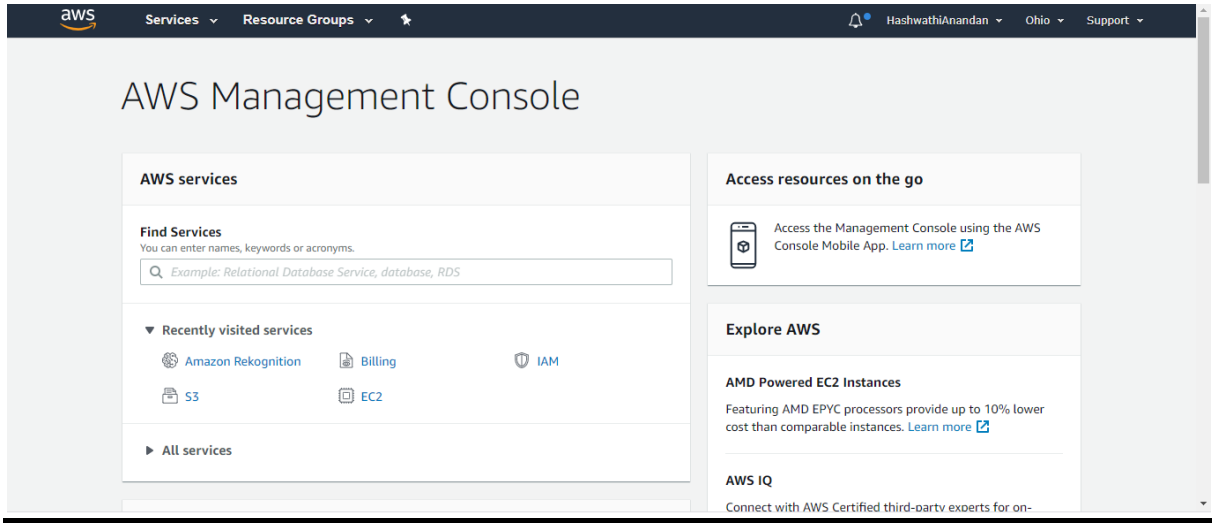
UNIVERSITY :VIT UNIVERSITY

COURSE NAME:(M- TECH)SOFTWARE ENGINEERING

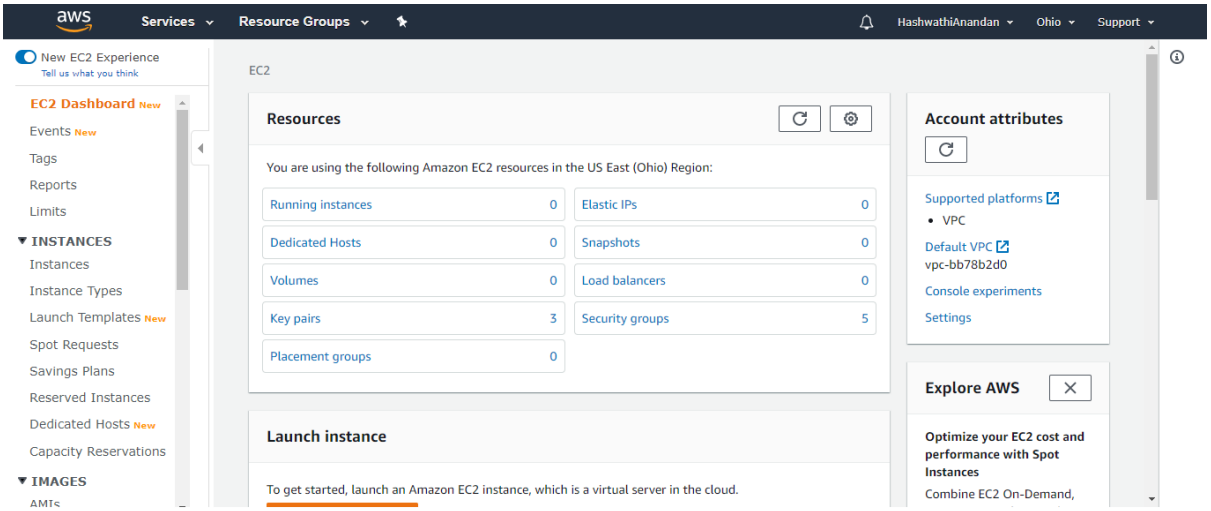
DASHBOARDS:

1.AWS Login Screen :

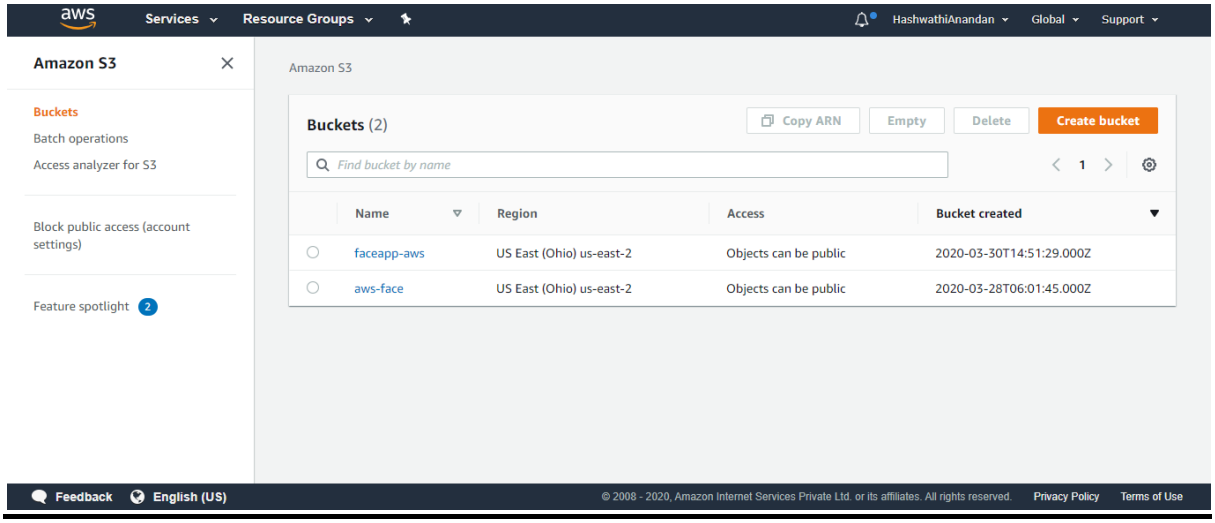




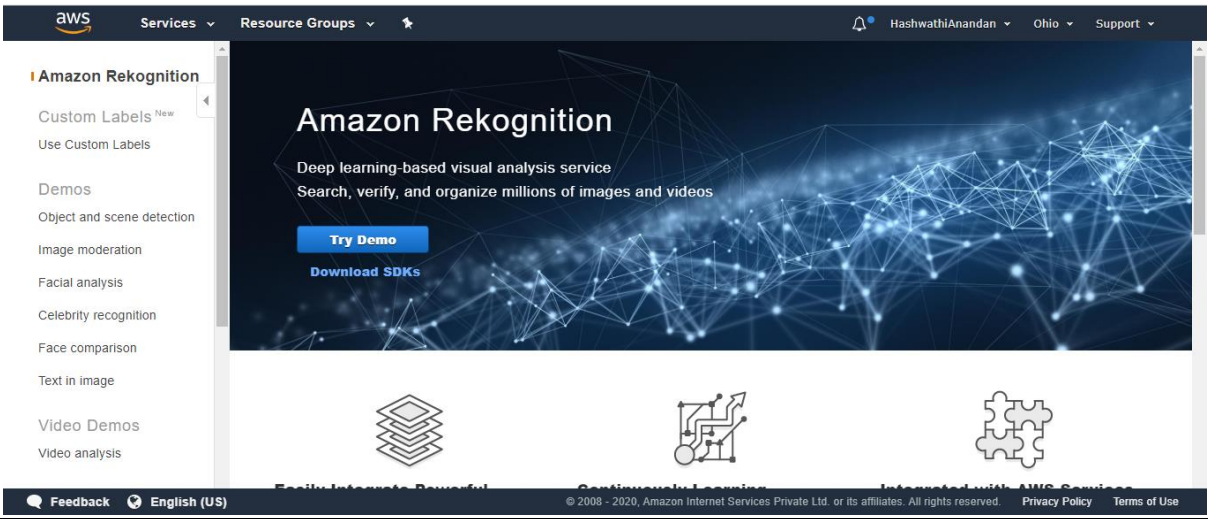
2.EC2 DASHBOARD:



3.S3 DASHBOARD:

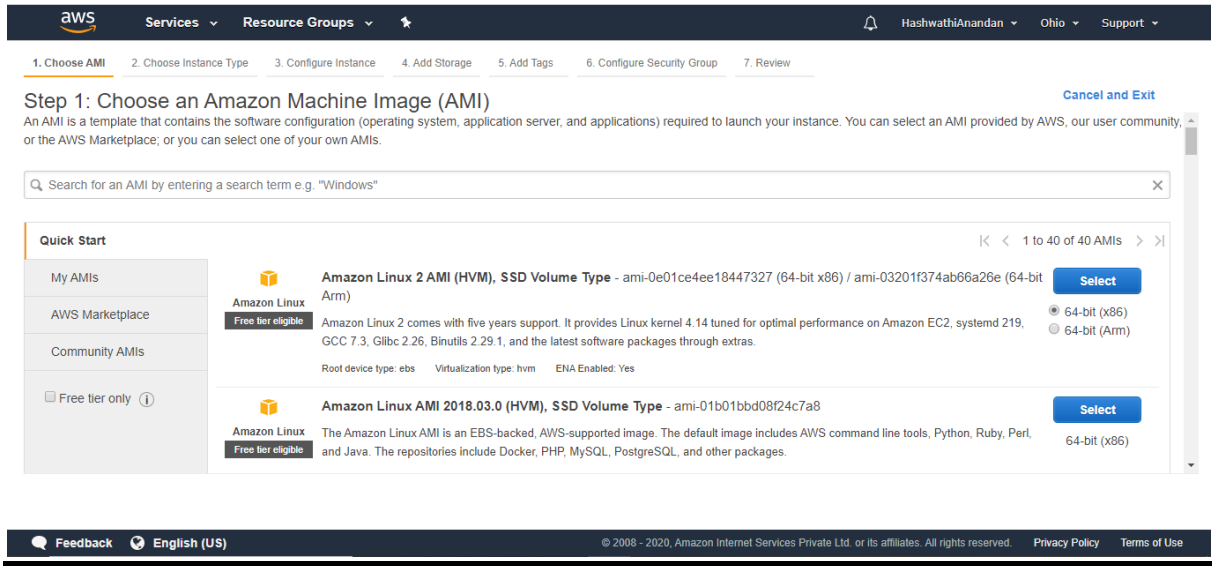


4.Rekognition Dashboard:

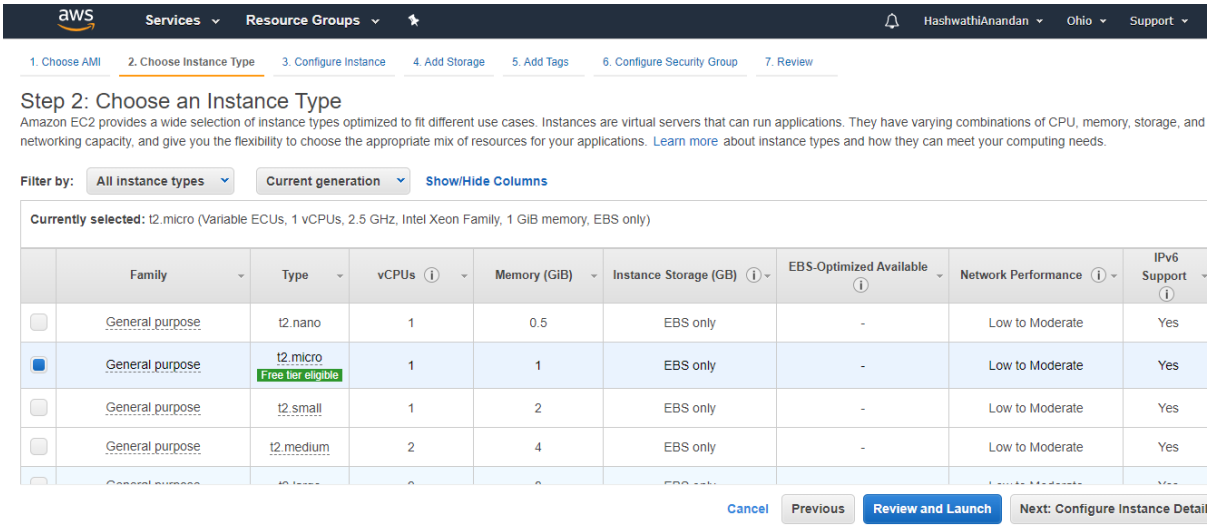


EC2 – INSTANCE CREATION;

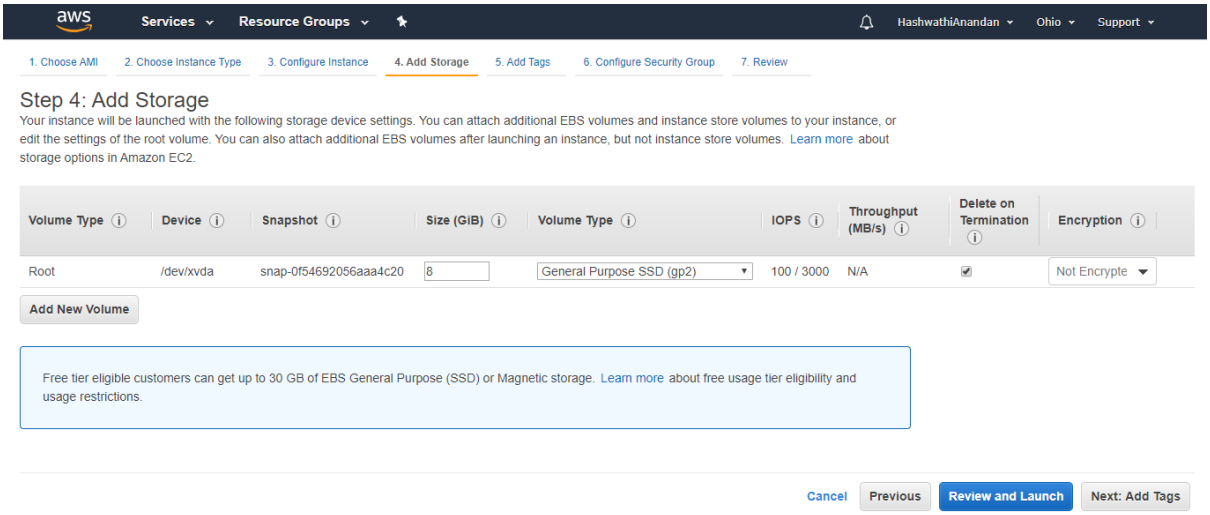
1.Choosing an AMI:



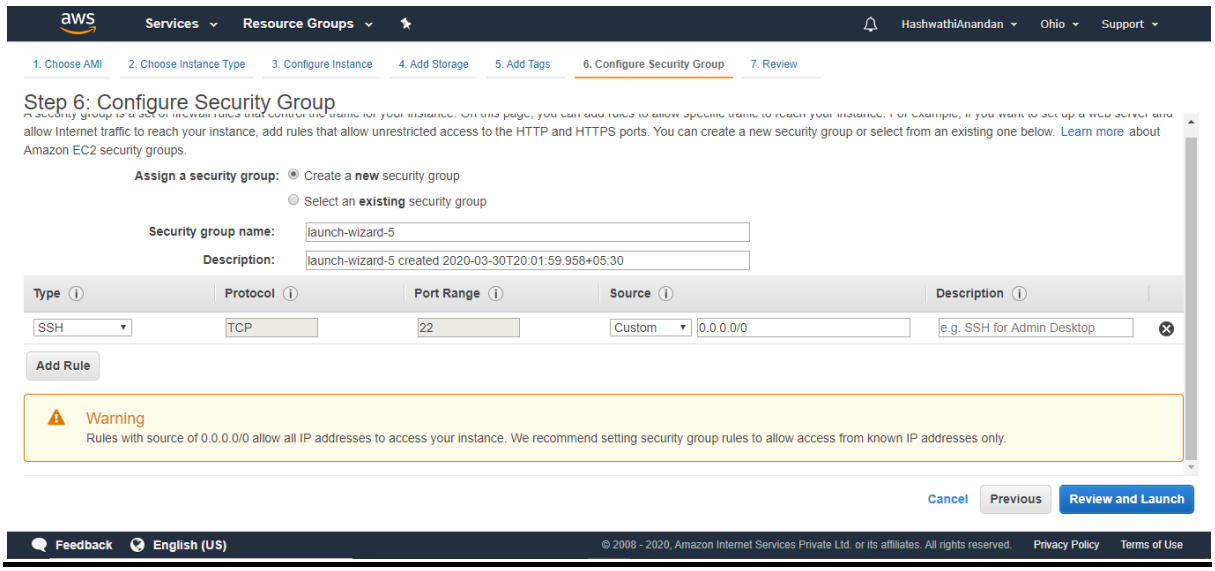
2.Choosing an Instance type:



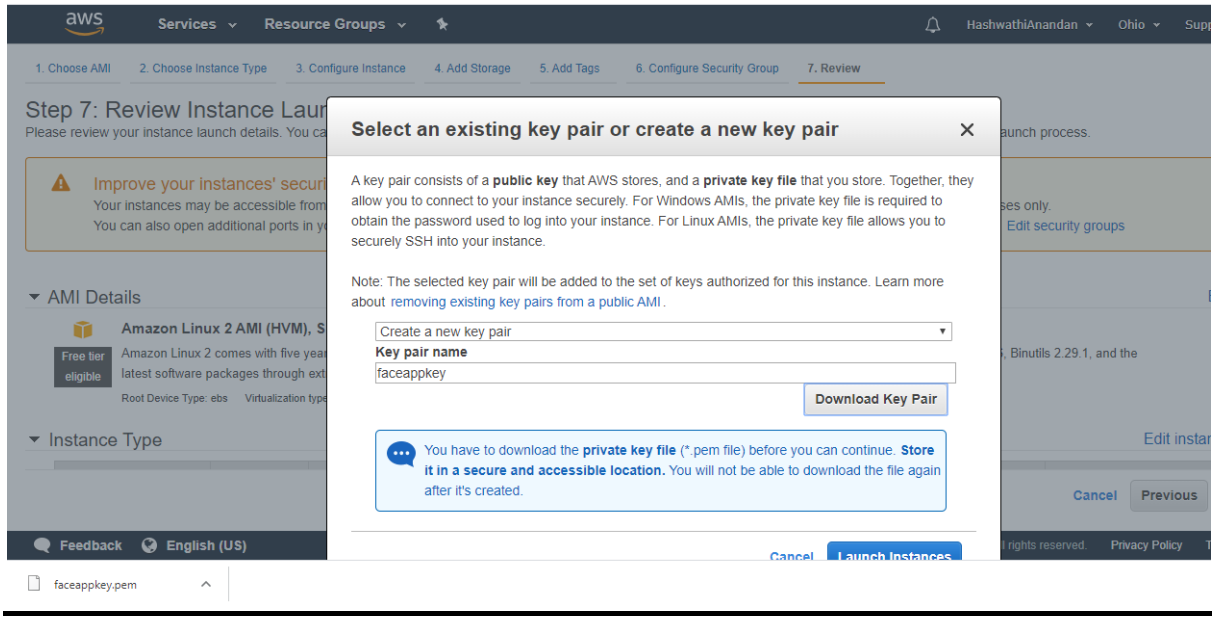
3.Add Storage:



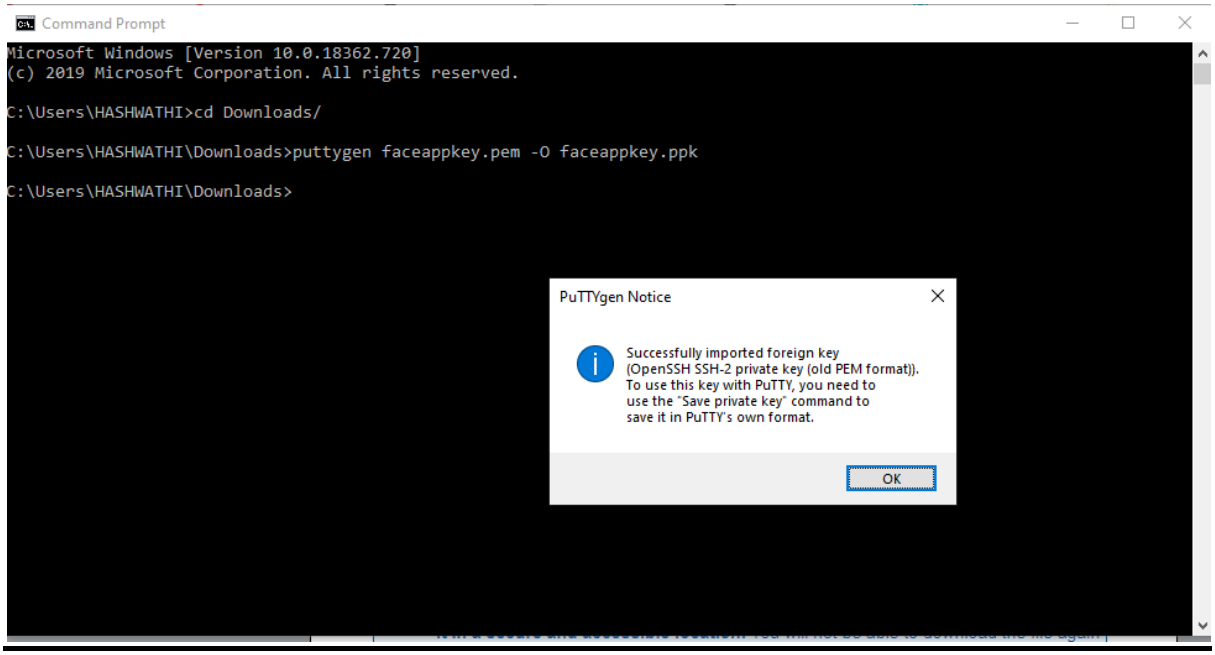
4.Configuring Security Group:



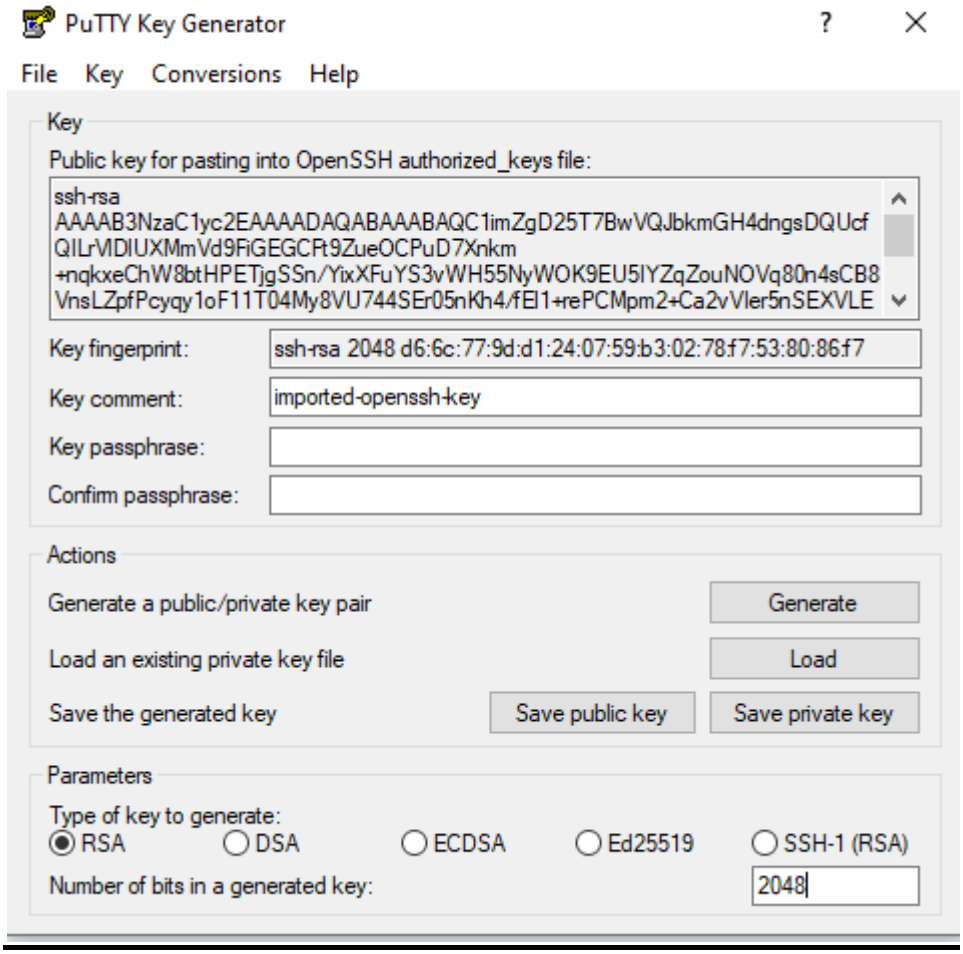
5.Key Pair Download:

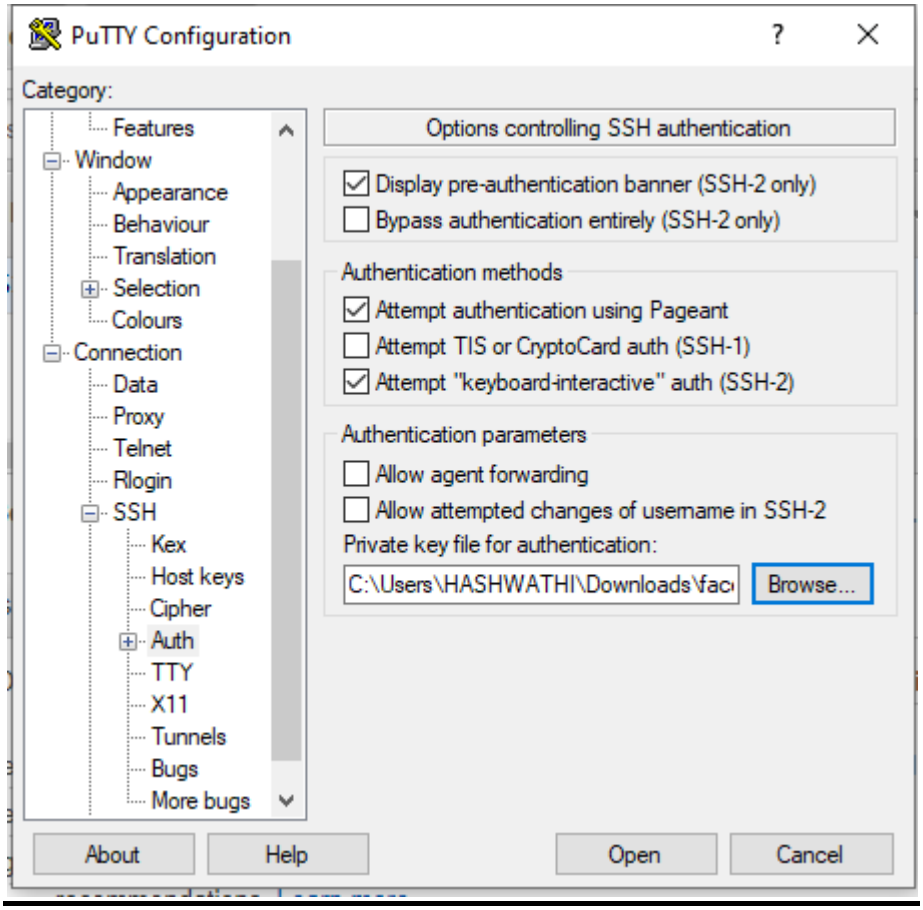


6.PUTTYgen Conversion from pem to ppk:

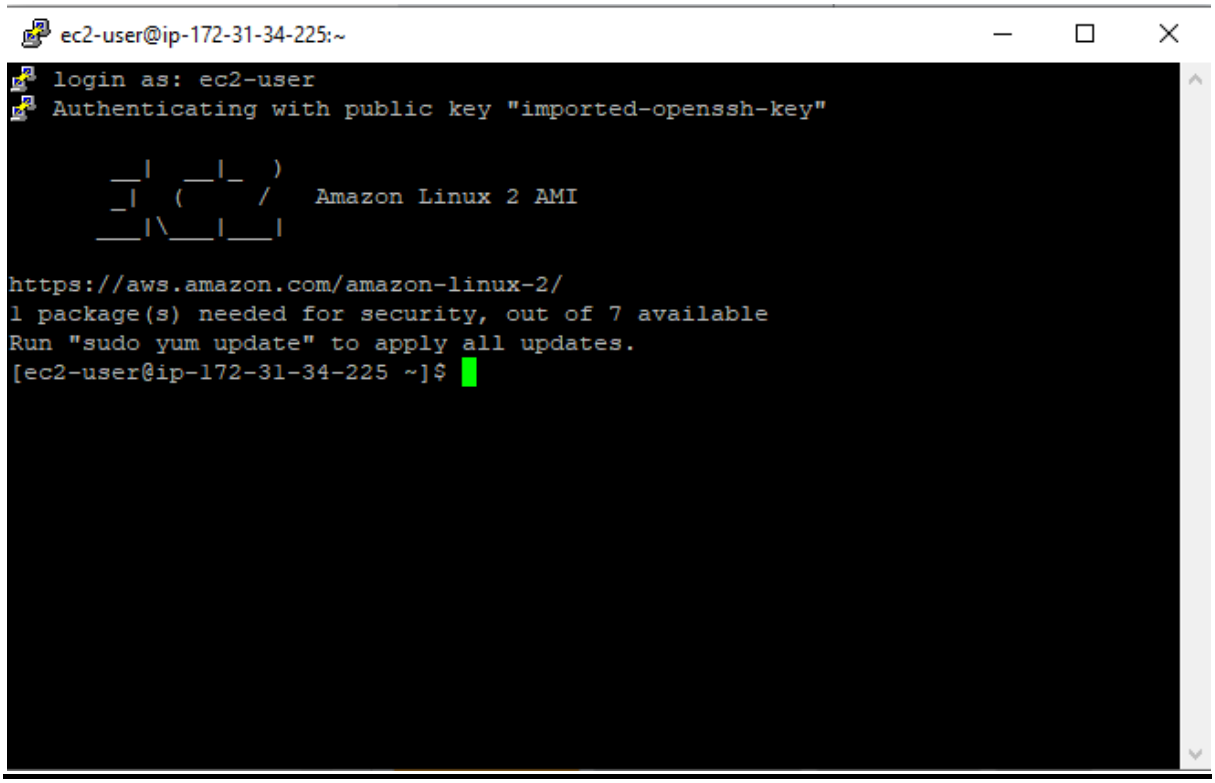


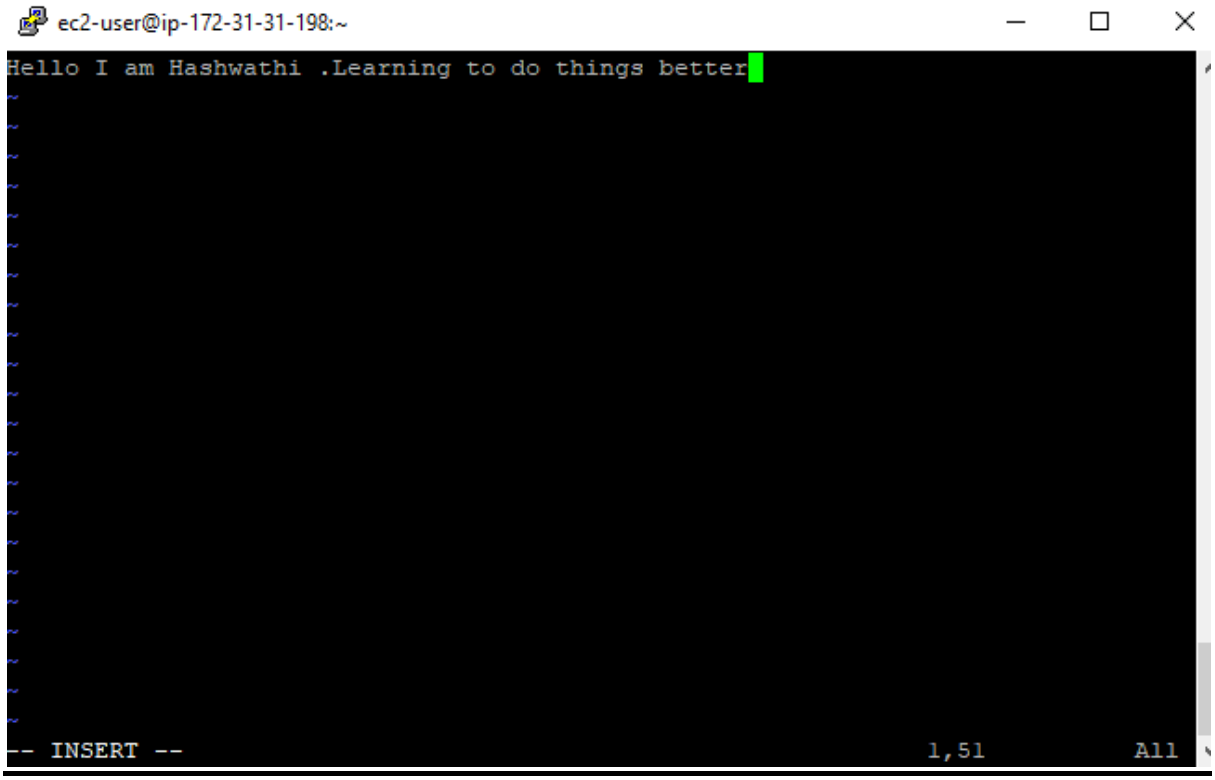
7.PUTTY gen key generator :





8.Logged in to EC2 blackscreen:

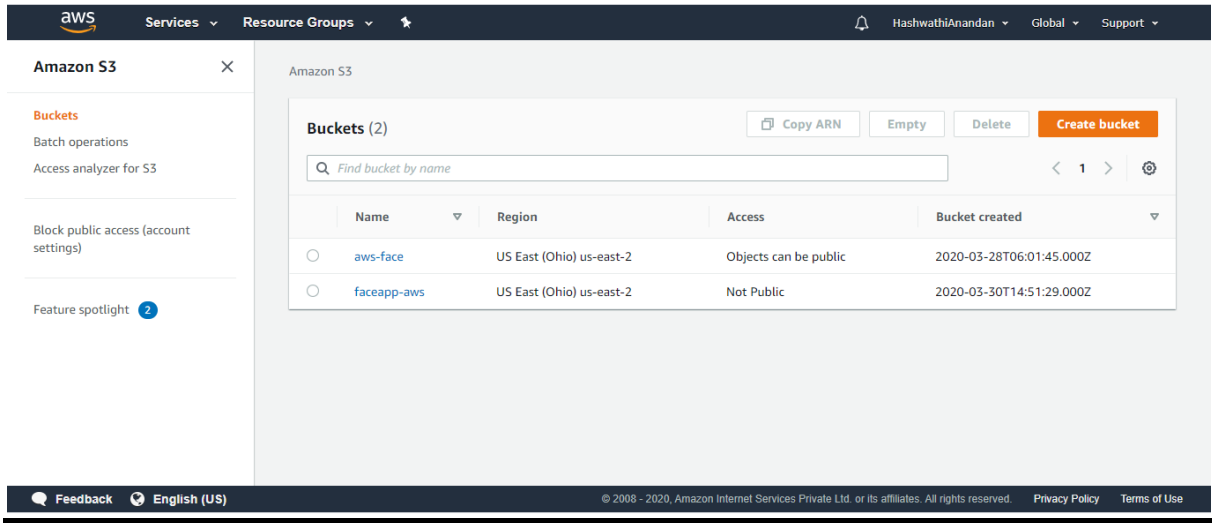


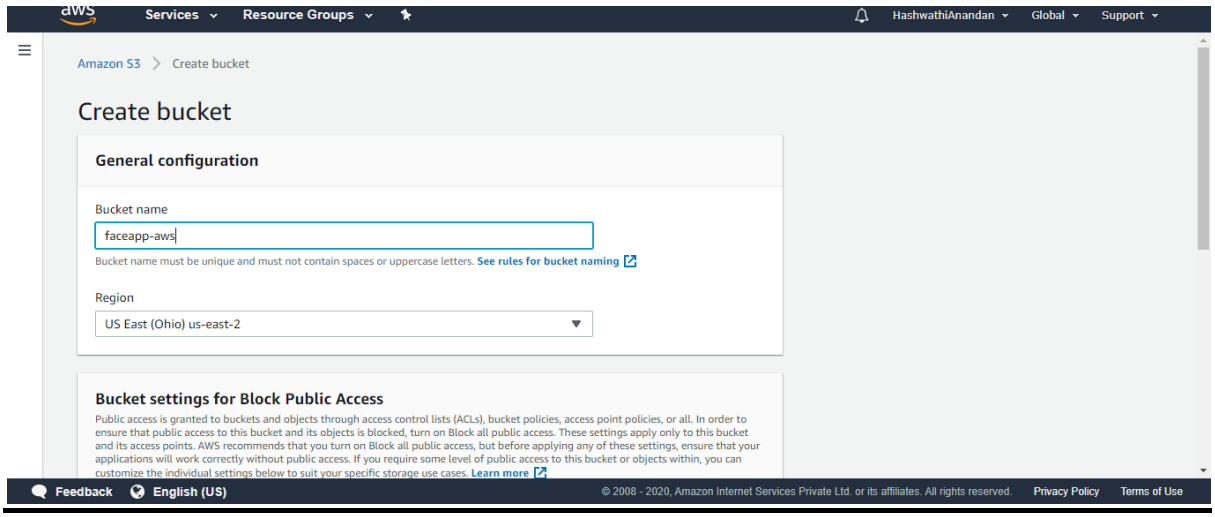



```
ec2-user@ip-172-31-31-198:~
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                    8/9
  Verifying  : httpd-tools-2.4.41-1.amzn2.0.1.x86_64                        9/9

Installed:
  httpd.x86_64 0:2.4.41-1.amzn2.0.1

Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2
  apr-util.x86_64 0:1.6.1-5.amzn2.0.2
  apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.41-1.amzn2.0.1
  httpd-tools.x86_64 0:2.4.41-1.amzn2.0.1
  mailcap.noarch 0:2.1.41-2.amzn2
  mod_http2.x86_64 0:1.15.3-2.amzn2

Complete!
[ec2-user@ip-172-31-31-198 ~]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-31-198 ~]$ sudo service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor prese
t: disabled)
   Active: active (running) since Fri 2020-03-27 15:34:30 UTC; 33s ago
     Docs: man:httpd.service(8)
 Main PID: 32762 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes se
rved/sec:   0 B/sec"
   CGroup: /system.slice/httpd.service
           ├─32762 /usr/sbin/httpd -DFOREGROUND
           ├─32763 /usr/sbin/httpd -DFOREGROUND
           ├─32764 /usr/sbin/httpd -DFOREGROUND
           ├─32765 /usr/sbin/httpd -DFOREGROUND
           ├─32766 /usr/sbin/httpd -DFOREGROUND
           └─32767 /usr/sbin/httpd -DFOREGROUND

Mar 27 15:34:30 ip-172-31-31-198.us-east-2.compute.internal systemd[1]: Start...
Mar 27 15:34:30 ip-172-31-31-198.us-east-2.compute.internal systemd[1]: Start...
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-31-198 ~]$ sudo vim/var/www/html/index.html
sudo: vim/var/www/html/index.html: command not found
[ec2-user@ip-172-31-31-198 ~]$ sudo vim /var/www/html/index.html
[ec2-user@ip-172-31-31-198 ~]$
```

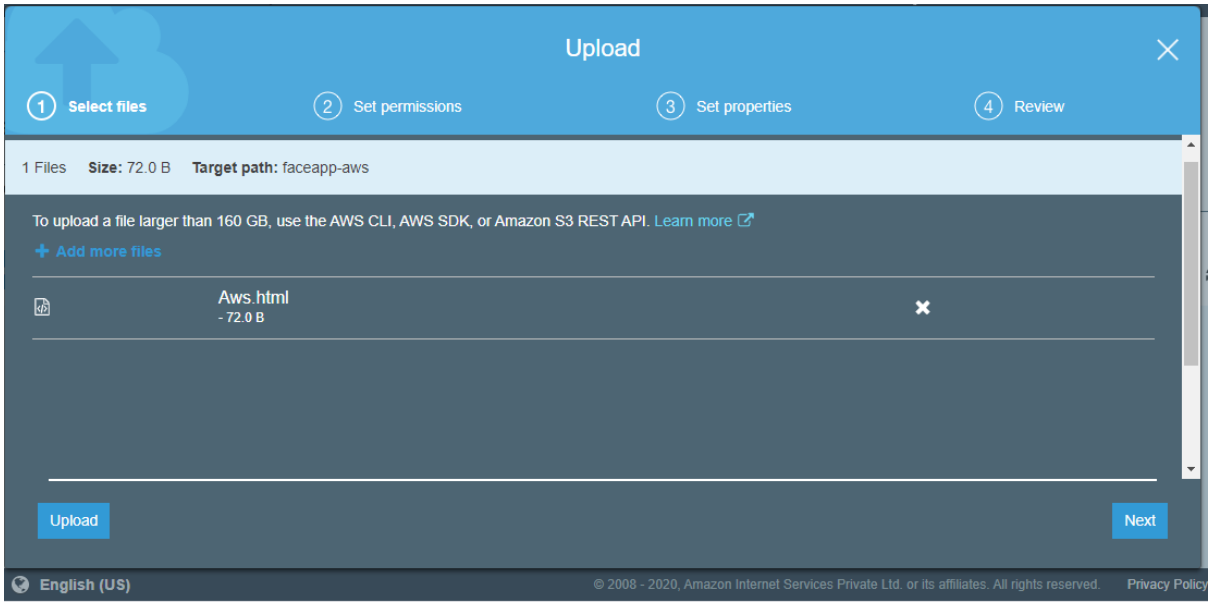
S3 Creation:

1.Creating a Bucket :

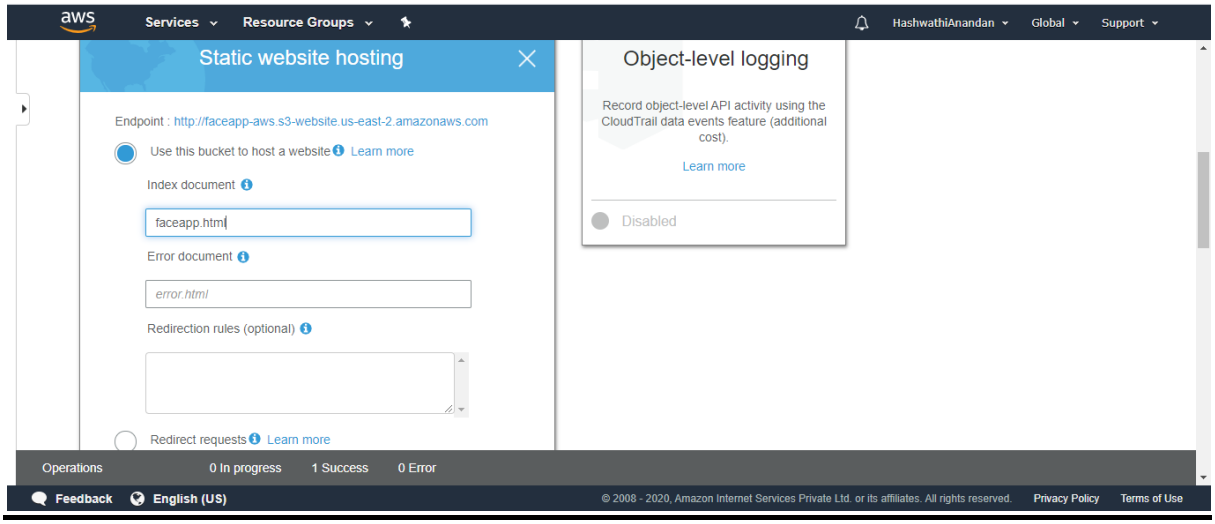


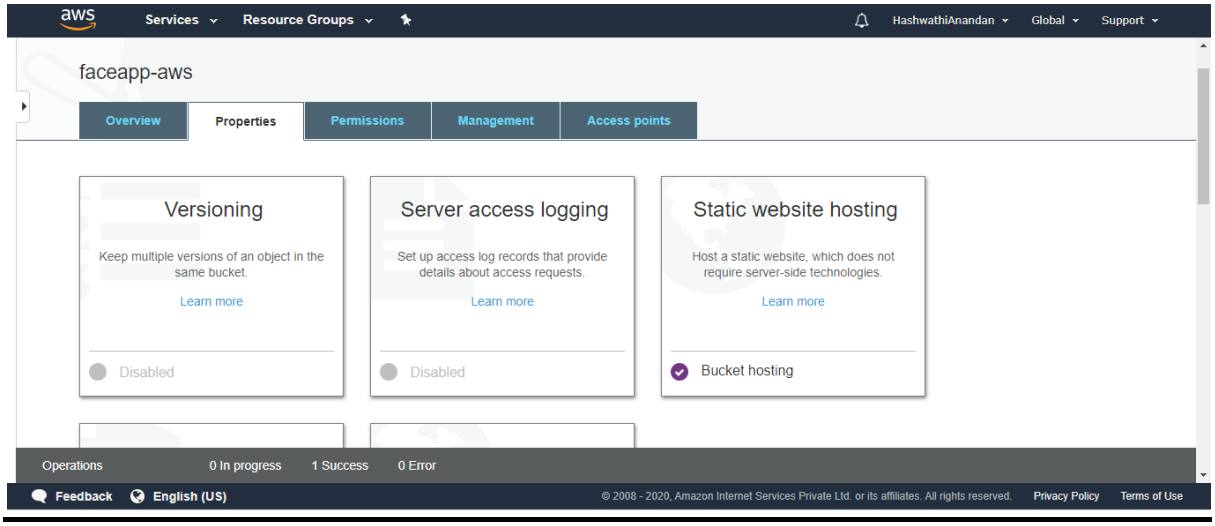


2.Uploading an object:

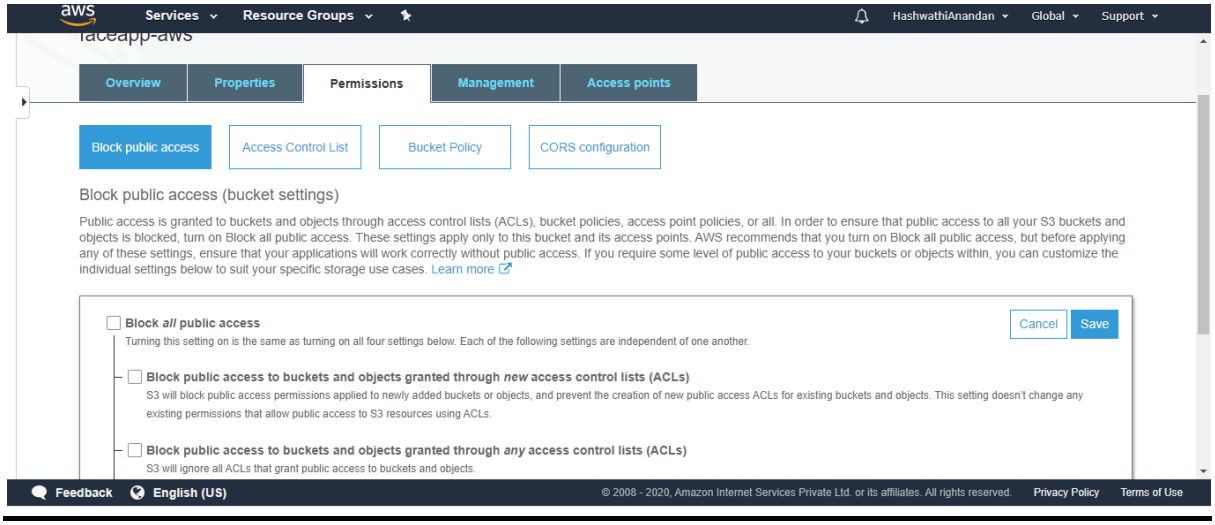


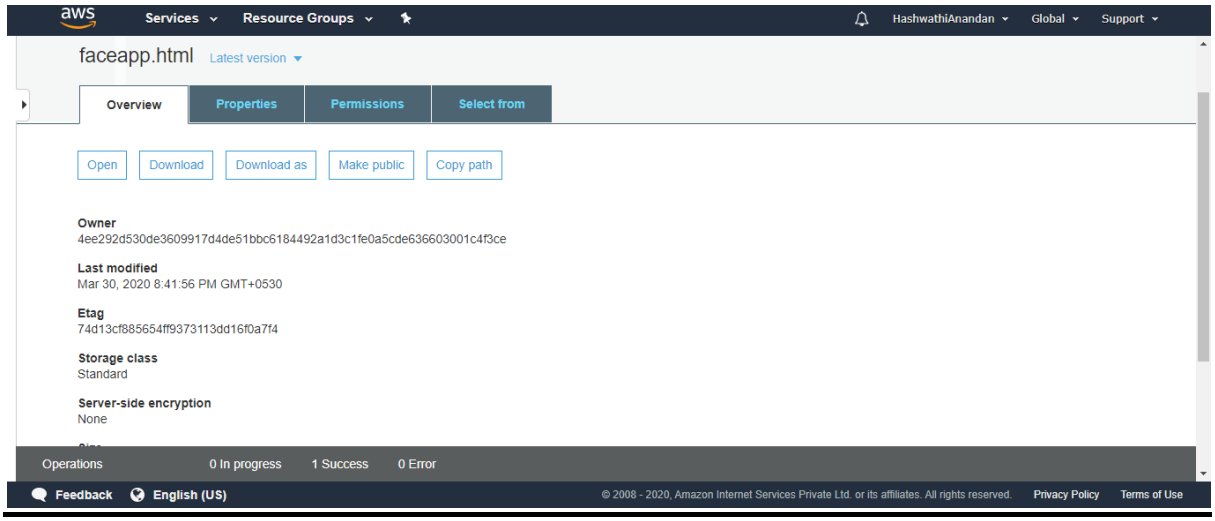
3.Enabling a static website:



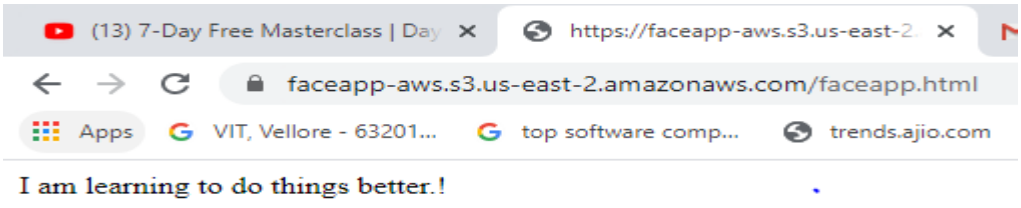


4.Making the Object public:





5.Checking s3 link on browser:



CREATION OF EC2&S3:

1.Installing AWS –SDK:

PuTTY (inactive)

```
  Verifying  : php-common-5.4.16-46.amzn2.0.2.x86_64                      13/13

Installed:
  php.x86_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2
  apr-util.x86_64 0:1.6.1-5.amzn2.0.2
  apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd.x86_64 0:2.4.41-1.amzn2.0.1
  httpd-filesystem.noarch 0:2.4.41-1.amzn2.0.1
  httpd-tools.x86_64 0:2.4.41-1.amzn2.0.1
  libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5
  mailcap.noarch 0:2.1.41-2.amzn2
  mod_http2.x86_64 0:1.15.3-2.amzn2
  php-cli.x86_64 0:5.4.16-46.amzn2.0.2
  php-common.x86_64 0:5.4.16-46.amzn2.0.2

Complete!
[ec2-user@ip-172-31-6-123 ~]$ https://getcomposer.org/installer | php
-bash: https://getcomposer.org/installer: No such file or directory
[ec2-user@ip-172-31-6-123 ~]$ clear
[ec2-user@ip-172-31-6-123 ~]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
Downloading...

Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.pha
r
Use it: php composer.phar

[ec2-user@ip-172-31-6-123 ~]$ cd /var/www/html
[ec2-user@ip-172-31-6-123 html]$ sudo mkdir face
[ec2-user@ip-172-31-6-123 html]$ cd face
[ec2-user@ip-172-31-6-123 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-6-123 face]$ sudo php -d memory_limit=-1 ~/composer.phar req
uire aws/aws-sdk-php
Using version ^2.8 for aws/aws-sdk-php
./composer.json has been created
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 3 installs, 0 updates, 0 removals
  - Installing symfony/event-dispatcher (v2.8.52): Downloading (100%)
```

2.Install php:

PuTTY (inactive)

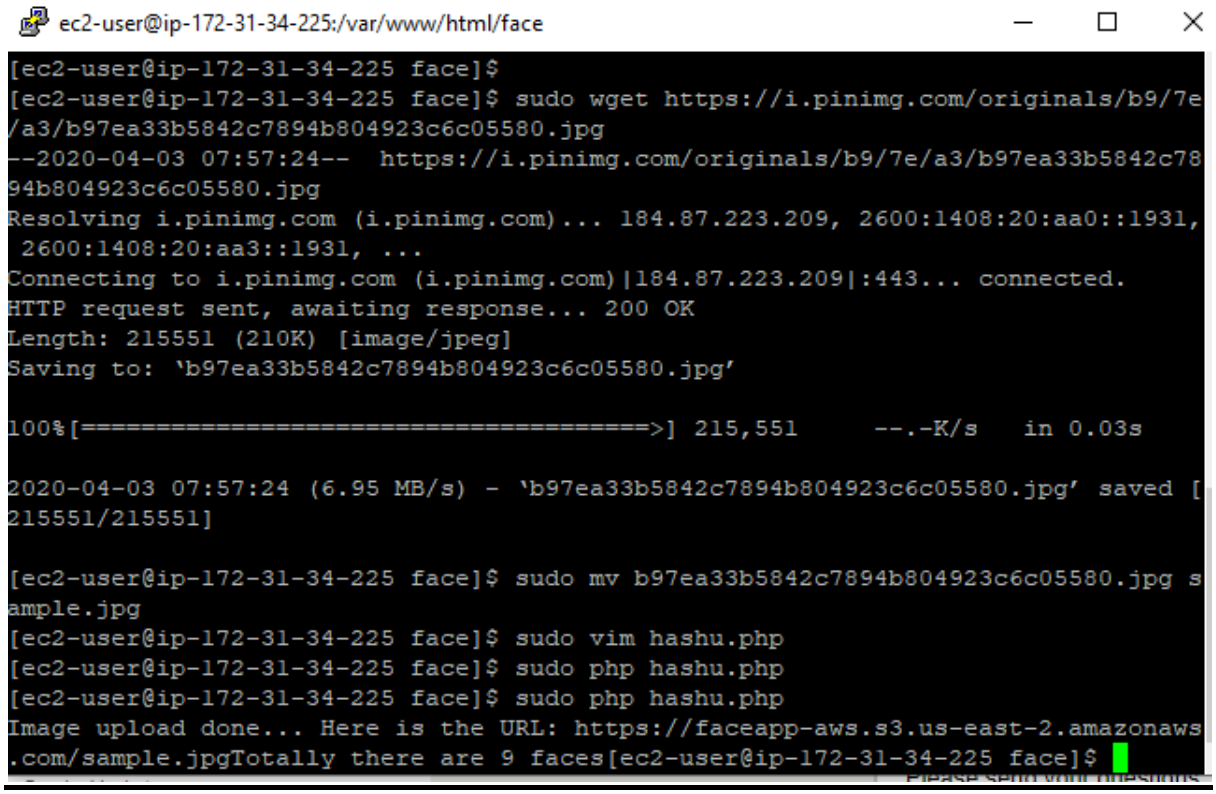
```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Fri Apr  3 07:35:35 2020 from 157.50.112.74

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-34-225 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                               | 2.4 kB     00:00
Package php-7.2.28-1.amzn2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-34-225 ~]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
Downloading...

Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.pha
r
Use it: php composer.phar
```

3.PHP source file code:

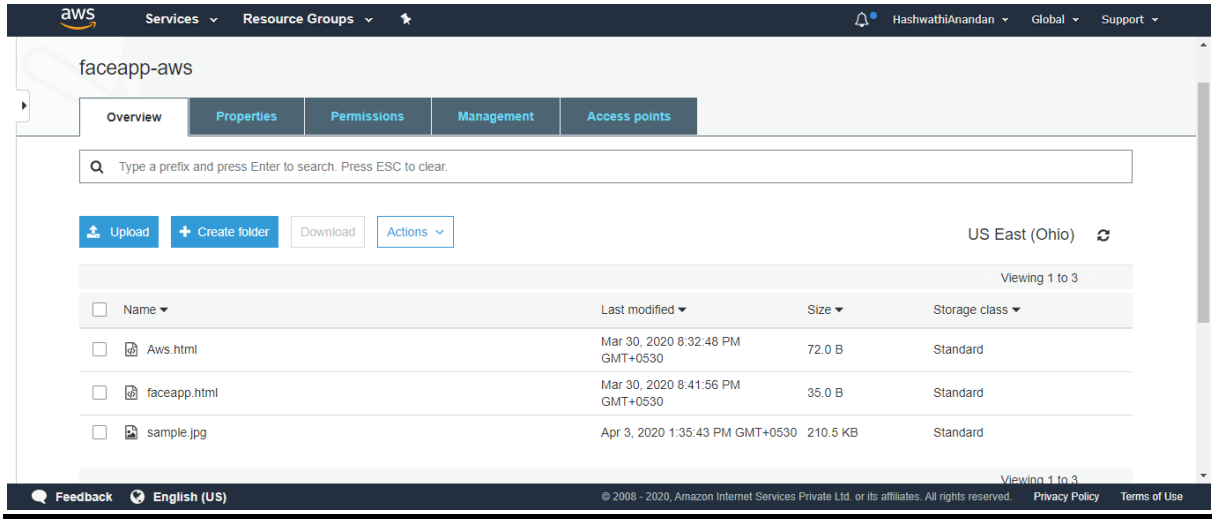
ec2-user@ip-172-31-34-225:/var/www/html/face

```
        'version'       => '2006-03-01',
        'signature'     => 'v4'
]);

try {
    // Upload data.
        $result = $s3->putObject([
                'Bucket'                => $bucket,
                'Key'                   => $keyname,
                'SourceFile'    => __DIR__. "/$keyname",
                'ACL'                   => 'public-read-write'
        ]);

    // Print the URL to the object.
        $imageUrl = $result['ObjectURL'];
        if($imageUrl) {
                echo "Image upload done... Here is the URL: " . $imageUrl;

                $rekognition = new RekognitionClient([
                        'region'        => 'us-east-2',
                        'version'       => 'latest',
                ]);

                $result = $rekognition->detectFaces([
                        'Attributes'    => ['DEFAULT'],
                        'Image' => [
                                'S3Object' => [
                                        'Bucket' => $bucket,
                                        'Name'   => $keyname,
                                        'Key'    => $keyname,
                                ],
                        ],
                ]);

                echo "Totally there are " . count($result["FaceDetails"]) . " faces";
        }
} catch (Exception $e) {
        echo $e->getMessage() . PHP_EOL;
}
~
~
~
~
```

4.upload success :

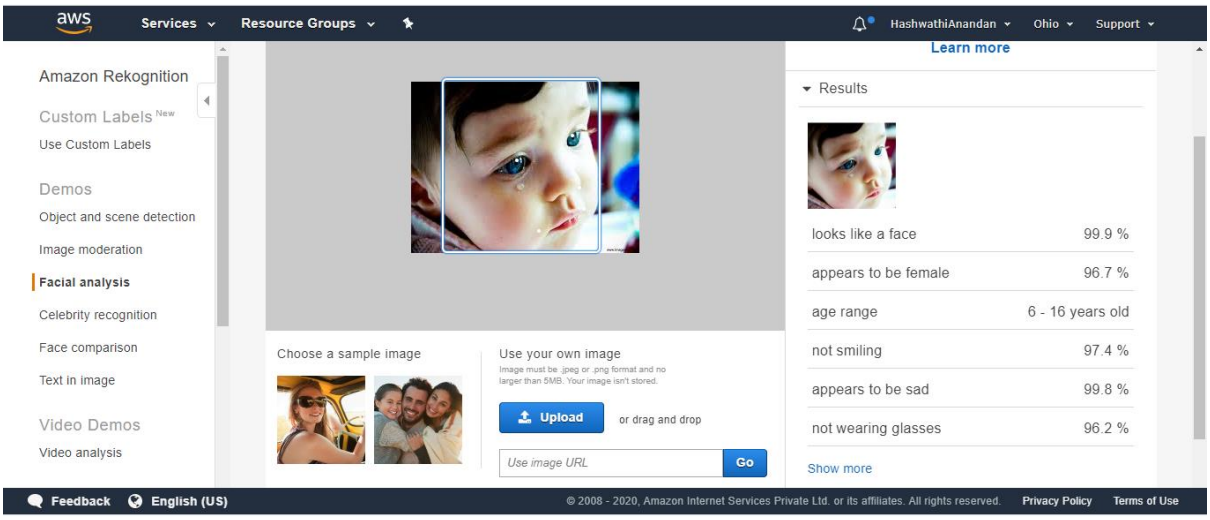


5.IMAGE UPLOAD DONE:

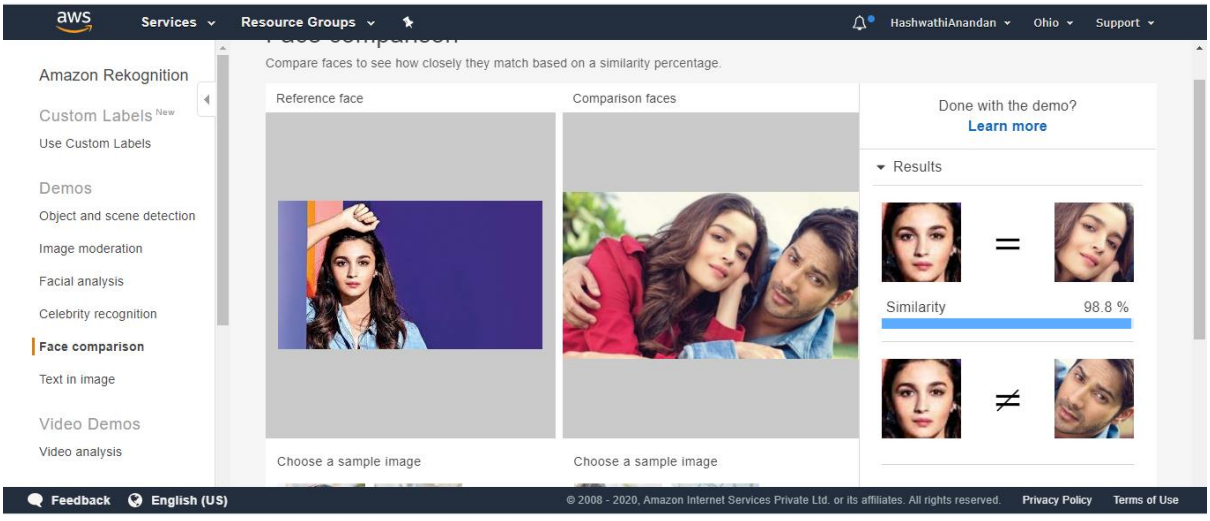


REKOGNITION:

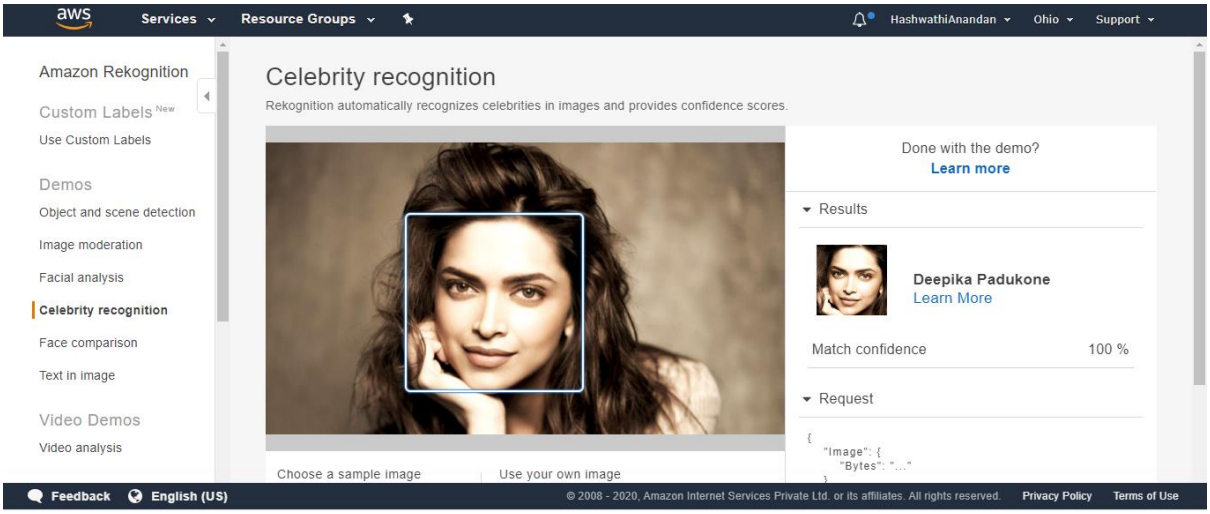
1.FACE DETECTION:



2.FACE COMPARISON:



3.CELEBRITY FACE DETECTION:



4.TEXT IN IMAGE: