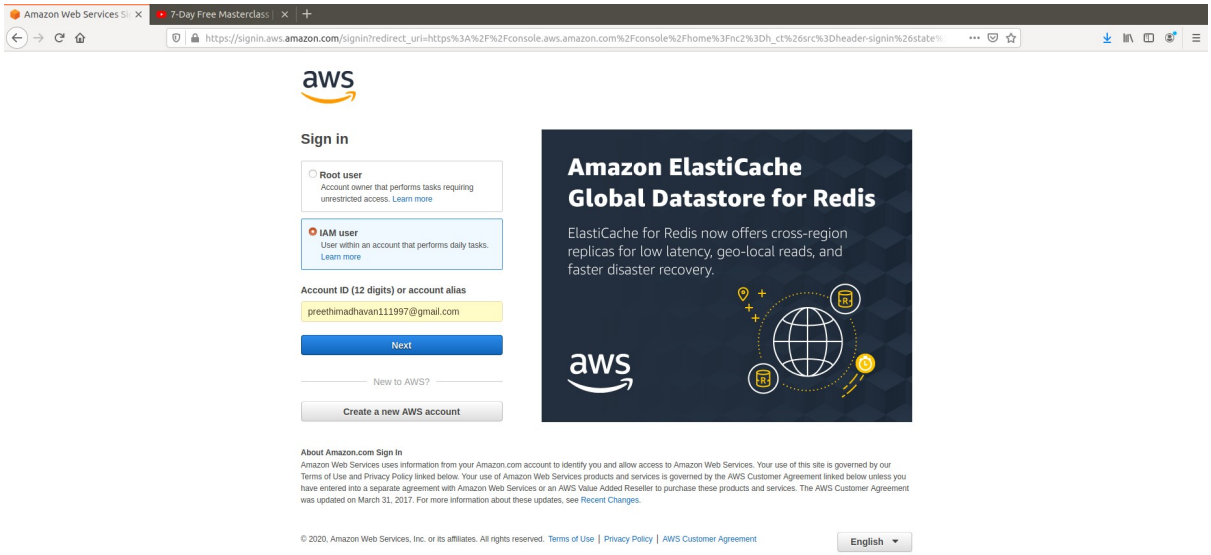
NAME: M. PREETHI

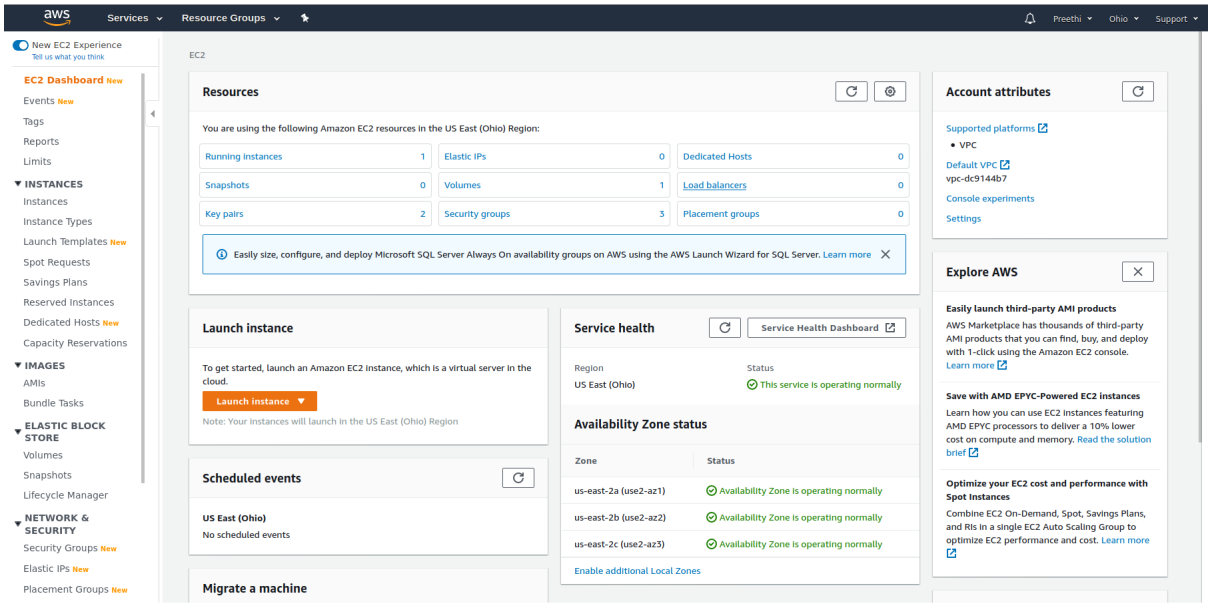
COURSE: MTECH CSE

COLLEGE: VIT,VELLORE

AWS Login



EC2 Dashboard



S3 Dashboard

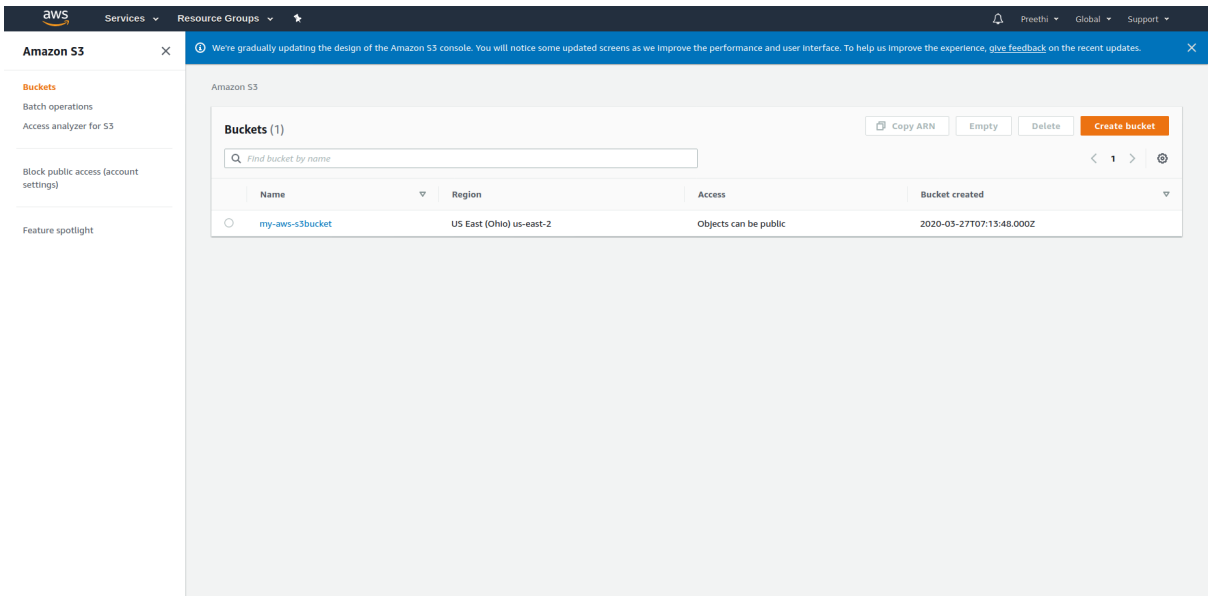
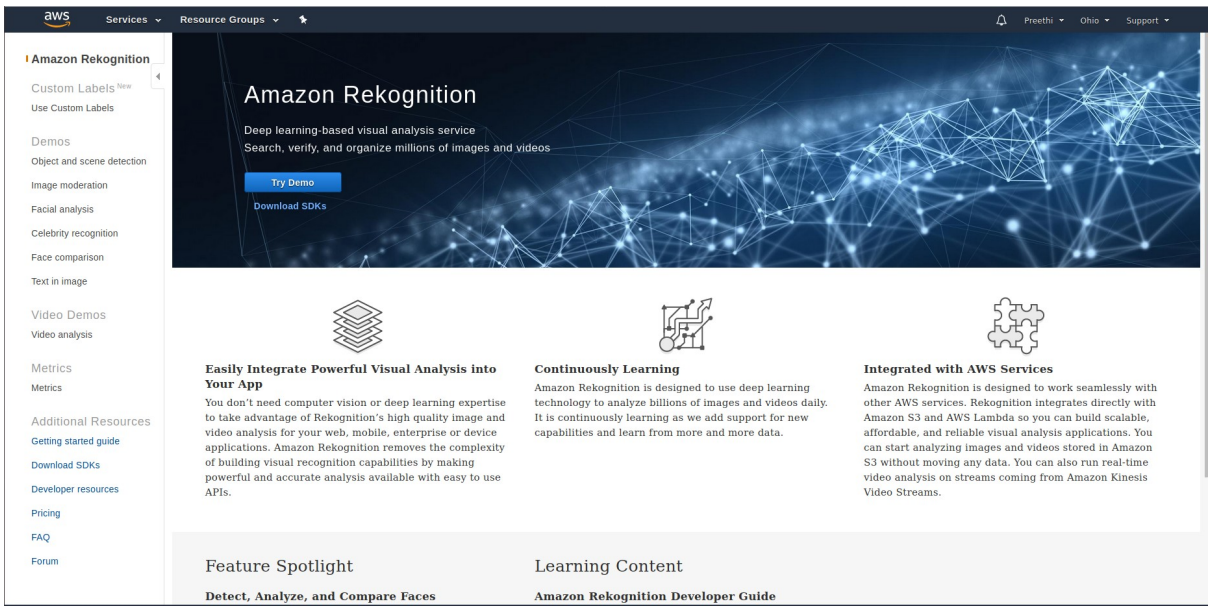


Image Rekognition

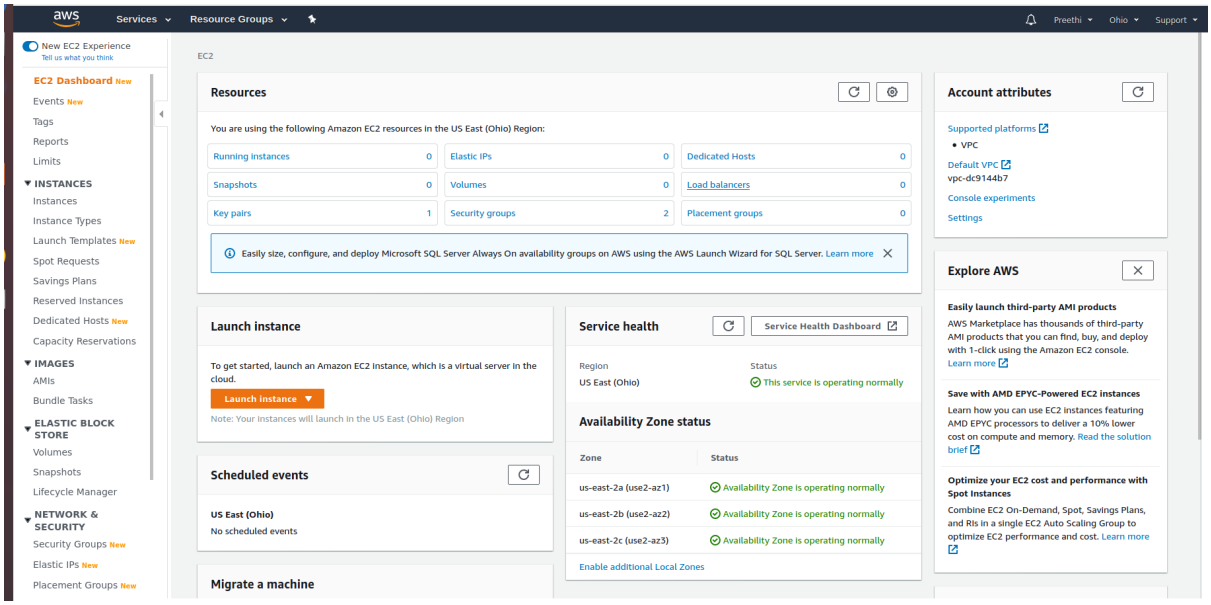


Creating EC2 instance

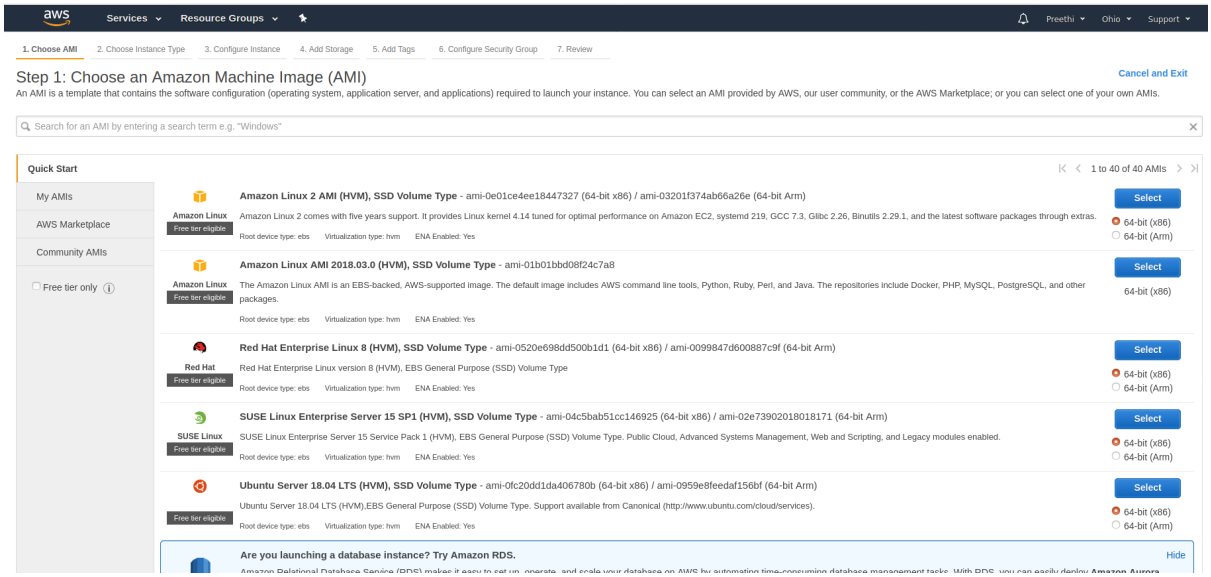
select the region as **US East (Ohio)** us-east-2

In AWS console -> goto service -> select EC2 instance as computation

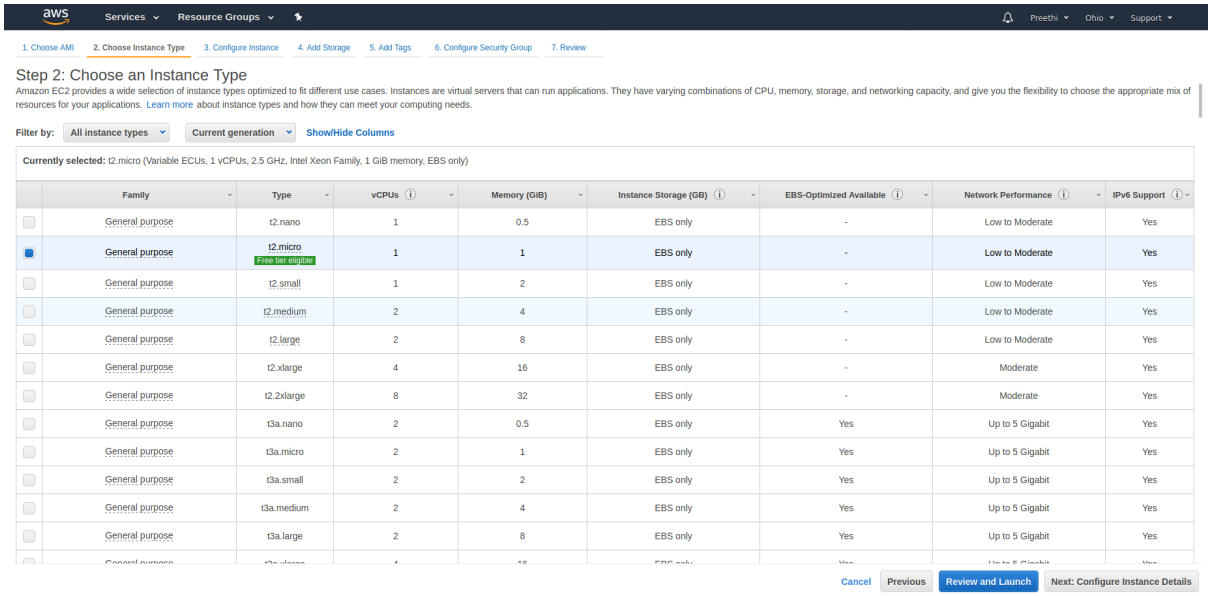
Choose **Launch Instance**.



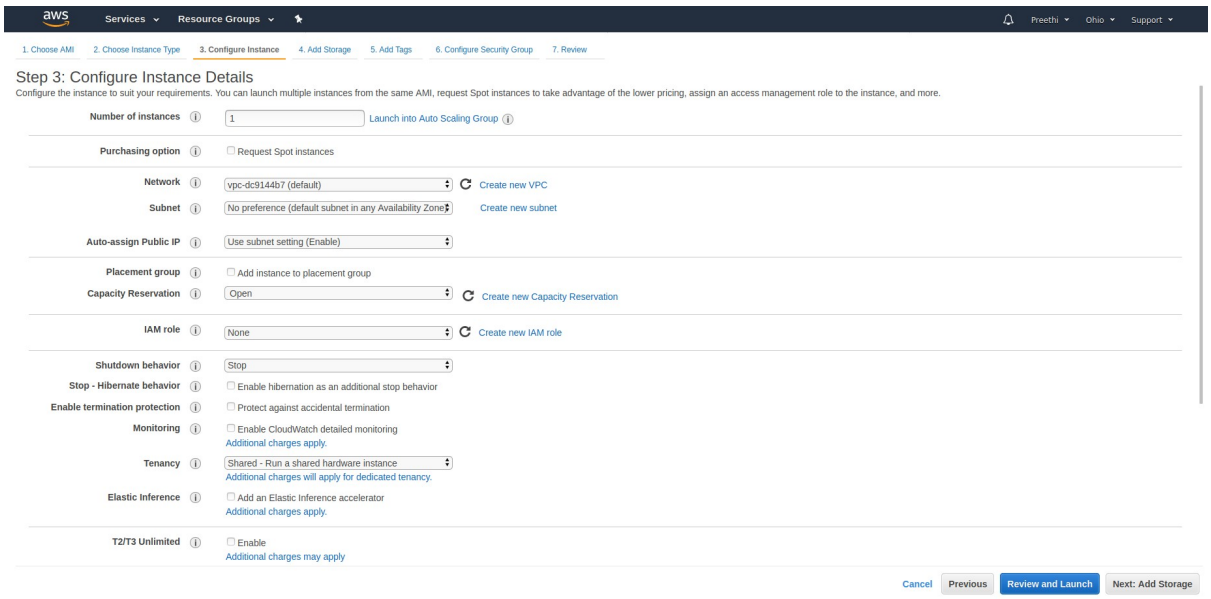
Step 1: Choose an Amazon Machine Image (AMI)



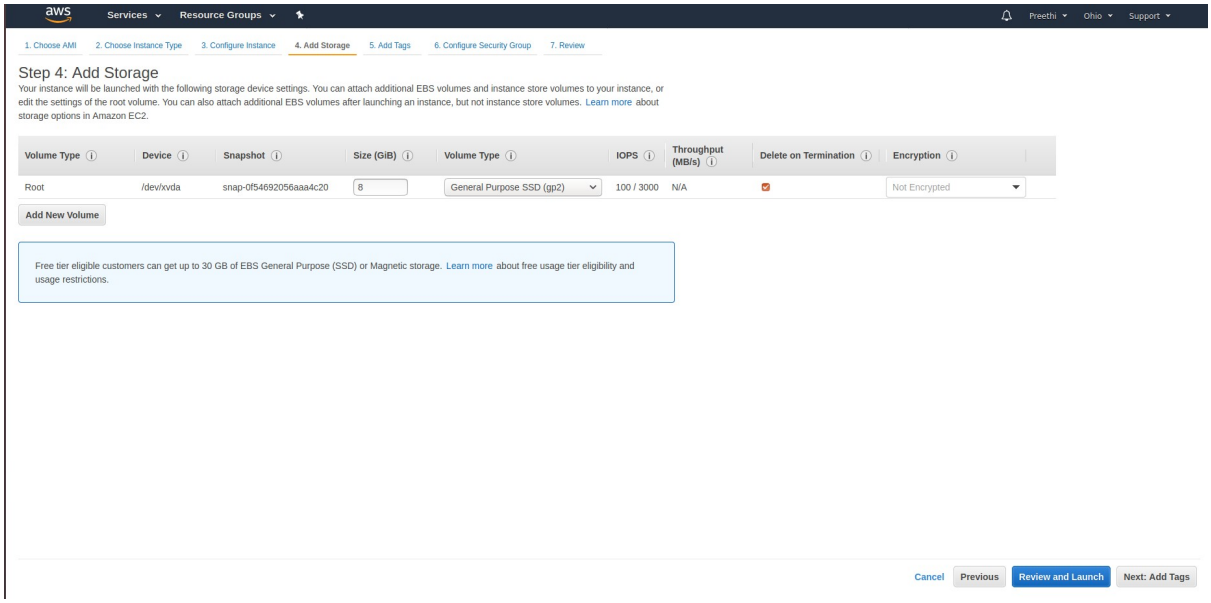
Step 2: Choose an Instance Type



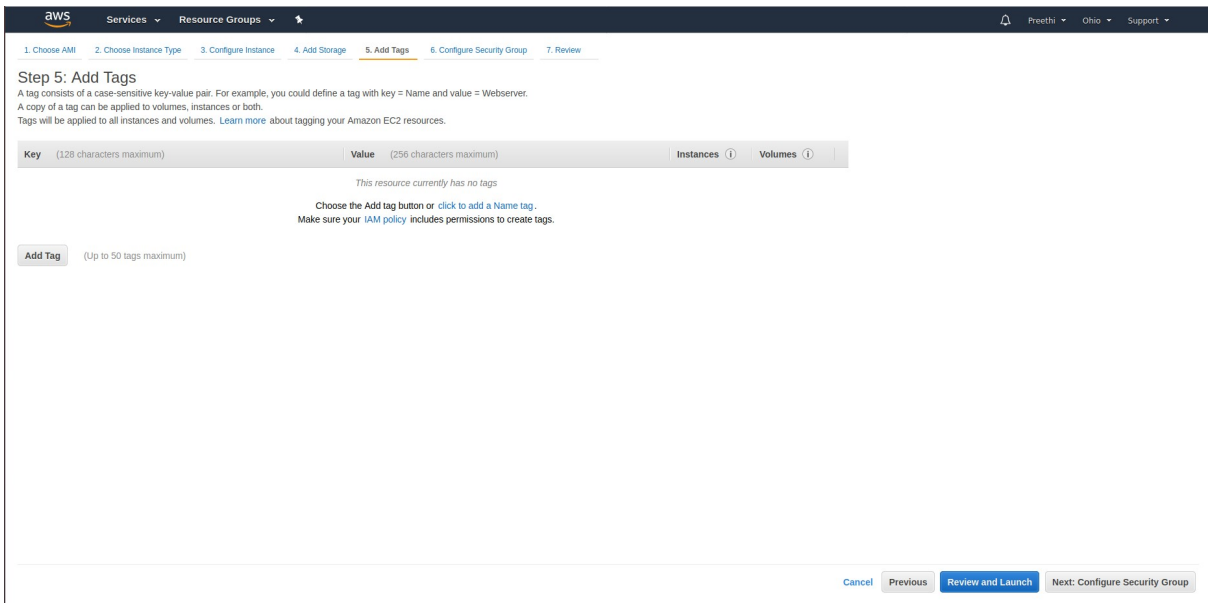
Step 3: Configure Instance Details



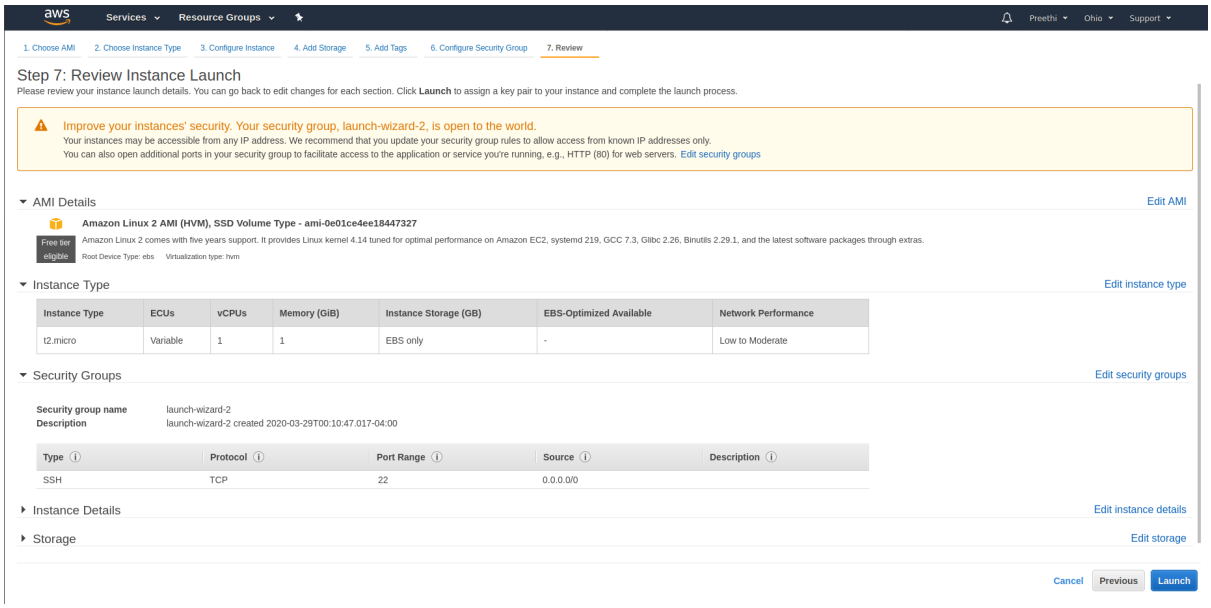
Step 4: Add Storage



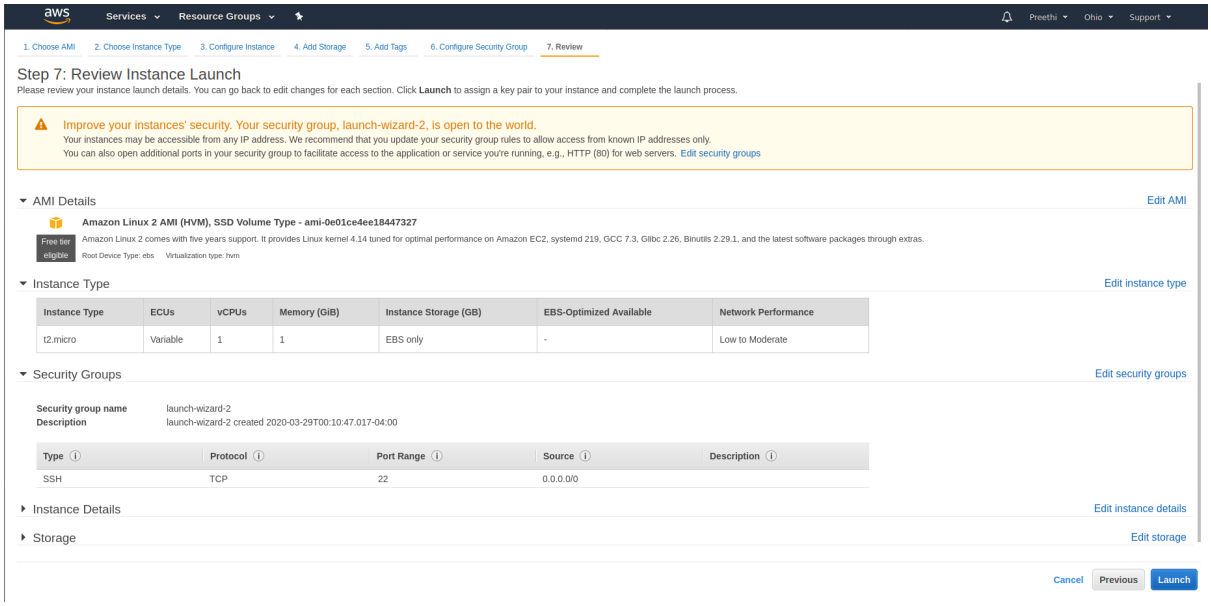
Step 5: Add Tags



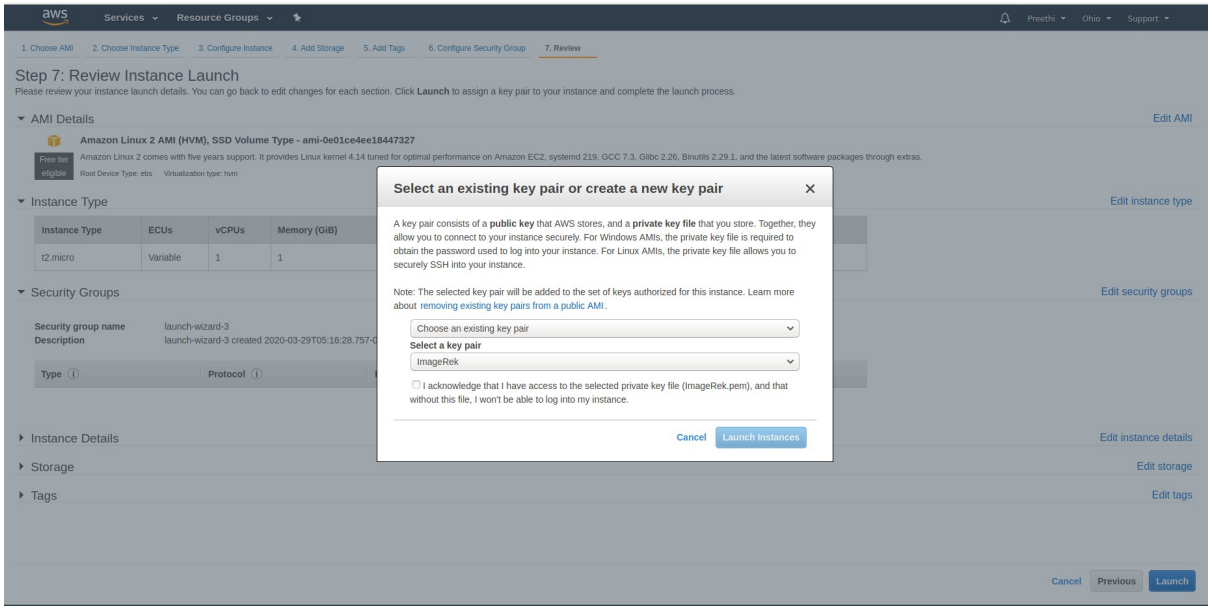
Step 6: Configure Security Group



Step 7: Review Instance Launch



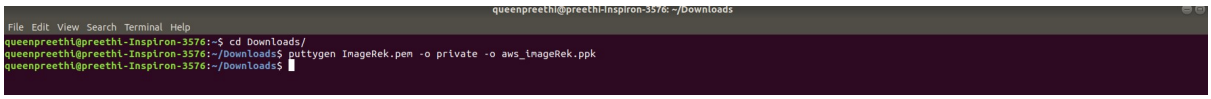
Key pair Download

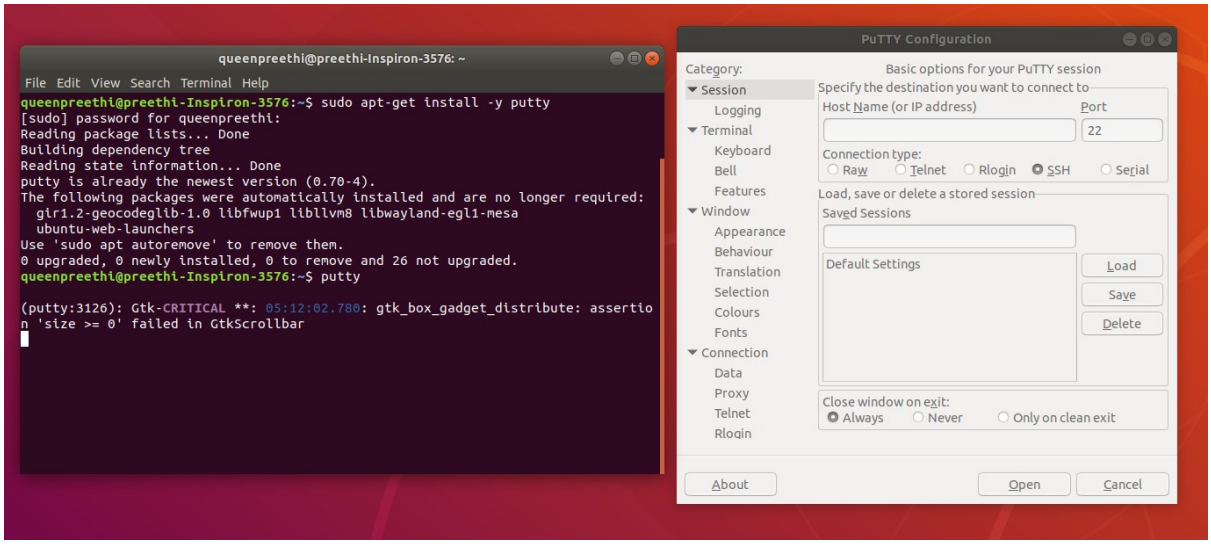


Open the terminal and type the commands

1.sudo apt-get update
2.sudo apt-get install -y putty
3.putty

File conversion



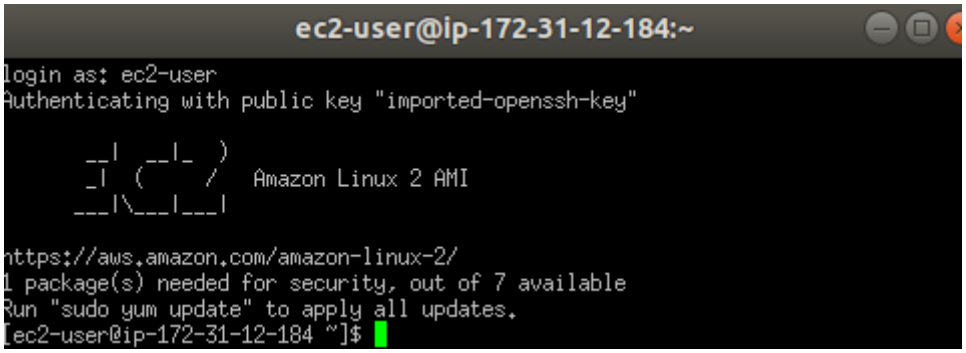


In host name paste the IPv4 Public IP 18.219.125.230

In connection category -> select SSH -> Auth -> then browser the ppk file

And click on open then putty terminal will be opened. Accept the security alert.

Login as: ec2-user



INSTALLING A SERVER

sudo yum install httpd

sudo service httpd start

sudo service httpd status

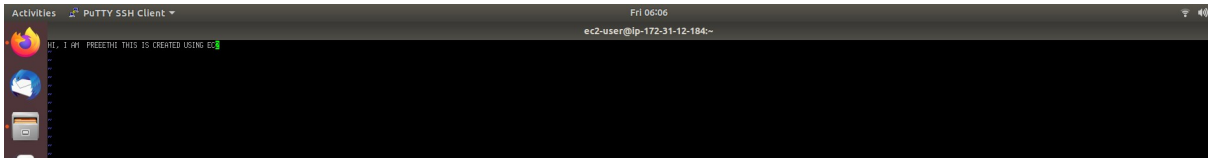
sudo vim */var/www/html/index.html*

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Mar 26 16:54:58 2020 from 60.243.121.120

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

https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-12-184 ~]$ sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                               | 2.4 kB     00:00
Package httpd-2.4.41-1.amzn2.0.1.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-12-184 ~]$ sudo service httpd httpd start
The service command supports only basic LSB actions (start, stop, restart, try-r
estart, reload, force-reload, status). For other actions, please try to use syst
emctl.
[ec2-user@ip-172-31-12-184 ~]$ sudo service httpd httpd status
The service command supports only basic LSB actions (start, stop, restart, try-r
estart, reload, force-reload, status). For other actions, please try to use syst
emctl.
[ec2-user@ip-172-31-12-184 ~]$ sudo vim /var/www/html/index.html
```

Enter i before typing something in the file and save that by press esc and type :wq



To alllow http

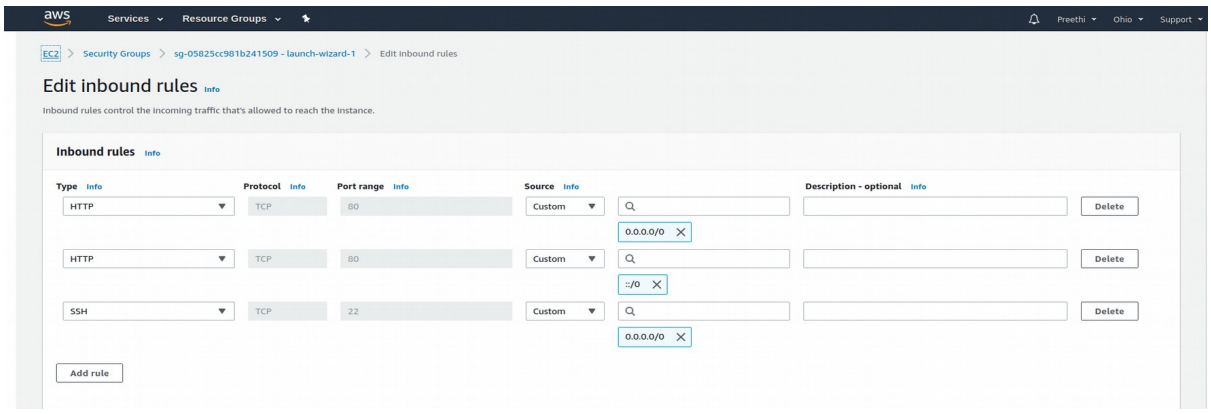
In sercurity group launch wizard

Again enter into security group id inside that Inbound rules

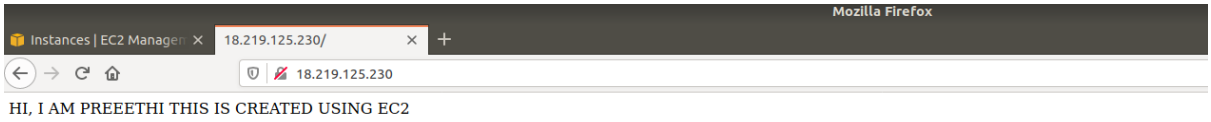
Edit Inbound rules -> add rule

HTTP with port -> 80

and save it.



Then type this url 18.219.125.230



INSTANCE STATE

Select the running instance and choose the action -> instance state

instance state

1. Terminate

Complete shutdown we cannot be used again.

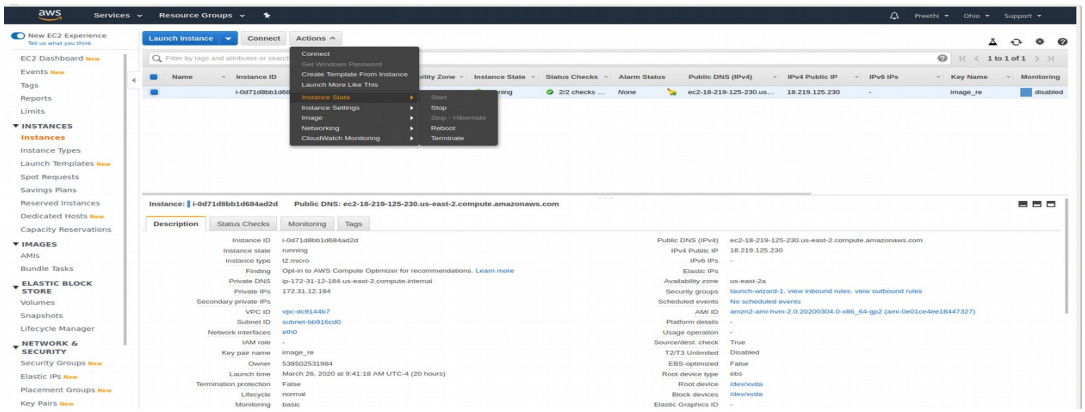
2. Reboot

Reboot, which we can switch off and on [Restart].

3. Stop

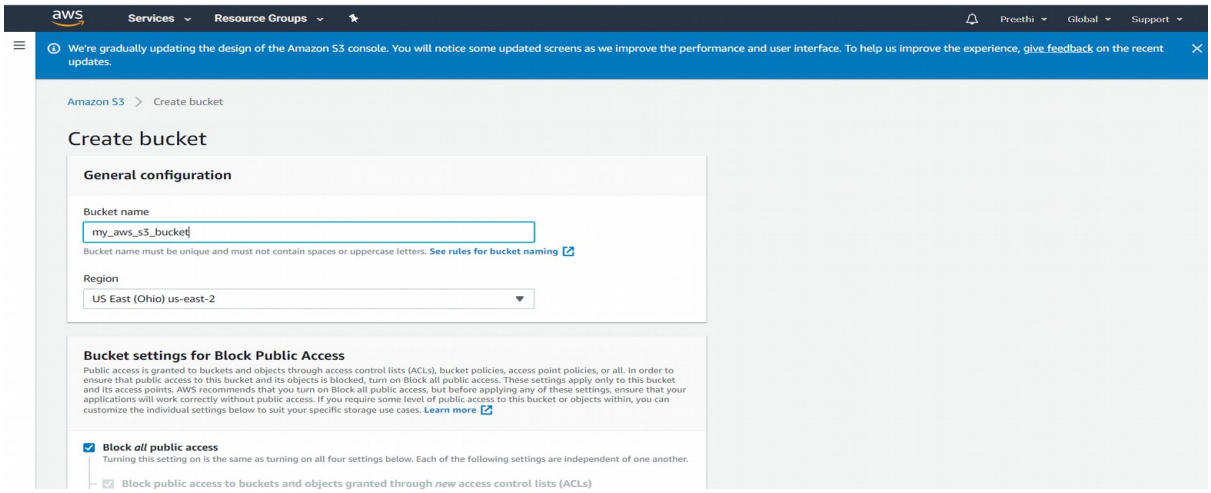
just shutdown if we want we can Restart.

TERMINATING THE INSTANCE

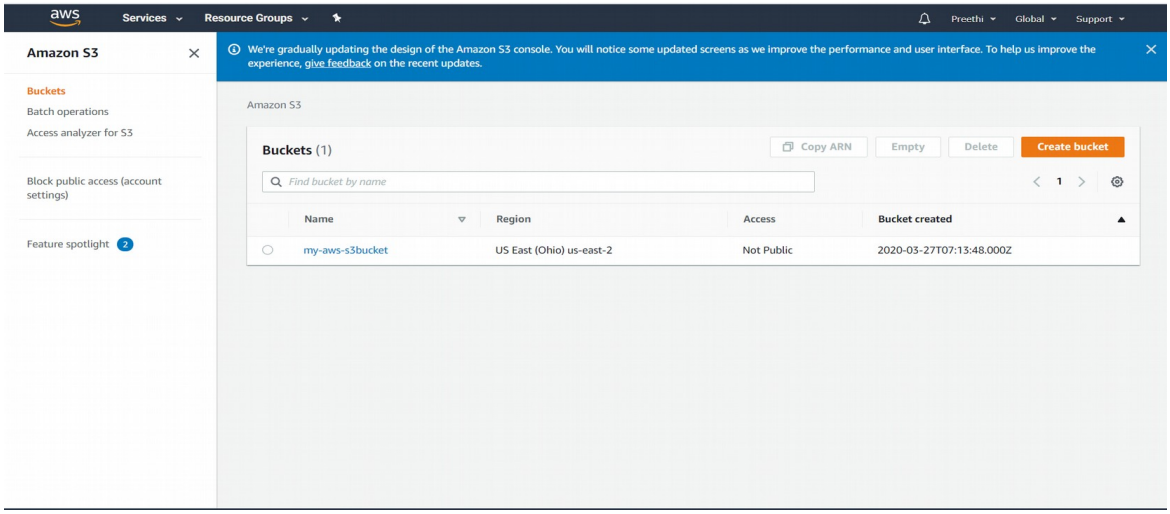


Amazon Simple Storage Service (Amazon S3)

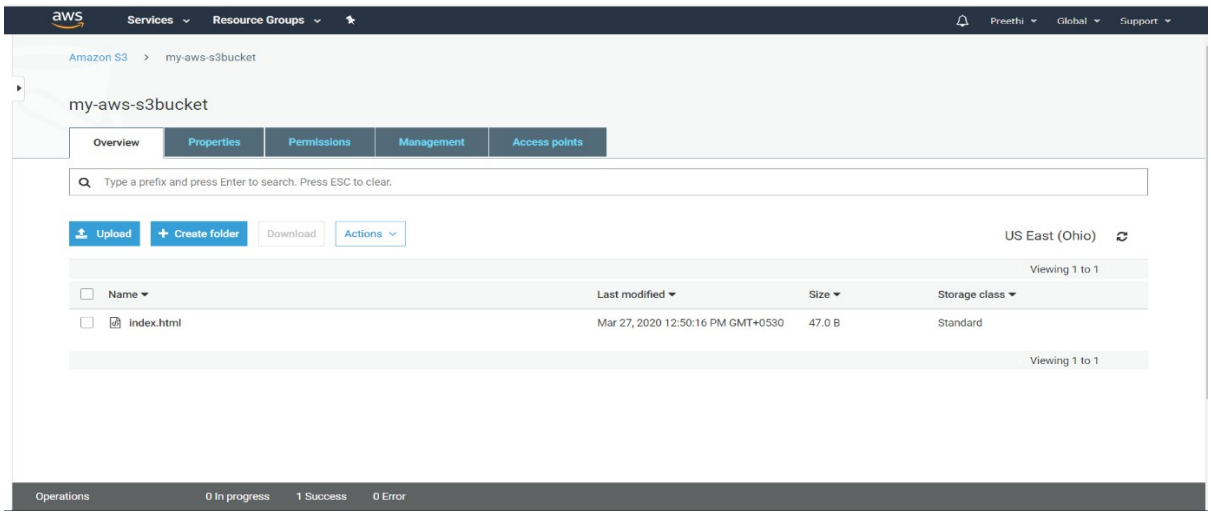
1.In aws-> services -> under storage select s3. Inside s3 create bucket as follows:

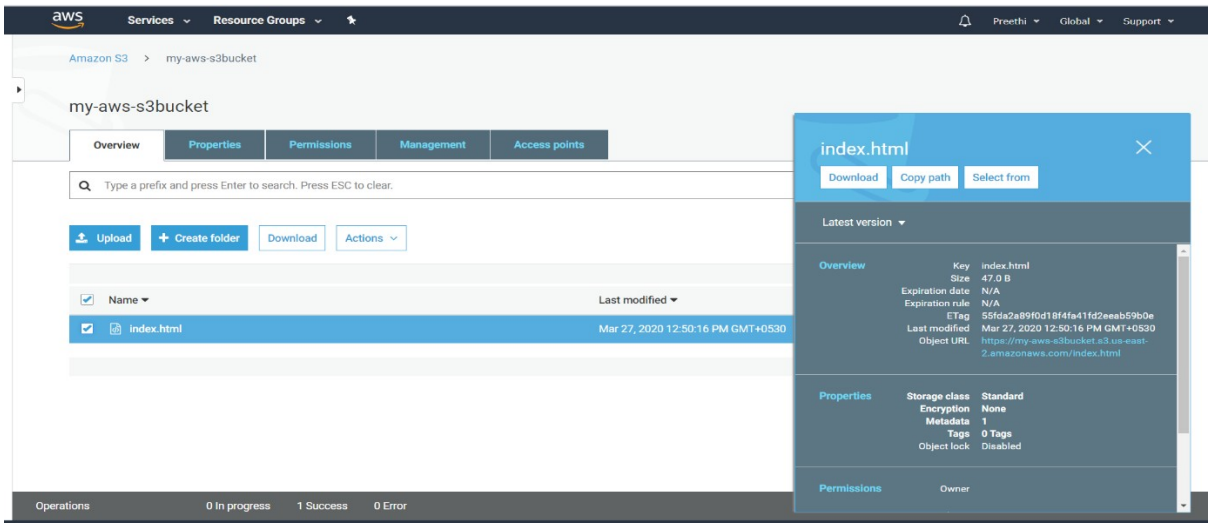


The bucket name should be unique. Next select the region as US EAST(Ohio) us-east-2 and save that.



Inside the bucket, now we are creating object by adding files i.e I am inserting my html file.

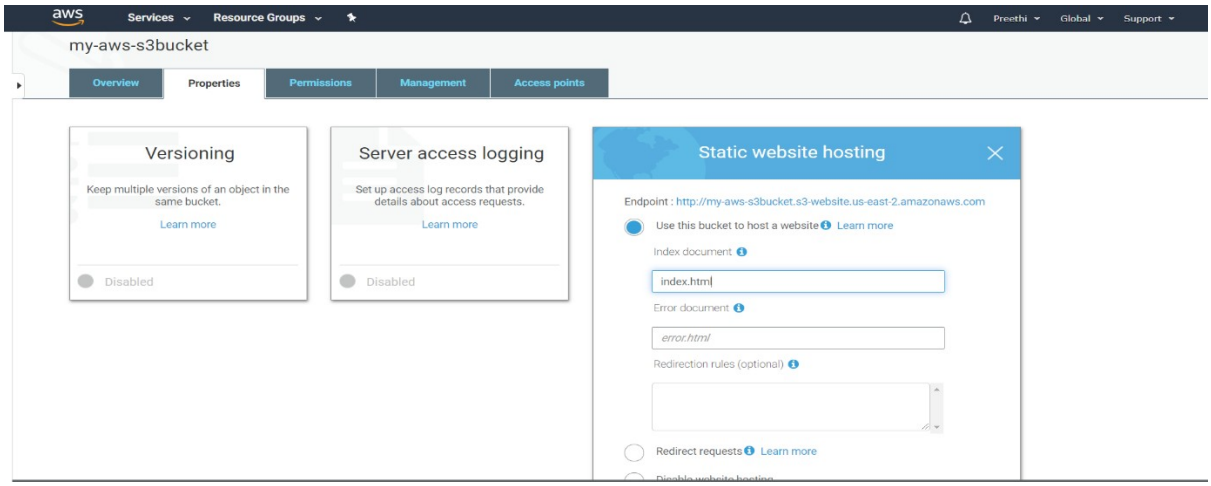




There are three steps of permission to permitted, to host the website.

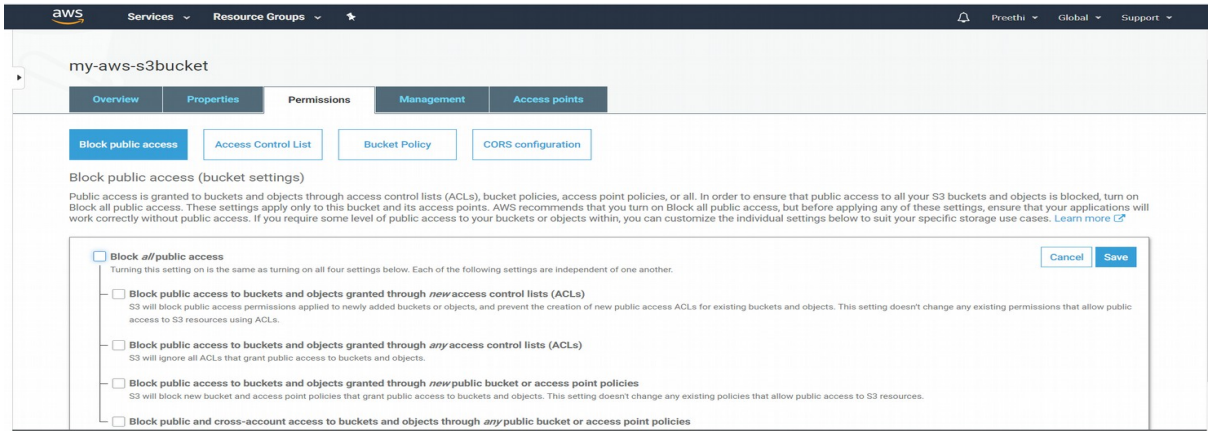
STEP 1:

For static website hosting, go to properties click on static website hosting and type the html file name and save it.

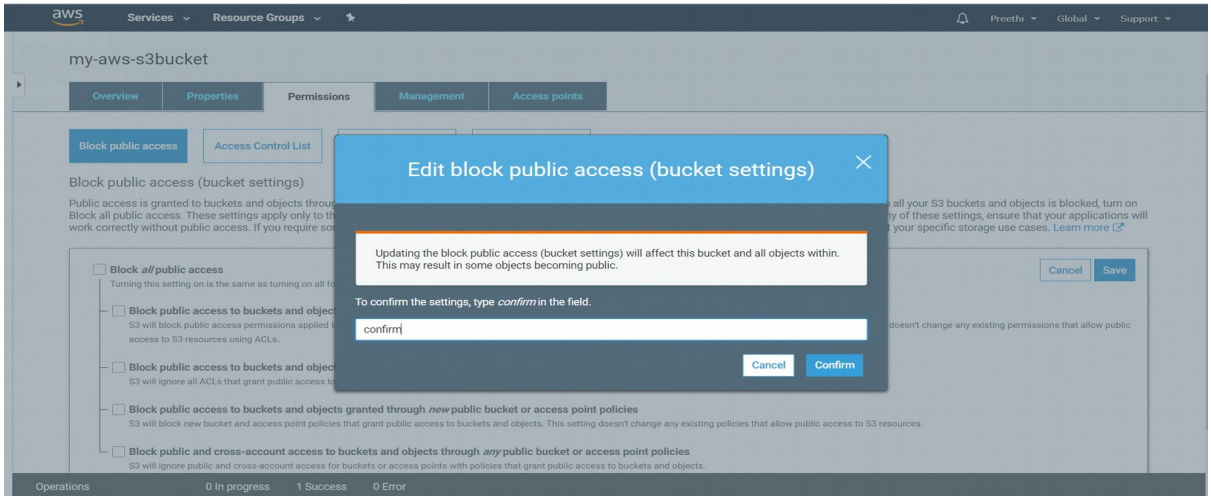


STEP 2:

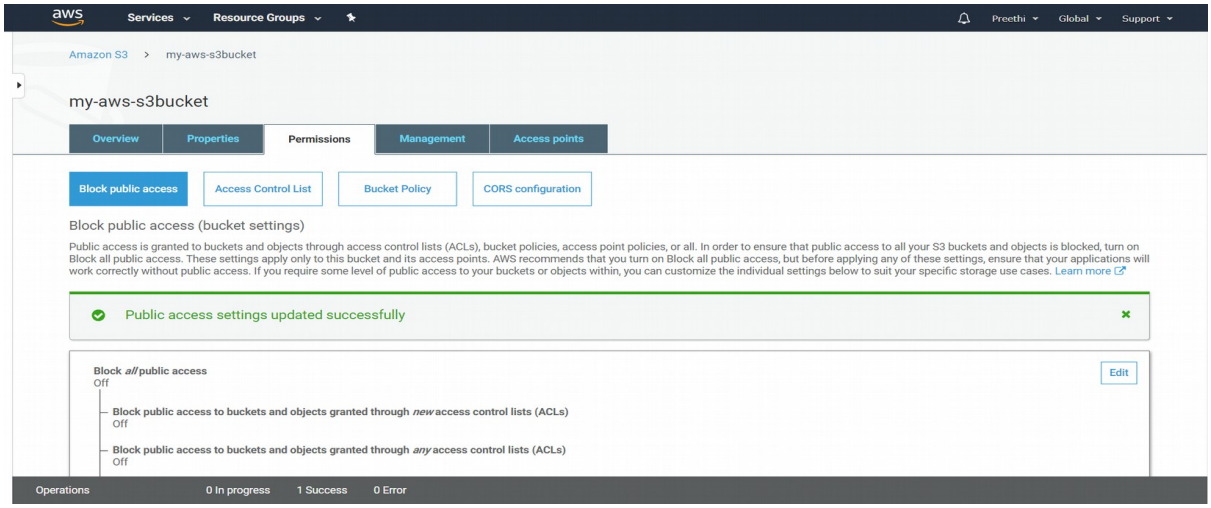
In permission tab there will be block public access unselect all that and save.



Confirm it by typing it.

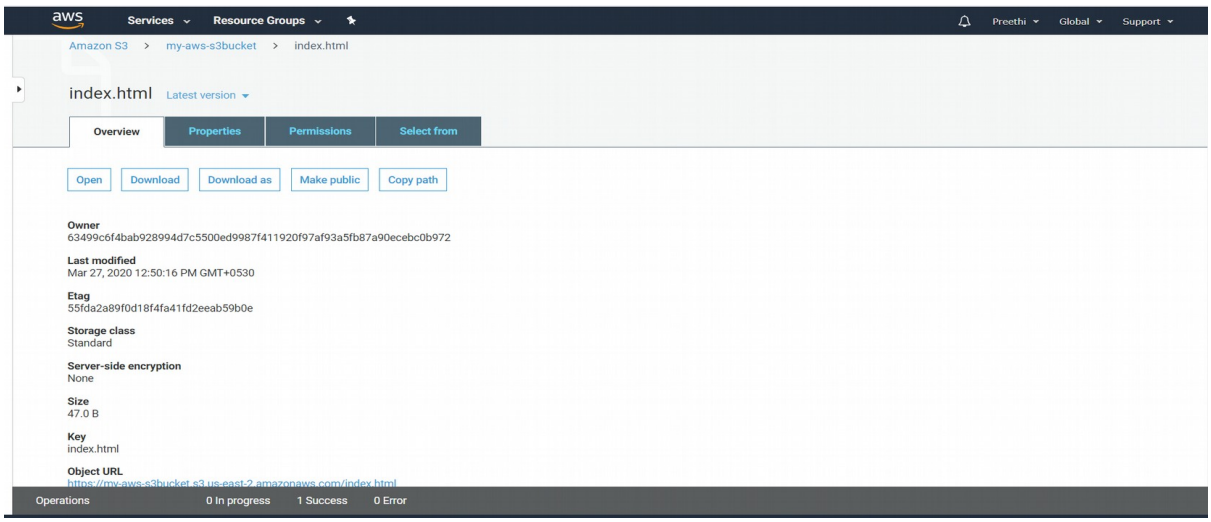


Public access settings updated successfully

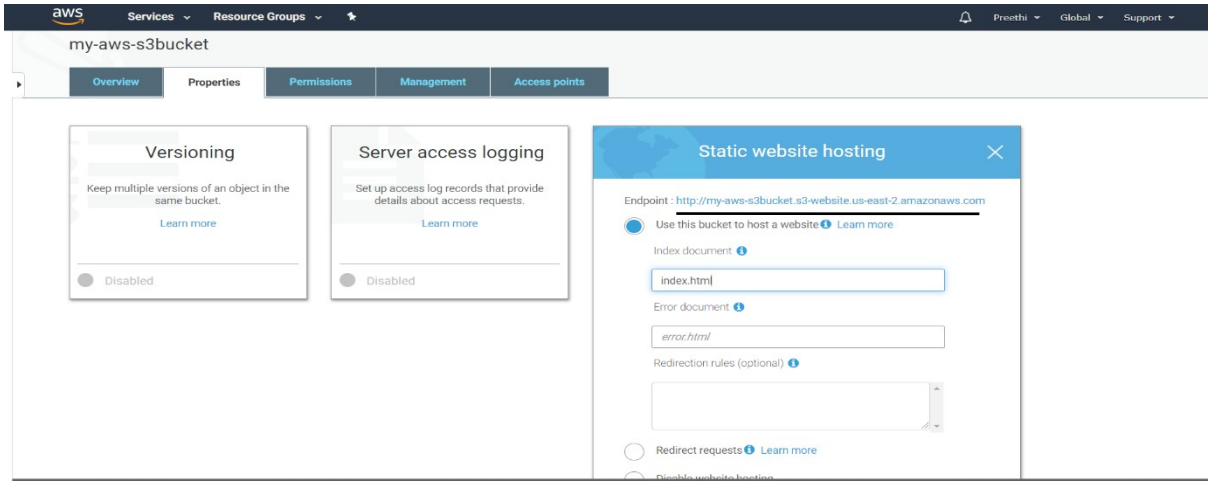


STEP 3:

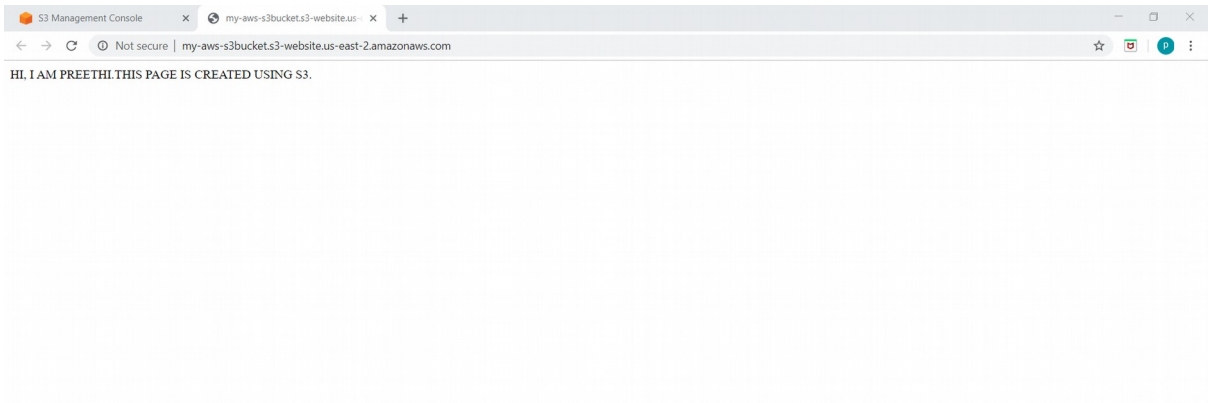
In overview also make it as public.



Once that is done go to the properties and click it http://my-aws-s3bucket.s3-website.us-east-2.amazonaws.com/

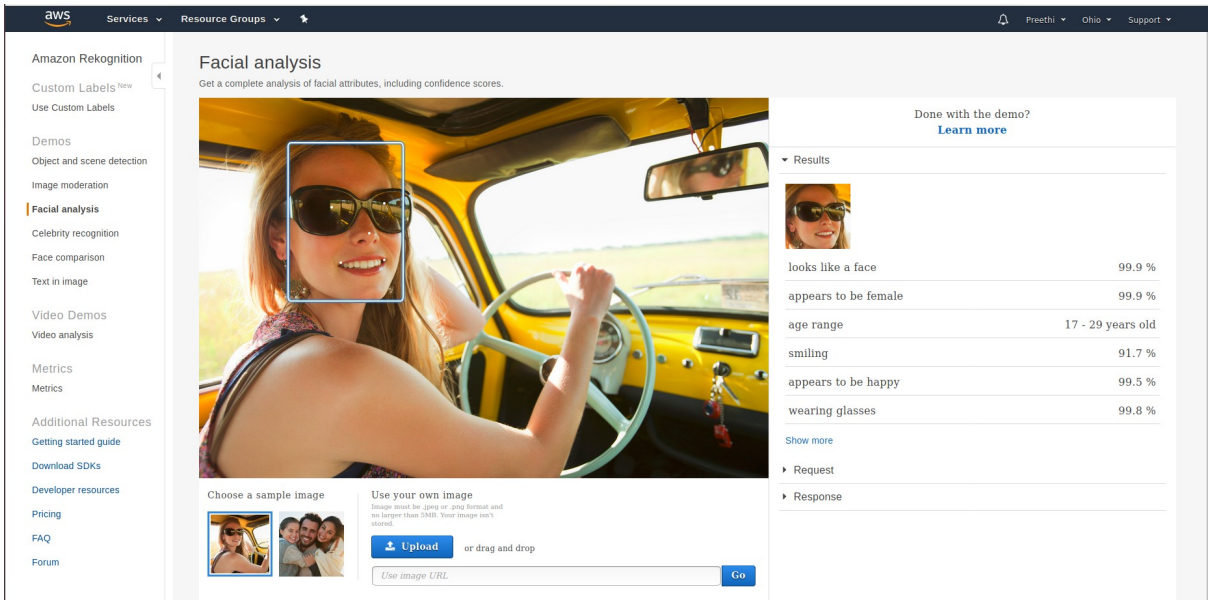


THE OUTPUT:

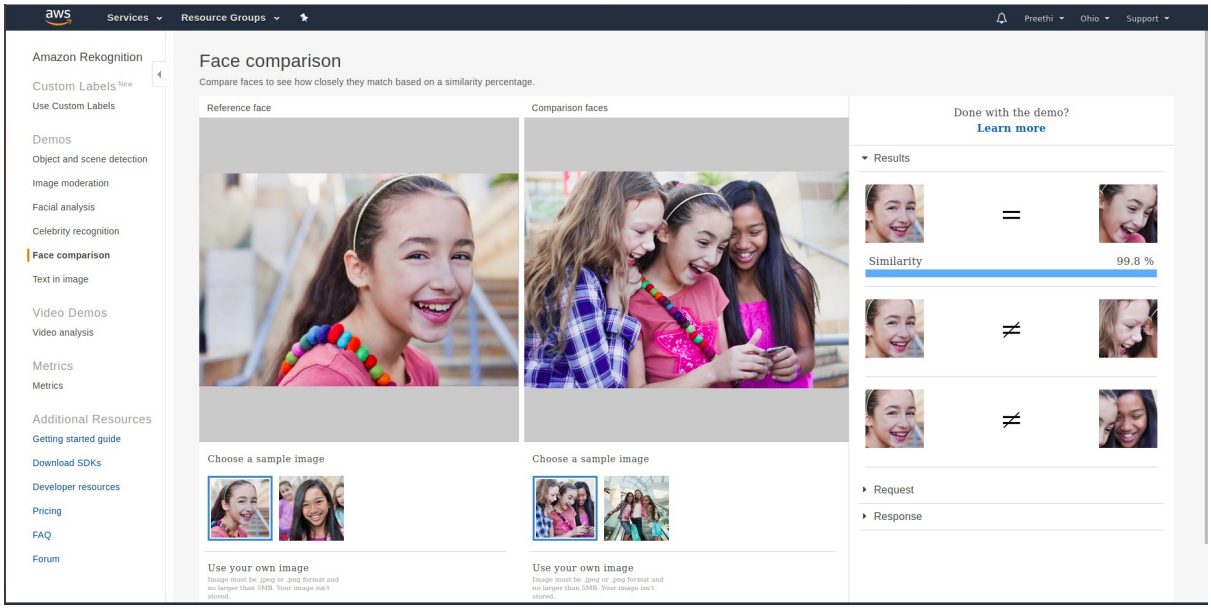


Rekognition

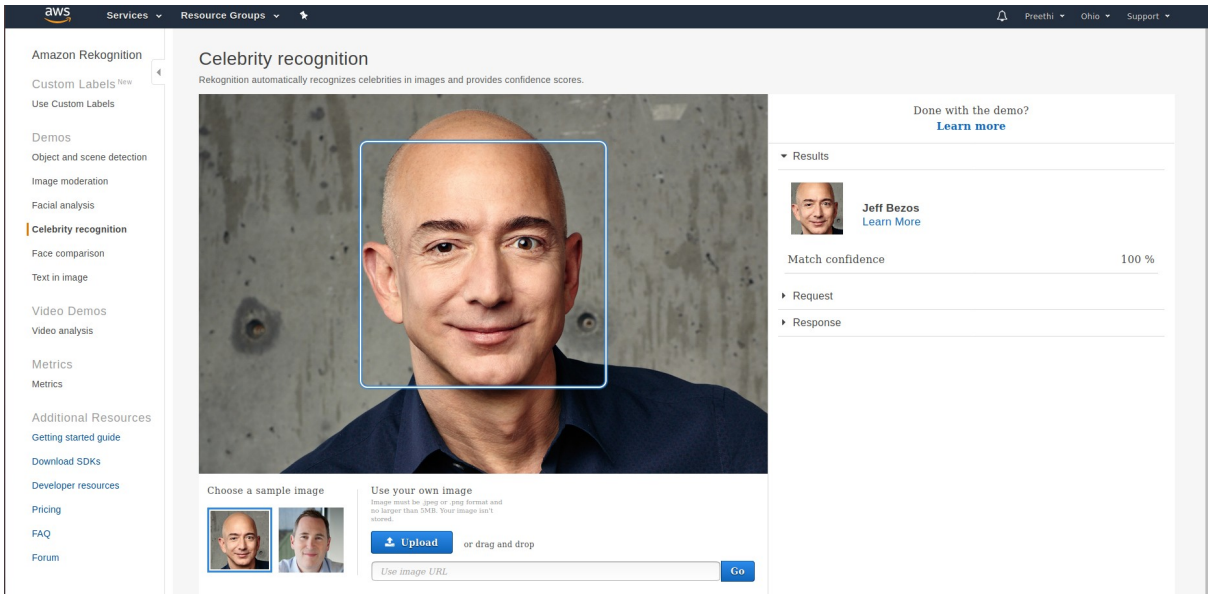
Facial analysis



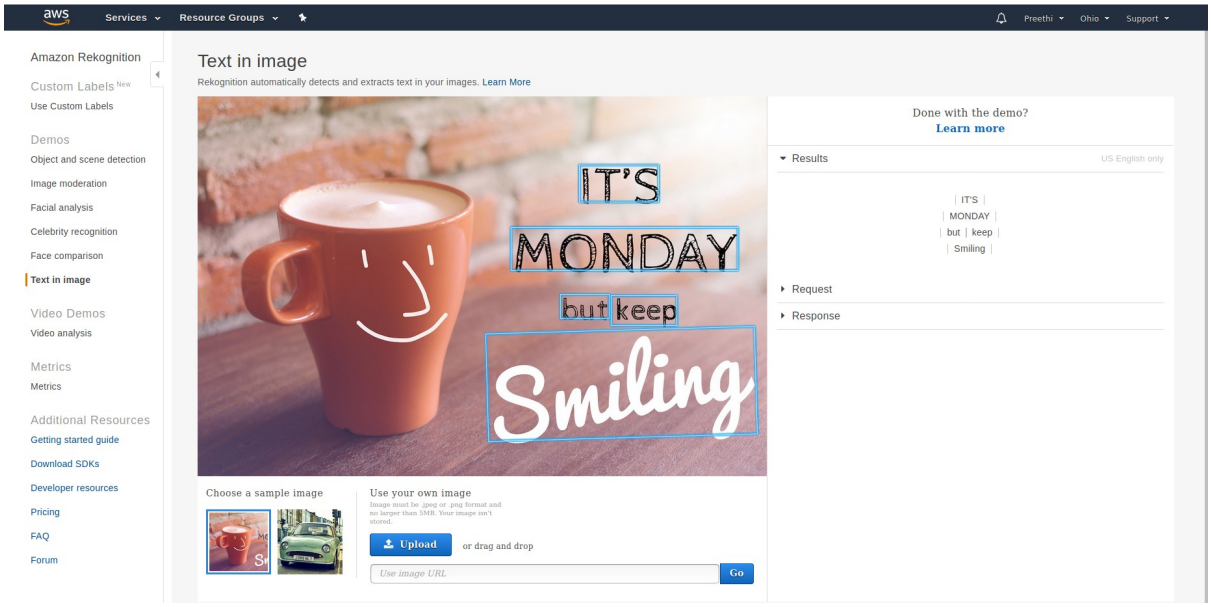
Face comparison



Celebrity recognition



Text in image



EC2 AND S3

INSTALLING AWS-ASDK

```
[ec2-user@ip-172-31-28-214 ~]$ cd /var/www/html
[ec2-user@ip-172-31-28-214 html]$ cd face
[ec2-user@ip-172-31-28-214 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^2.8 for aws/aws-sdk-php
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Generating autoload files
```

INSTALLING PHP

```
[ec2-user@ip-172-31-28-214 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                               | 2.4 kB  00:00:00
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-28-214 ~]$ 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.phar
Use it: php composer.phar
```

index.php CODE

ec2-user@ip-172-31-28-214:/var/www/html/face

```
<?php

/*

Install php - sudo yum install php
curl -sS https://getcomposer.org/installer | php
cd /var/www/html
sudo mkdir face
cd face
sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php

In case if you get memory error -
        sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
        sudo /sbin/mkswap /var/swap.1
        sudo /sbin/swapon /var/swap.1

sudo wget https://i.pining.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg

*/
error_reporting(0);

require_once(__DIR__ . '/vendor/autoload.php');

use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;


$bucket = 'my-aws-s3bucket';
$keyname = 'sample.jpg';

$s3 = S3Client::factory([
        'profile'       => 'default',
        'region'        => 'us-east-2',
        'version'       => '2006-03-01',
        'signature'     => 'v4'
]);

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

    // Print the URL to the object.
        $imageUrl = $result['ObjectURL'];
        if($imageUrl) {
```

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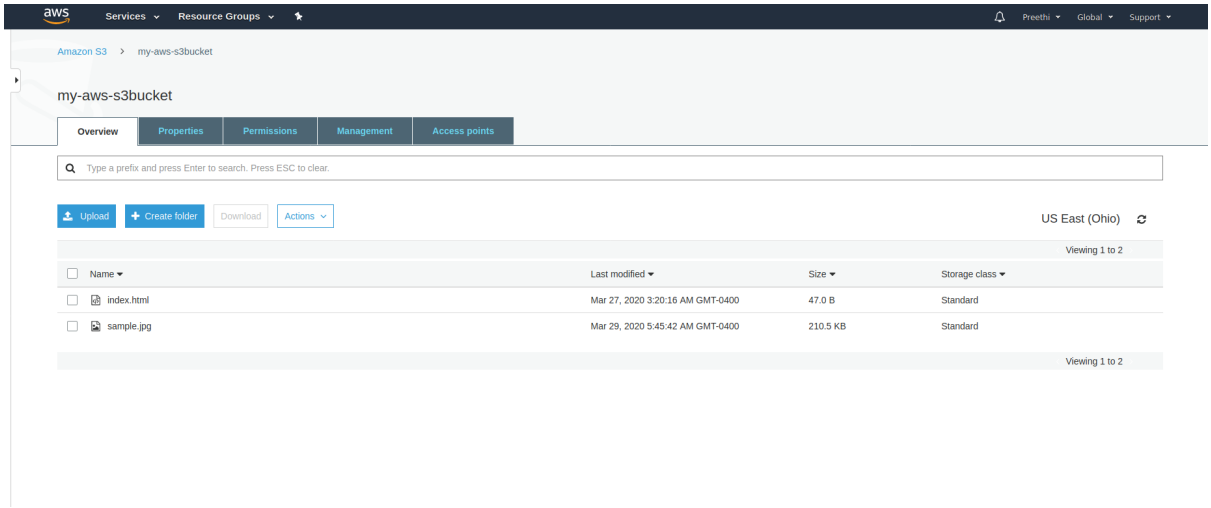
LINK UPLOADED

```
[ec2-user@ip-172-31-28-214 face]$ sudo vim index.php
[ec2-user@ip-172-31-28-214 face]$ sudo php index.php
Image upload done... Here is the URL: https://my-aws-s3bucket.s3.us-east-2.amazonaws.com/sample.jpg[ec2-user@ip-172-31-28-214 face]$
```

UPDATED IN S3 ALSO



OUTPUT

Image upload done... Here is the URL: https://my-aws-s3bucket.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9 faces

TO SET THE WEBHOOK

https://api.telegram.org/940998548:AAHm1Ww6cHH4Z2ghuofpay9S1s7qDAruEAs/setWebhook?url=http://3.14.152.93/face/index.php