Build a Face-Detection AWS App

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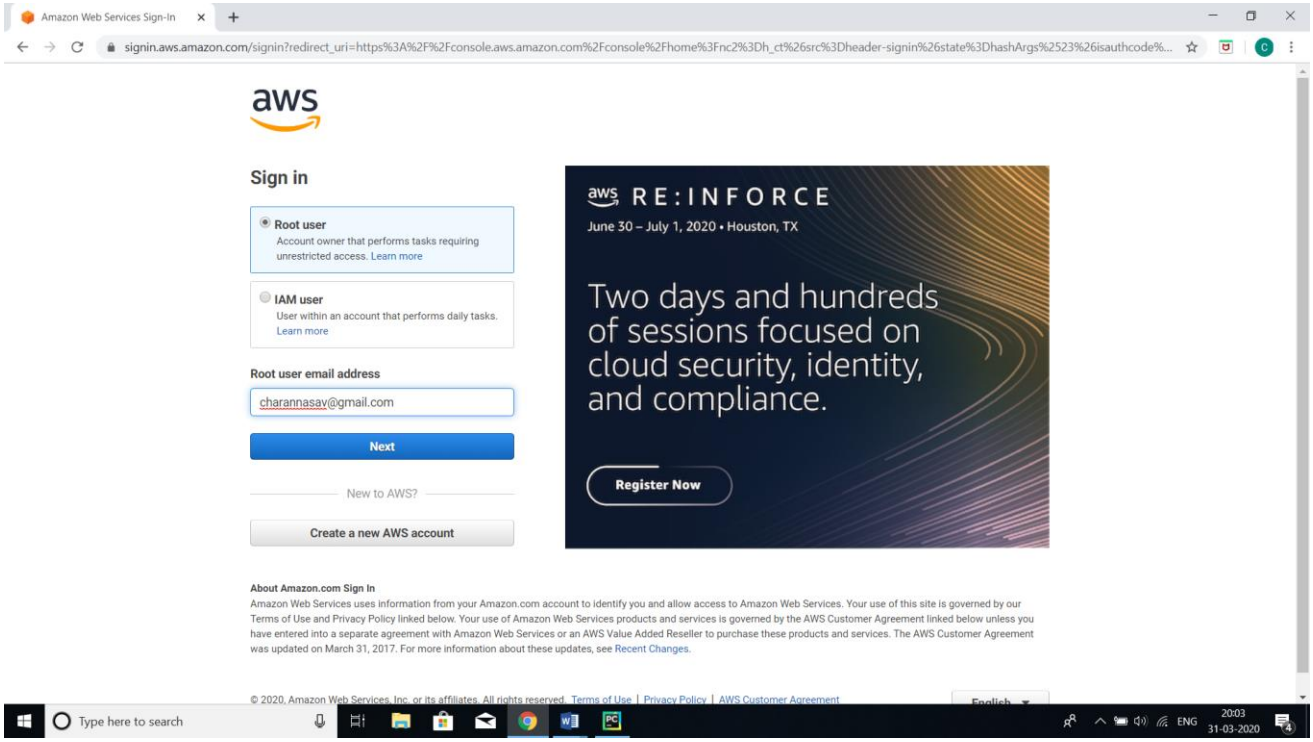
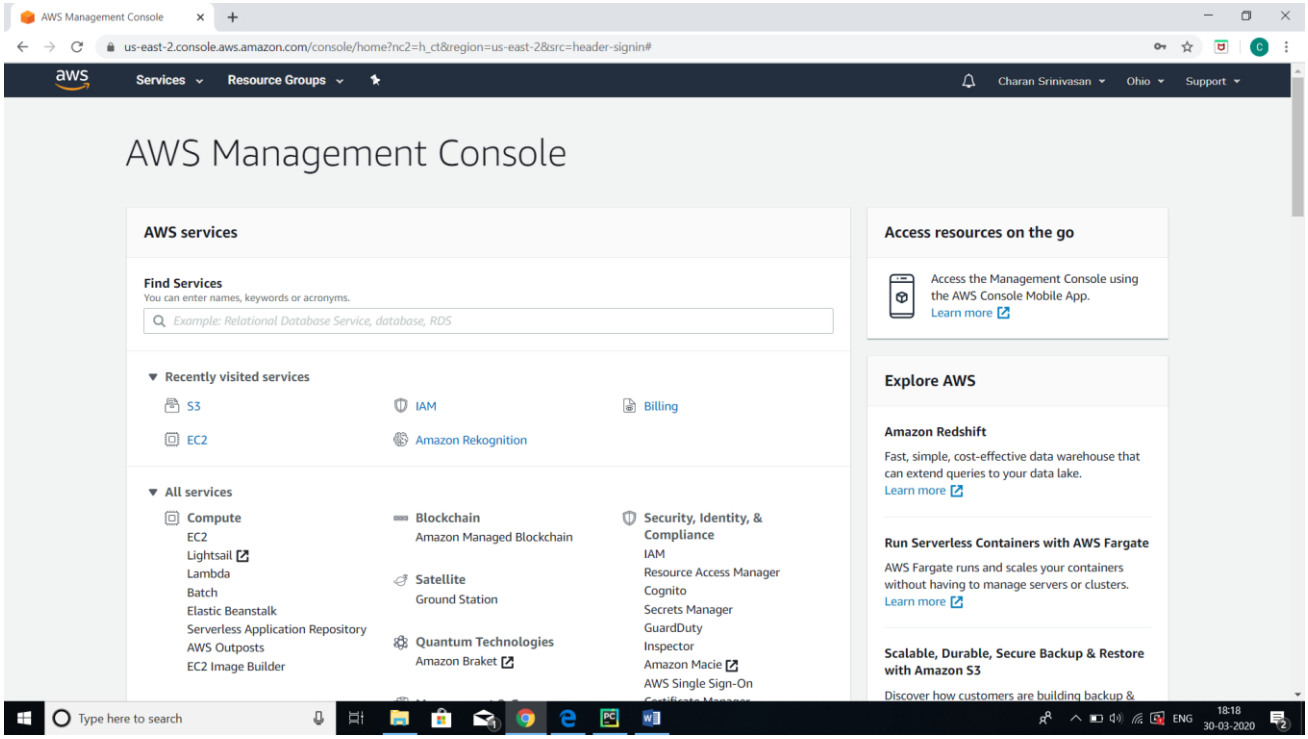
Screenshots:

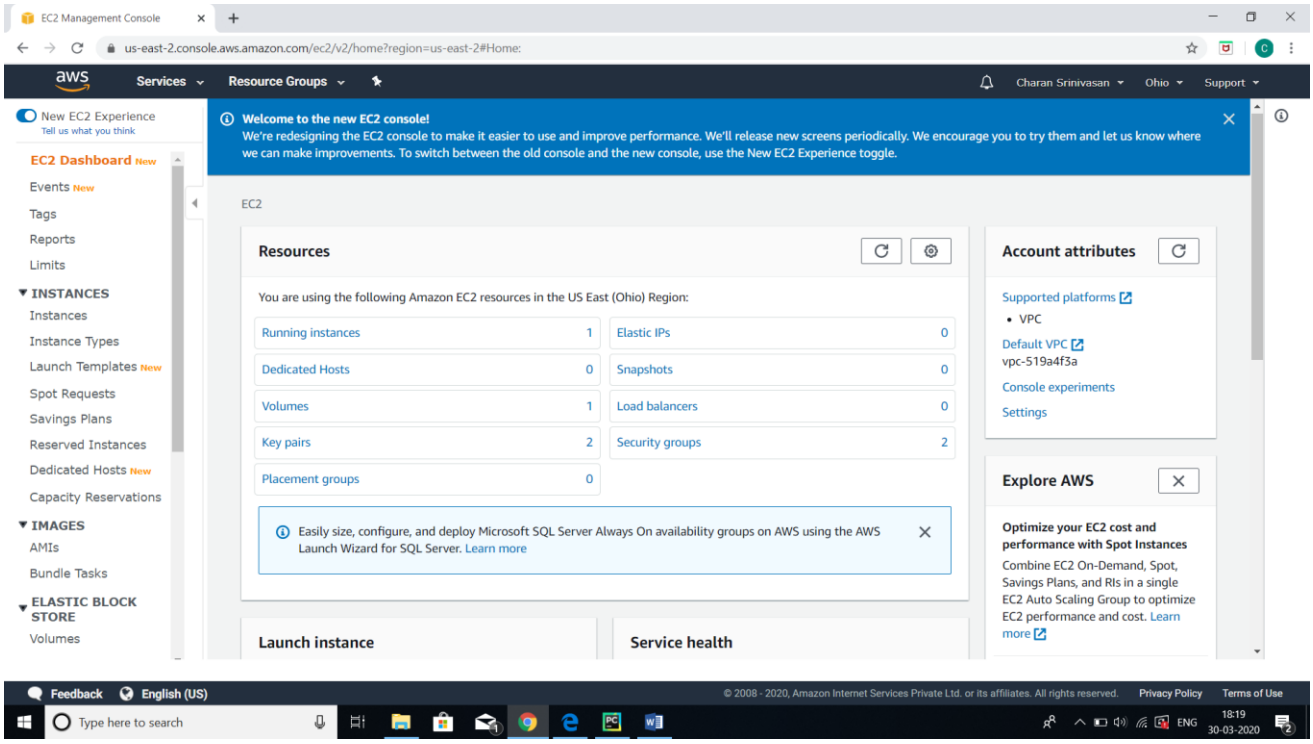
1)AWS:

a)AWS login screen with username

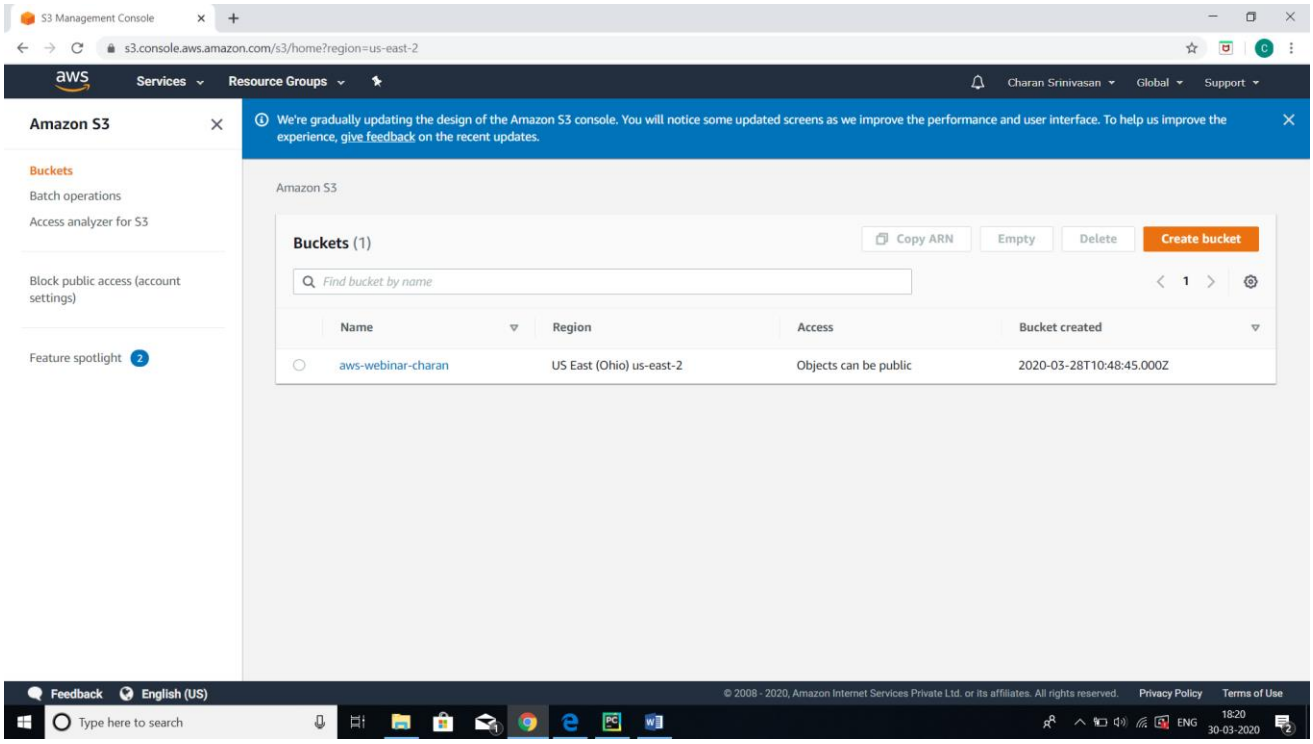




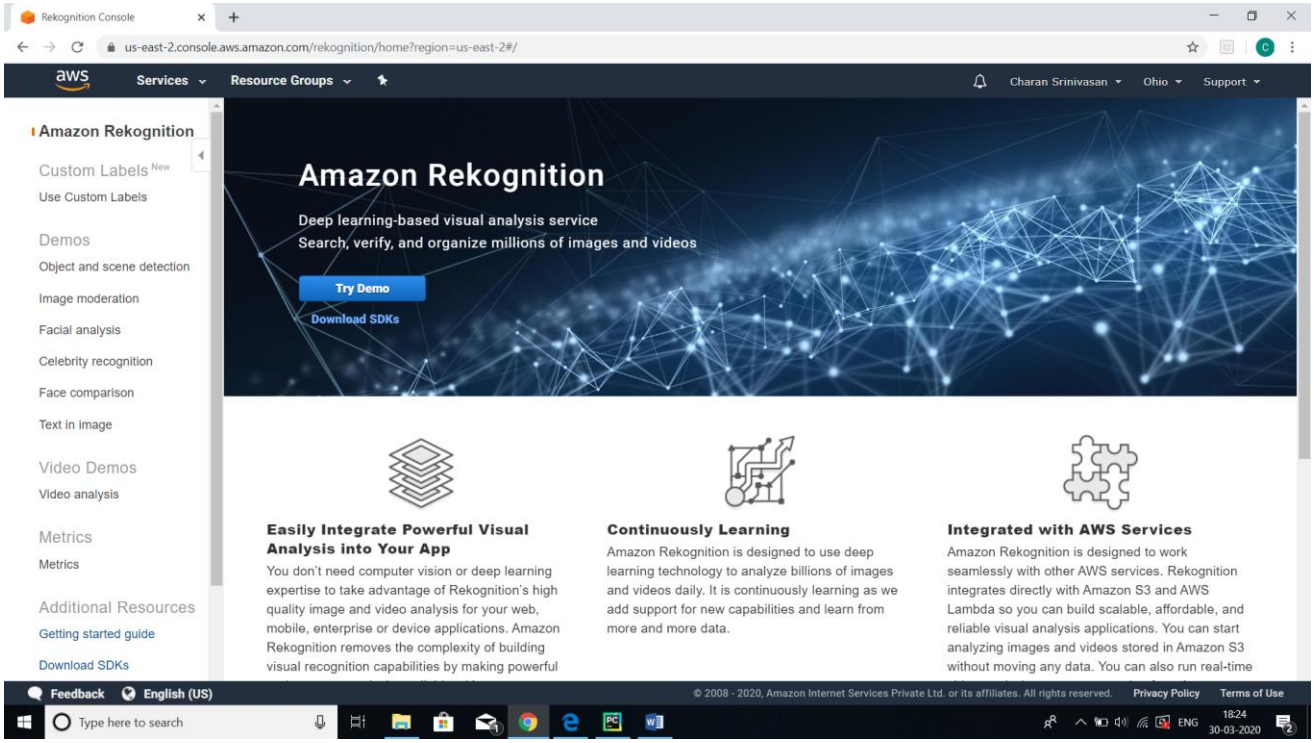
b)EC2 Dashboard



c)S3 Dashboard

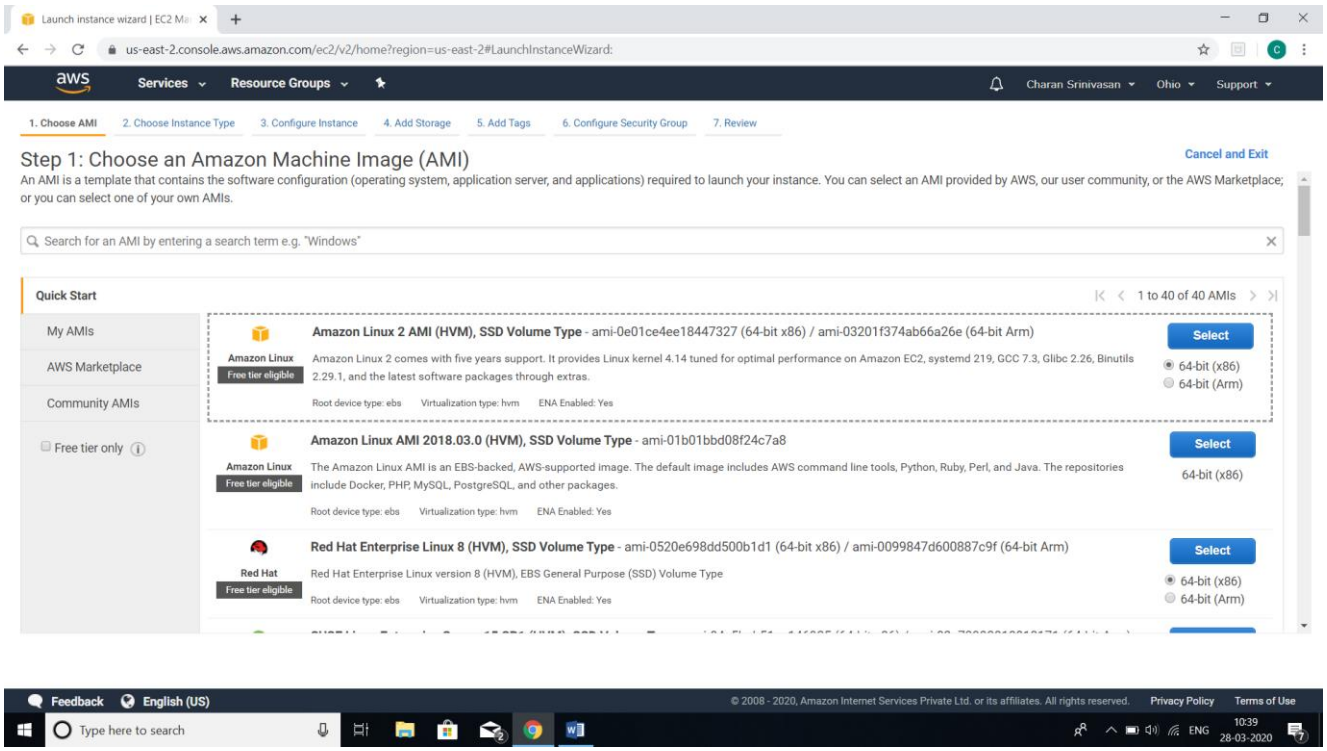


d) Rekognition Dashboard

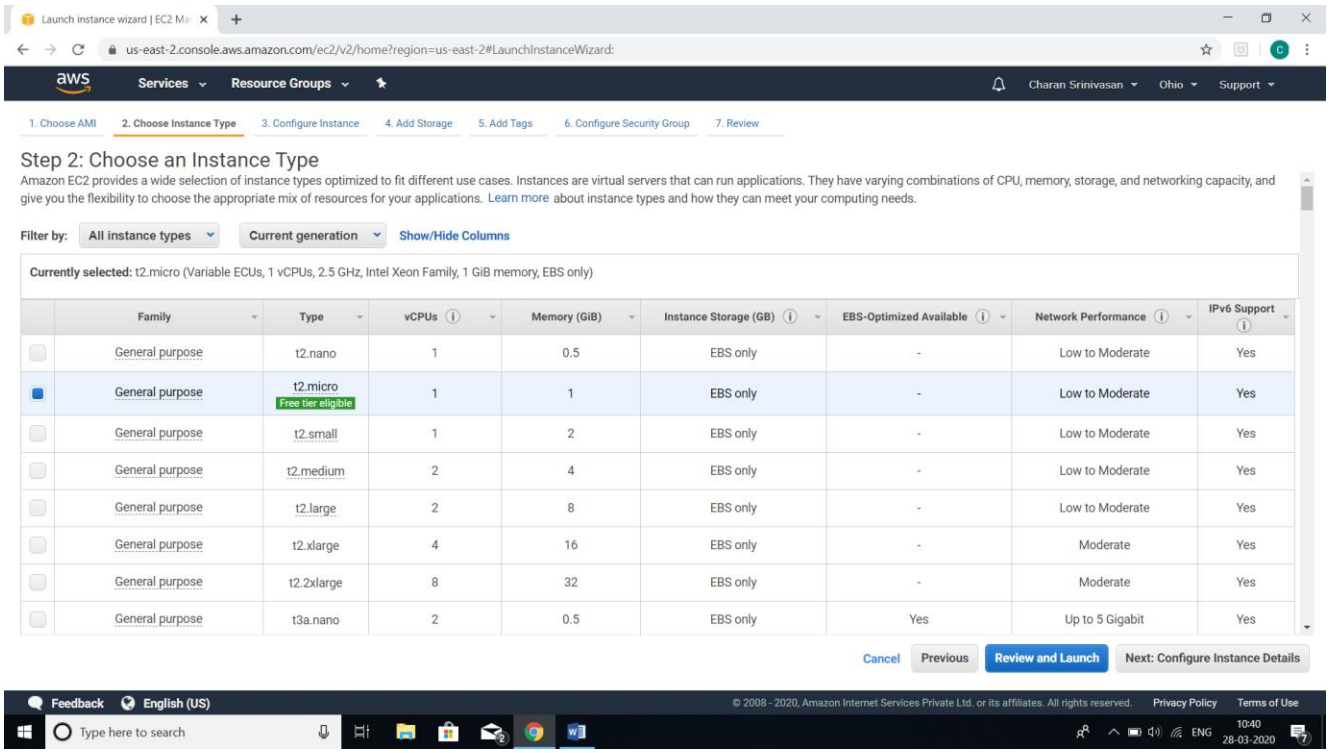


2)EC2:

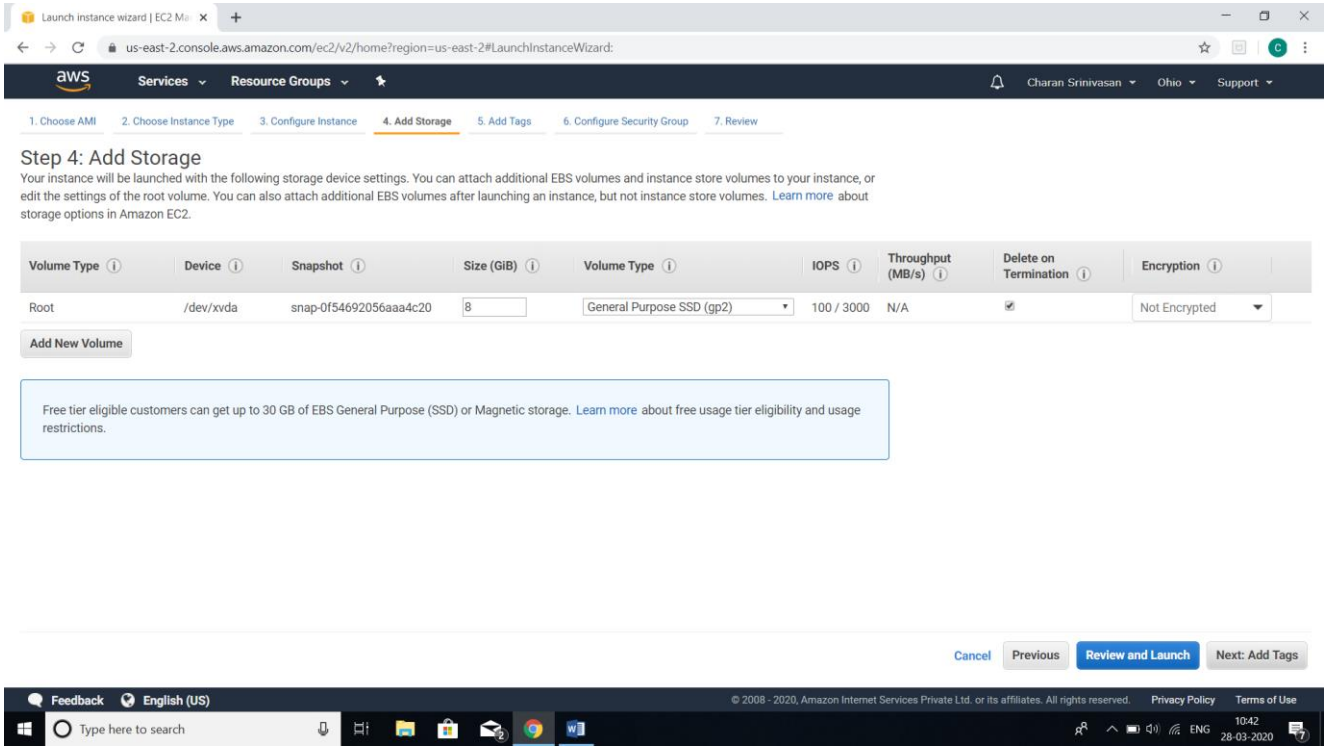
a)Choosing an AMI



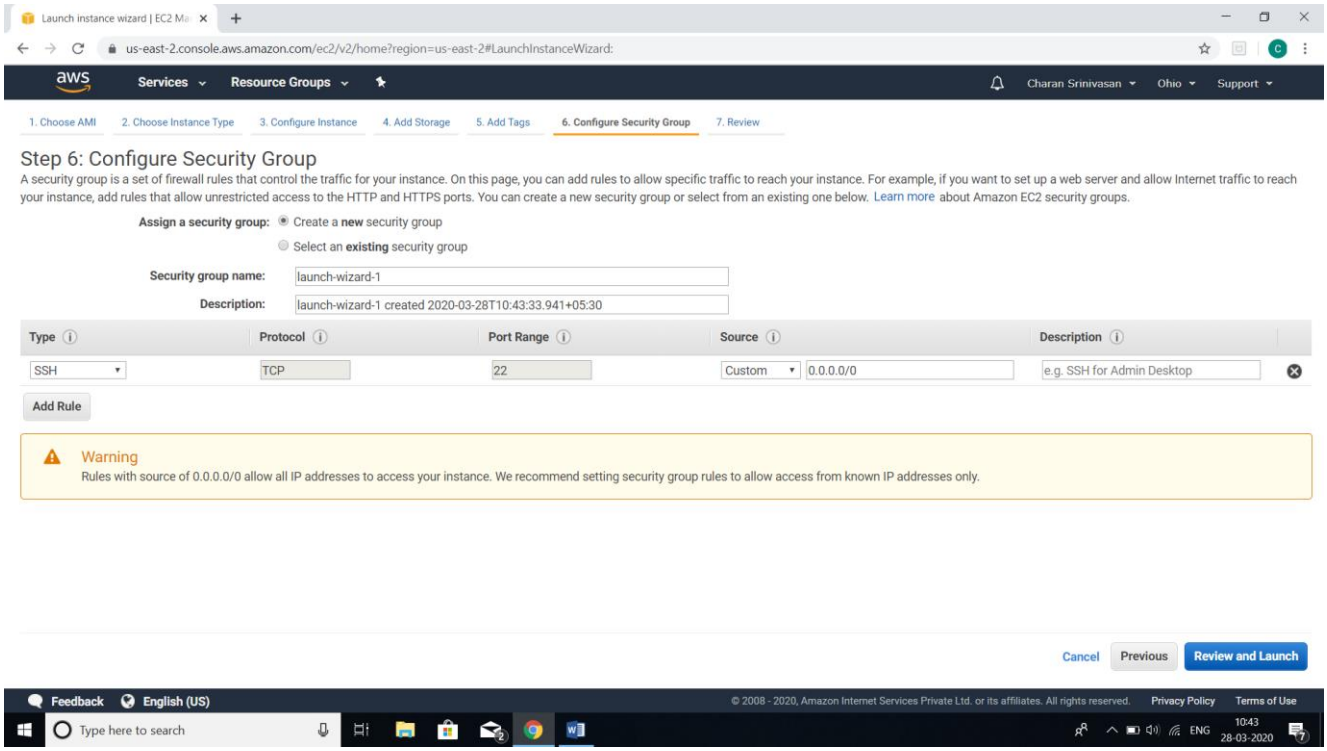
b) Choosing Instance type



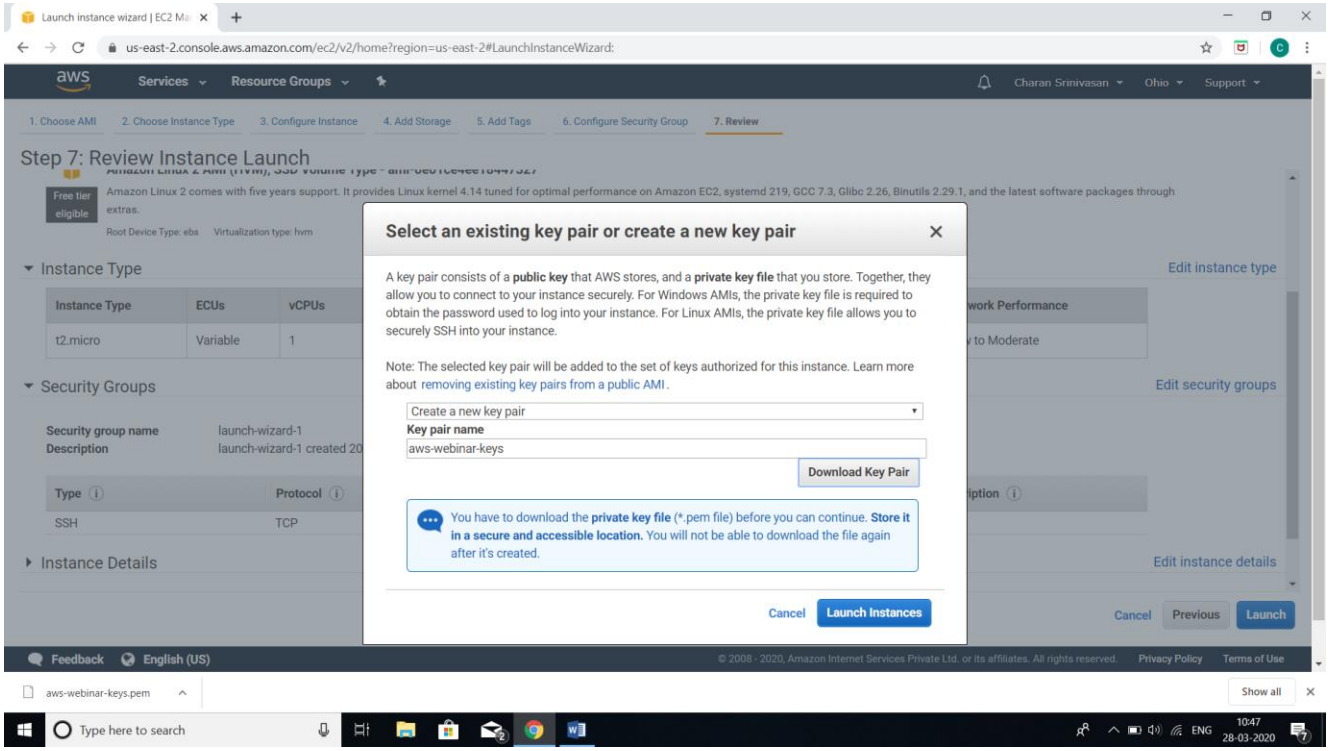
c)Adding storage



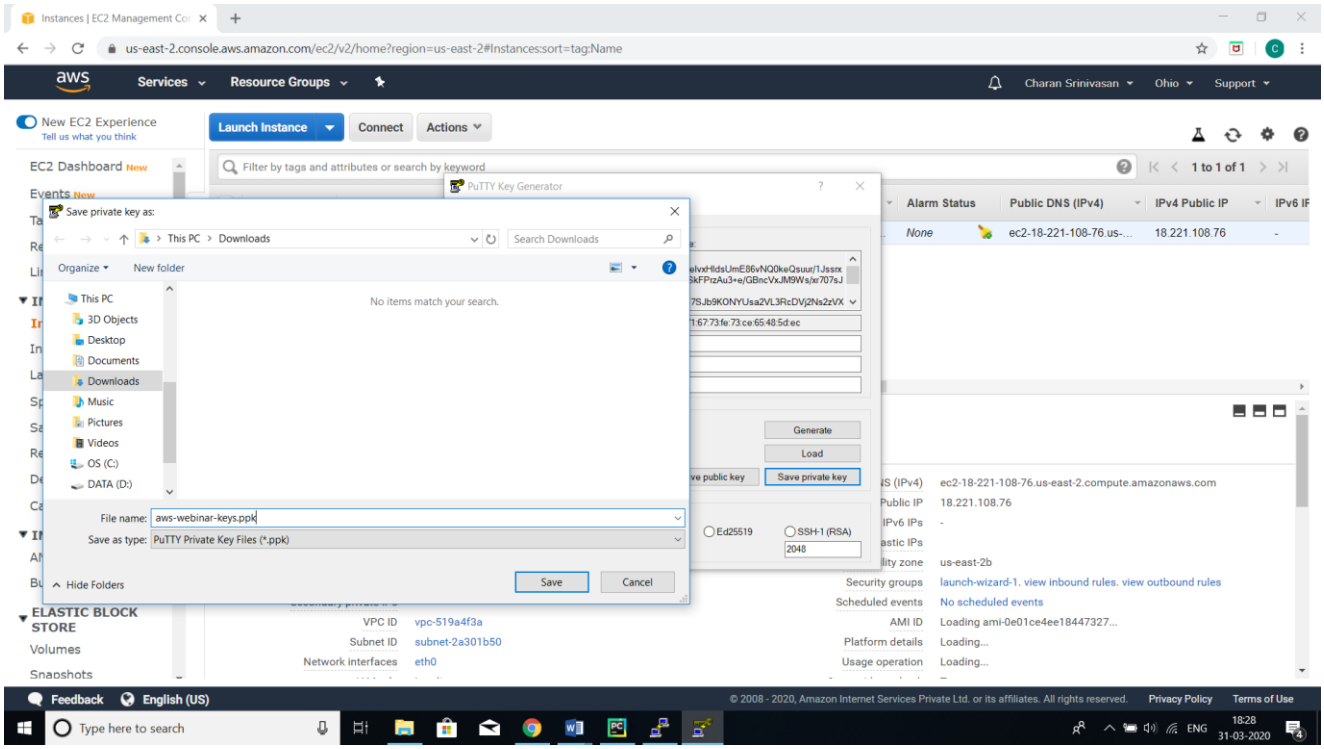
d)Configuring security group

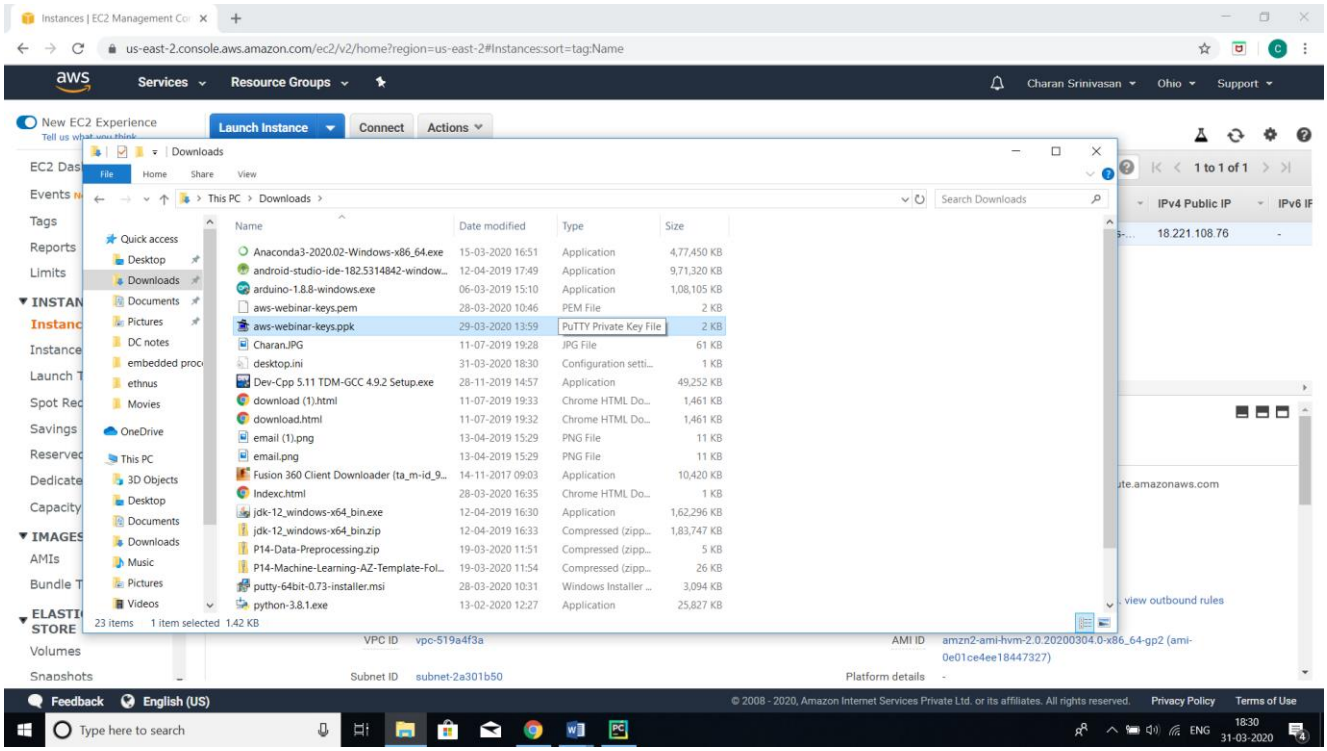


e)Key pair download

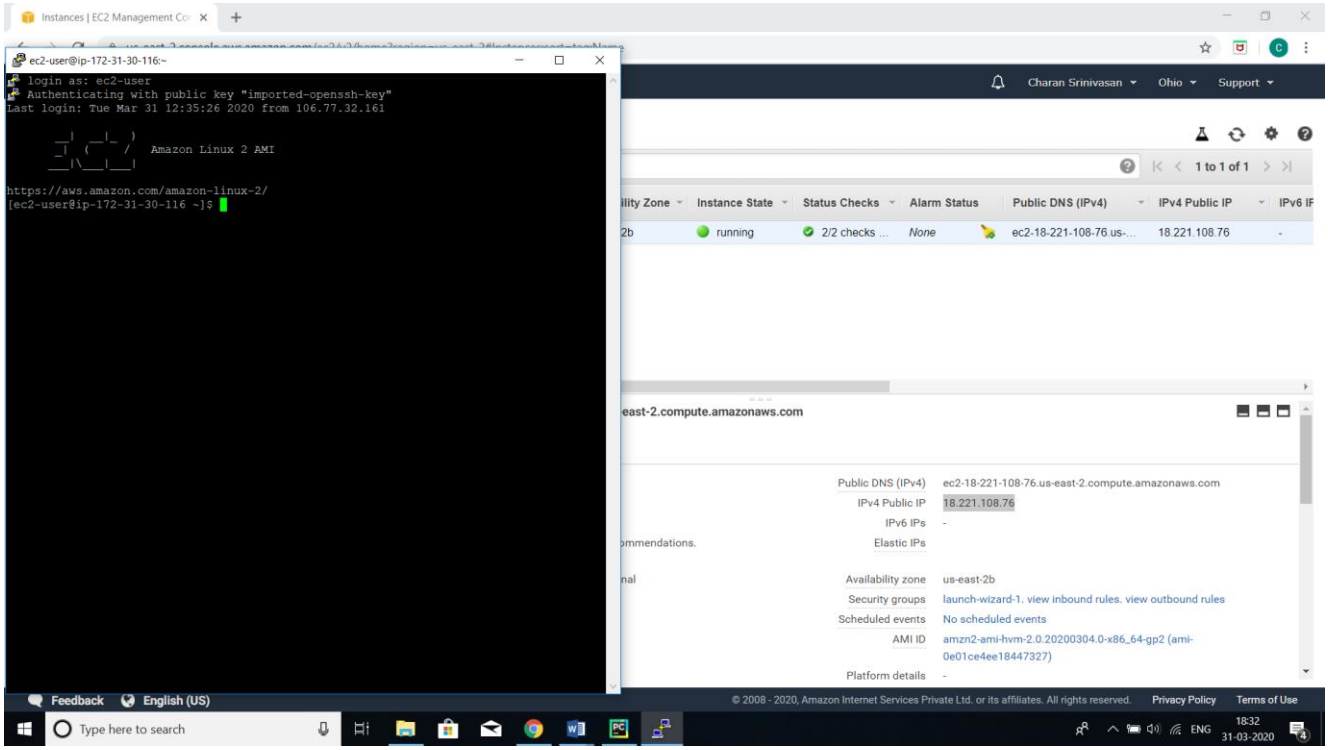


f)PuTTYgen conversion from .pem to .ppk



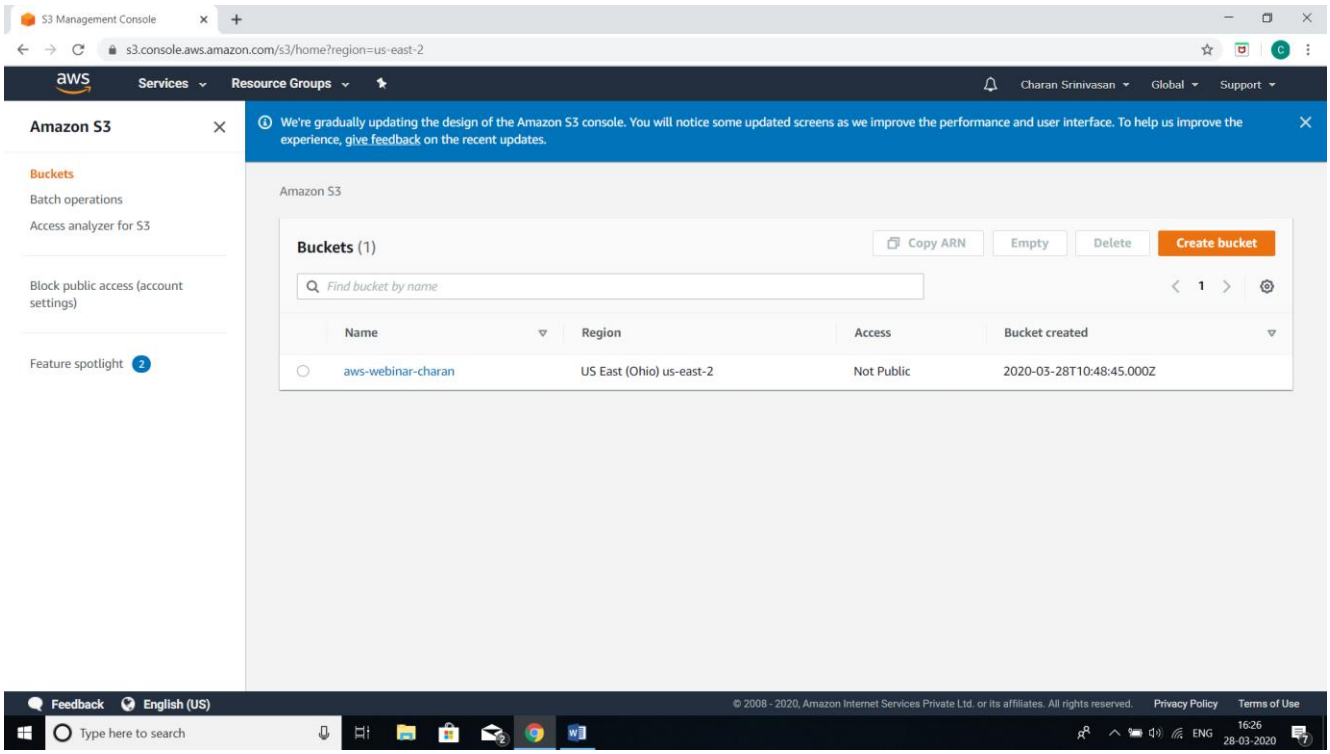


g)Logged in EC2 black screen

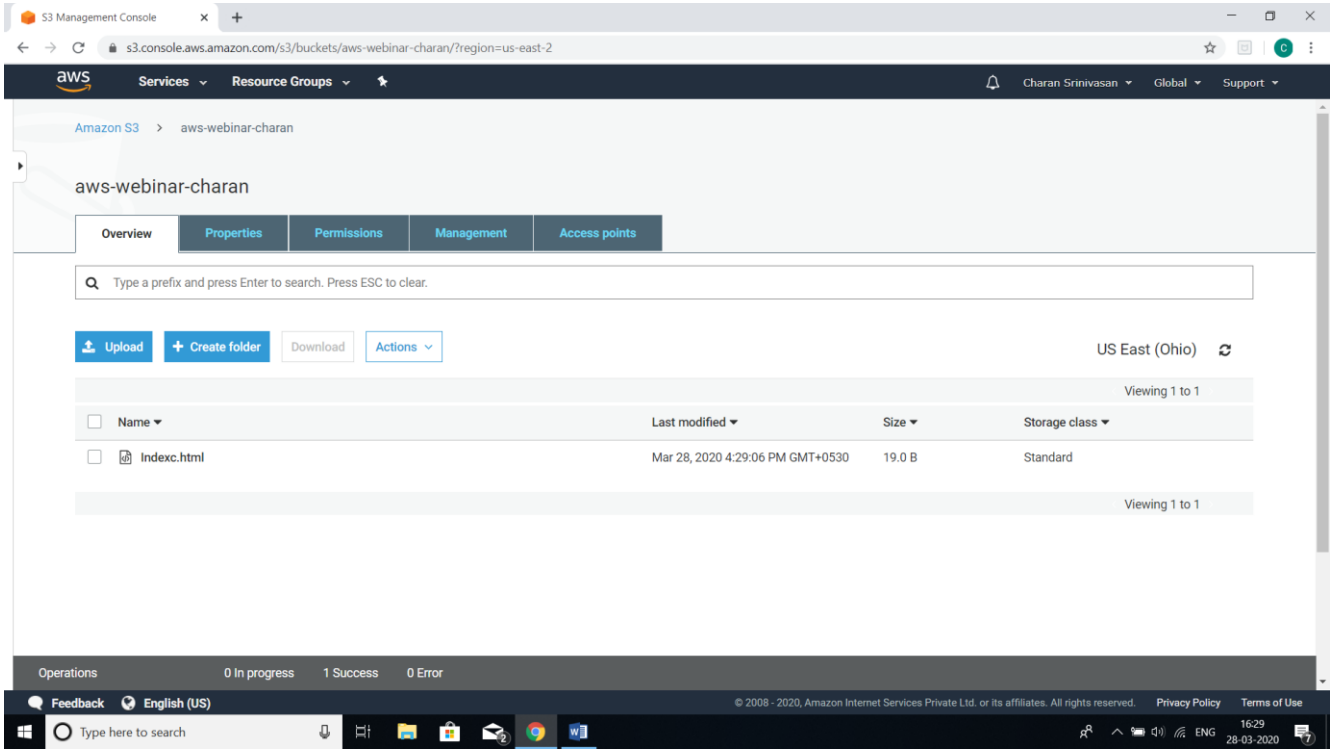


3)S3:

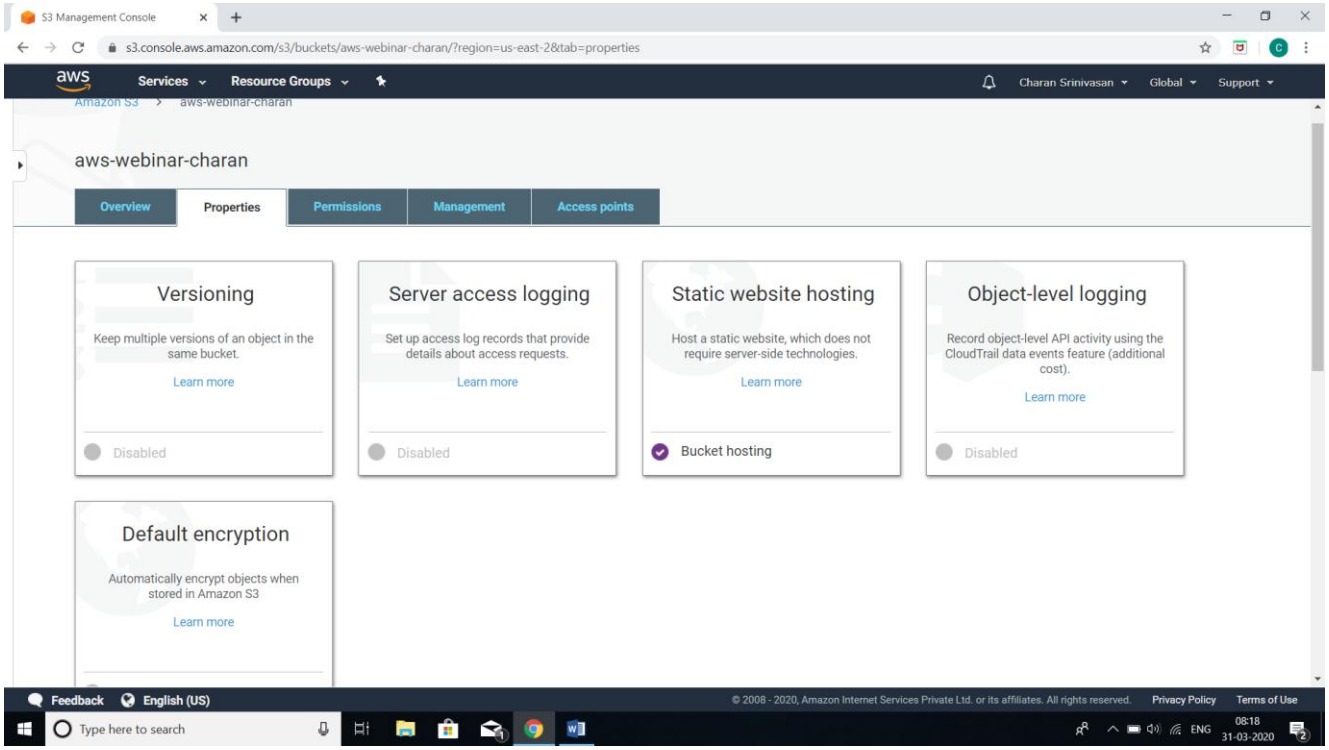
a)Creating bucket



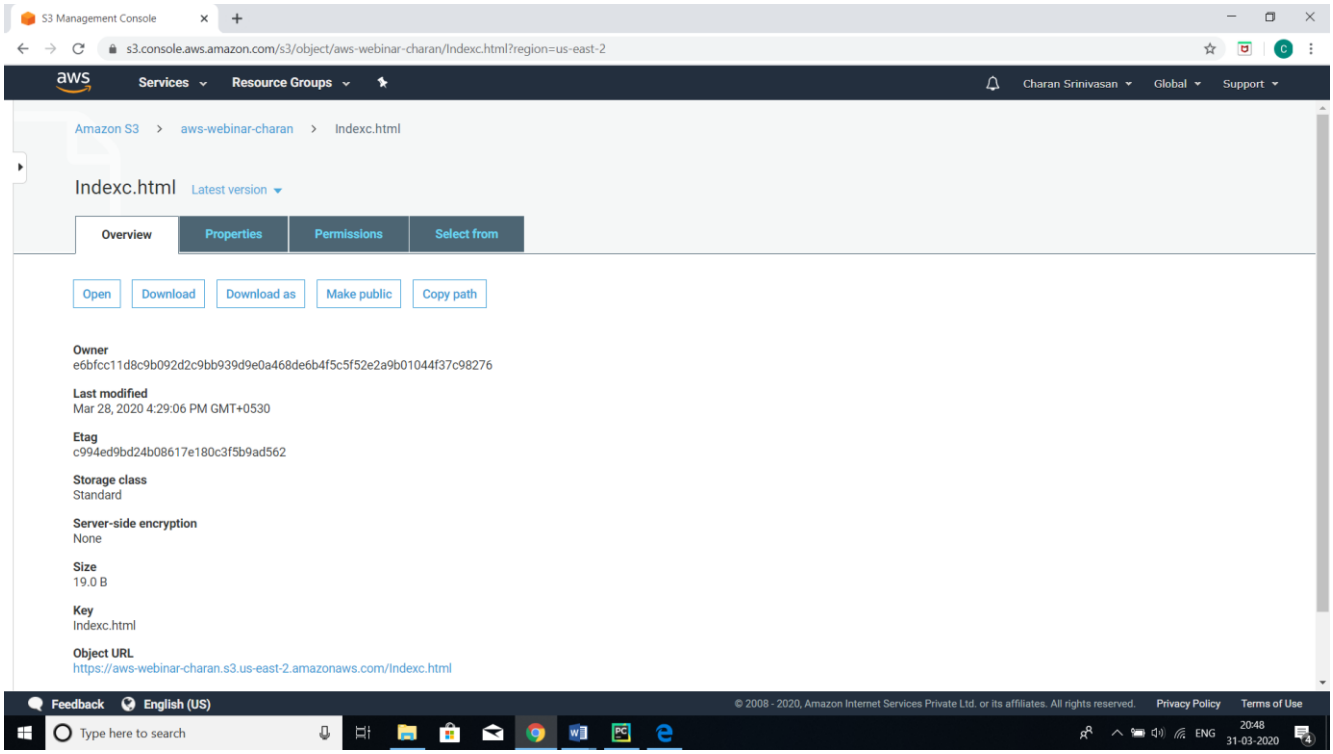
b)Uploading an object



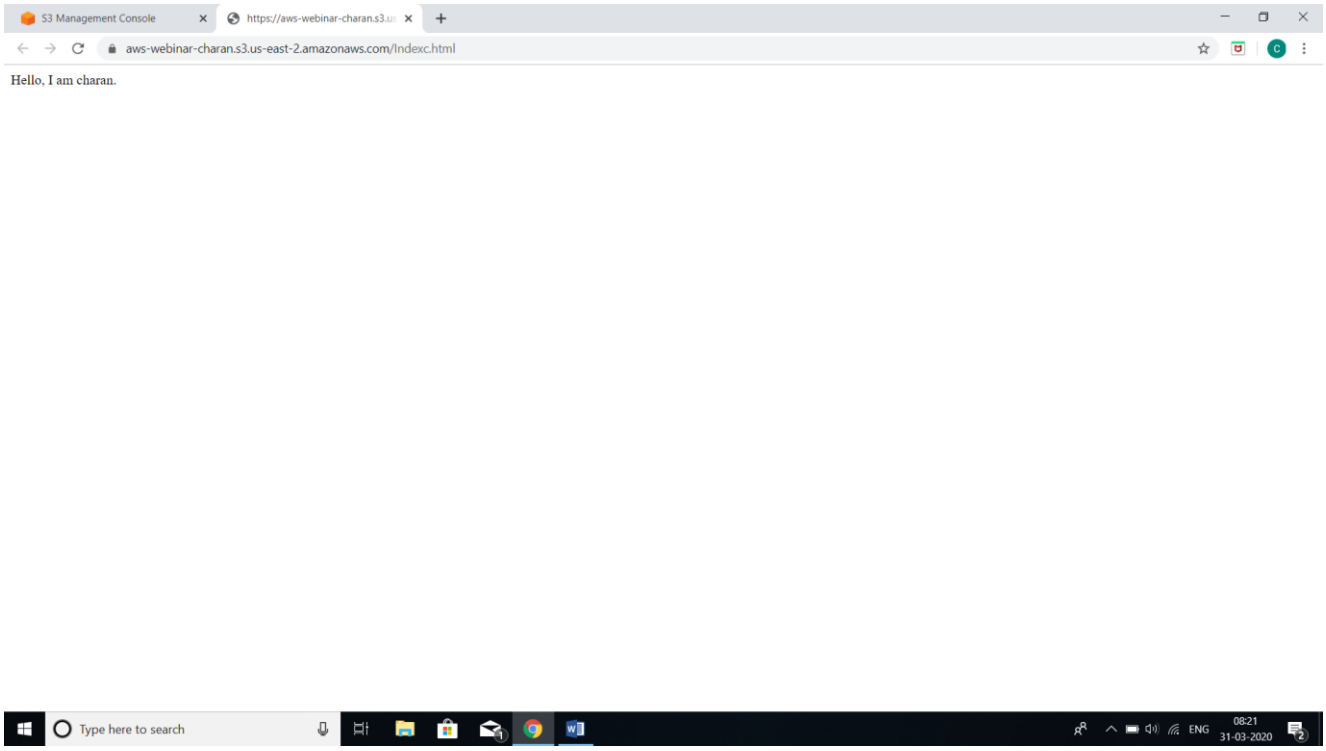
c)Enabling static website



d)Making object public

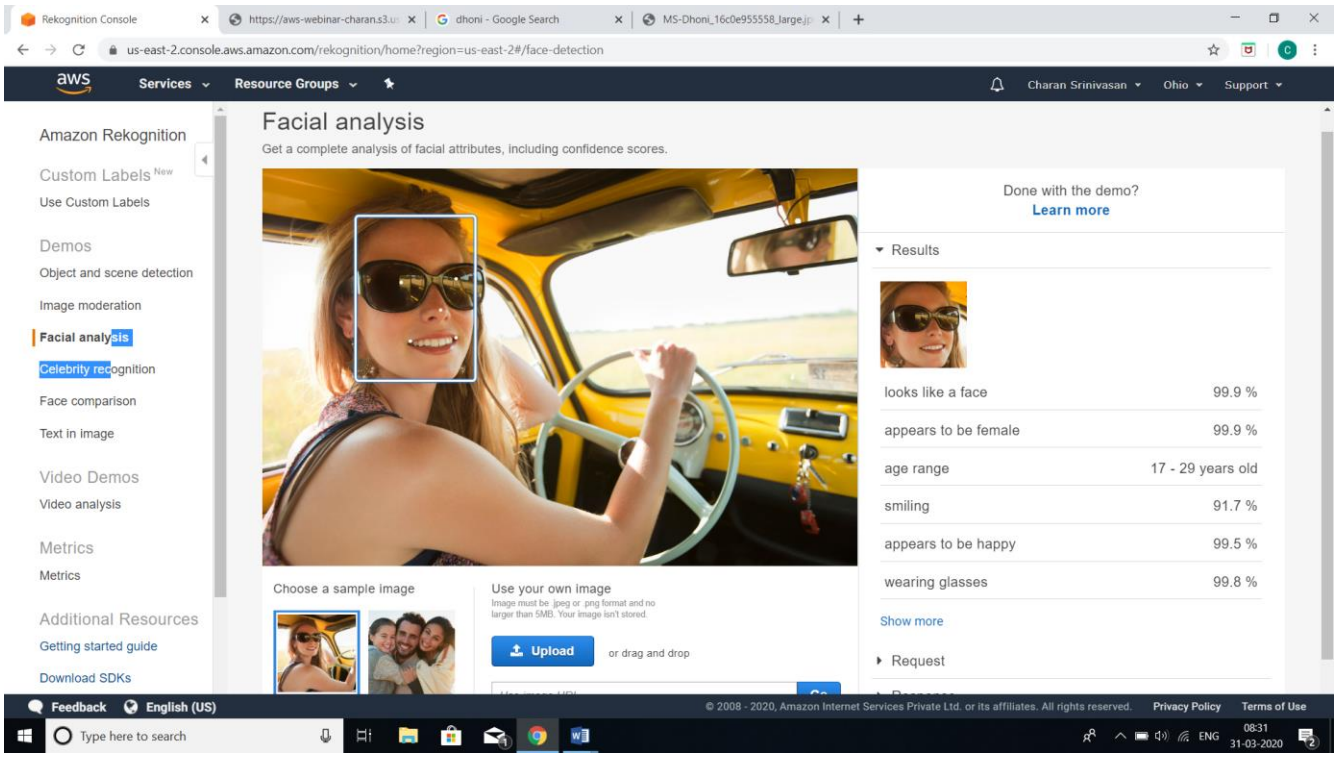


e)Checking S3 link on browser

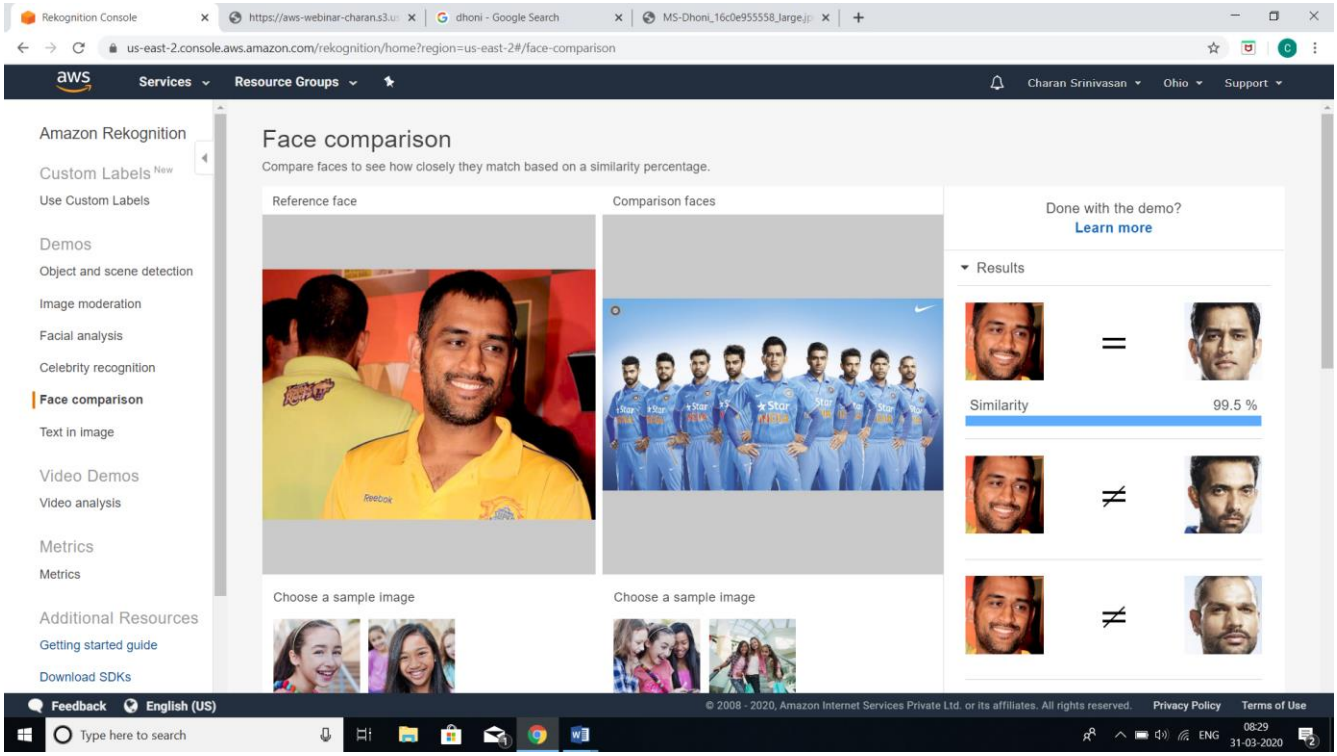


4)Rekognition:

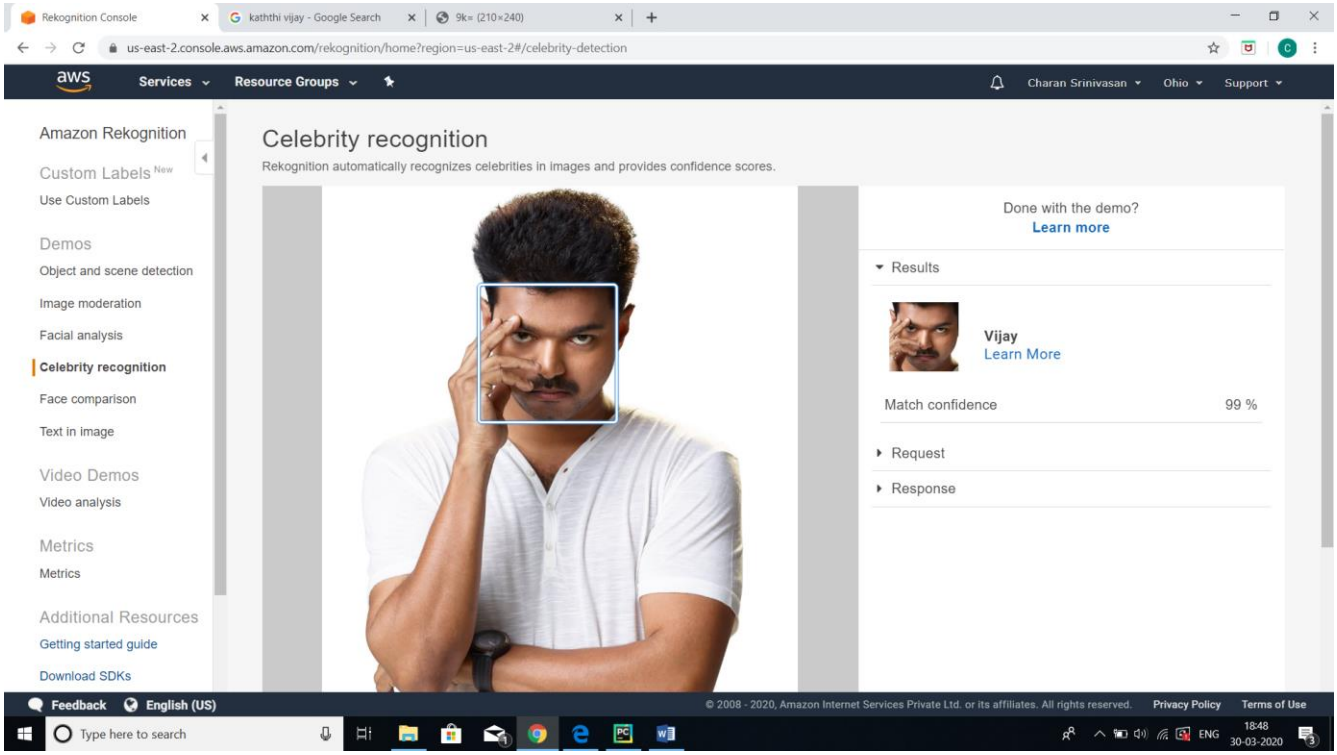
1)Facial analysis



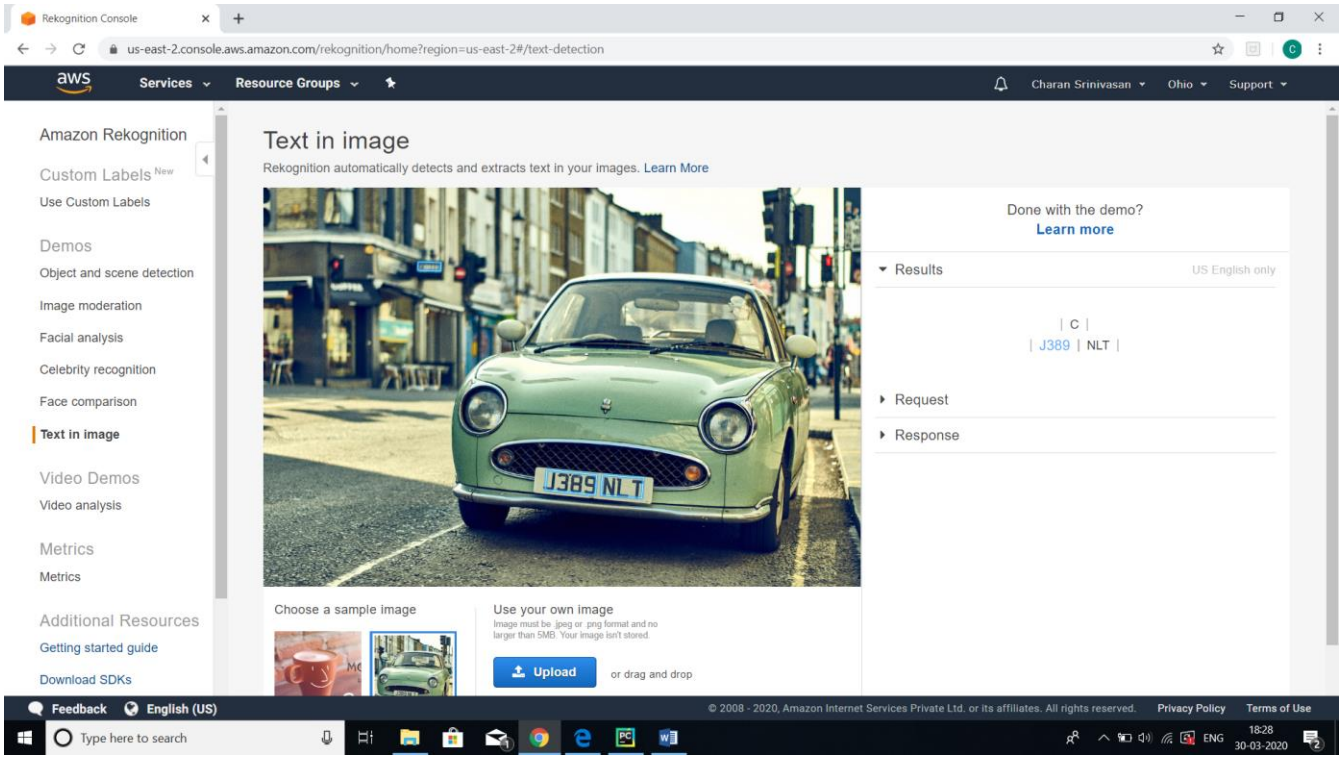
b)Face comparison



c)Celebrity recognition

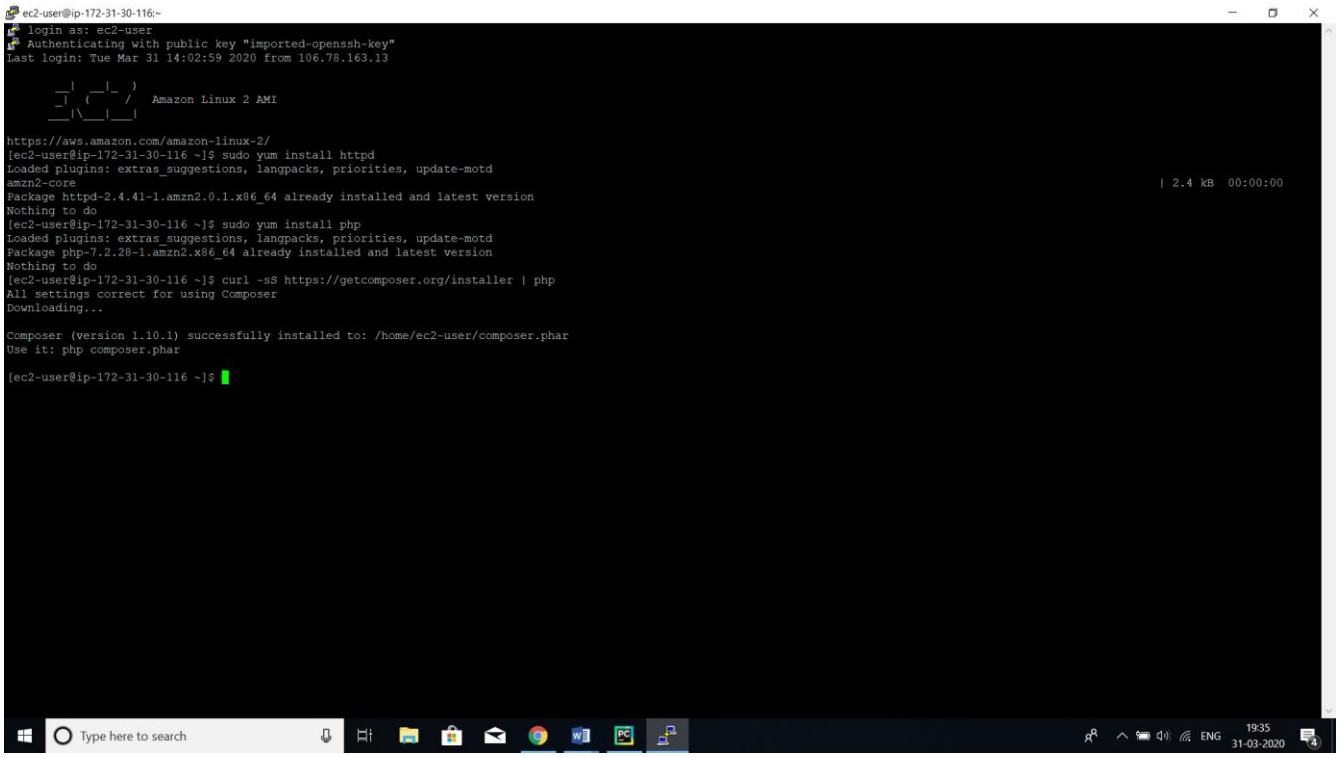


d)Text in image

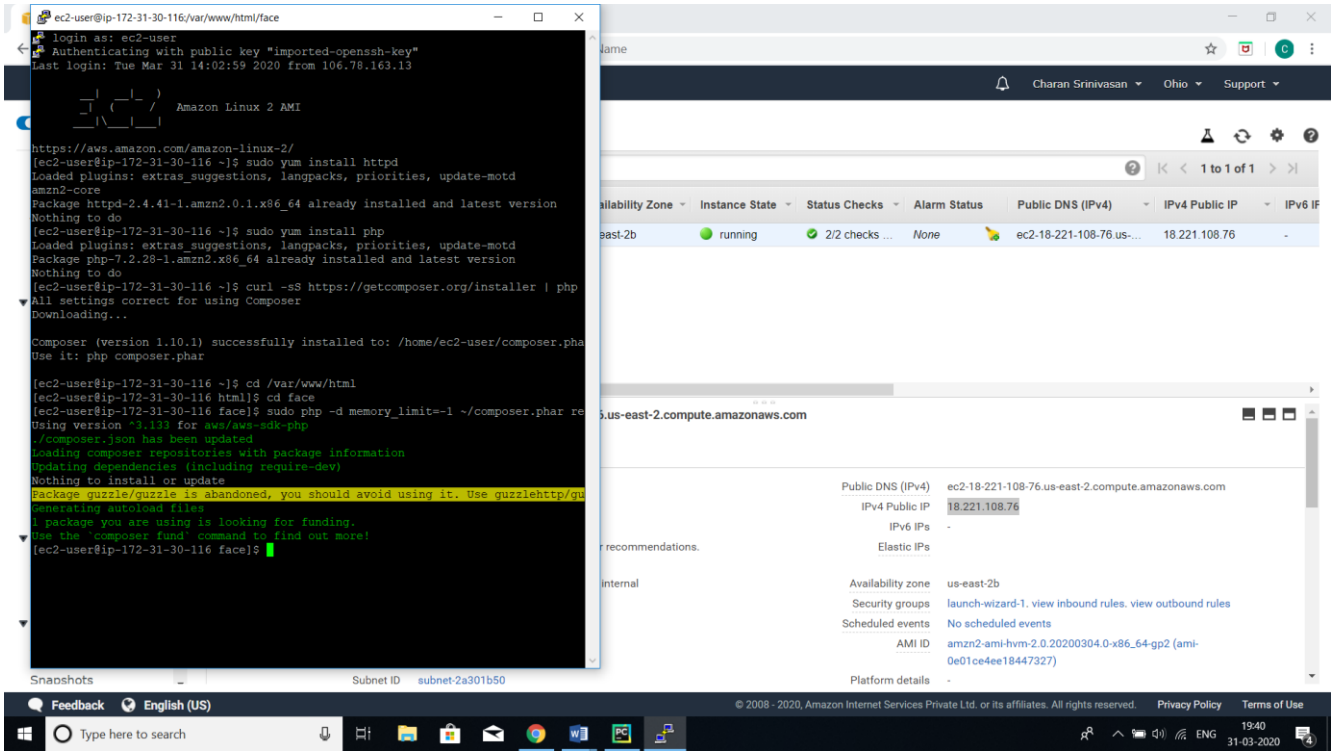


5)EC2 &S3:

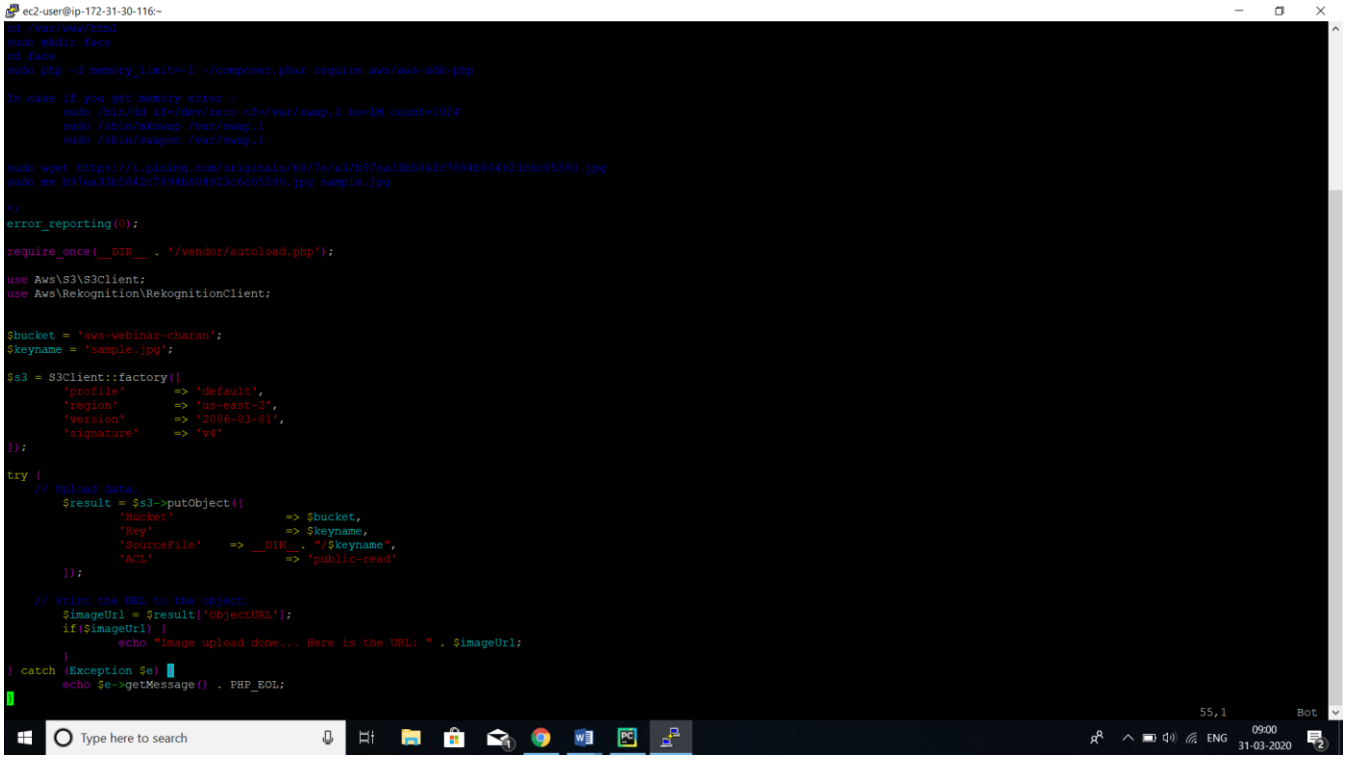
a)Installing php



b)Installing aws-sdk

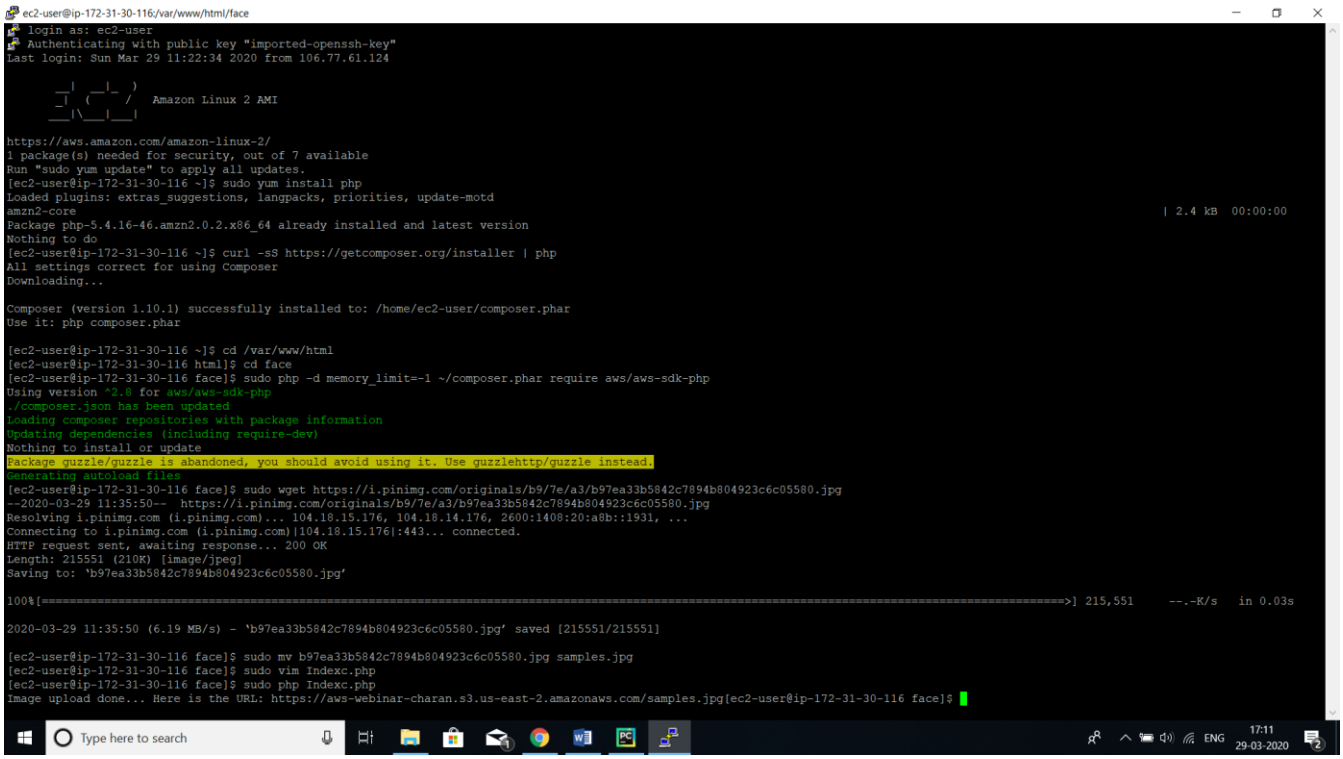


c)Indexc.php file code



```
ec2-user@ip-172-31-30-116:~
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.pinimg.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 = 'aws-webinar-charan';
$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) {
                echo "Image upload done... Here is the URL: " . $imageUrl;
        }
} catch (Exception $e) {
        echo $e->getMessage() . PHP_EOL;
                                                                    55,1          Bot
```

d)Upload success screenshot



```
ec2-user@ip-172-31-30-116:/var/www/html/face
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Mar 29 11:22:34 2020 from 106.77.61.124

       __|  __|_  )
       _|  (     /   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-172-31-30-116 ~]$ 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-172-31-30-116 ~]$ 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

[ec2-user@ip-172-31-30-116 ~]$ cd /var/www/html
[ec2-user@ip-172-31-30-116 html]$ cd face
[ec2-user@ip-172-31-30-116 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
[ec2-user@ip-172-31-30-116 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-03-29 11:35:50--  https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 104.18.15.176, 104.18.14.176, 2600:1408:20:a8b::1931, ...
Connecting to i.pinimg.com (i.pinimg.com)|104.18.15.176|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

100%[=============================================================================================================================================>] 215,551     --.-K/s   in 0.03s

2020-03-29 11:35:50 (6.19 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [215551/215551]

[ec2-user@ip-172-31-30-116 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg samples.jpg
[ec2-user@ip-172-31-30-116 face]$ sudo vim Indexc.php
[ec2-user@ip-172-31-30-116 face]$ sudo php Indexc.php
Image upload done... Here is the URL: https://aws-webinar-charan.s3.us-east-2.amazonaws.com/samples.jpg[ec2-user@ip-172-31-30-116 face]$
```

6)EC2&Rekognition:

Face detect success screenshot