FACE DETECTION APP ON AWS

NAME: B.Ramakrishna **MOBILE:9398576582**

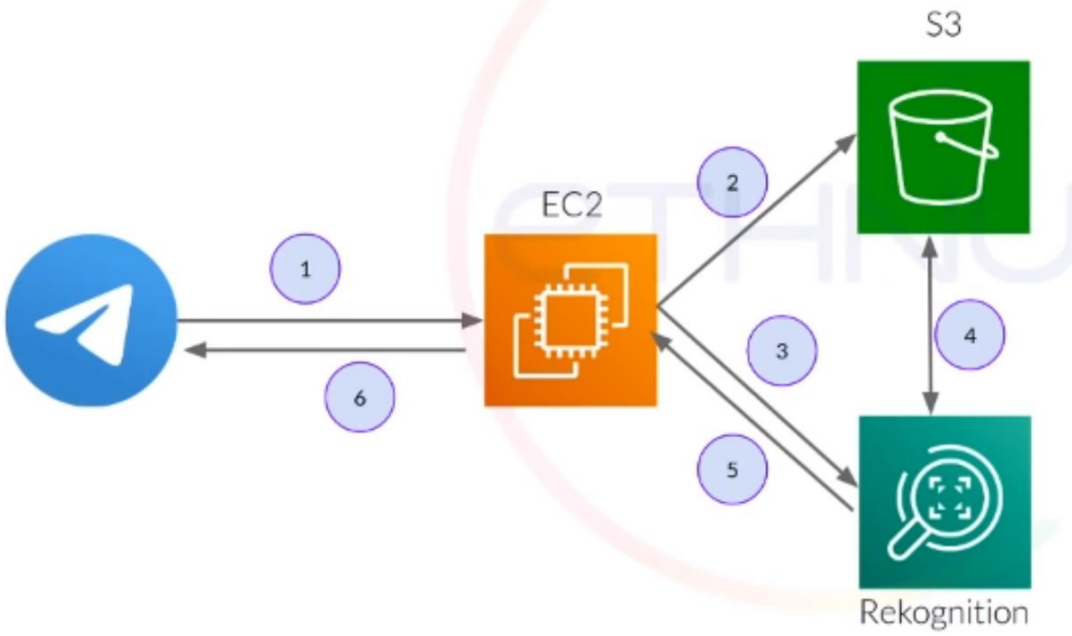
EMAIL: ramakrishna19992107@gmail.com

OBJECTIVE:

The main objective of creating this face detection application is to find the image and describe about the image using the AWS.

DESCRIPTION:

To find the image, we use four components I.e., Telegram Bot, EC2, S3 and Amazon Rekognition.This are the steps that are followed that are given below:

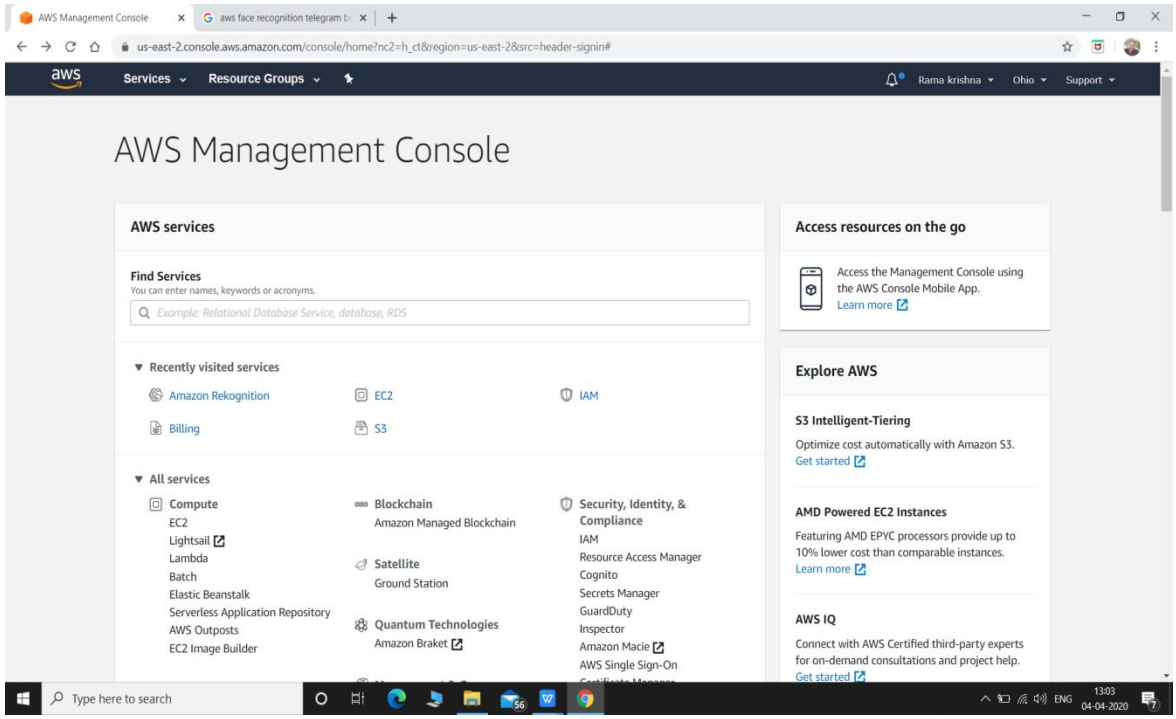


First image is uploaded in the Telegram Bot.Then the image is taken by EC2 it stores the image in the S3 (in buckets).Then EC2 send the image to Amazon Rekognition and It detect the image and gives the details or description of that image and will be send to EC2 and it is send to Telegram Bot.

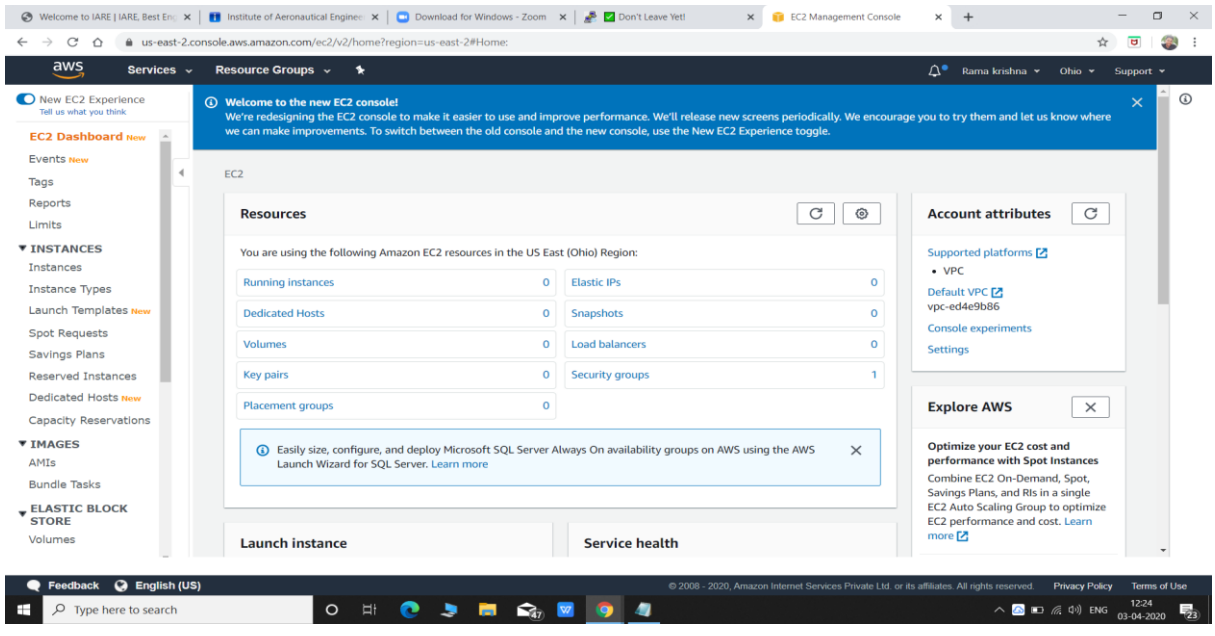
SCREENSHOTS:

- **AWS:**

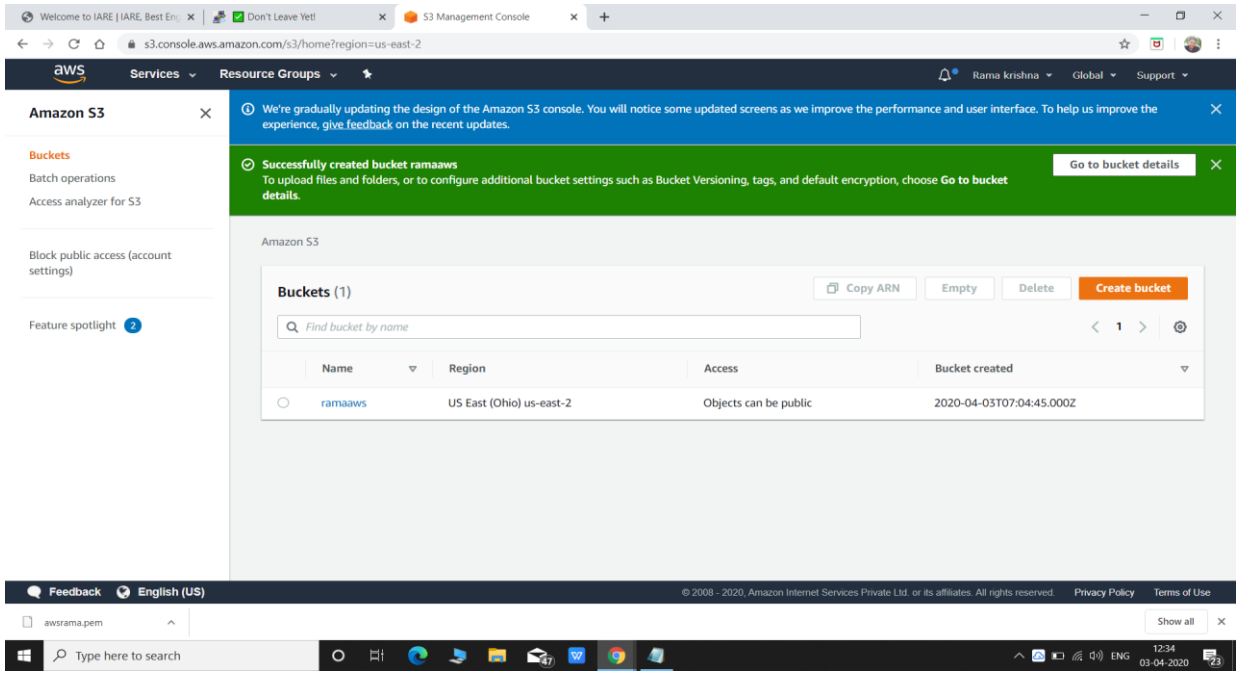
1. AWS Login screen with Username:



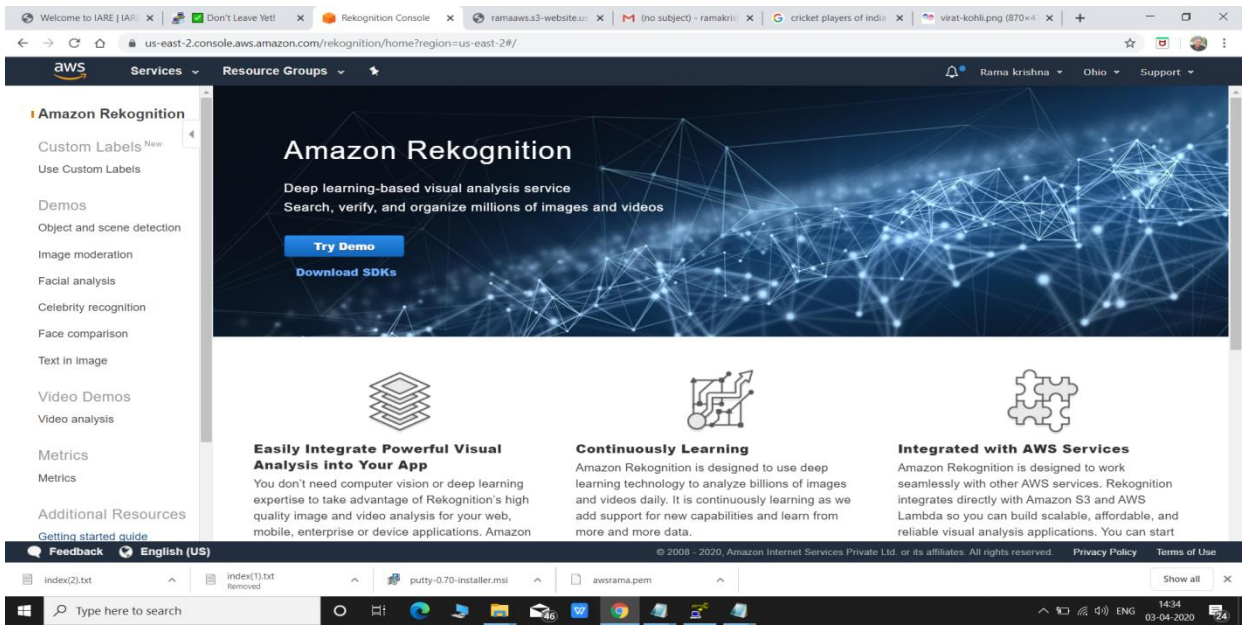
2. EC2 Dashboard:



3. S3 Dashboard:

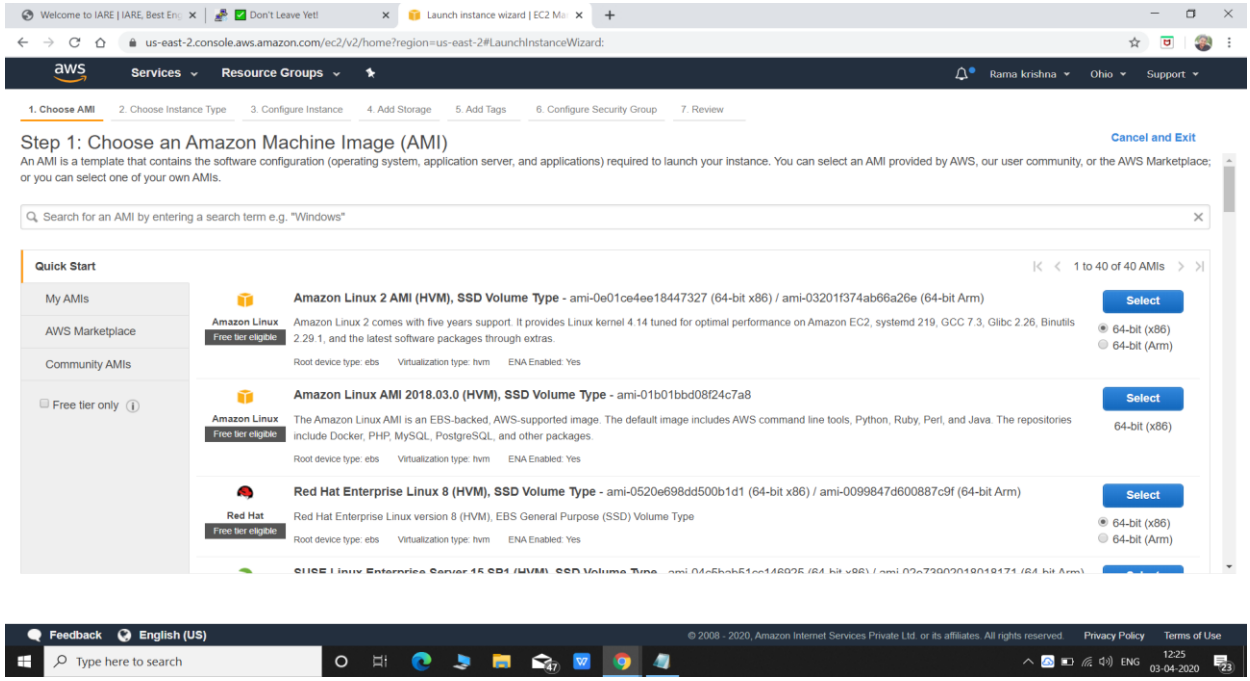


4. Rekognition Dashboard:

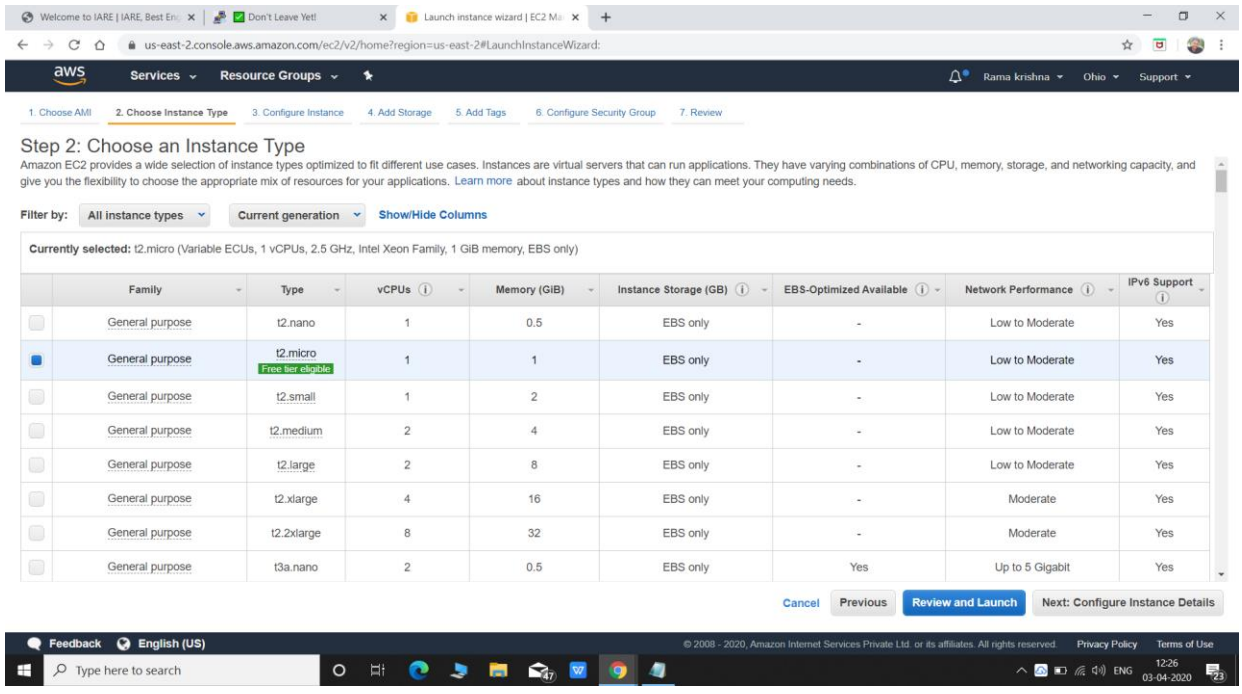


- **EC2:**

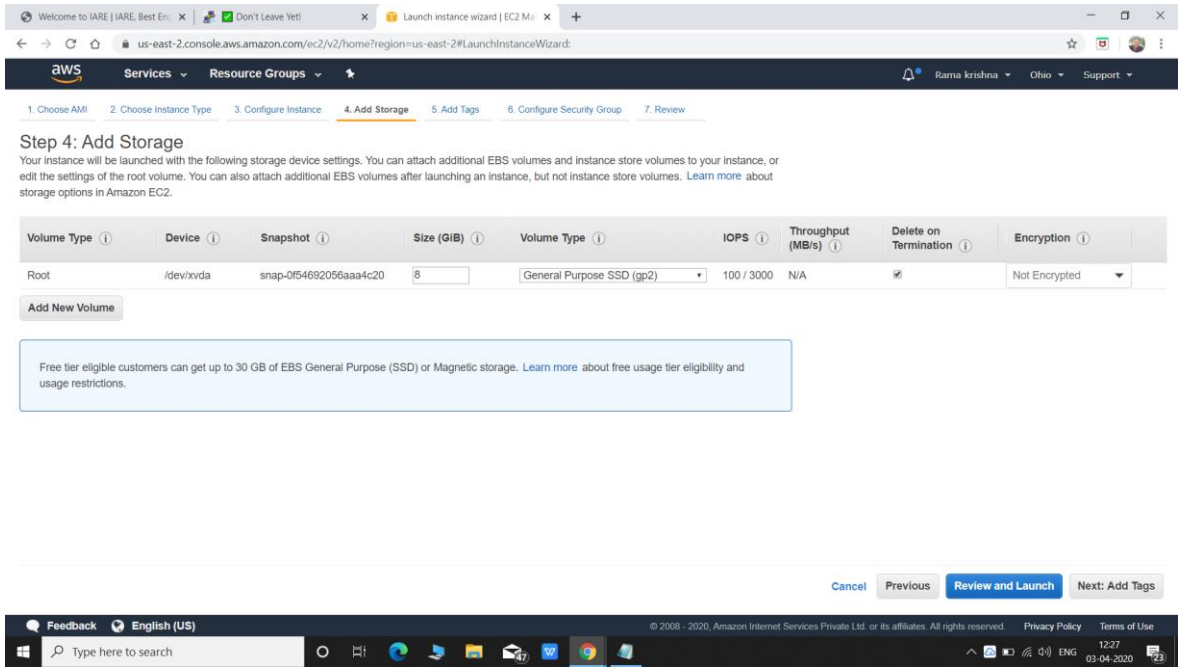
5. Choosing an AMI:



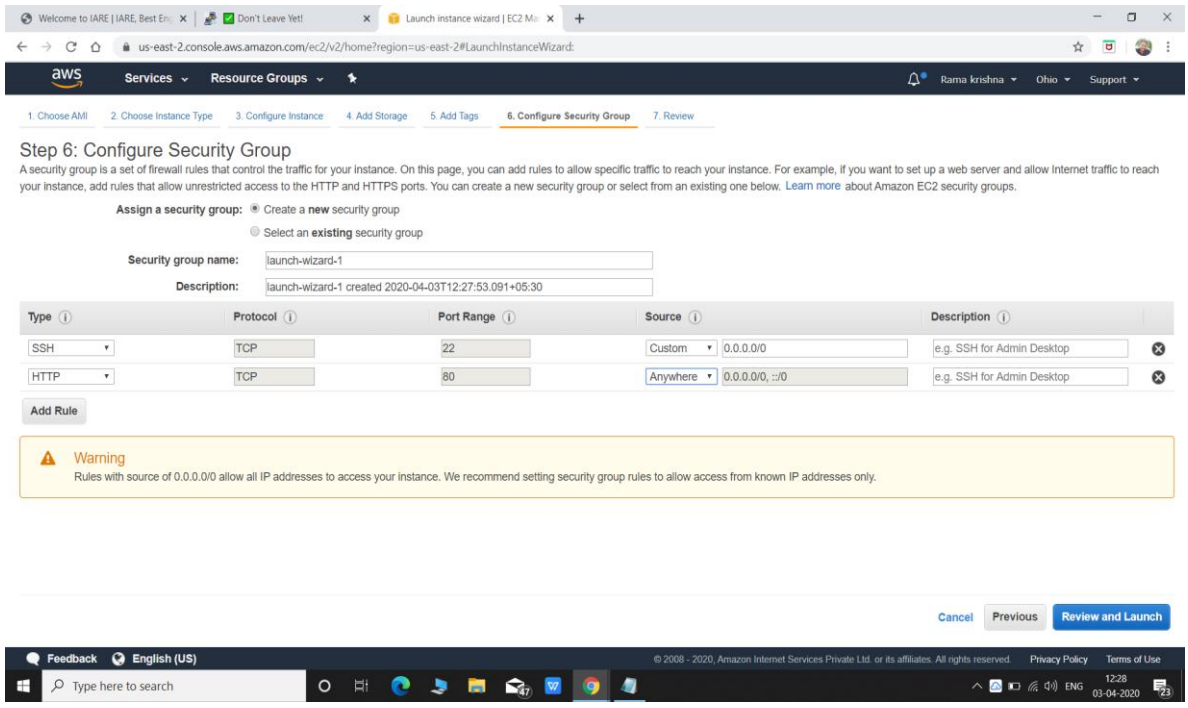
6. Choosing an Instance Type:



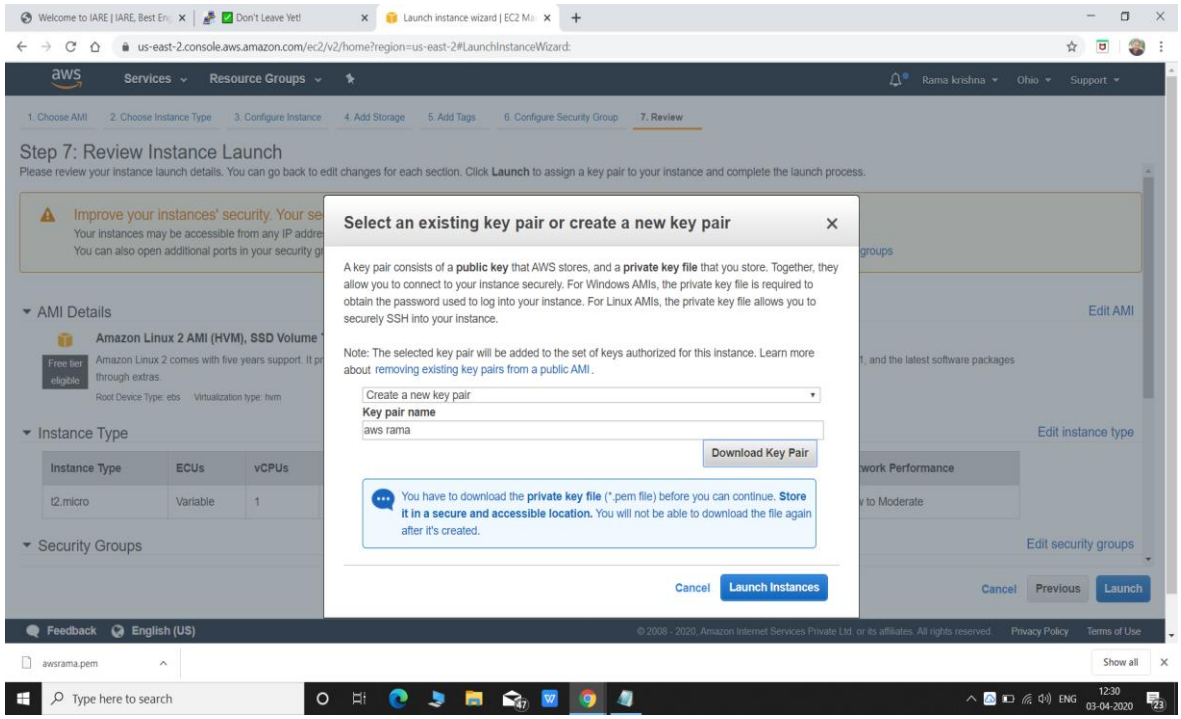
7. Adding Storage:



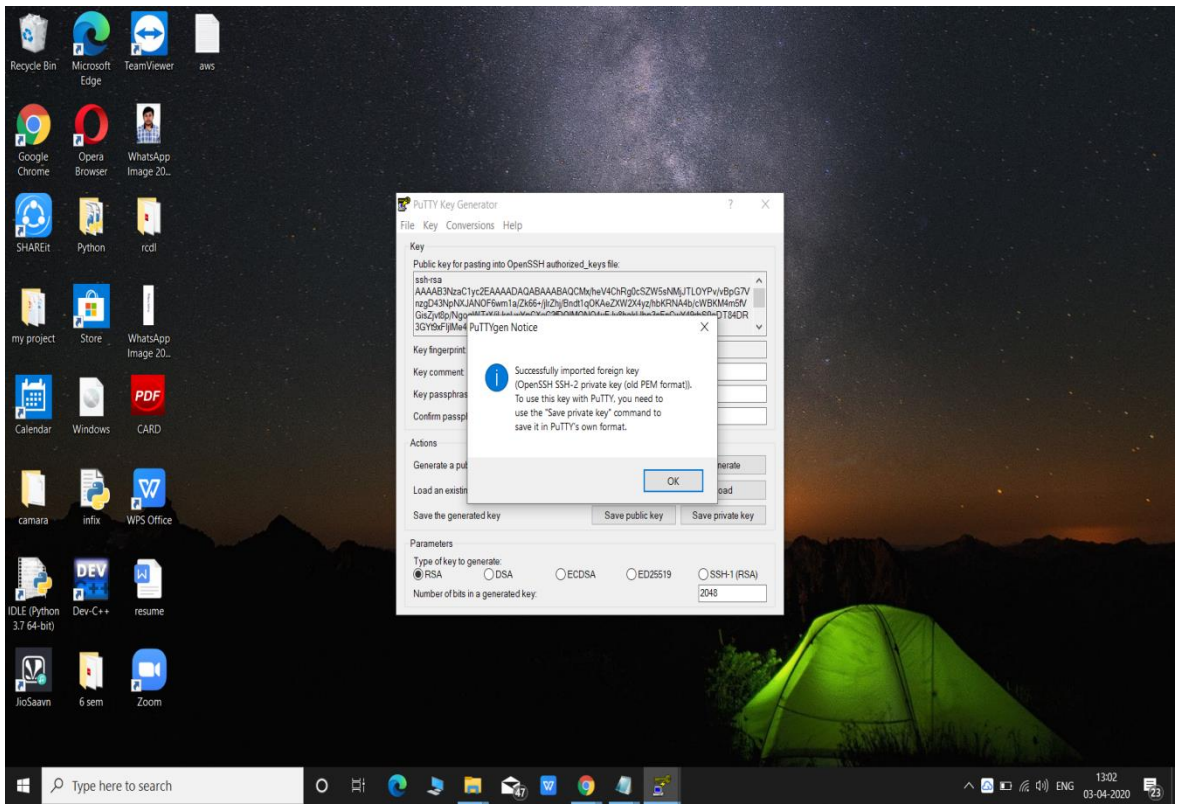
8. Configuring Security Group:



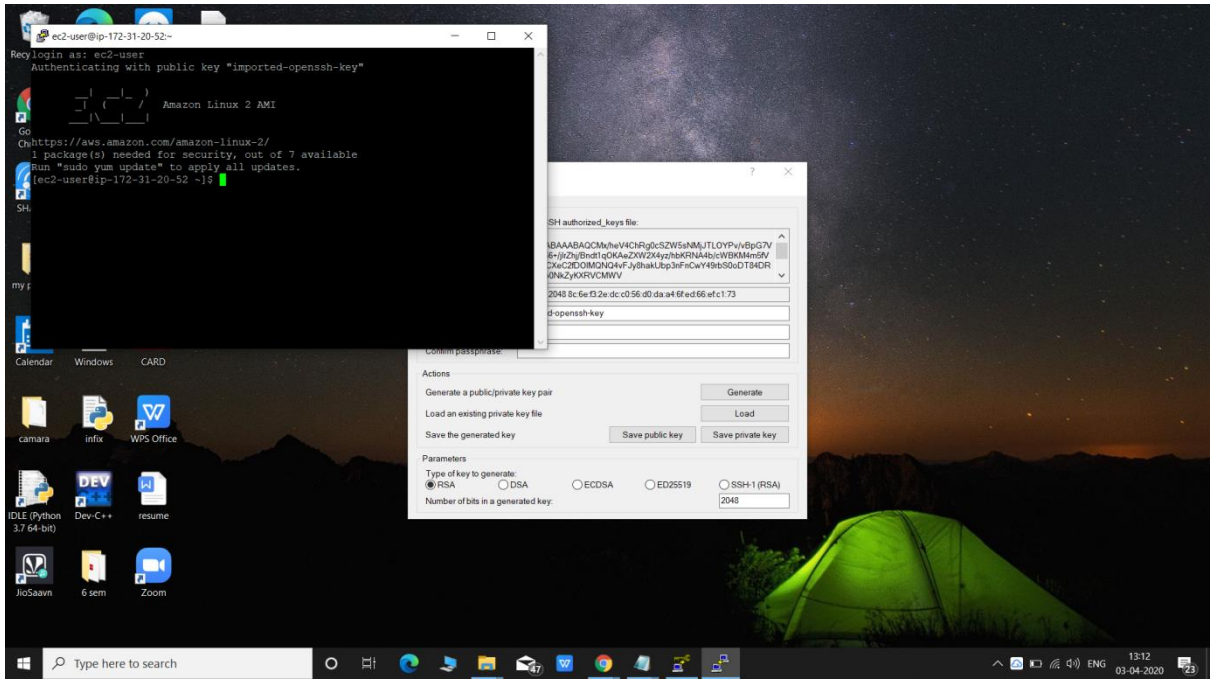
9. Key Pair Download:



10. PuTTYgen conversion from pem to ppk :

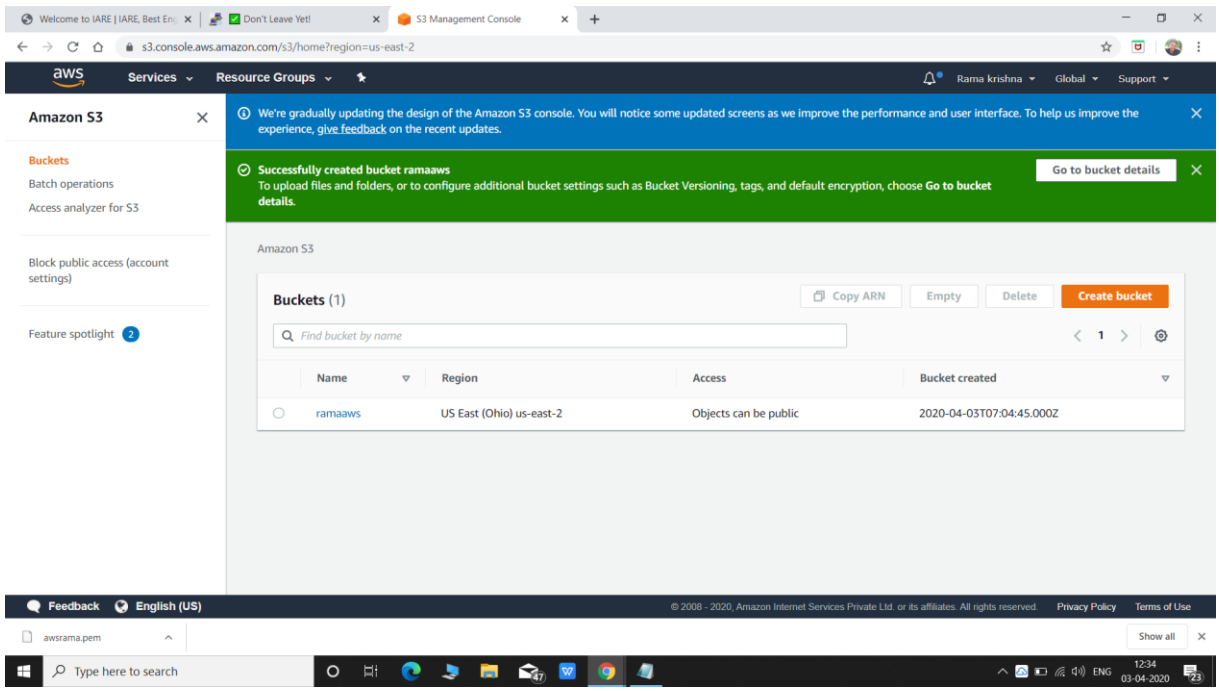


11. Logged in EC2 black screen:

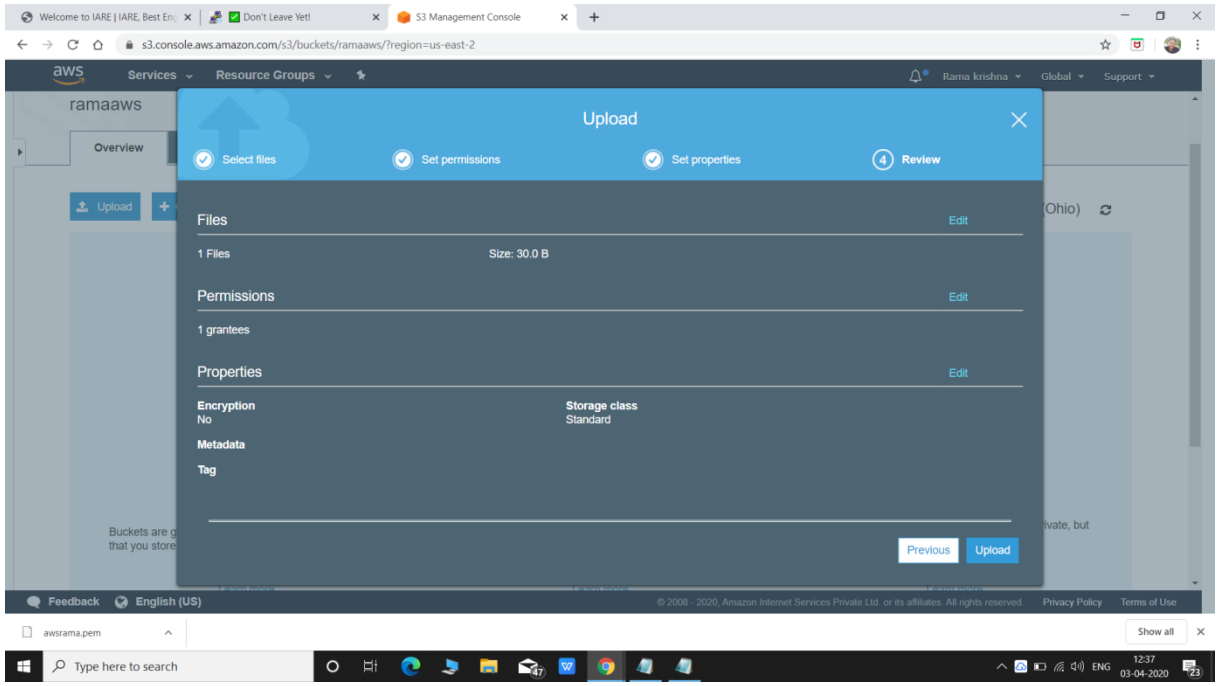


- **S3:**

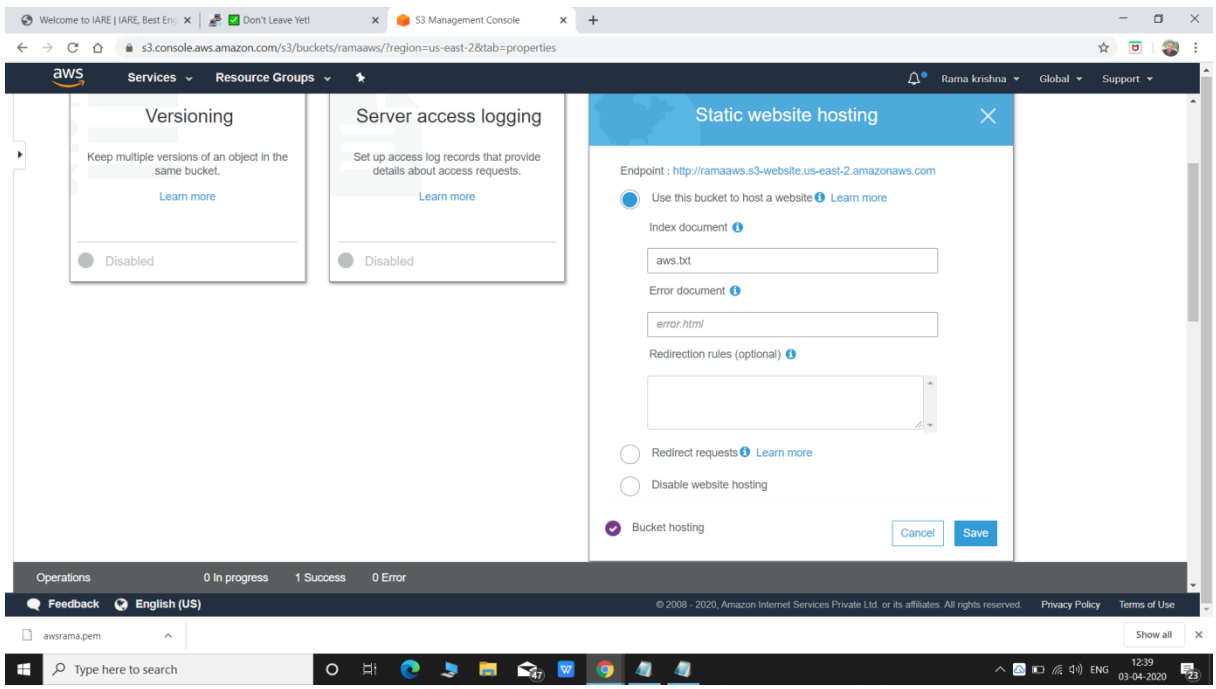
12. Creating a Bucket:



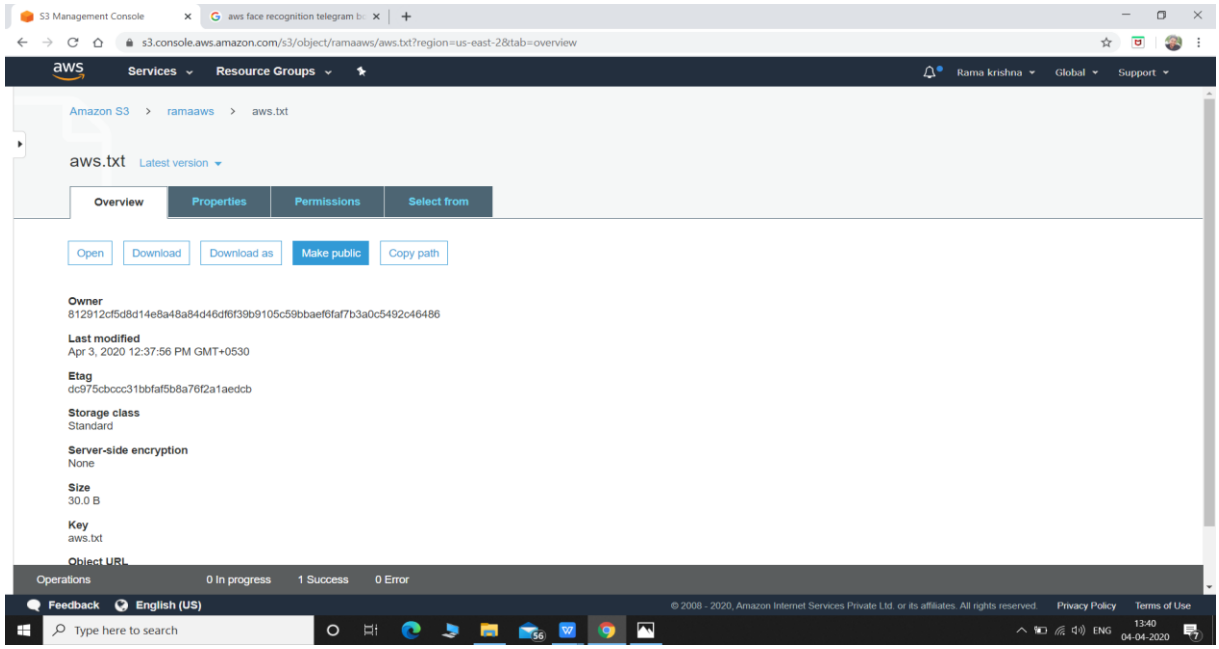
13. Uploading an Object:



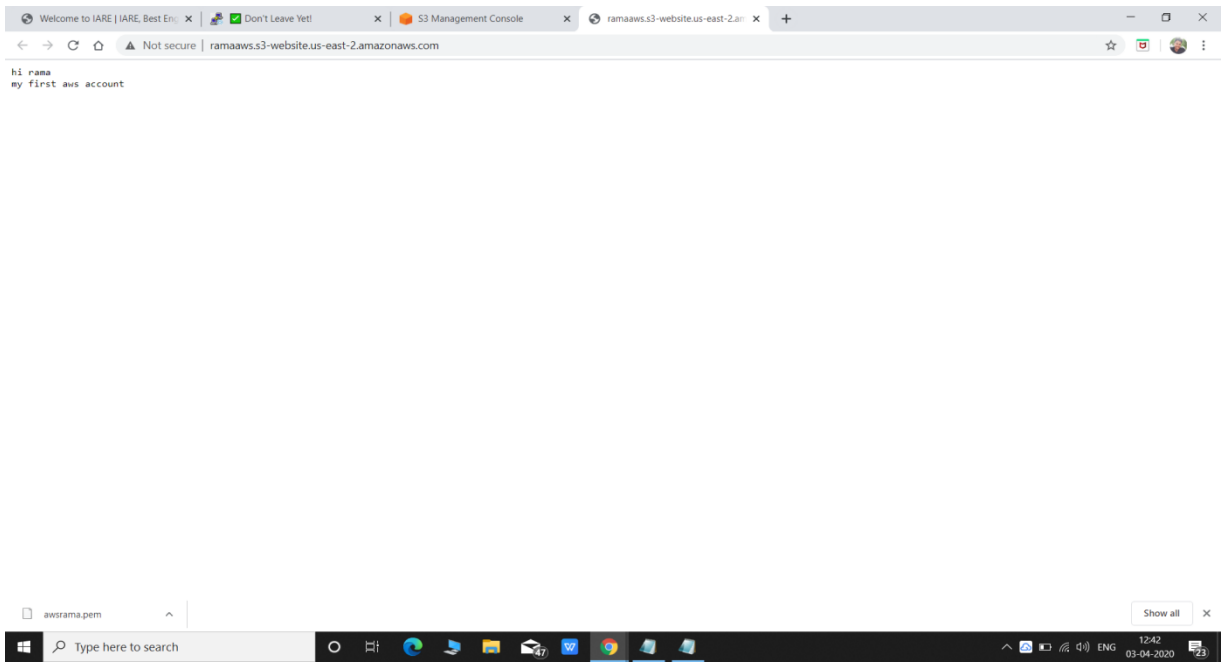
14. Enabling Static Website:



15. Making the Object Public:

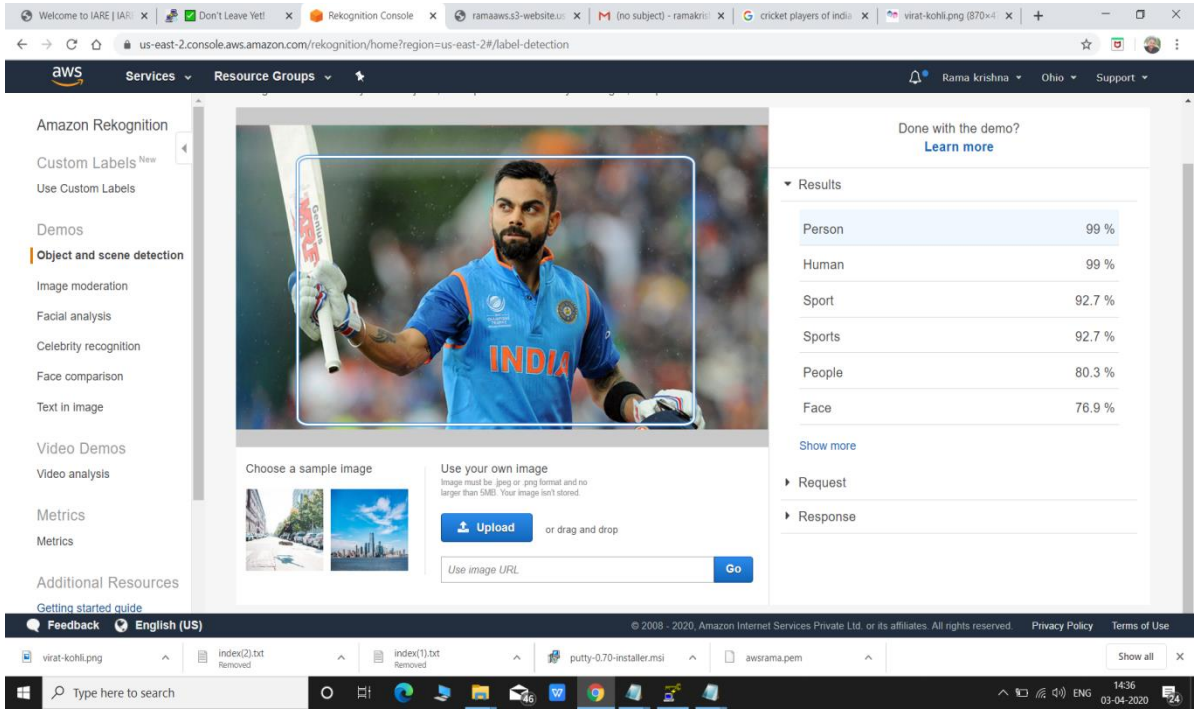


16. Checking the S3 link on the browser:

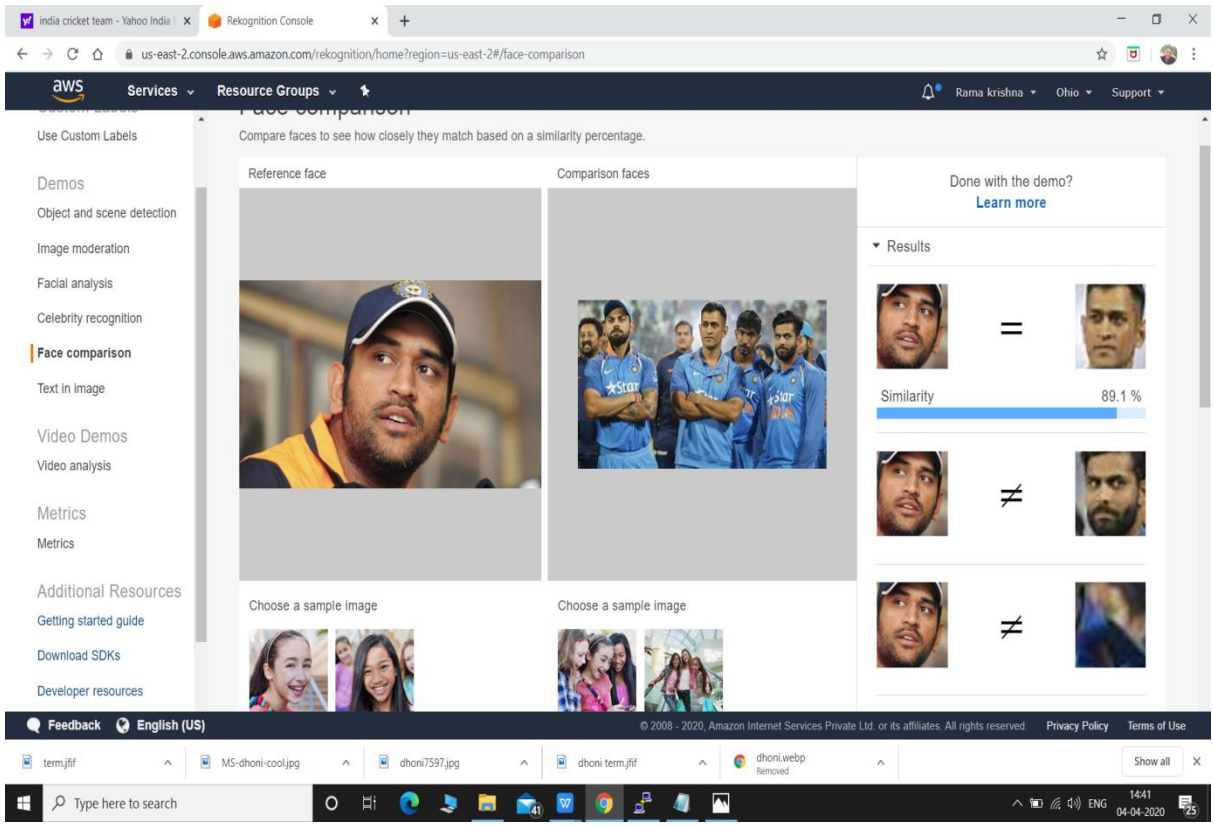


- **Rekognition:**

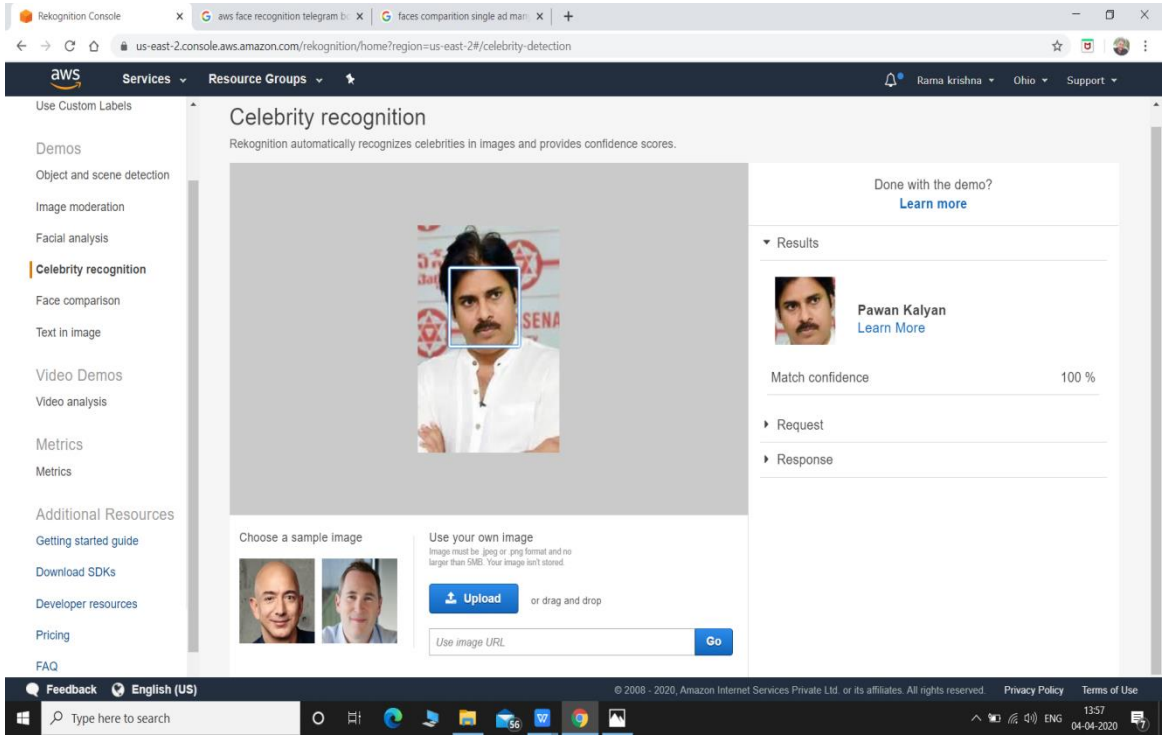
17. Face Detect:



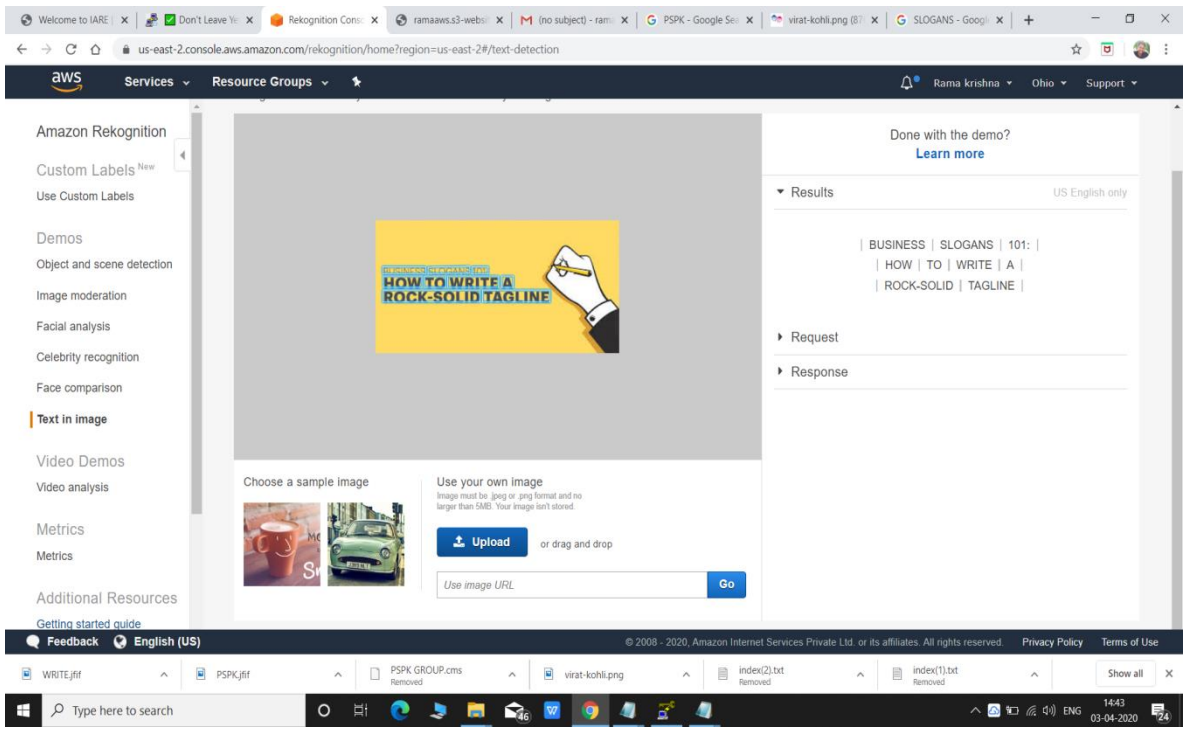
18. Face Compare:



19. Celebrity Recognition:

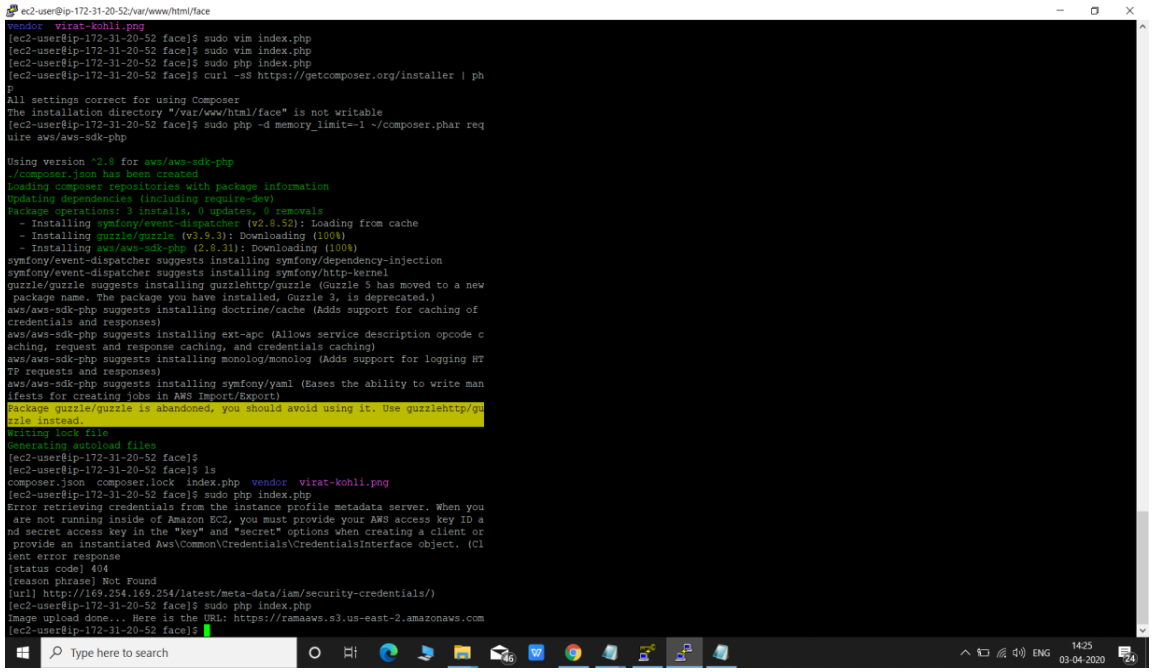


20. Text in Image:

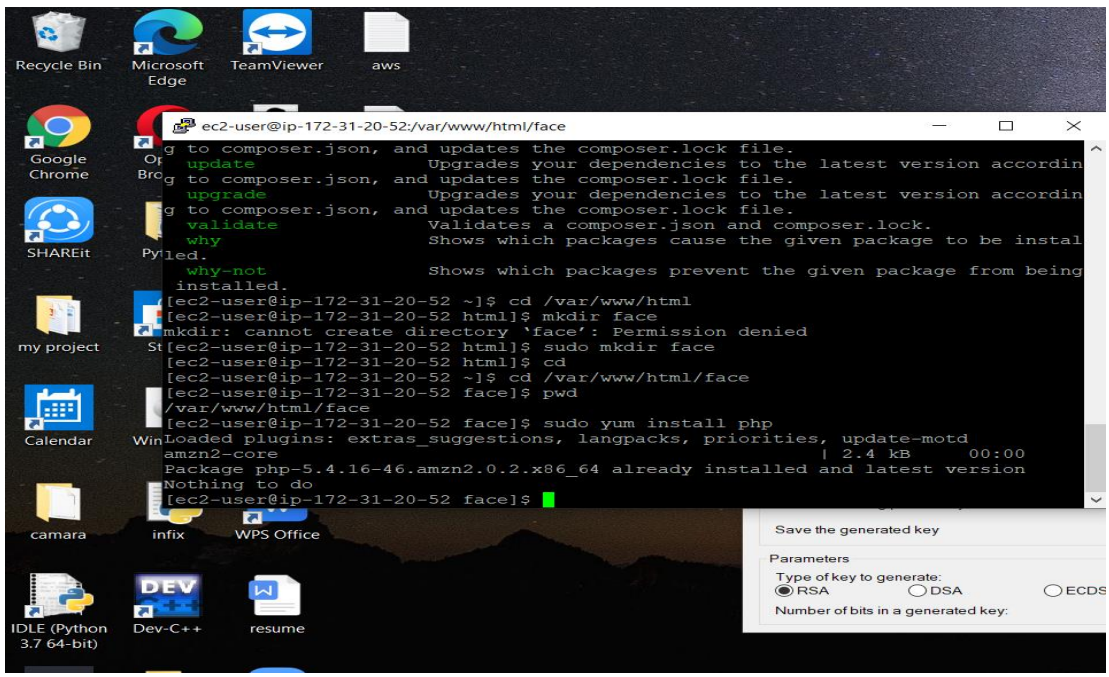


- **EC2 & S3:**

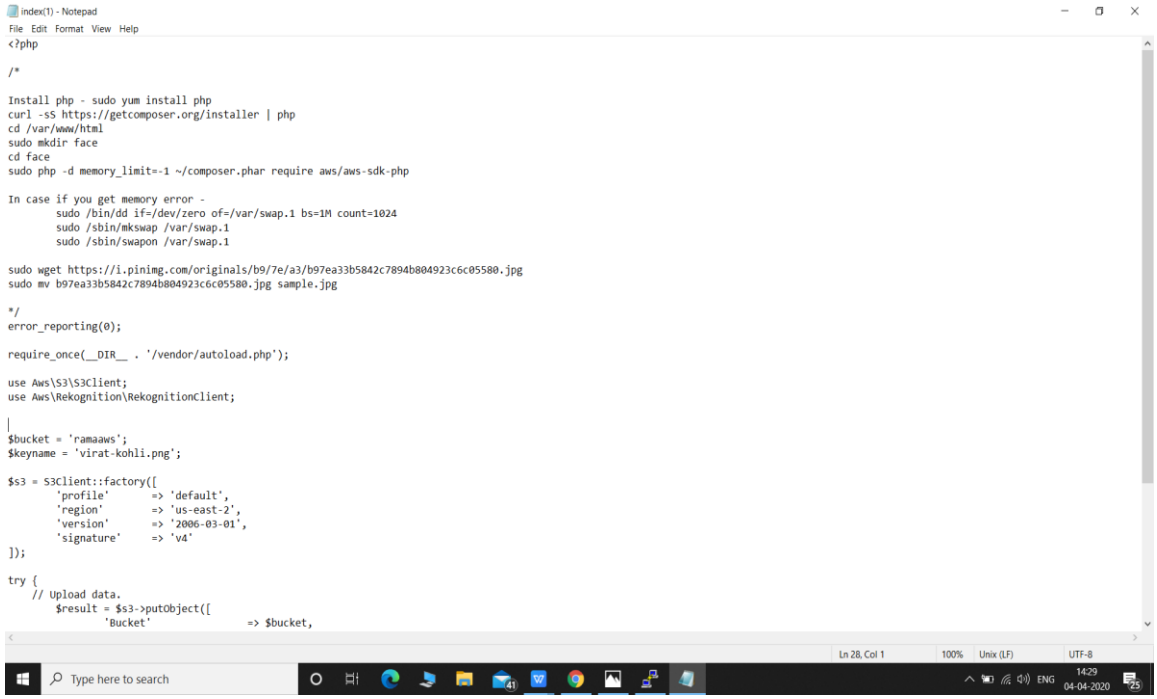
21. Installing aws-sdk:



22. Installing php:



23. Index.php file code:



index(1) - Notepad

File Edit Format View Help

```
<?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.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 = 'ramaaws';
$keyname = 'virat-kohli.png';

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

try {
    // Upload data.
        $result = $s3->putObject([
                'Bucket'                => $bucket,
```

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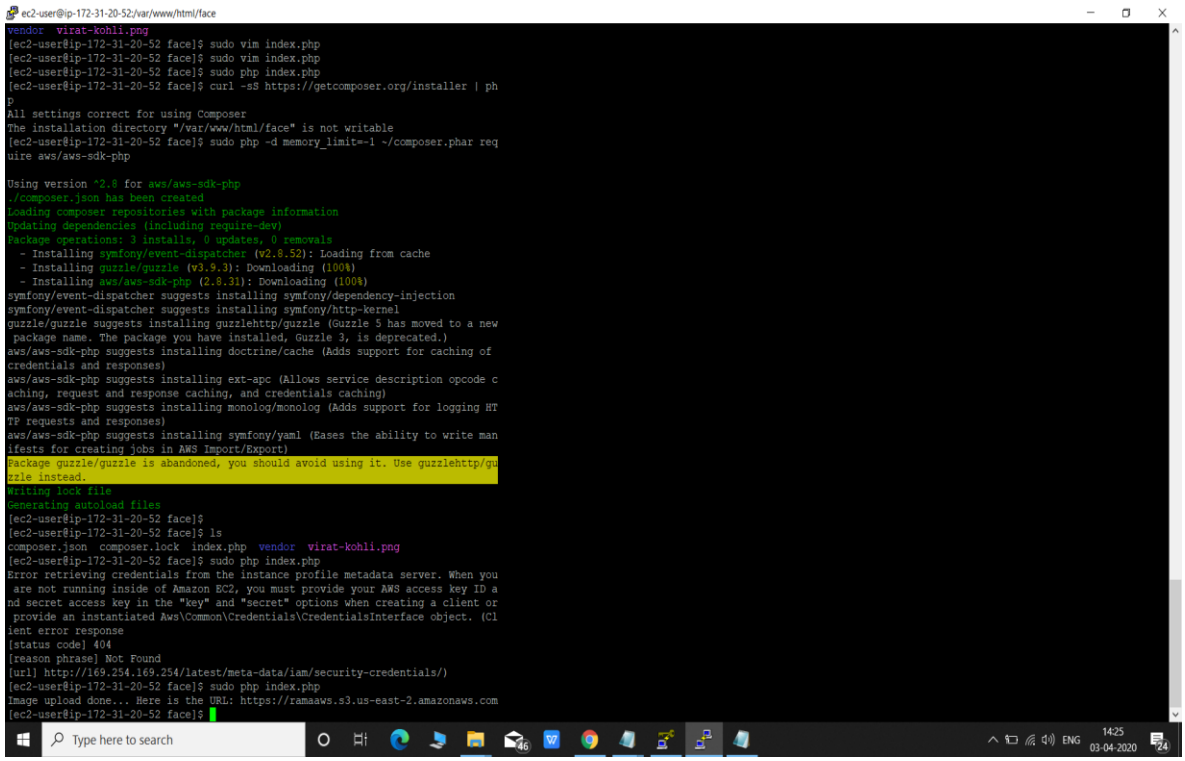
24. Upload success:



ec2-user@ip-172-31-20-52:/var/www/html/face

```
vendor  virat-kohli.png
[ec2-user@ip-172-31-20-52 face]$ sudo vim index.php
[ec2-user@ip-172-31-20-52 face]$ sudo vim index.php
[ec2-user@ip-172-31-20-52 face]$ sudo php index.php
[ec2-user@ip-172-31-20-52 face]$ curl -sS https://getcomposer.org/installer | ph
p
All settings correct for using Composer
The installation directory "/var/www/html/face" is not writable
[ec2-user@ip-172-31-20-52 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): Loading from cache
  - Installing guzzle/guzzle (v3.9.3): Downloading (100%)
  - Installing aws/aws-sdk-php (2.8.31): Downloading (100%)
symfony/event-dispatcher suggests installing symfony/dependency-injection
symfony/event-dispatcher suggests installing symfony/http-kernel
guzzle/guzzle suggests installing guzzlehttp/guzzle (Guzzle 5 has moved to a new
 package name. The package you have installed, Guzzle 3, is deprecated.)
aws/aws-sdk-php suggests installing doctrine/cache (Adds support for caching of
credentials and responses)
aws/aws-sdk-php suggests installing ext-apc (Allows service description opcode c
aching, request and response caching, and credentials caching)
aws/aws-sdk-php suggests installing monolog/monolog (Adds support for logging HT
TP requests and responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write man
ifests for creating jobs in AWS Import/Export)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/gu
zzle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-20-52 face]$
[ec2-user@ip-172-31-20-52 face]$ ls
composer.json  composer.lock  index.php  vendor  virat-kohli.png
[ec2-user@ip-172-31-20-52 face]$ sudo php index.php
Error retrieving credentials from the instance profile metadata server. When you
 are not running inside of Amazon EC2, you must provide your AWS access key ID a
nd secret access key in the "key" and "secret" options when creating a client or
 provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Cl
ient error response
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-20-52 face]$ sudo php index.php
Image upload done... Here is the URL: https://ramaaws.s3.us-east-2.amazonaws.com
[ec2-user@ip-172-31-20-52 face]$
```

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- **EC2 & Rekognition:**

25. Face Detect success: