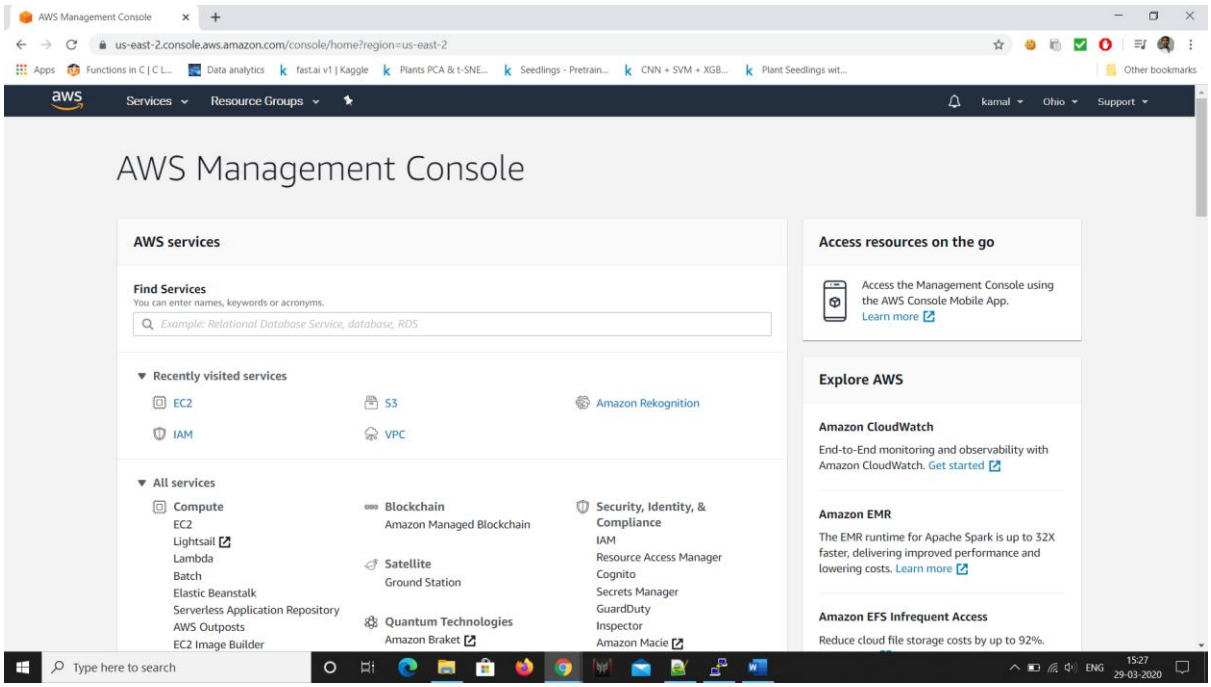
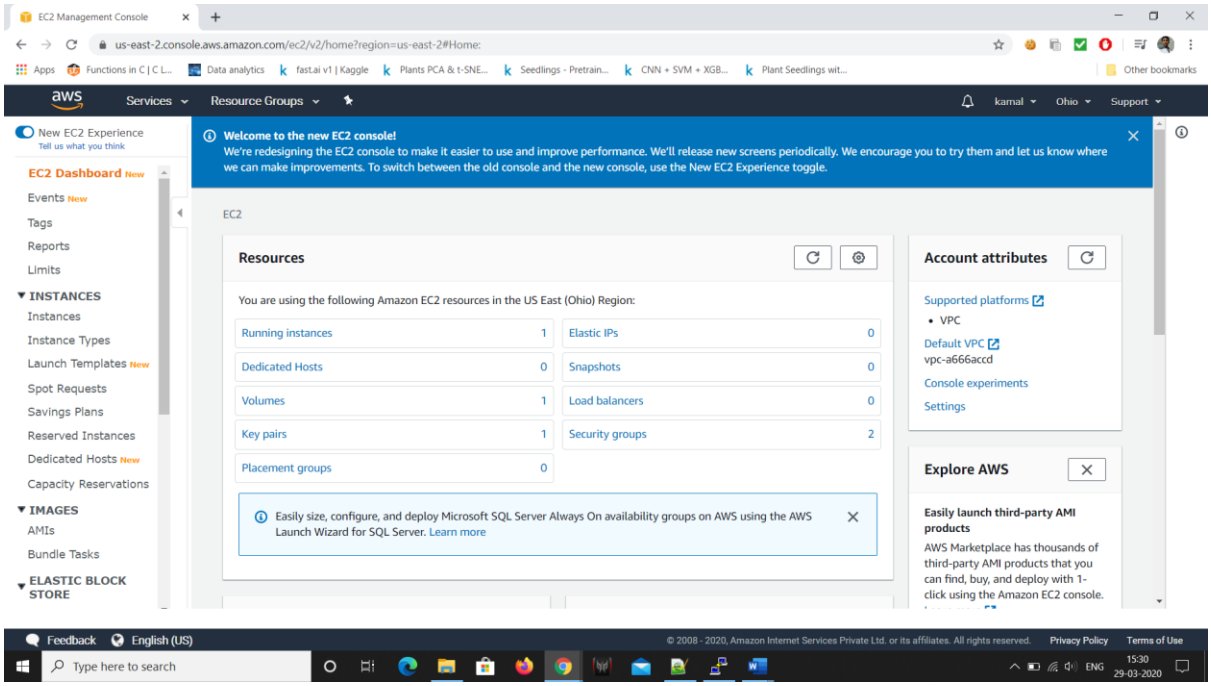
AWS

Screenshots of Dashboards:

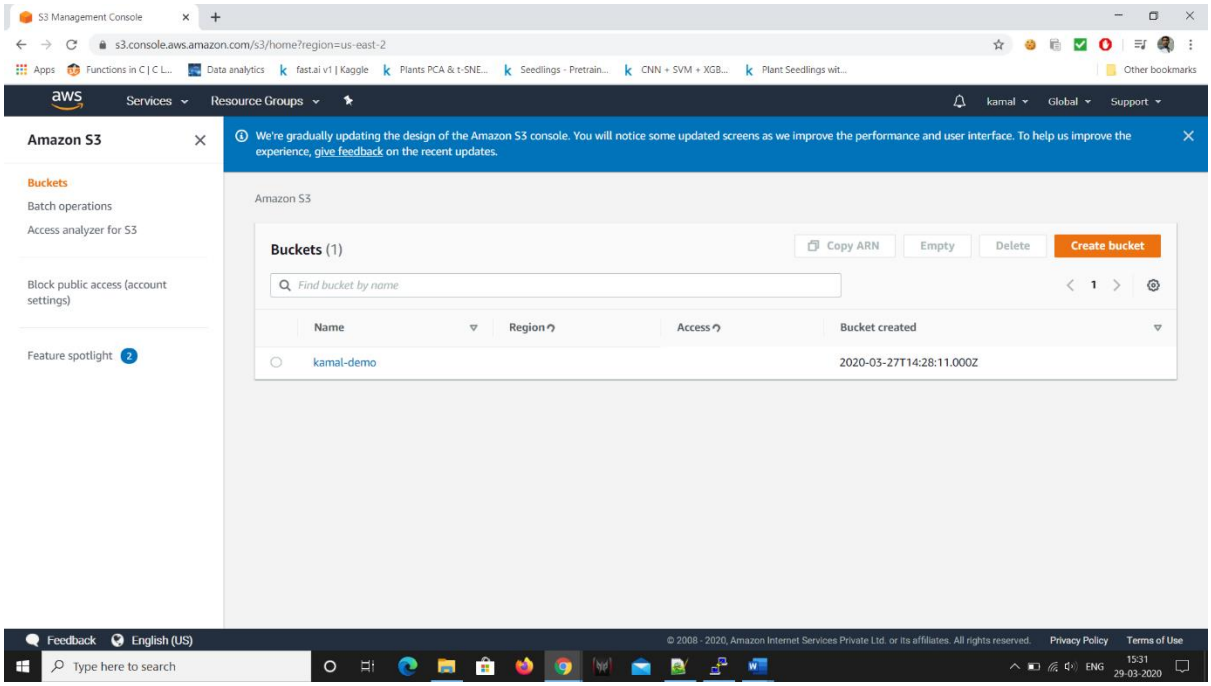
1. AWS Login Screen with Username:



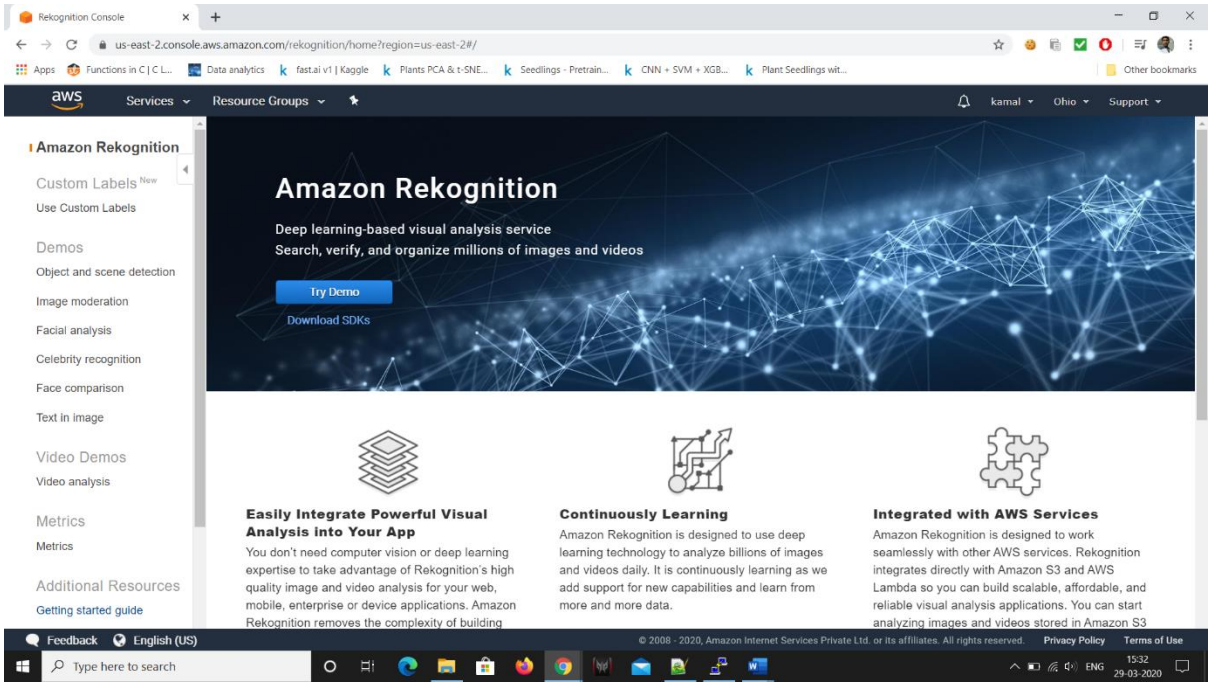
2. EC2 Dashboard:



3. S3 Dashboard:



4. Reckognition Dashboard:



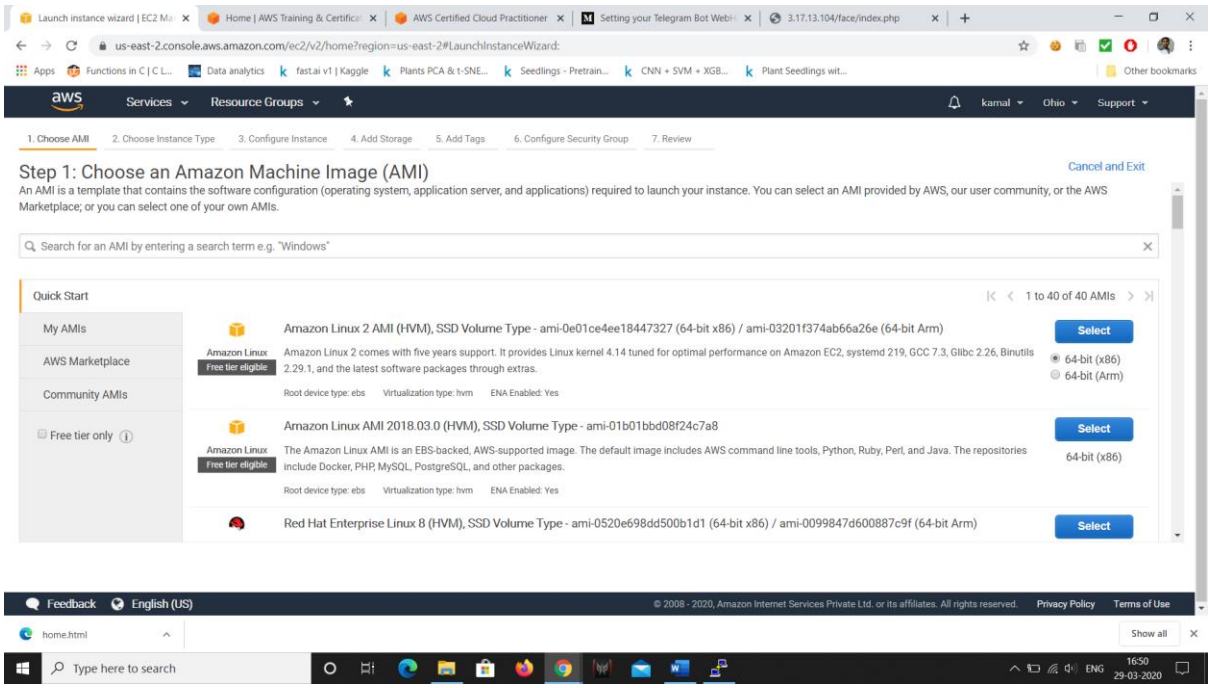
Screenshots of EC2:

Create an AWS account and go to EC2 service

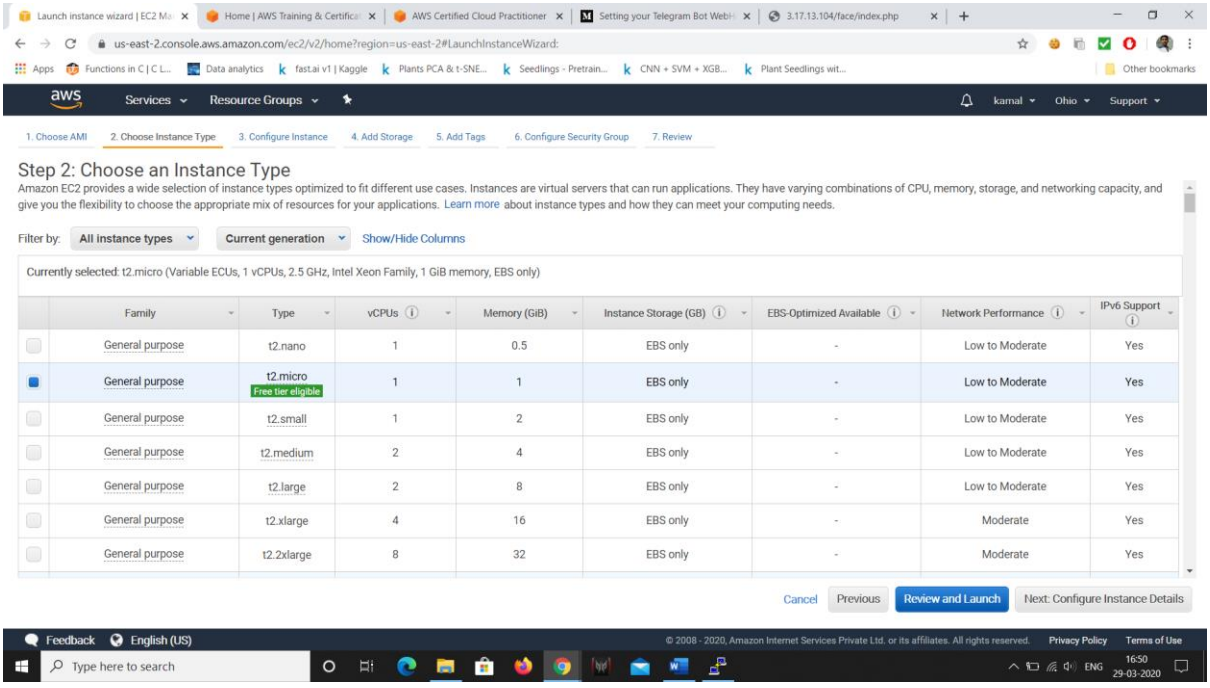
Click on launch instance

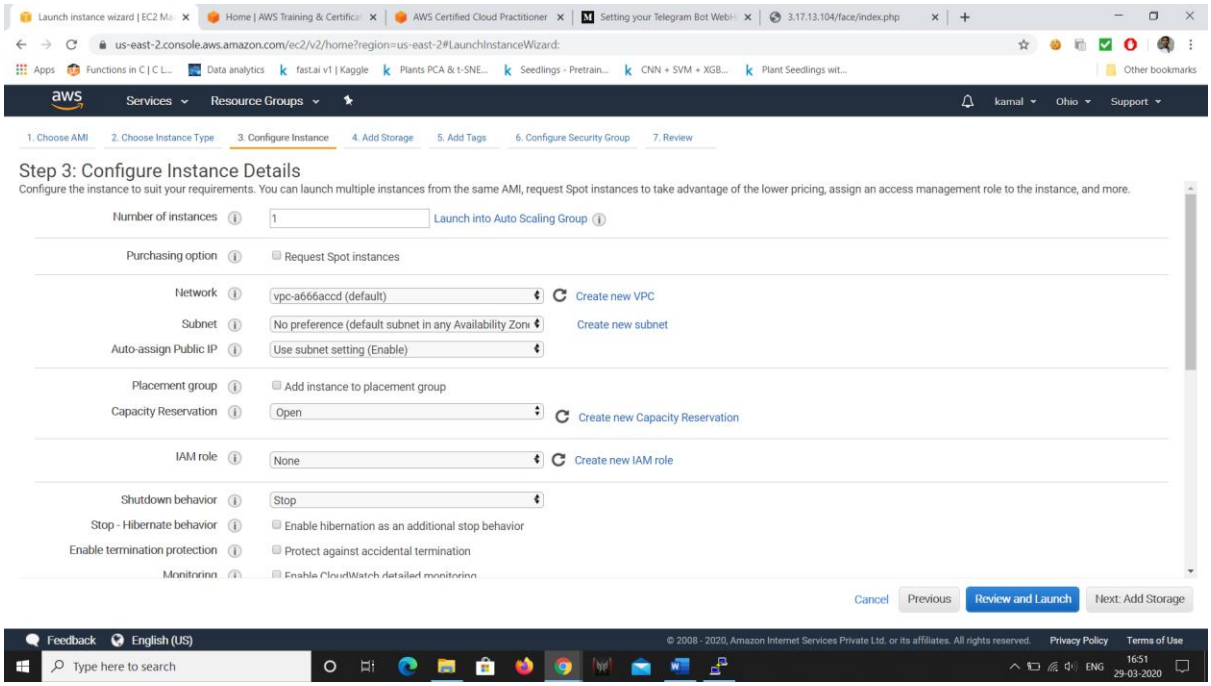
1. Choosing an AMI

And select a operating system with a ram



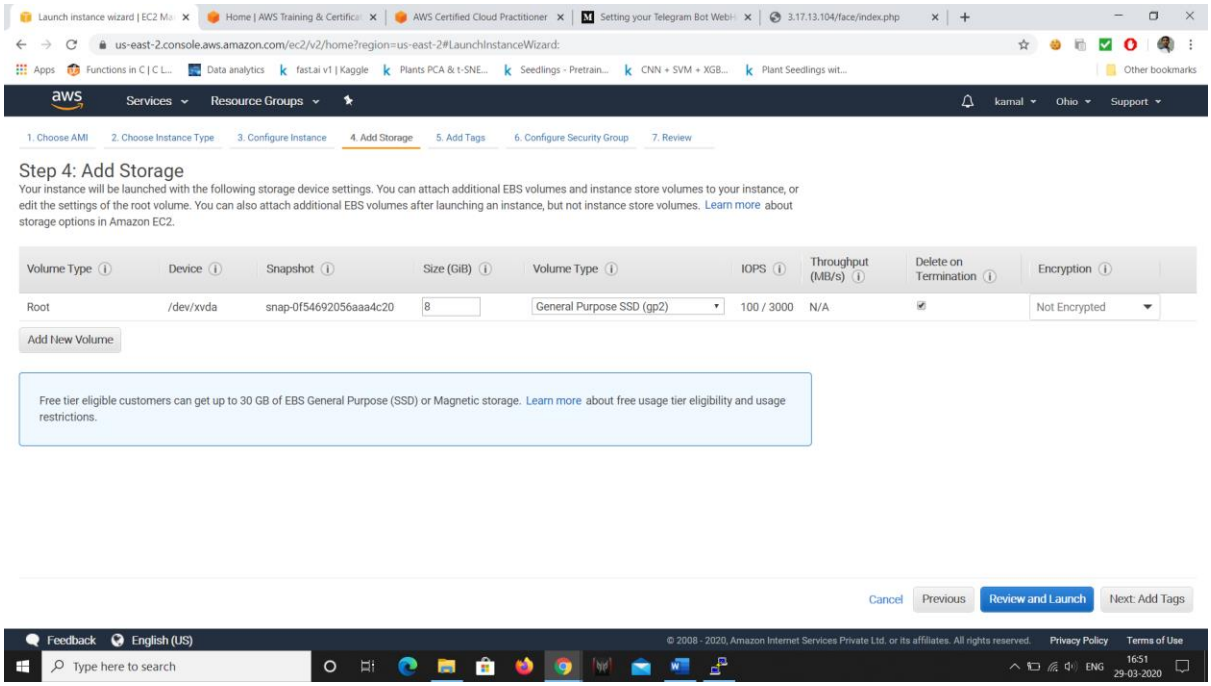
2. Choosing an Instance Type





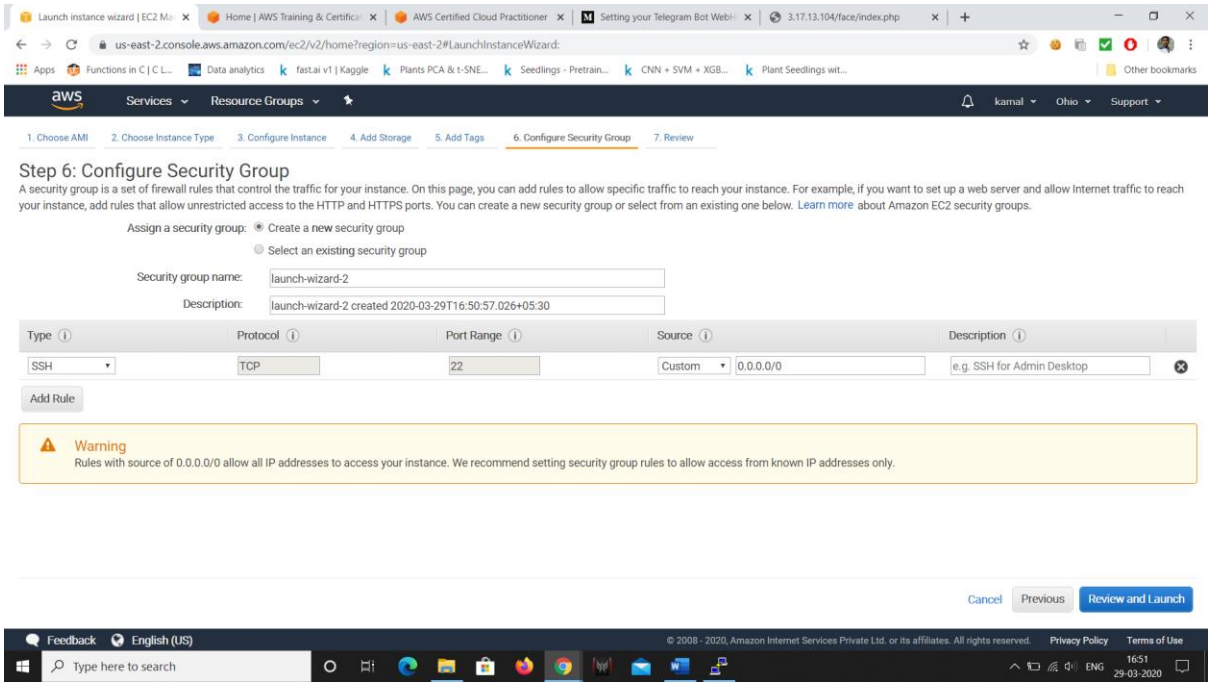
3. Adding Storage

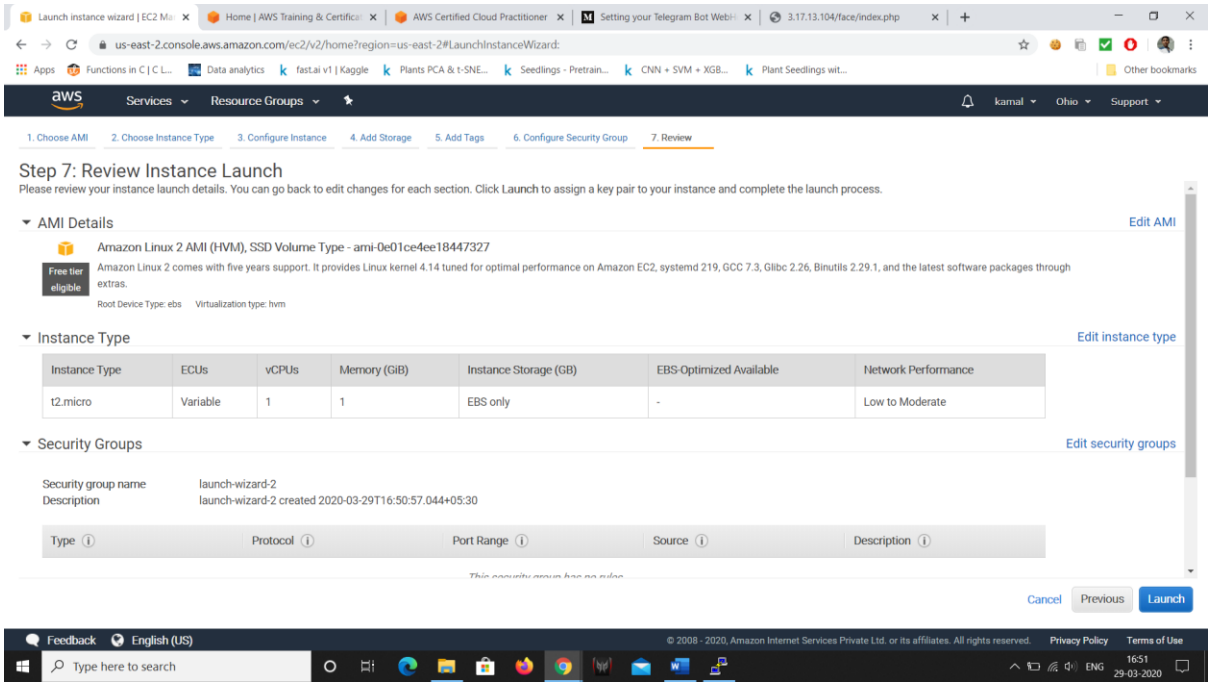
Next add storage as your own I selected as 8



4. Configuring Security Group

Check the type is SSH and port number is 22





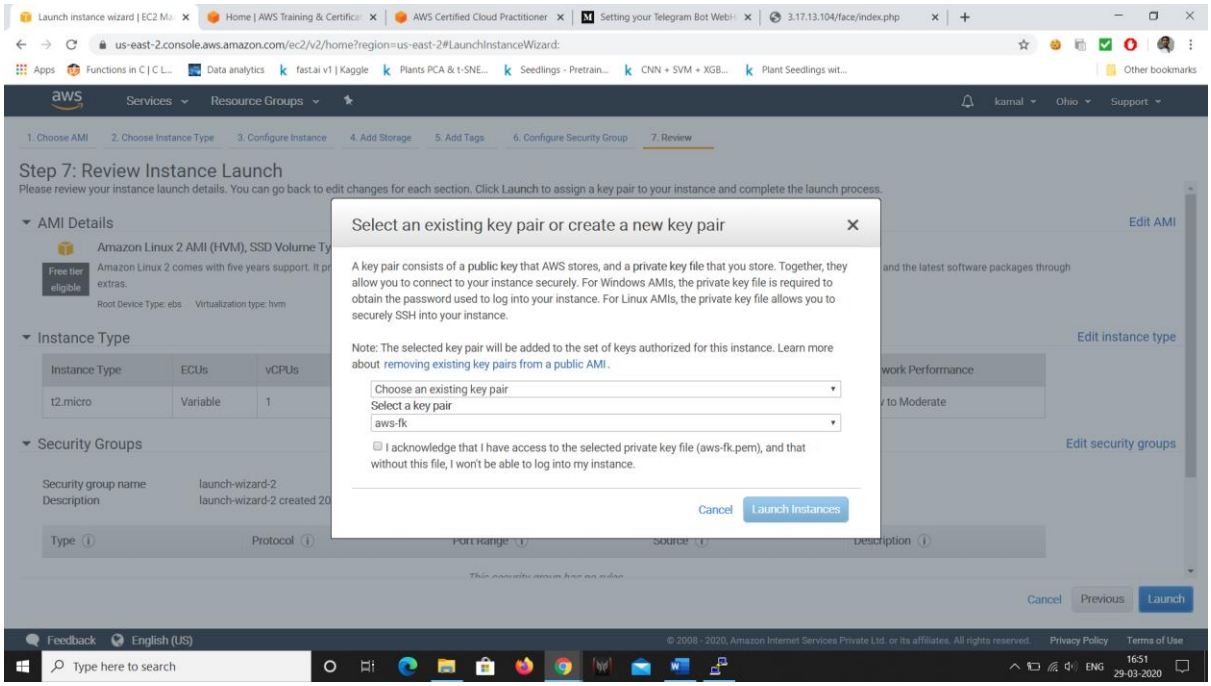
Click on REVIEW and LAUNCH

Review the all the things you entered and click on Launch.

We get a pop up window and choose a create a new key pair

And write the key pair name as your own.

5. Key Pair Download



And launch and download a keypair.

After launch click on the link it start your instance.

It is In a format of .pem

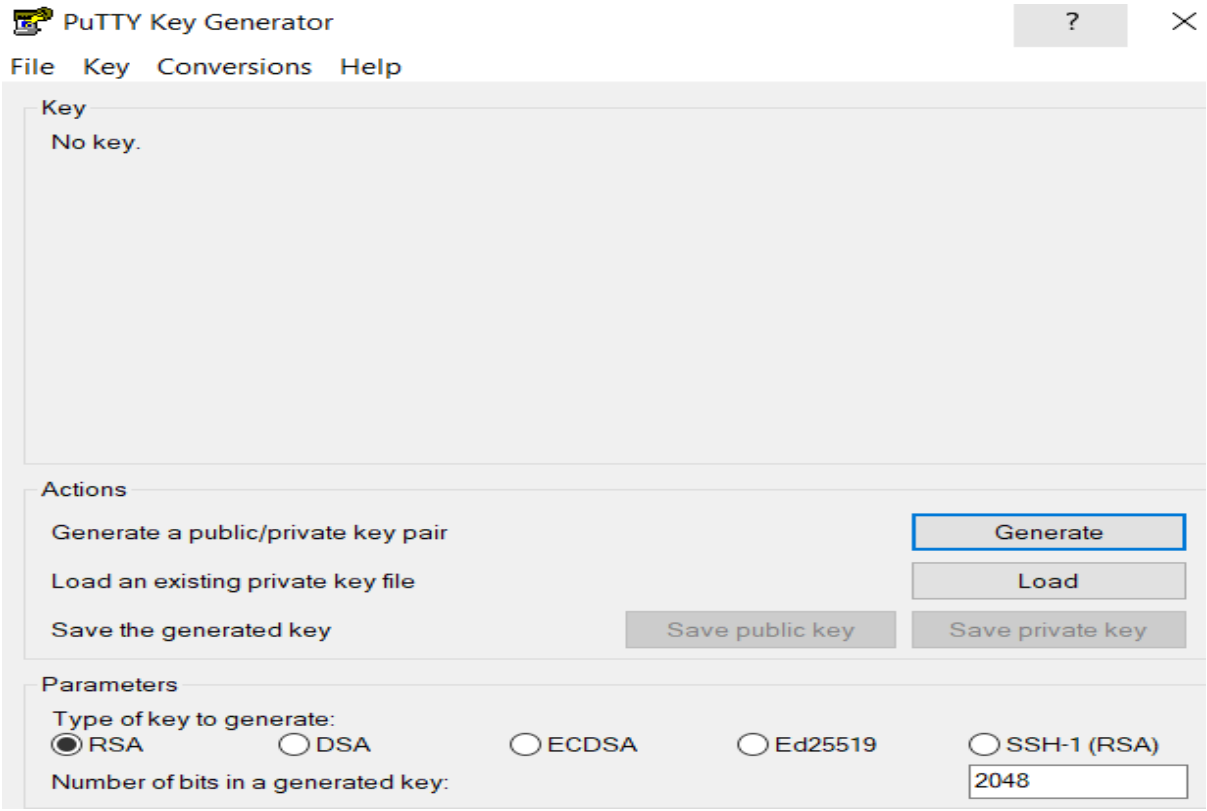
getting connected

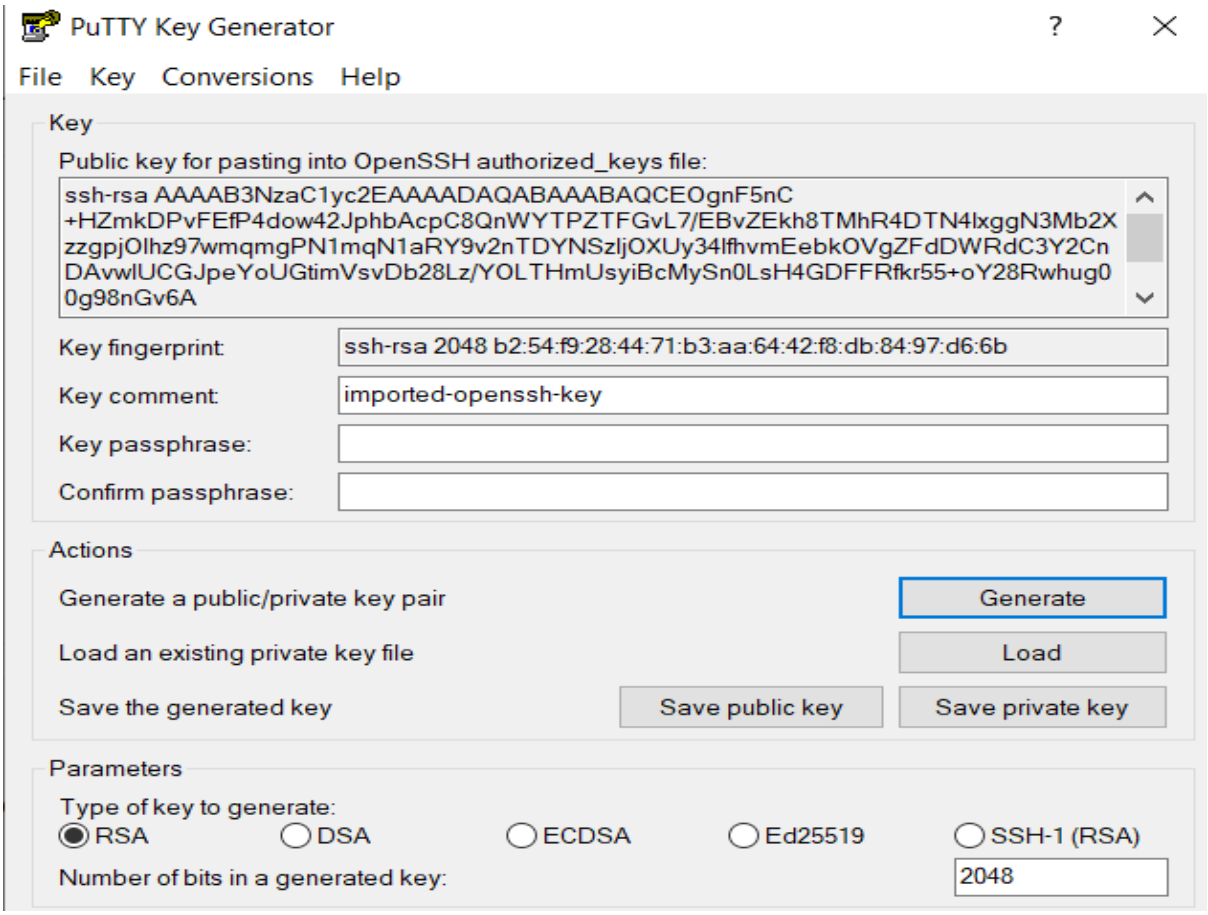
6. PuTTYgen conversion from pem to ppk

Convert pem to ppk -puttygen (or) command we can do

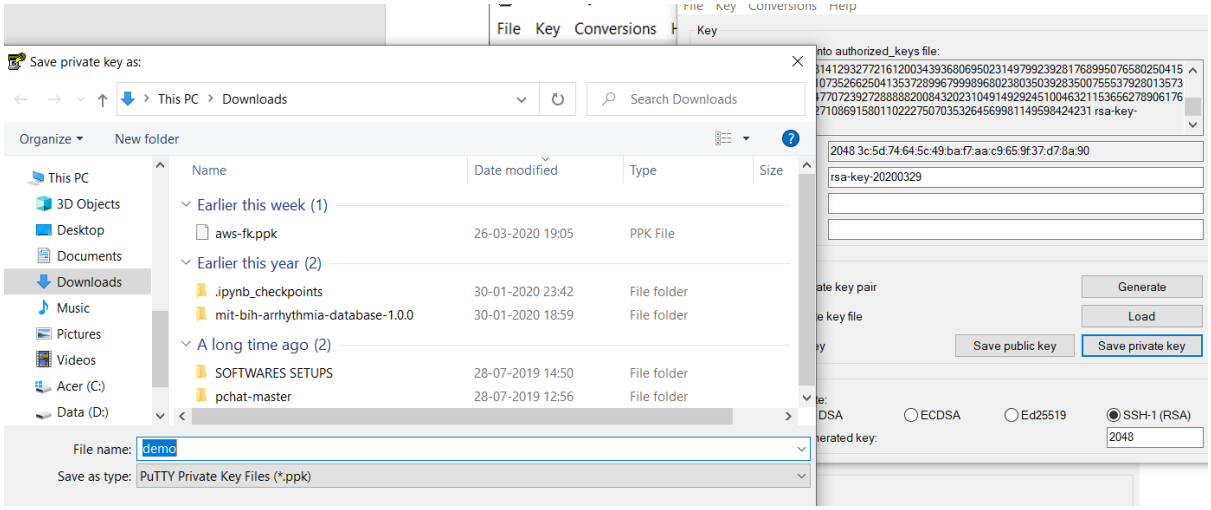
command lie -> pttygen KETFILE.pem -o KEYFILE.ppk

it will convert the .pem to .ppk



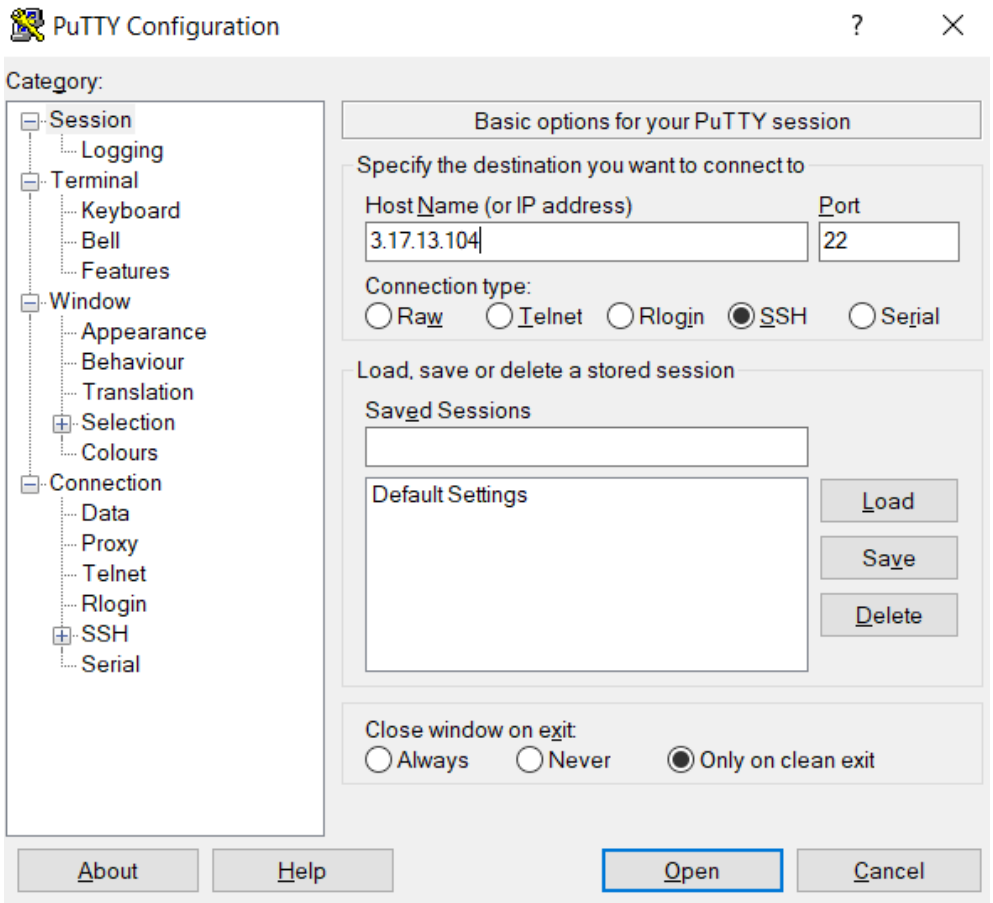


Press on save private key

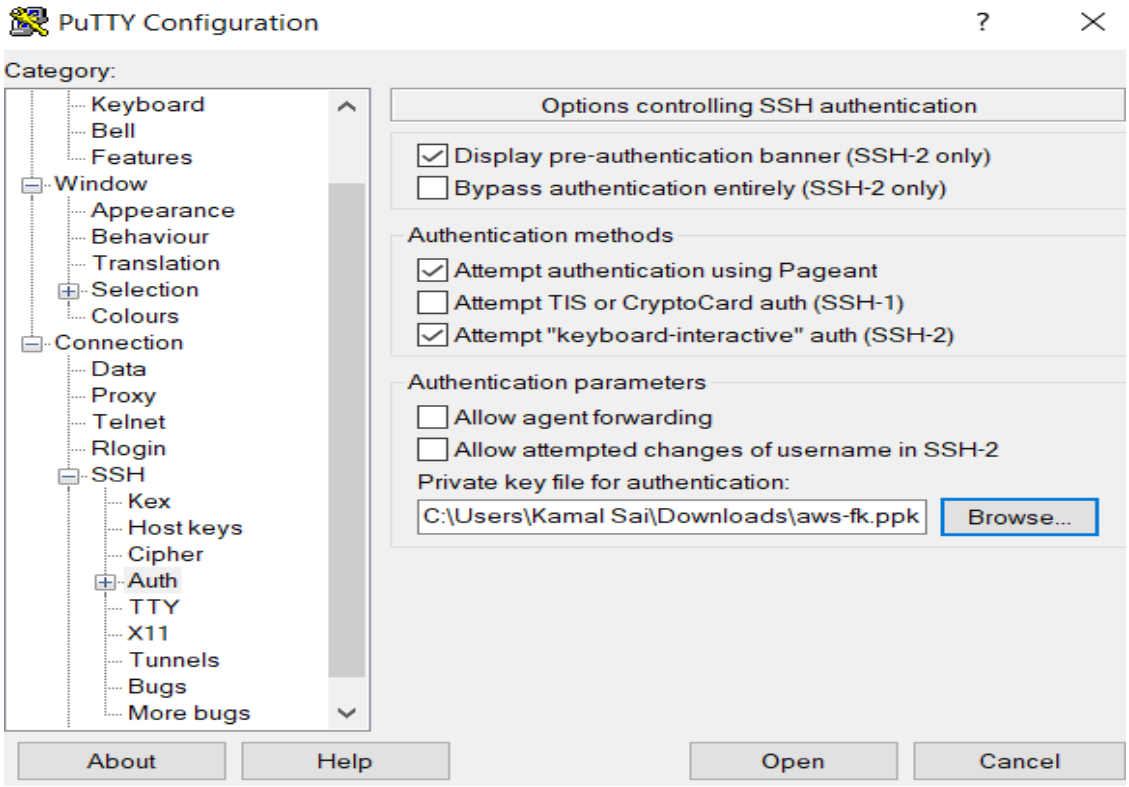


download putty from online

and open putty enter your ip addres in AWS and select SSH and port number as 22



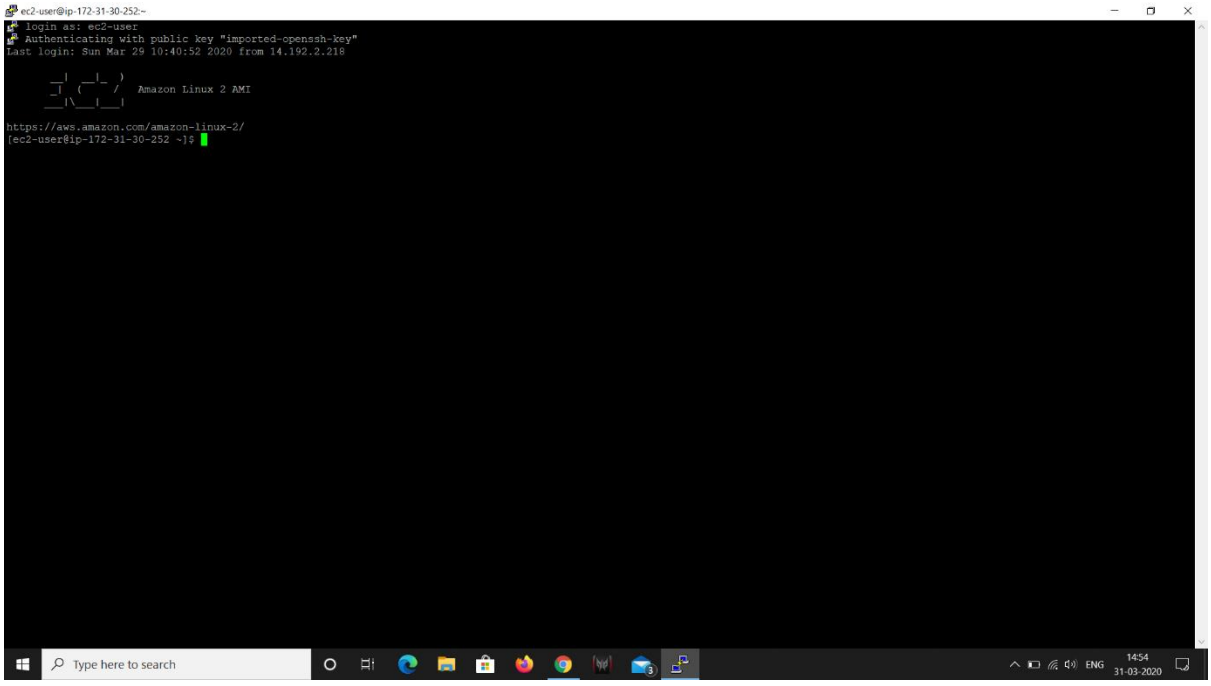
go to connection In left side of the putty expand that and expand SSH click on Auth and browse a keypair of format .ppk

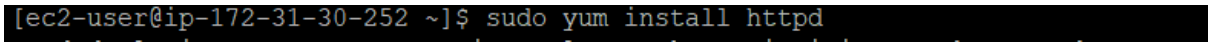


And open

7. Logged in EC2 black screen

Login as ec2-user





```
[ec2-user@ip-172-31-30-252 ~]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
```

```
[ec2-user@ip-172-31-30-252 ~]$ 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 Thu 2020-03-26 13:42:28 UTC; 29s ago
     Docs: man:httpd.service(8)
 Main PID: 3680 (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
           ├─3680 /usr/sbin/httpd -DFOREGROUND
           ├─3681 /usr/sbin/httpd -DFOREGROUND
           ├─3682 /usr/sbin/httpd -DFOREGROUND
           ├─3683 /usr/sbin/httpd -DFOREGROUND
           ├─3684 /usr/sbin/httpd -DFOREGROUND
           └─3685 /usr/sbin/httpd -DFOREGROUND

Mar 26 13:42:28 ip-172-31-30-252.us-east-2.compute.internal systemd[1]: Start...
Mar 26 13:42:28 ip-172-31-30-252.us-east-2.compute.internal systemd[1]: Start...
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-30-252 ~]$ sudo vim /var/www/html/index.html
[ec2-user@ip-172-31-30-252 ~]$
```

Press i we get into

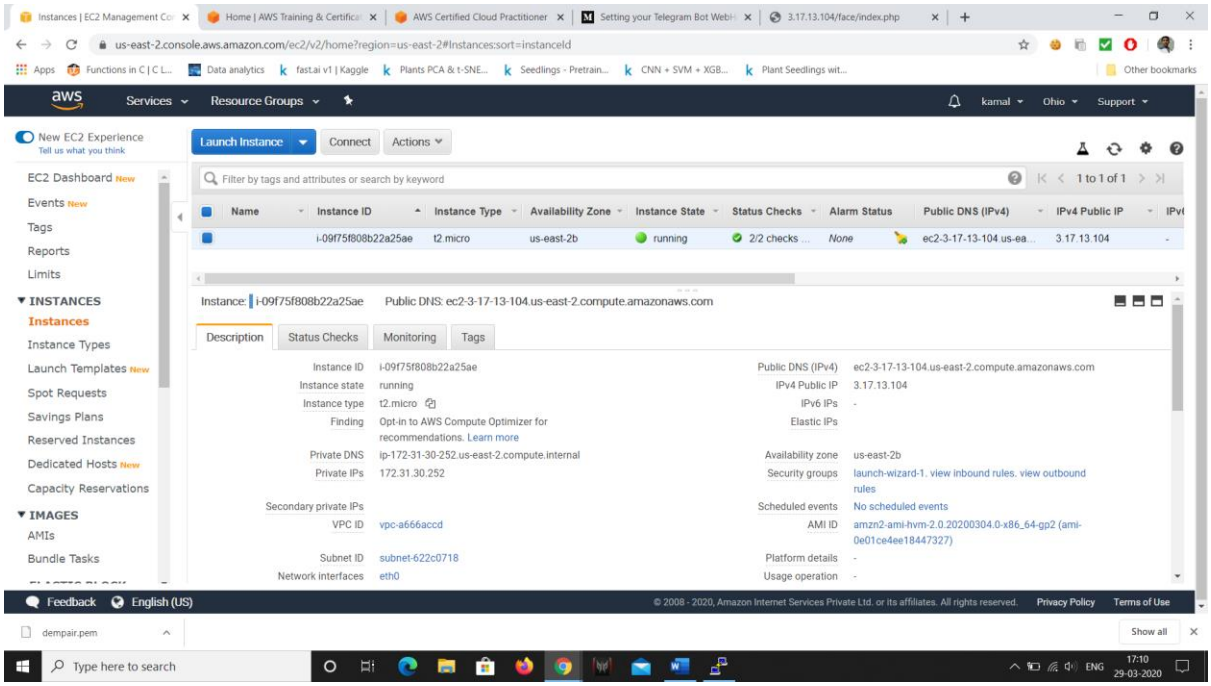
And we can write what ever we want

```
Hi friends. From kamalsai
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --                                                    1,3           All
```

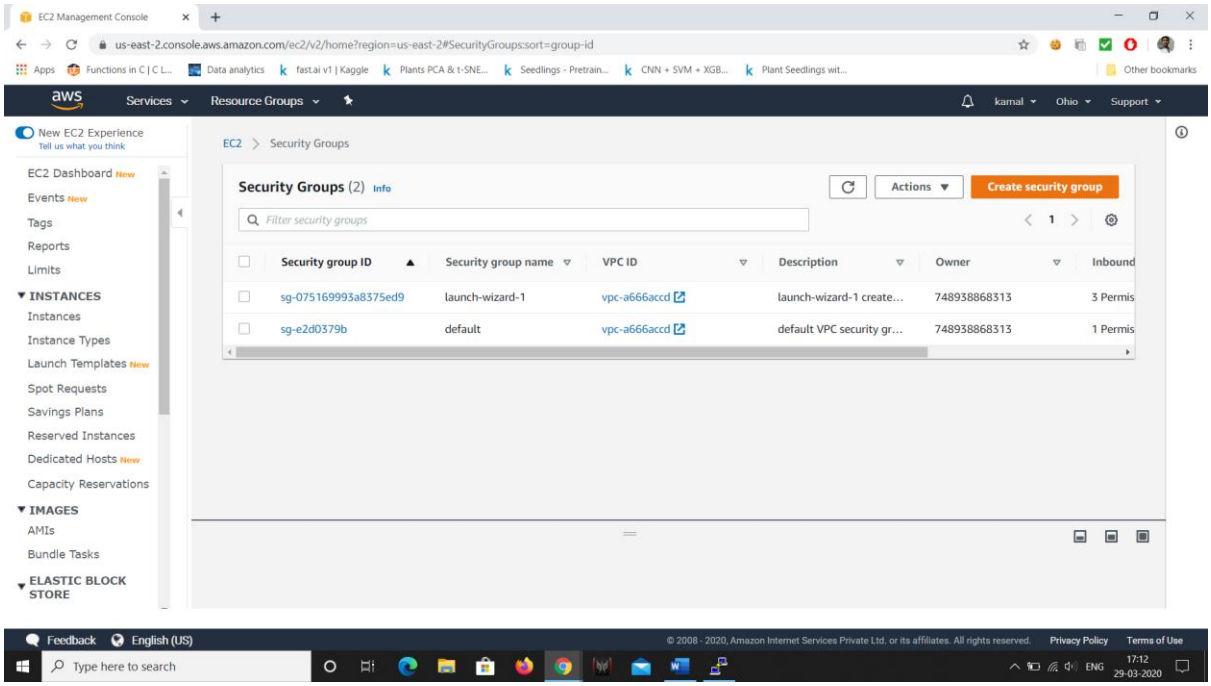
ESC :wq (hit an enter)

We get back to back normal console

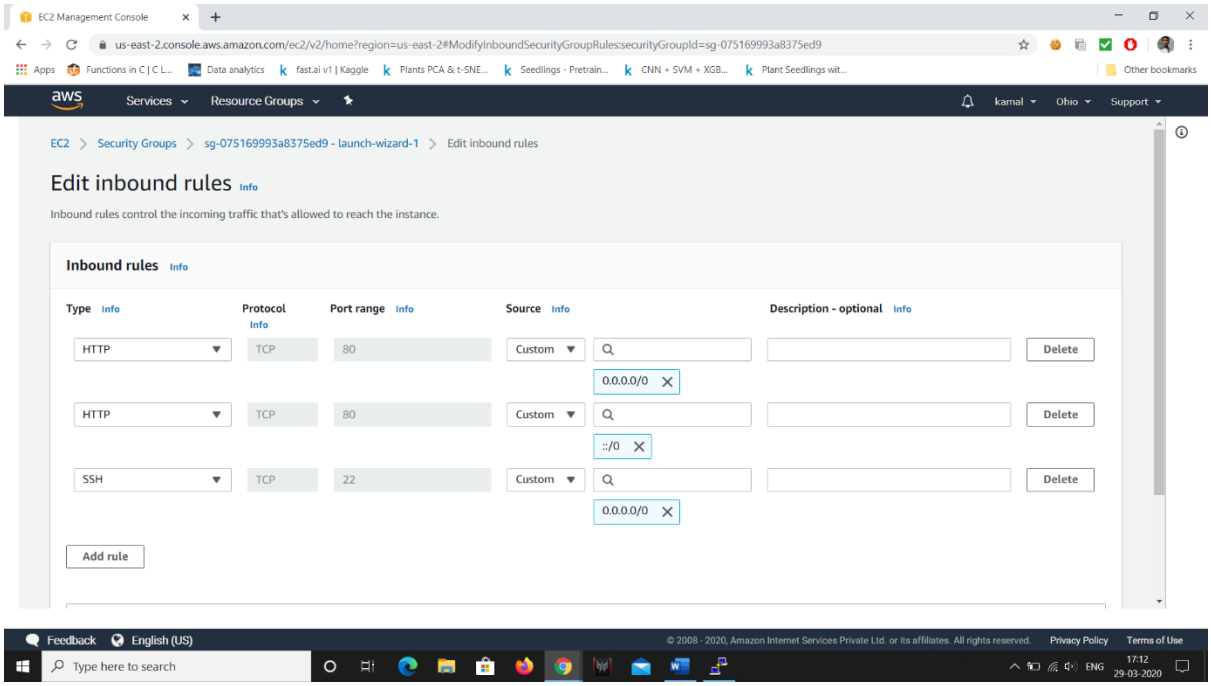
Open browser and enter your ip address of your which is present in aws



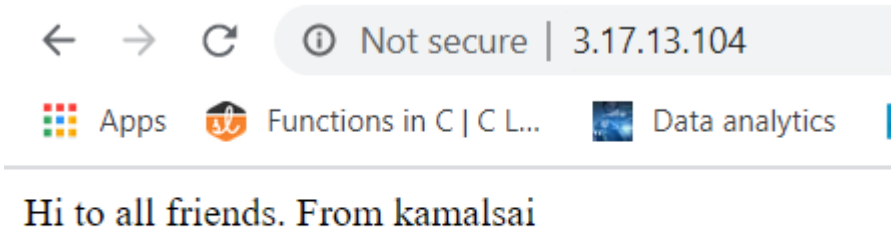
If it not show then go to aws and in Security group click on [launch-wizard-1]



Click on security group id and edit inbound rules and add rule and set it to http and make source to anywhere and save rule.

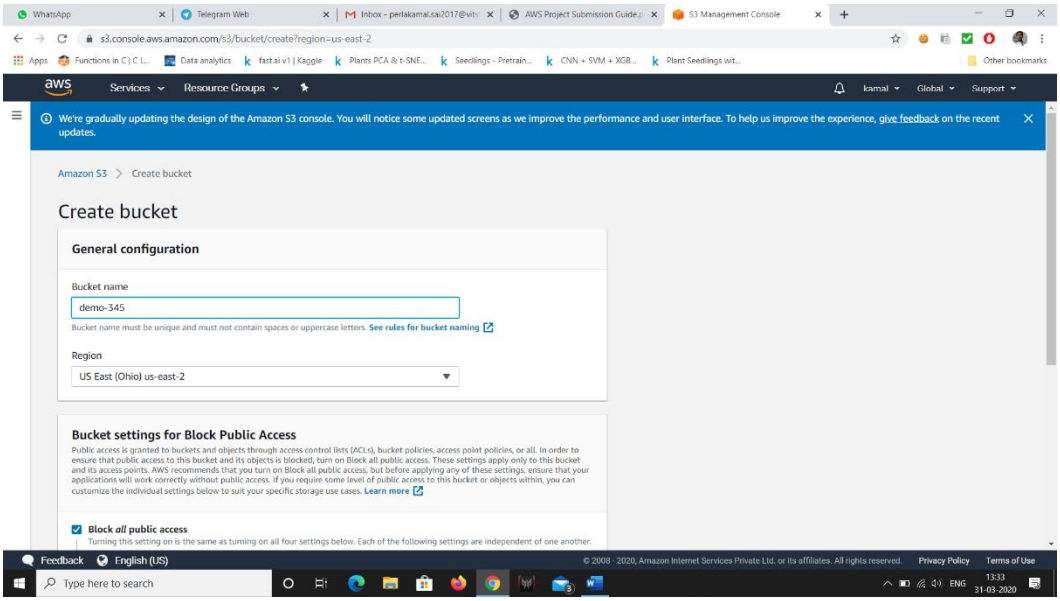


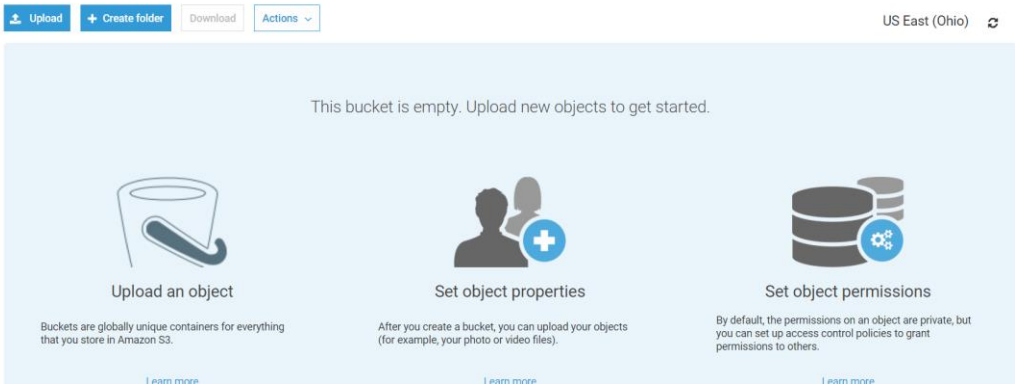
Now open browser and search your ip address it will show what you typed message before.



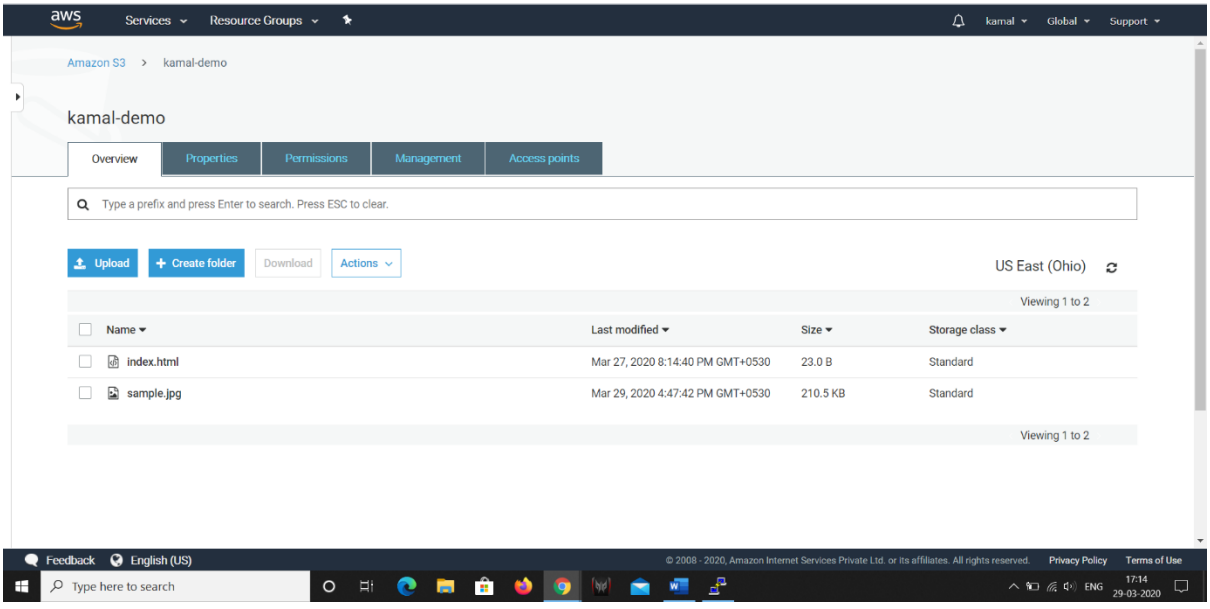
Screenshots of S3:

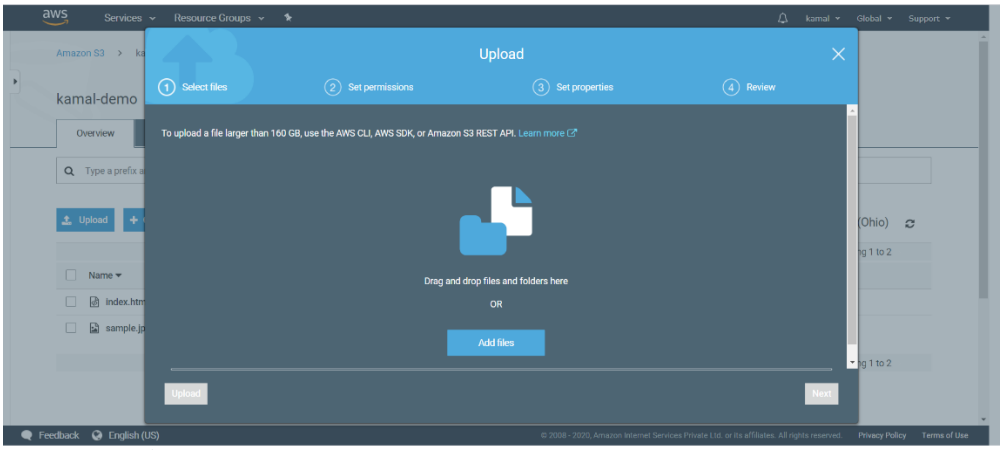
1. Creating a bucket



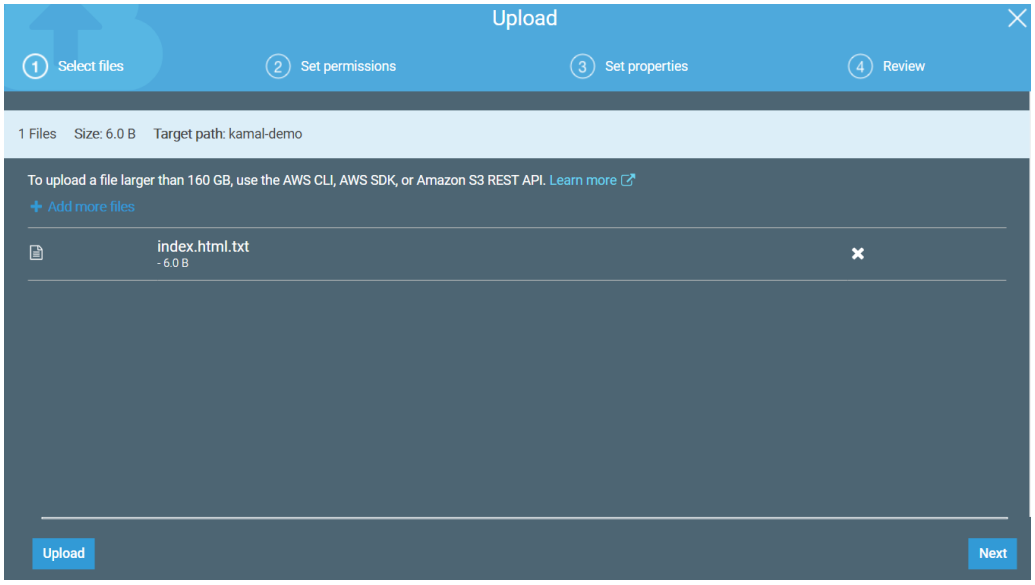


2. Uploading an Object

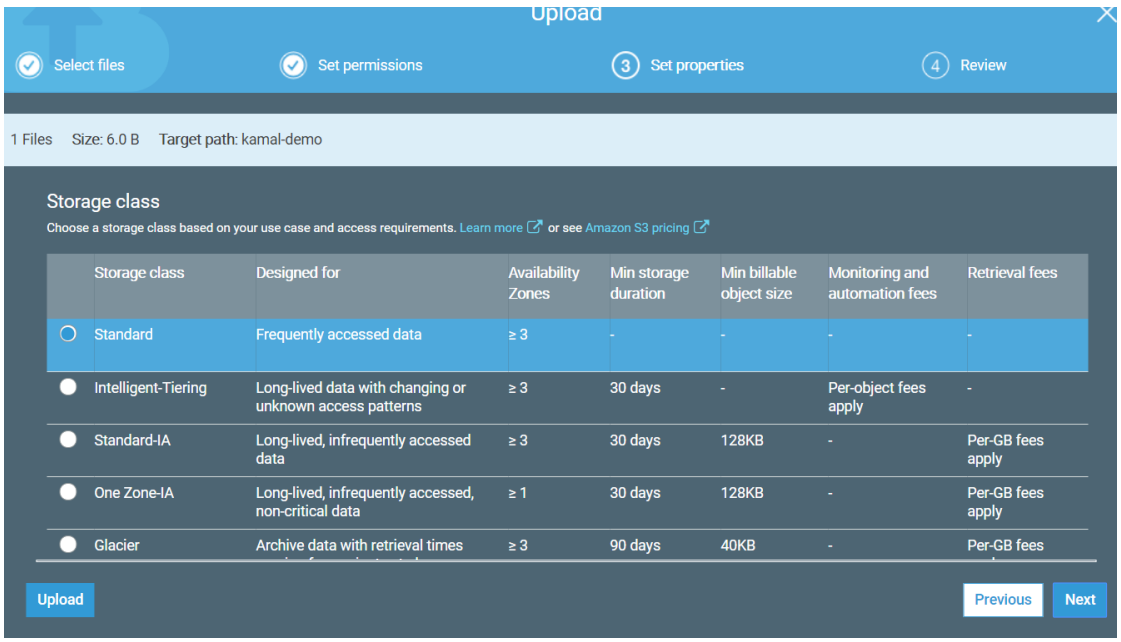




Upload a file

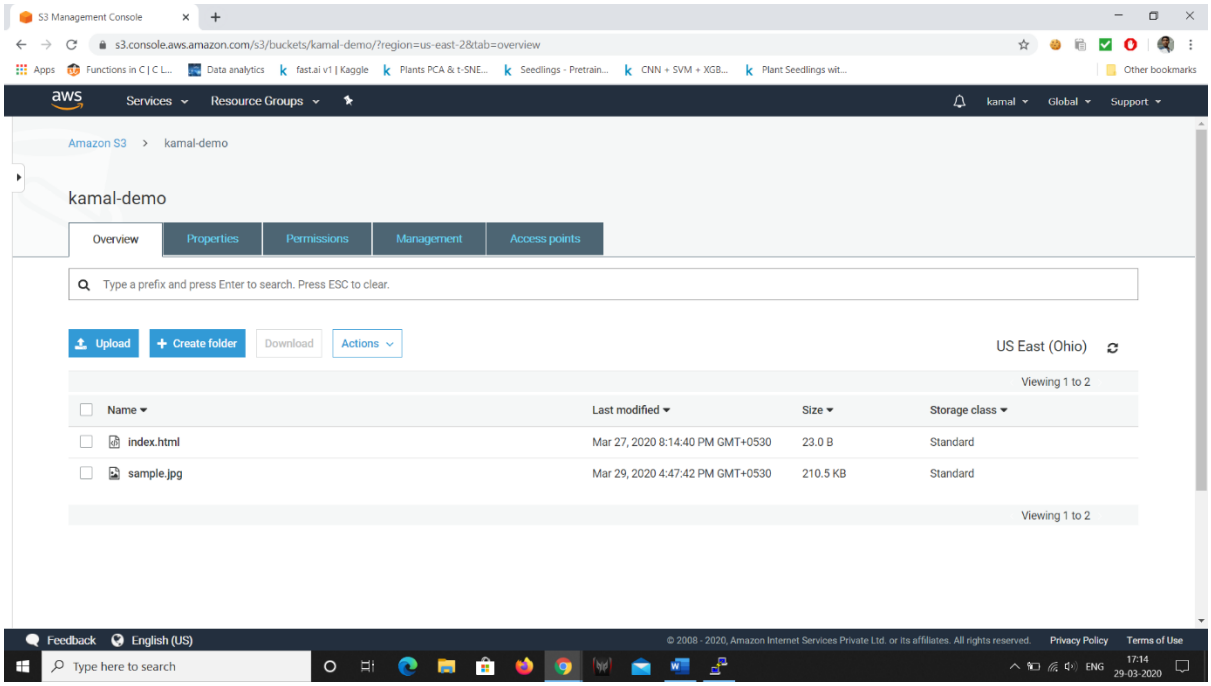


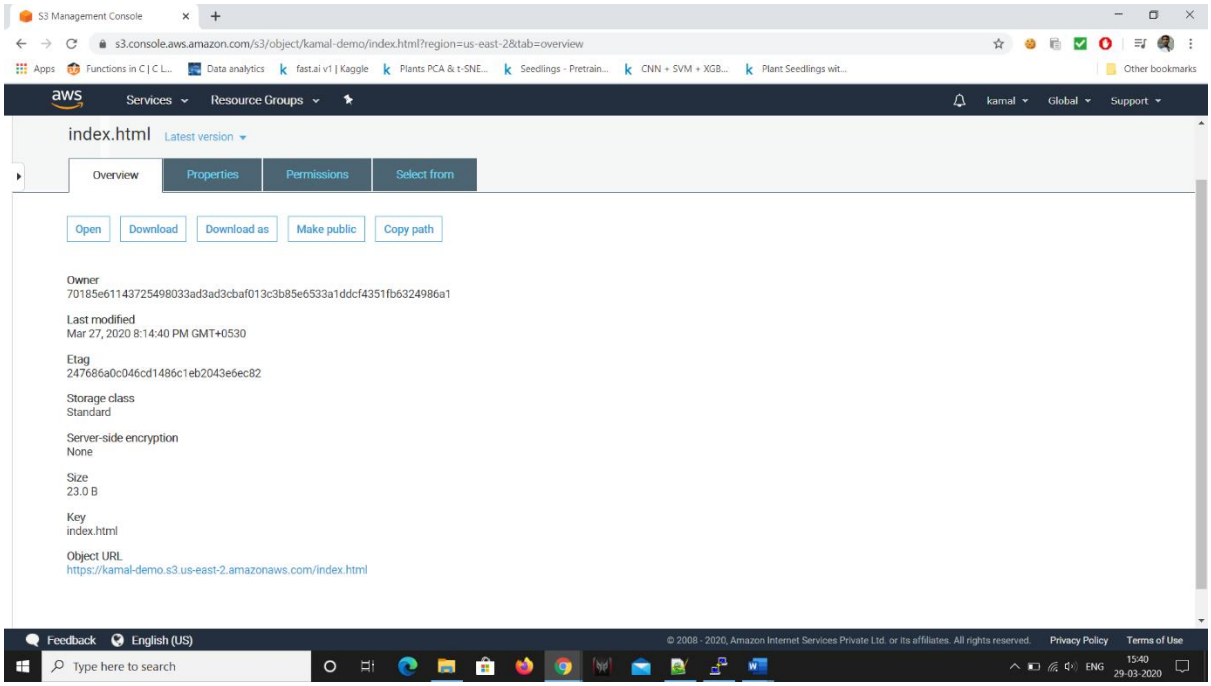
Click on next And make sure that it should be on standard



Click next and click upload not change anything

The uploaded file looks like

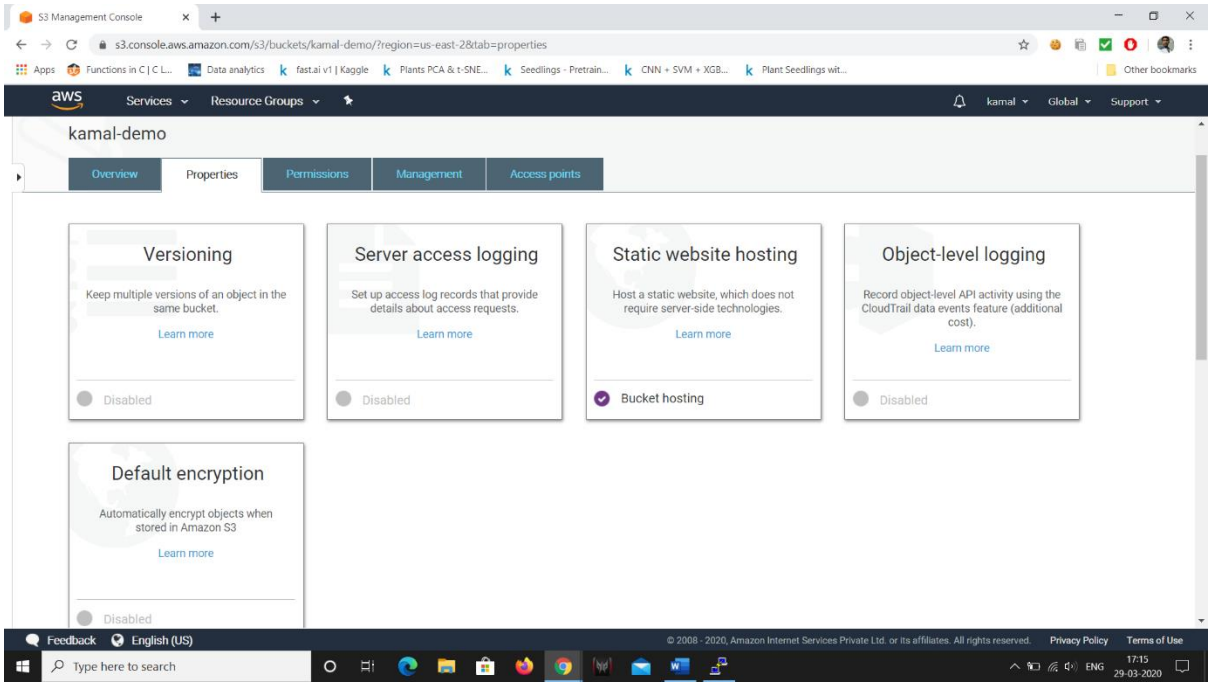




Press make public.

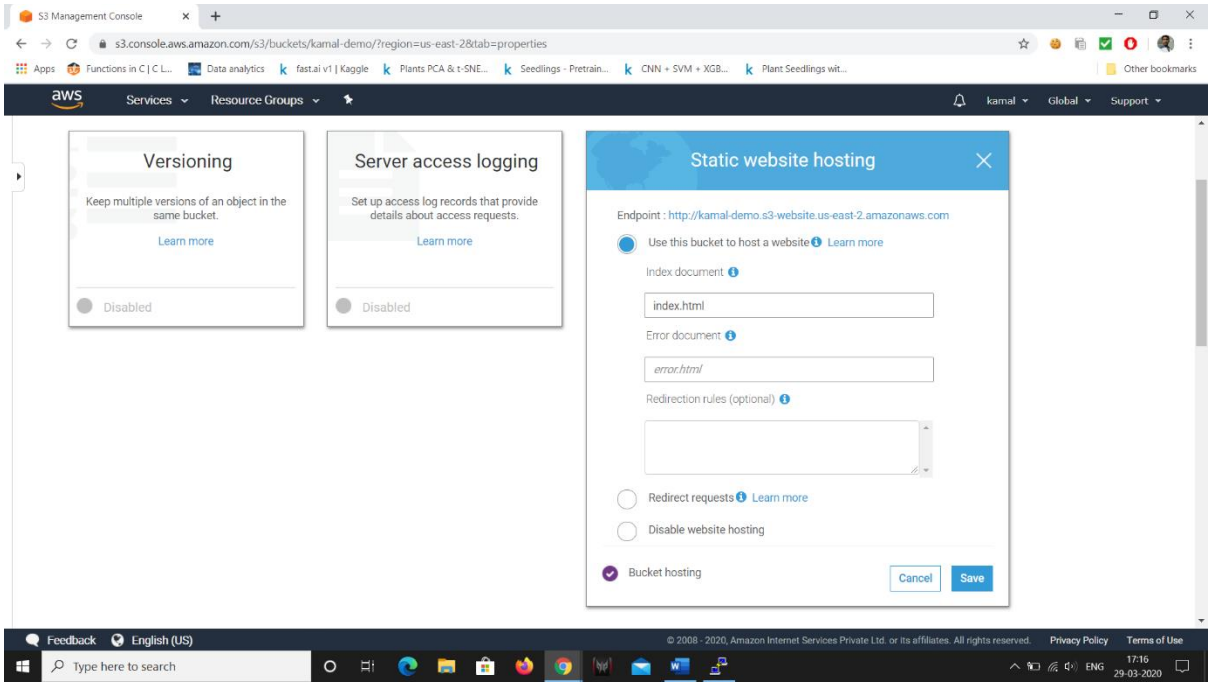
3. Enabling Static Website

Go to properties



Click on Static website

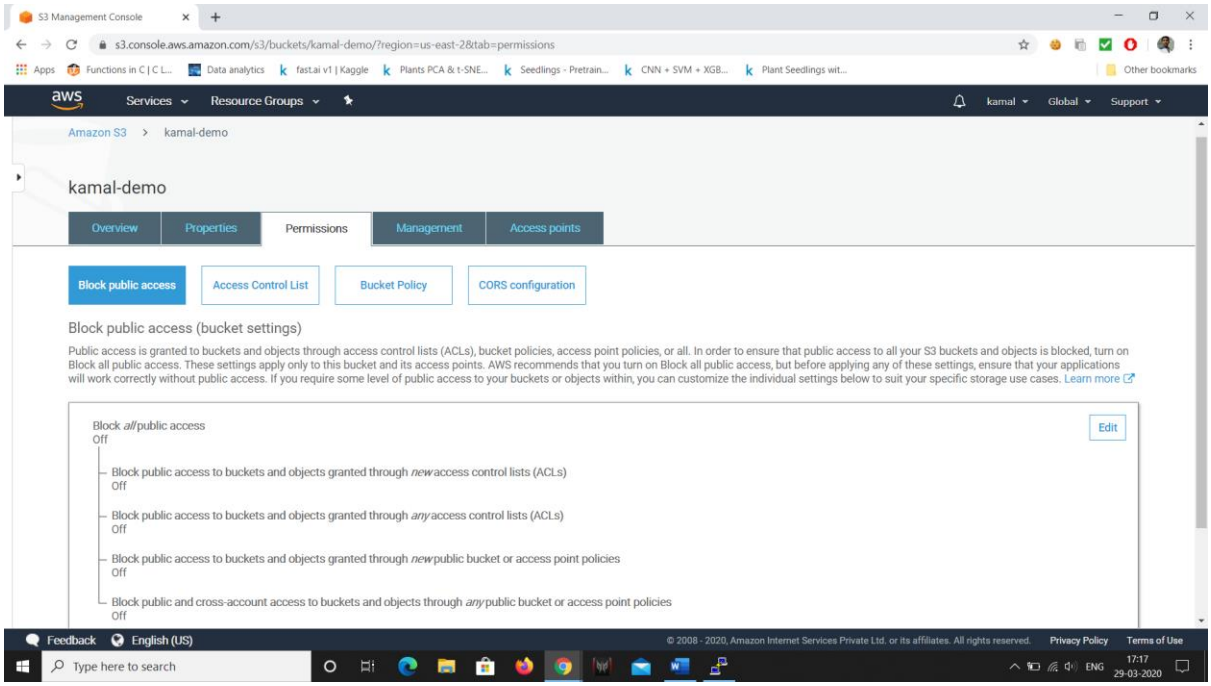
And go to bucket to host a website and save



4. Making the Object Public

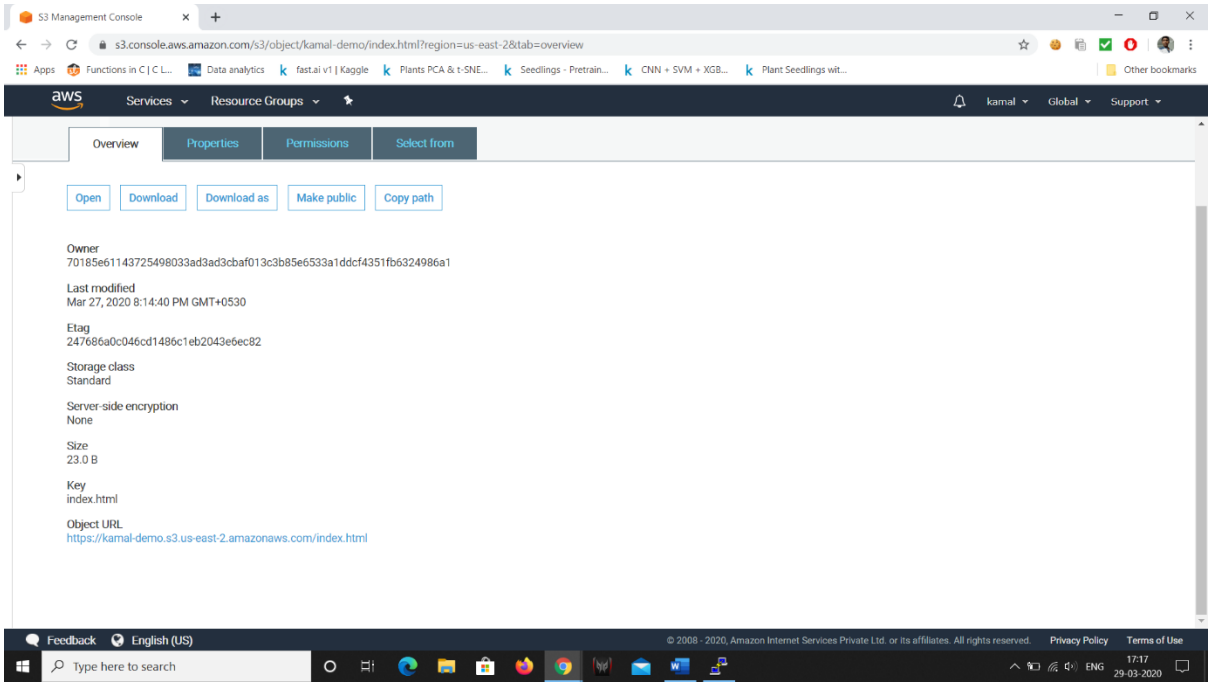
Go to permissions and click on edit

Off the block all public access



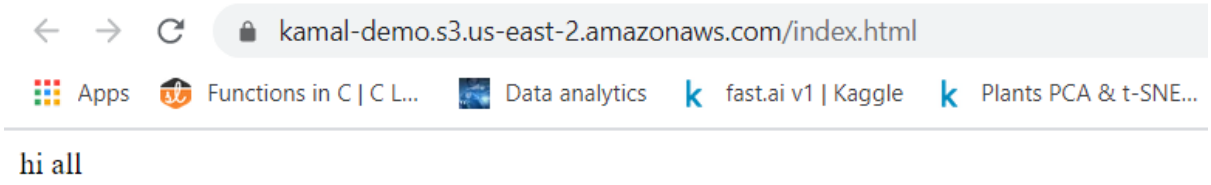
Go to overview and click on object and click on make public

5. Checking the S3 link on the browser



And click on URL at bottom it show the what is there in file.

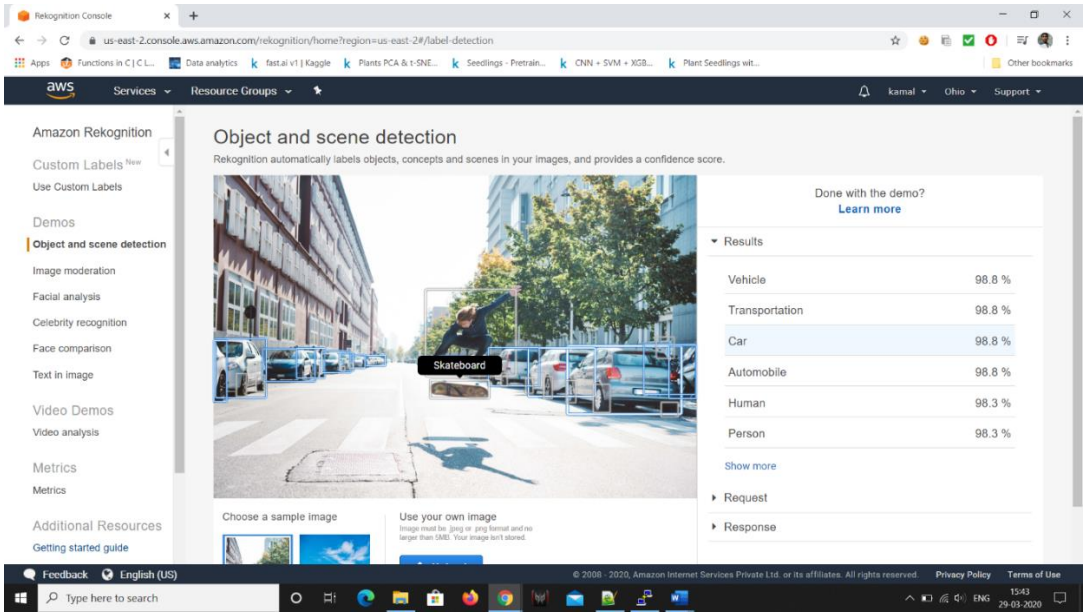
Or go to properties click on website hosting there you find a enpoint



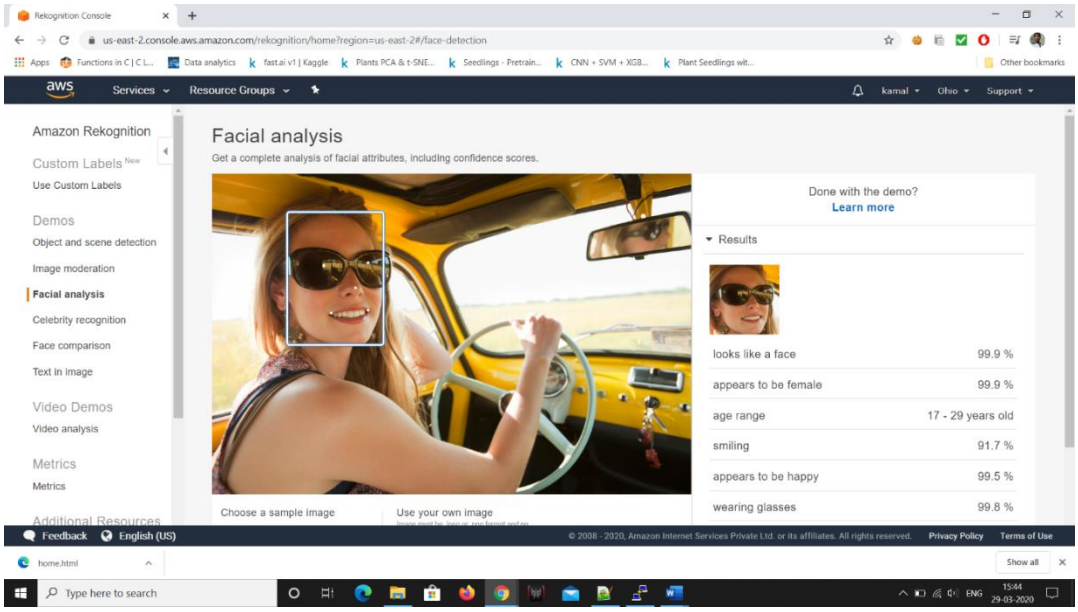
hi all

Screenshots of Rekognition:

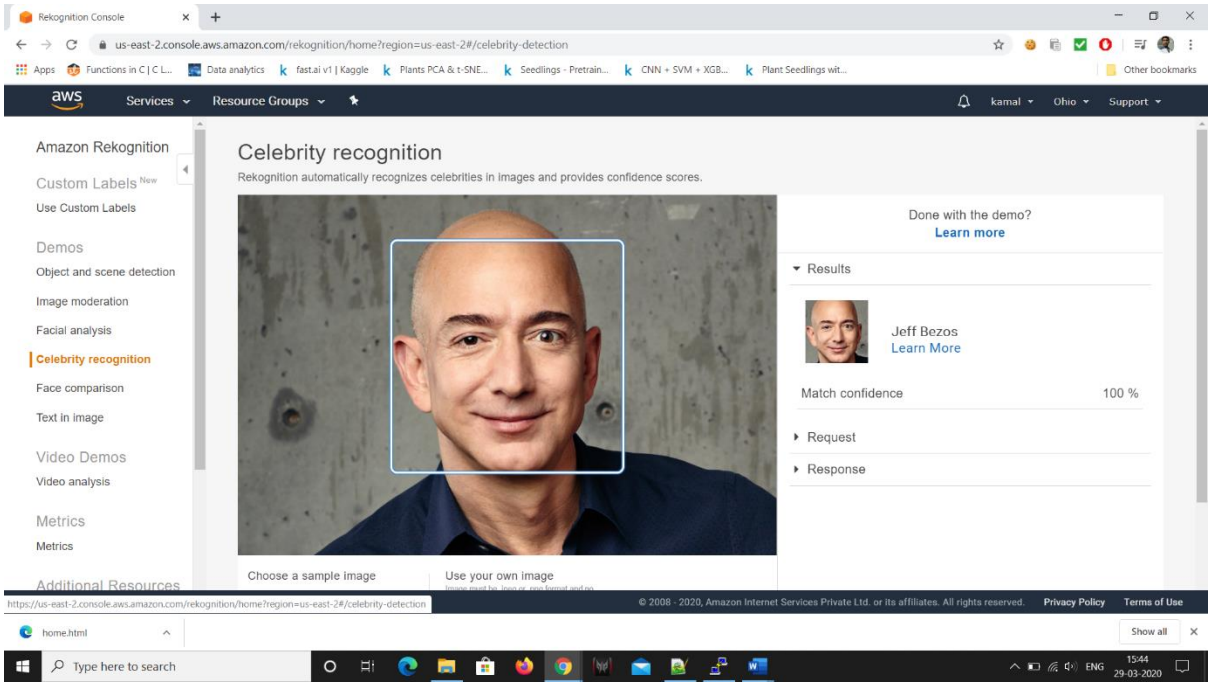
1. Object and Scene detection



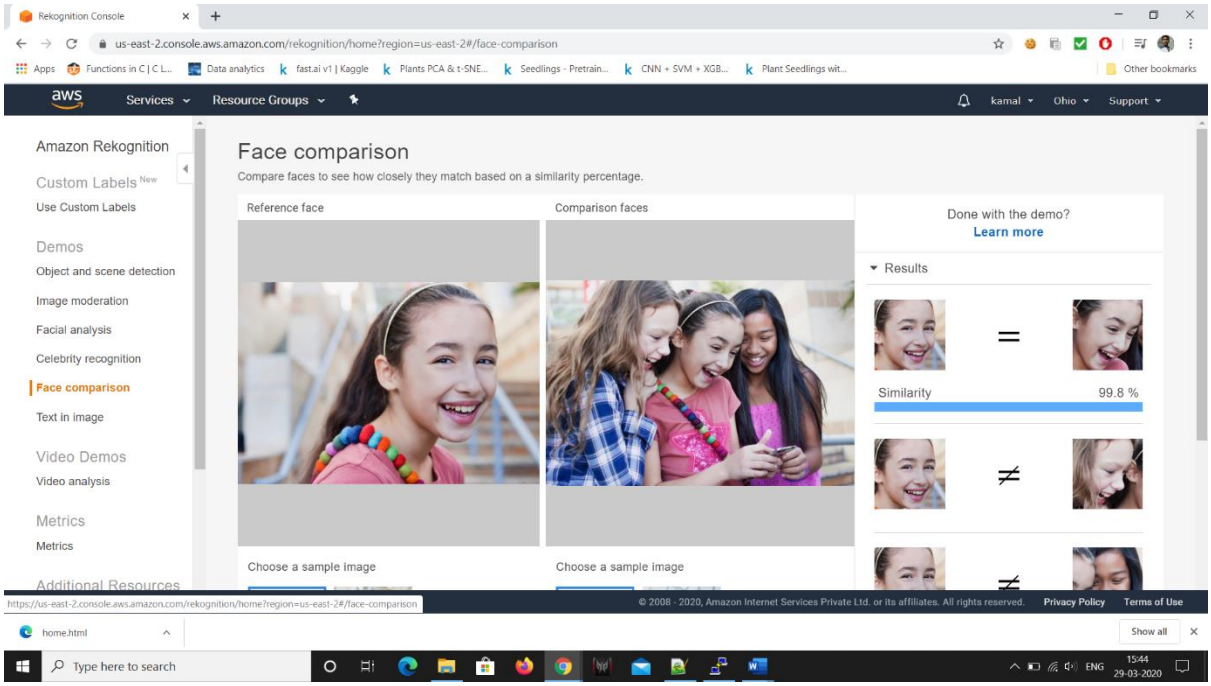
2. Face Detect



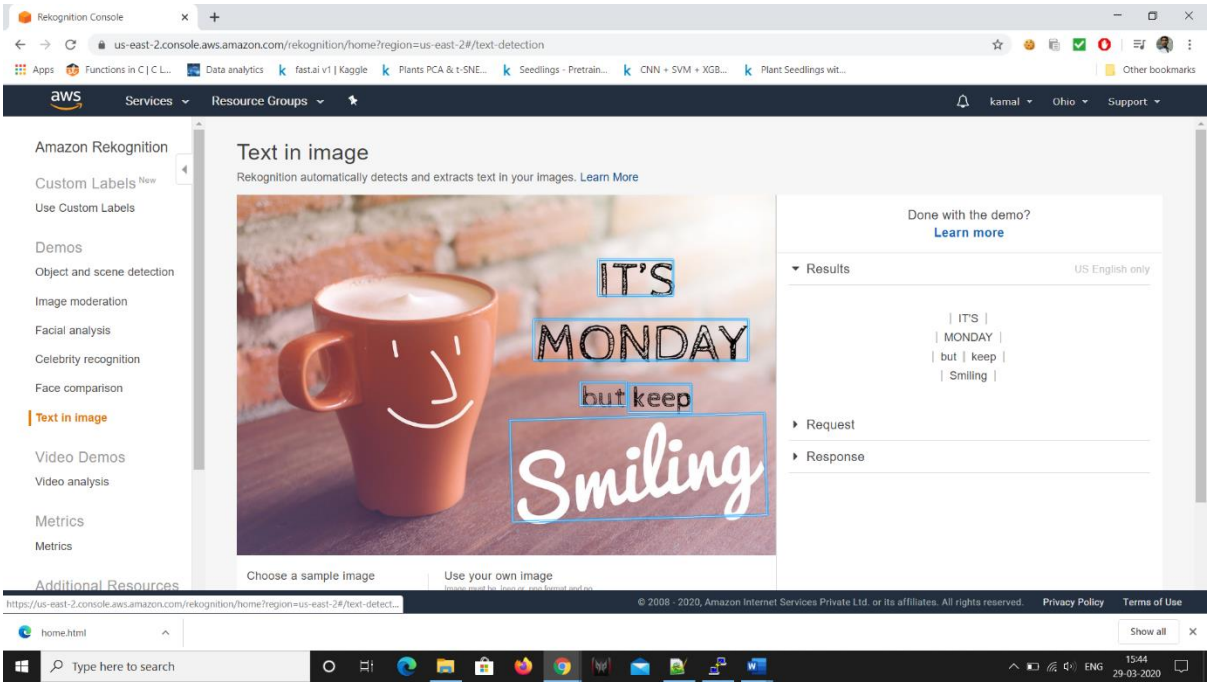
3. Celebrity Recognition



4. Face Compare



5. Text in Image



IAM:

Success

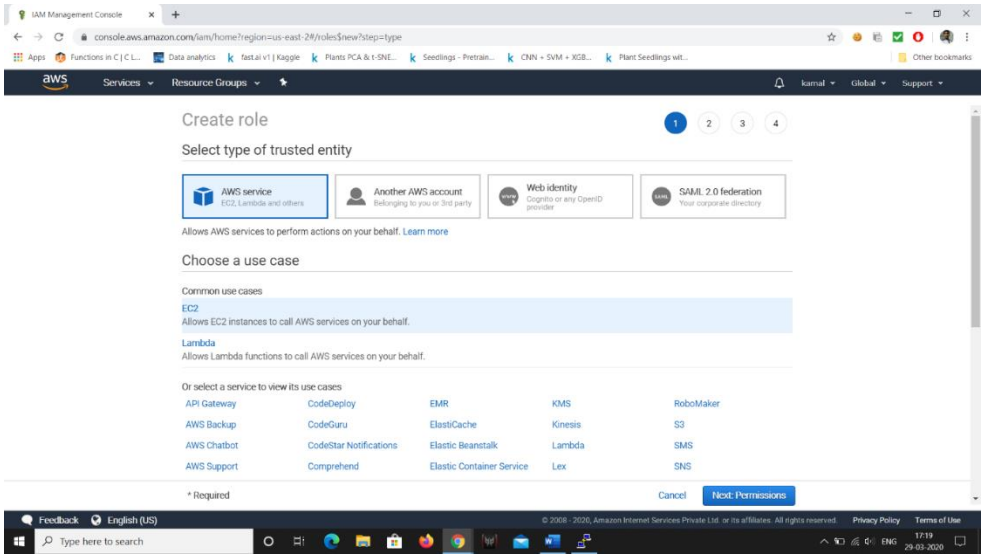
You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

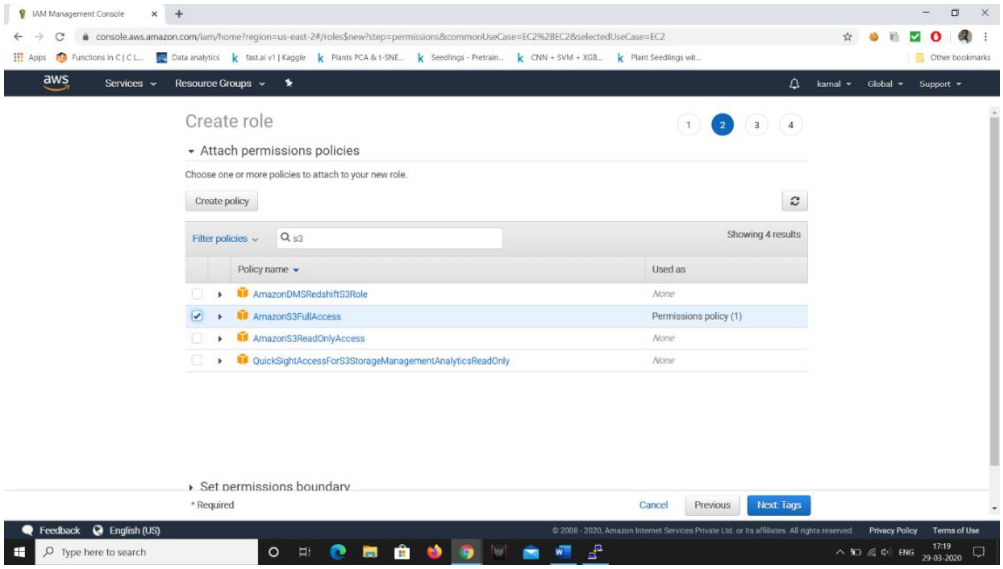
Users with AWS Management Console access can sign-in at: https://748938868313.signin.aws.amazon.com/console

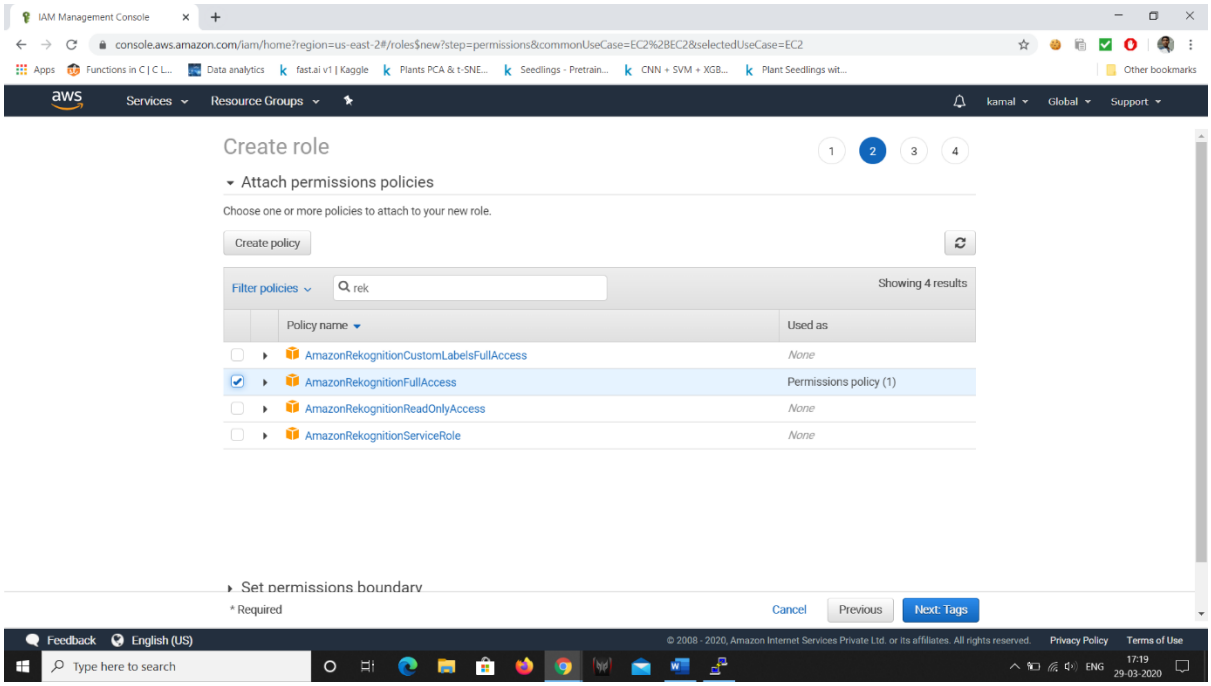
Download .csv

		User	Access key ID	Secret access key	Password	Email login instructions
▸	✓	kamal	AKIA24YB4GZMZIS6FI5C	/IwzKNy8DLTvdliA6LAD7jt8a GUjERehDYnQwc9l Hide	FSH|m%W&aJwU Hide	Send email

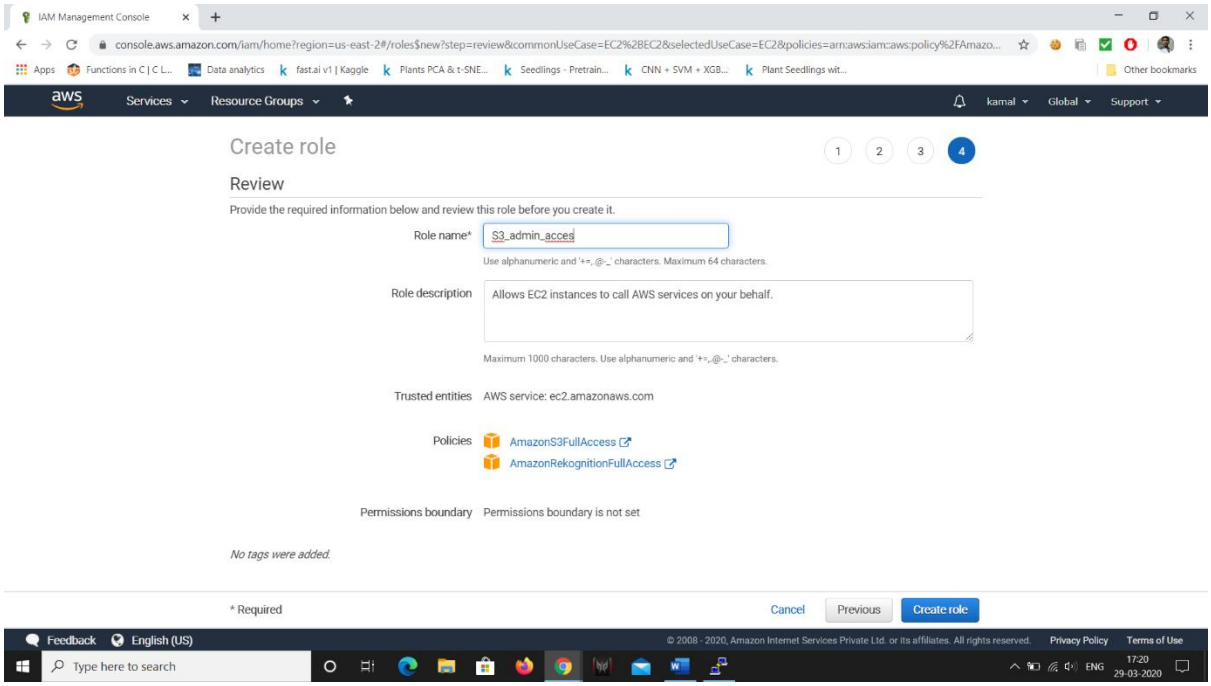
Create a IAM role





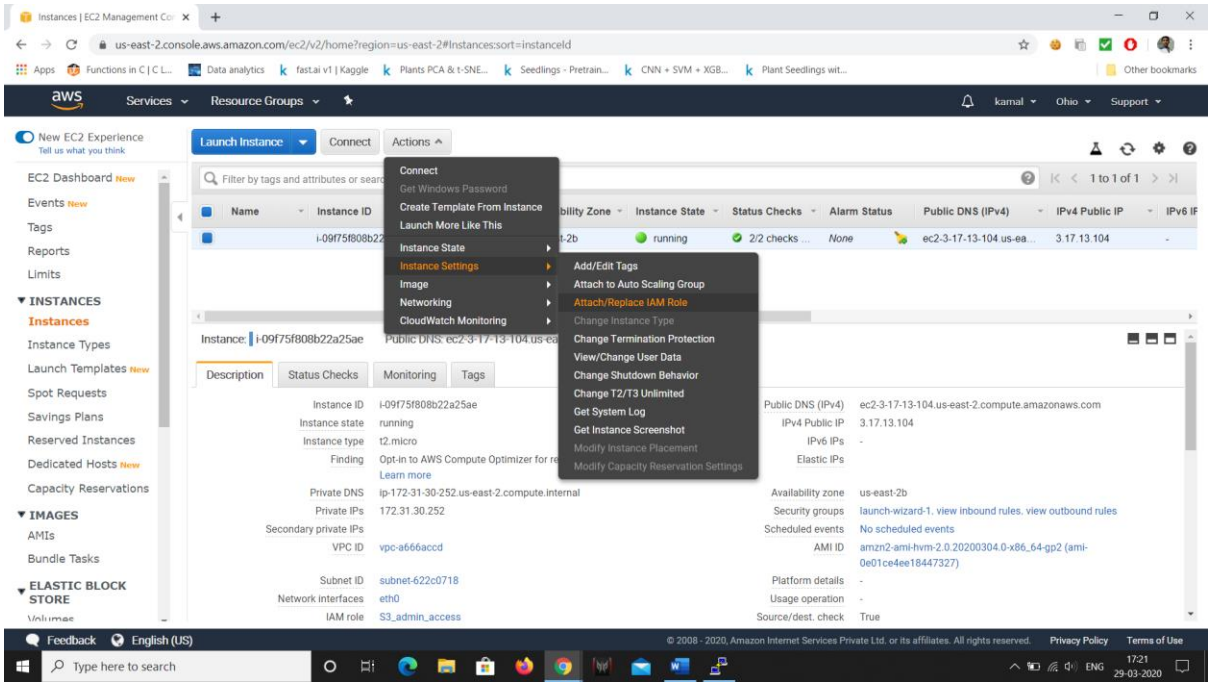


Ignore tags and

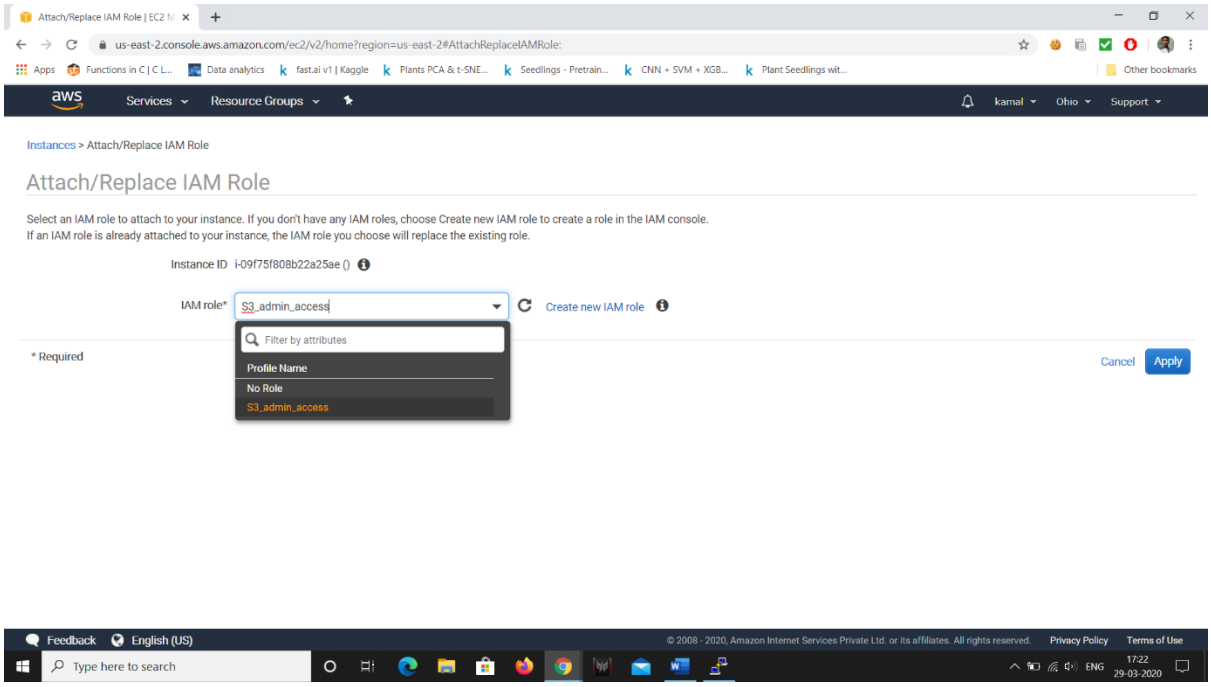


Create role .

Go to EC2 and running instatnce and attach/Replace IAM Role



Select the role and press apply



Screenshots needed for EC2 & S3:

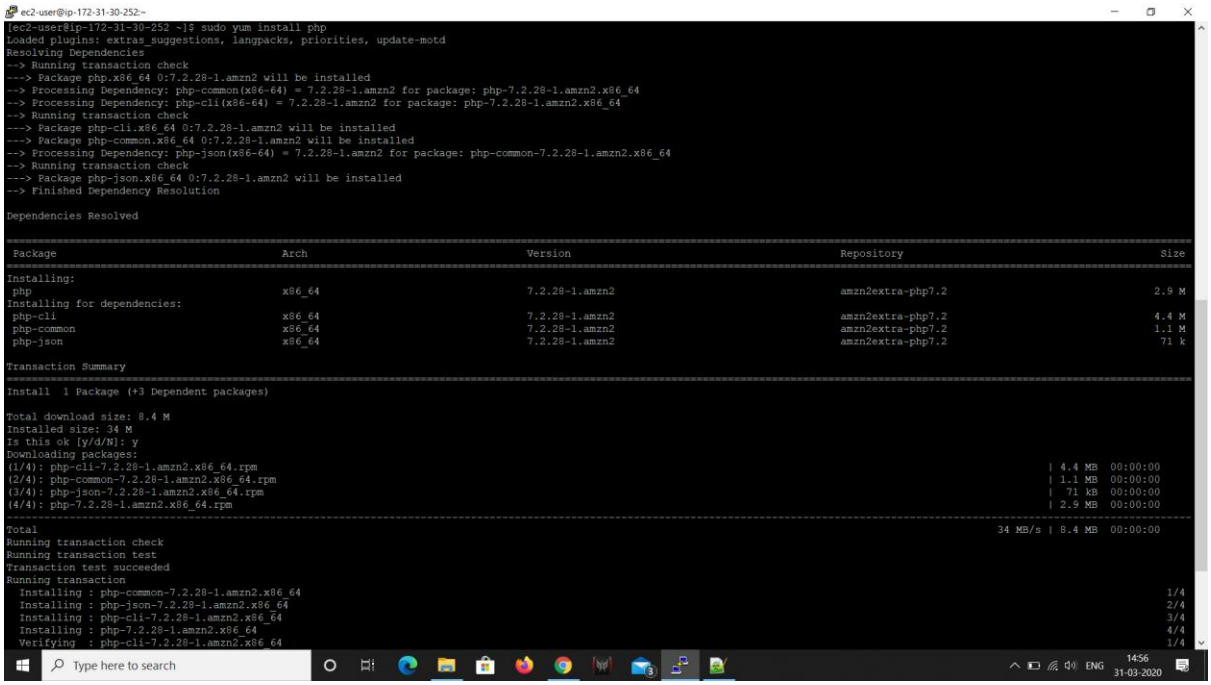
1. **Installing aws-sdk**

   sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php

```
[ec2-user@ip-172-31-30-252 html]$ cd face
[ec2-user@ip-172-31-30-252 face]$ sudo php -d memory_limit=-1 ~/composer.phar re
quire 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/gu
zzle instead.
Generating autoload files
```

2. **Installing php**

   sudo yum install php



3. **index.php file code**

   <?php

   /*

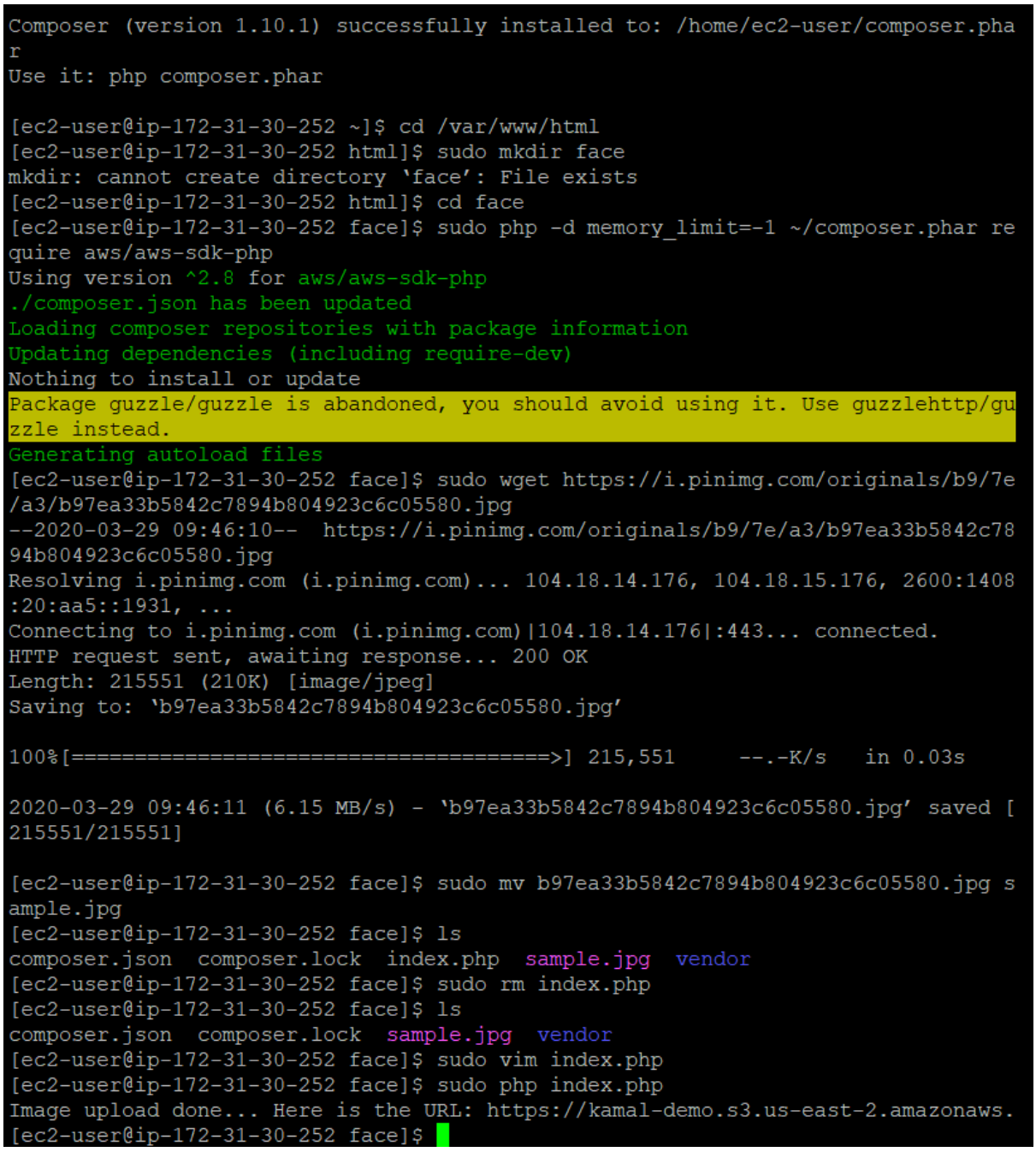
   Install php - sudo yum install php
   curl -sS https://getcomposer.org/installer | php
   cd /var/www/html

```
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

Incase if you are getting any class NOT found error, follow these steps

sudo yum remove php*
sudo yum remove httpd*
sudo yum clean all
sudo yum upgrade -y
sudo amazon-linux-extras install php7.2
sudo yum install php-json php-xml php-cli php-mbstring
sudo yum install httpd

*/
// error_reporting(0);

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

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


$bucket = 'kamal-demo';
$keyname = 'sample.jpg';
```

```
$s3 = new S3Client([
        '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-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 screenshot



Screenshots of EC2 & Rekognition:

1. Face Detect success screenshot