

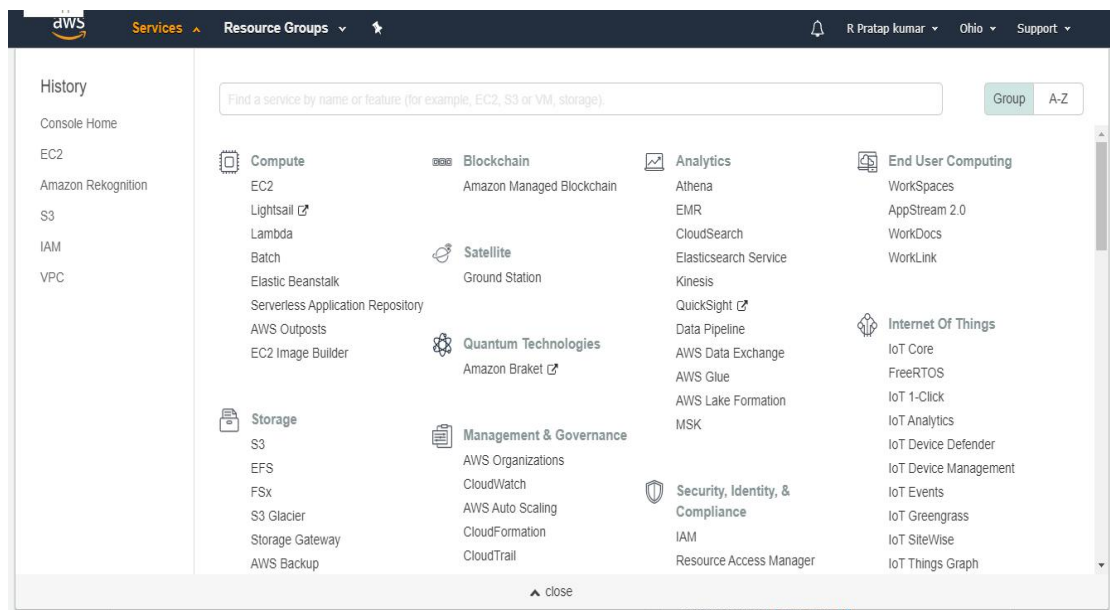
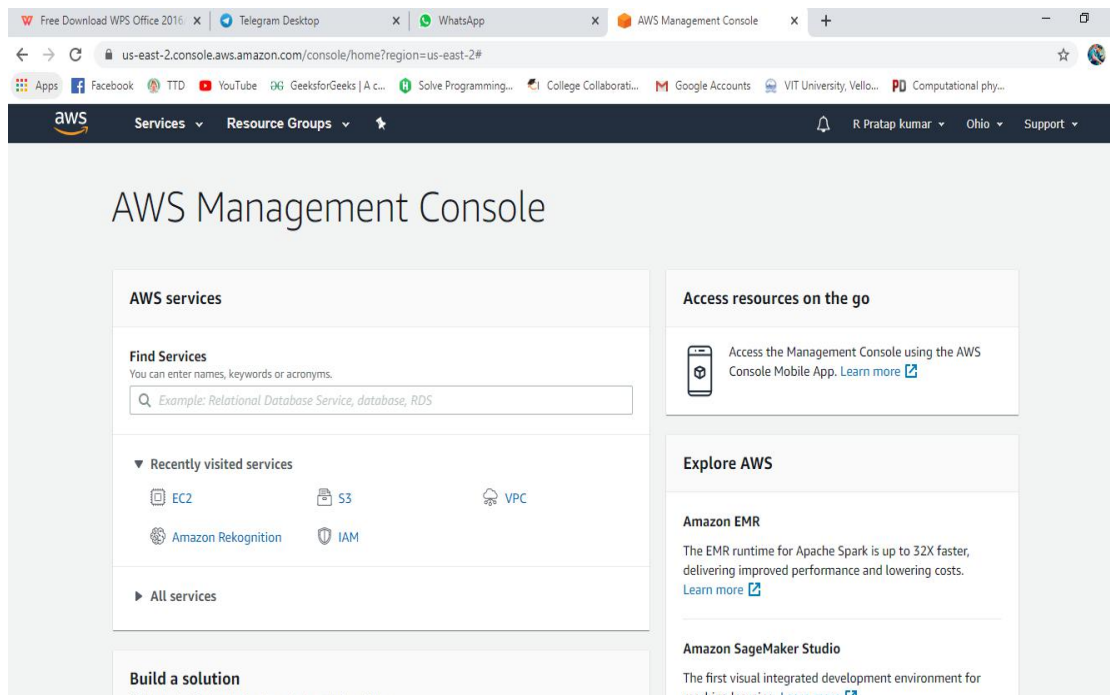
FACE DETECTION APP ON AWS

Name: R Pratap kumar

Screenshots

Screenshots needed for Dashboards

1. AWS Login screen with username



2. EC2 Dashboard

The screenshot shows the AWS EC2 Dashboard. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile 'R Pratap kumar' in the 'Ohio' region. A blue banner at the top right says 'Welcome to the new EC2 console!'. On the left, a sidebar lists navigation options: 'New EC2 Experience', 'EC2 Dashboard New', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES' (with sub-items like 'Instances', 'Instance Types', 'Launch Templates', etc.), and 'IMAGES'. The main content area is titled 'EC2' and features a 'Resources' section with a table of counts for various EC2 resources in the 'US East (Ohio) Region'. To the right, there's an 'Account attributes' section with links to 'Supported platforms', 'Default VPC', 'Console experiments', and 'Settings'. At the bottom, there's a footer with 'Feedback', 'English (US)', and copyright information.

Resources	
Running instances	2
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	2
Load balancers	0
Key pairs	2
Security groups	3
Placement groups	0

This screenshot shows the 'Instances' page in the AWS EC2 console. The top navigation bar is the same as the previous image. The left sidebar is also the same. The main content area has a 'Launch Instance' button and a 'Filter by tags and attributes or search by keyword' search bar. Below the search bar is a table listing two running EC2 instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public DNS (IPv4). Below the table, there's a message 'Select an instance above' and a pagination bar showing '1 to 2 of 2'.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	i-009c2a9dd71c84bac	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-3-15-205-14.us-east-2.amazonaws.com
	i-07df7549c99e8ae36	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-3-16-89-249.us-east-2.amazonaws.com

3. S3 Dashboard

The screenshot shows the Amazon S3 console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and user information 'R Pratap kumar'. A blue notification banner at the top states: 'We're gradually updating the design of the Amazon S3 console. You will notice some updated screens as we improve the performance and user interface. To help us improve the experience, [give feedback](#) on the recent updates.' The left sidebar contains links for 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area is titled 'Amazon S3' and shows 'Buckets (1)'. It includes buttons for 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'. A search bar is labeled 'Find bucket by name'. Below is a table with one bucket:

	Name	Region	Access	Bucket created
	rpk12	US East (Ohio) us-east-2	Objects can be public	2020-03-29T15:24:55.000Z

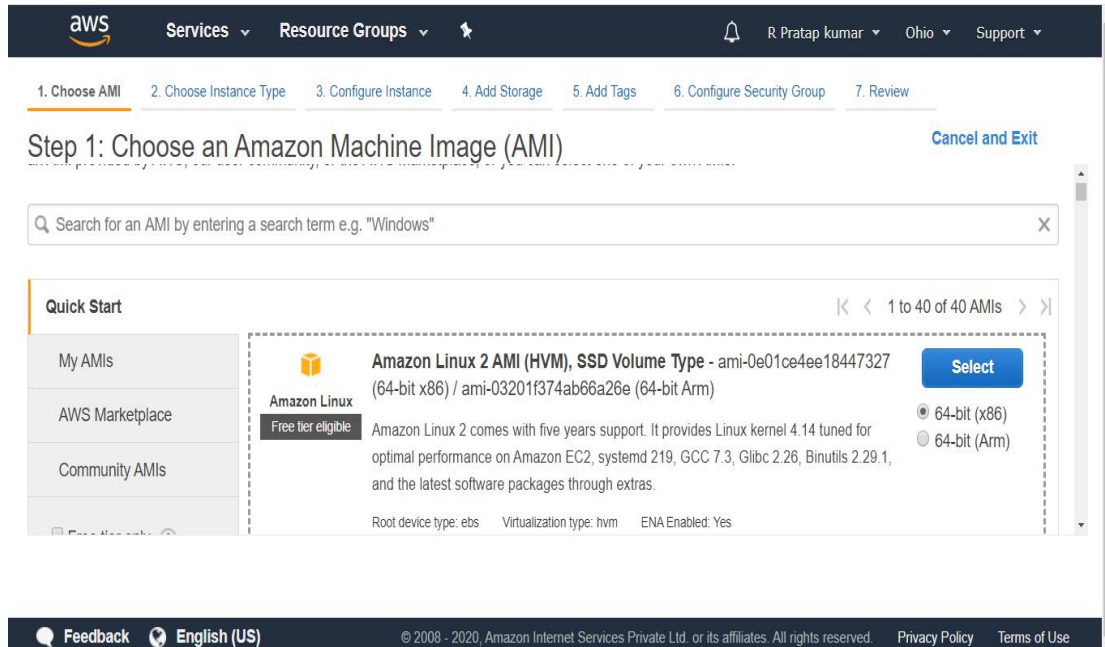
The footer contains 'Feedback', 'English (US)', and copyright information: '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

4. Rekognition Dashboard

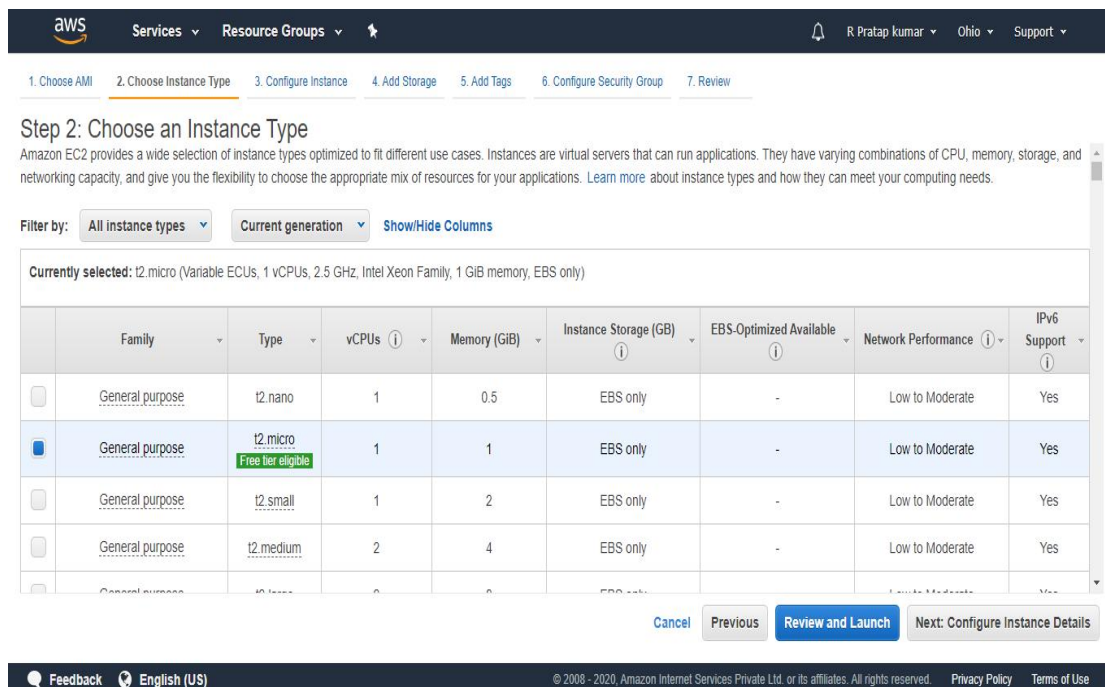
The screenshot shows the Amazon Rekognition dashboard. The top navigation bar is identical to the S3 dashboard. The left sidebar lists 'Amazon Rekognition' and various features: 'Custom Labels', 'Use Custom Labels', 'Demos' (Object and scene detection, Image moderation, Facial analysis, Celebrity recognition, Face comparison, Text in image), 'Video Demos' (Video analysis), and 'Metrics'. The main content area features a large hero section with the title 'Amazon Rekognition' and the description 'Deep learning-based visual analysis service. Search, verify, and organize millions of images and videos.' It includes 'Try Demo' and 'Download SDKs' buttons. Below the hero section are three columns with icons and text: 'Easily Integrate Powerful Visual Analysis into Your App', 'Continuously Learning' (Amazon Rekognition is designed to use), and 'Integrated with AWS Services' (Amazon Rekognition is designed to work). The footer is the same as the S3 dashboard.

Screenshots needed for EC2

1. Choosing an AMI



2. Choosing an Instance Type



3. Adding Storage

aws

Services

Resource Groups

R Pratap kumar

Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-0f54692056aaa4c20	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel

Previous

Review and Launch

Next: Add Tags

Feedback

English (US)

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4. Configuring Security Group

aws

Services

Resource Groups

R Pratap kumar

Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:

Create a new security group

Select an existing security group

Security group name:

launch-wizard-3

Description:

launch-wizard-3 created 2020-03-31T13:41:01.098+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel

Previous

Review and Launch

Feedback

English (US)

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Students login proced... CodeVIT Your Request For Acces... EC2 Management Cons... 3.15.205.14 https port number - Go

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#SecurityGroups:group-id=sg-0178dce765168ceb3;sort=group-id

Apps Gmail YouTube Maps

aws Services Resource Groups R Pratap kumar Ohio Support

New EC2 Experience Tell us what you think

EC2 Dashboard New Events New Tags Reports Limits

INSTANCES Instances Instance Types Launch Templates New Spot Requests Savings Plans Reserved Instances Dedicated Hosts New Capacity Reservations

EC2 > Security Groups

Security Groups (1/1) Info

Filter security groups

Security group ID: sg-0178dce765168ceb3 X Clear filters

Security group ID Security group name VPC ID Description Owner

<input checked="" type="checkbox"/>	sg-0178dce765168ceb3	launch-wizard-1	vpc-391fca52	launch-wizard-1 create...	401467518493
-------------------------------------	----------------------	-----------------	--------------	---------------------------	--------------

sg-0178dce765168ceb3 - launch-wizard-1

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putty-64bit-0.73-i...msi Canceled rpik-key.pem Show all X

Type here to search

Students login proced... CodeVIT Your Request For Acces... EC2 Management Cons... 3.15.205.14 https port number - Go

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#SecurityGroups:groupId=sg-0178dce765168ceb3

Apps Gmail YouTube Maps

aws Services Resource Groups R Pratap kumar Ohio Support

New EC2 Experience Tell us what you think

EC2 Dashboard New Events New Tags Reports Limits

INSTANCES Instances Instance Types Launch Templates New Spot Requests Savings Plans Reserved Instances Dedicated Hosts New Capacity Reservations

Owner: 401467518493 Inbound rules count: 3 Permission entries Outbound rules count: 1 Permission entry

Inbound rules Outbound rules Tags

Inbound rules Edit inbound rules

Type	Protocol	Port range	Source	Description - optional
HTTP	TCP	80	0.0.0.0/0	-
HTTP	TCP	80	:::/0	-
SSH	TCP	22	0.0.0.0/0	-

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putty-64bit-0.73-i...msi Canceled rpik-key.pem Show all X

Type here to search

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information 'R Pratap kumar' from 'Ohio'. The left sidebar lists navigation options like 'EC2 Dashboard', 'Events', 'Tags', 'Reports', 'Limits', and 'INSTANCES'. The main content area displays a table of EC2 instances. One instance, 'i-009c2a9dd71c84bac', is highlighted, showing it is an 't2.micro' instance in the 'us-east-2c' availability zone, currently in a 'running' state. A modal window titled 'Security Groups associated with i-009c2a9dd71c84bac' is open, showing a table of security groups.

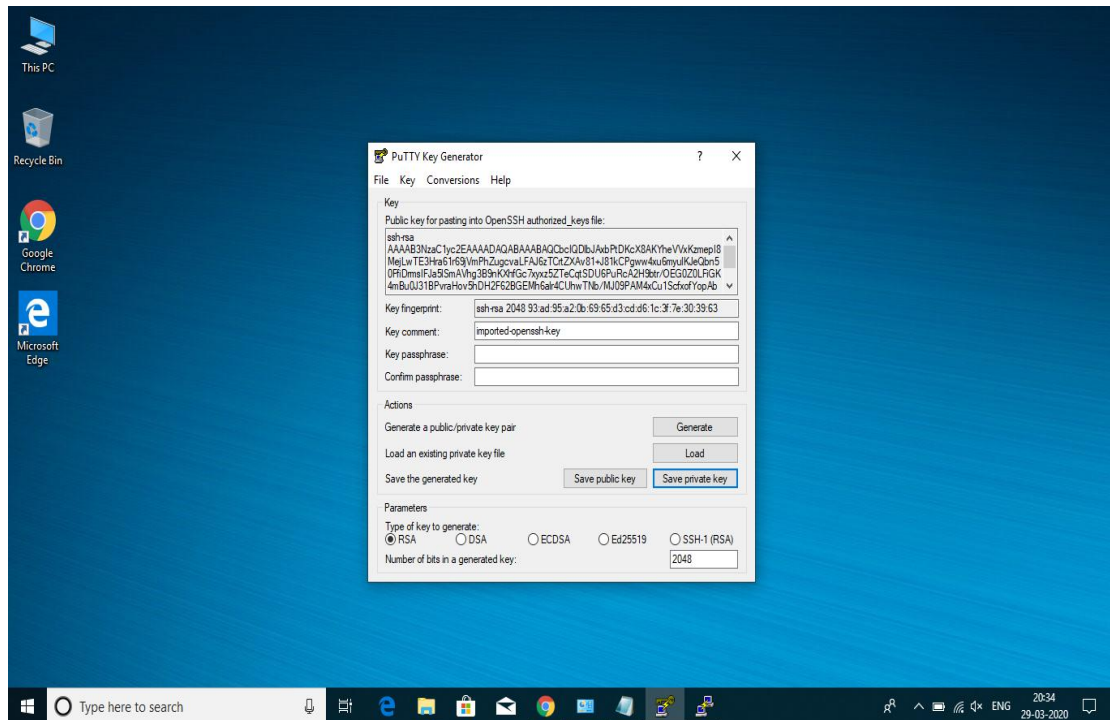
Ports	Protocol	Source	launch-wizard-1
80	tcp	0.0.0.0/0, ::/0	✓
22	tcp	0.0.0.0/0	✓

5. Key Pair Download

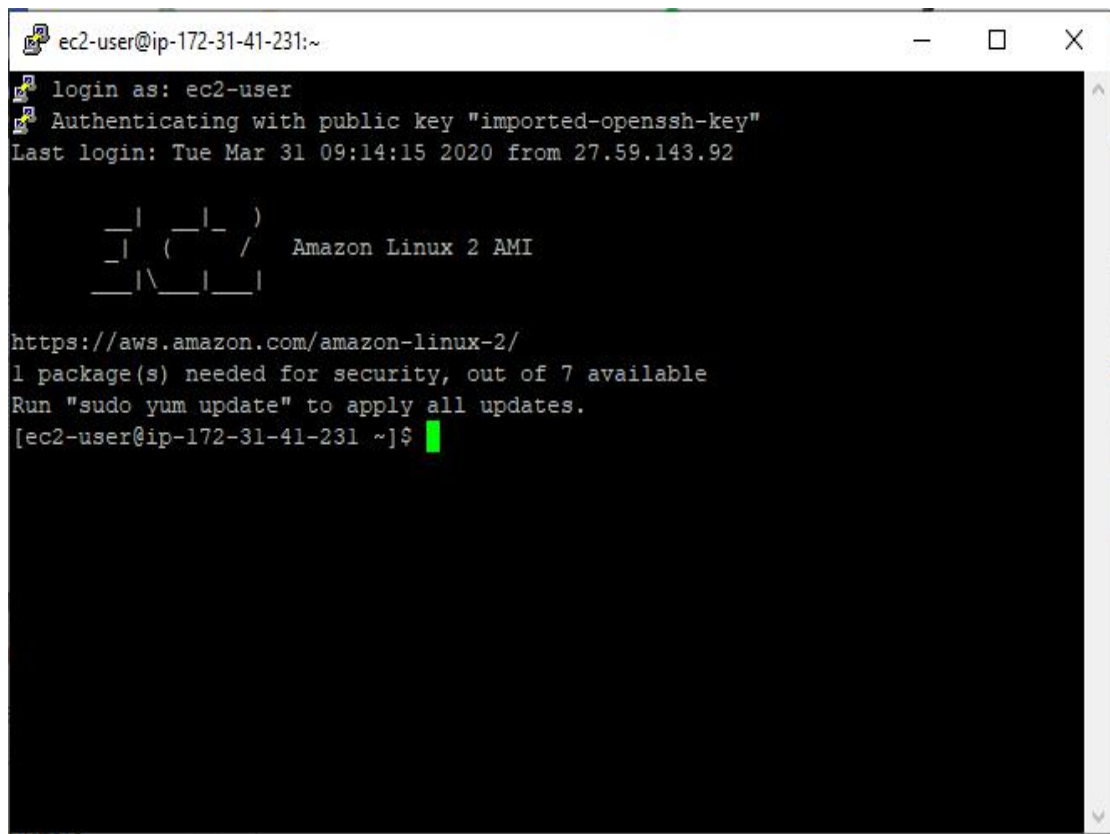
The screenshot shows a Windows File Explorer window with the address bar set to 'This PC > Downloads > face detection'. The left sidebar shows the 'Downloads' folder selected. The main pane displays a list of files in the 'face detection' folder:

Name	Date modified	Type	Size
putty-64bit-0.73-installer (1)	29-03-2020 19:52	Windows Installer ...	3,094 KB
rp1	29-03-2020 19:58	PuTTY Private Key...	2 KB
rp1.pem	30-03-2020 12:34	PEM File	2 KB
rp2	30-03-2020 12:41	PuTTY Private Key...	2 KB
rp2-key.pem	29-03-2020 19:22	PEM File	2 KB

6. PuTTYgen conversion from pem to ppk



7. Logged in EC2 black screen



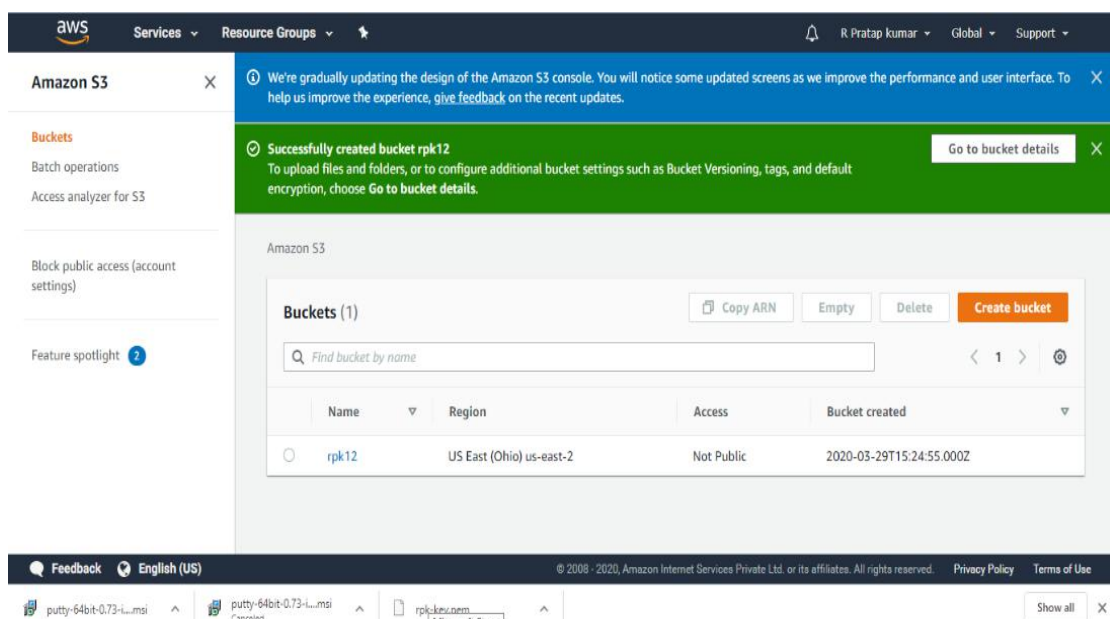

```
ec2-user@ip-172-31-41-81:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"

  _ _ | _ _ | _
  _ | ( _ _ | /   Amazon Linux 2 AMI
  _ _ | \ _ _ | _ _ |

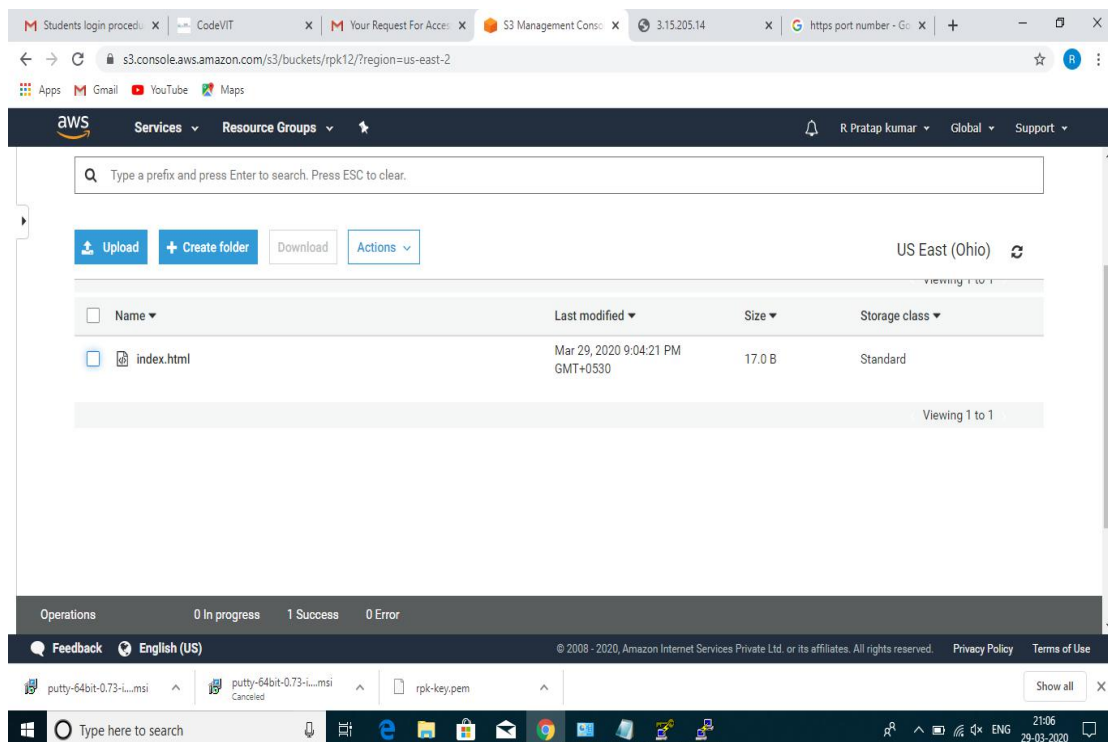
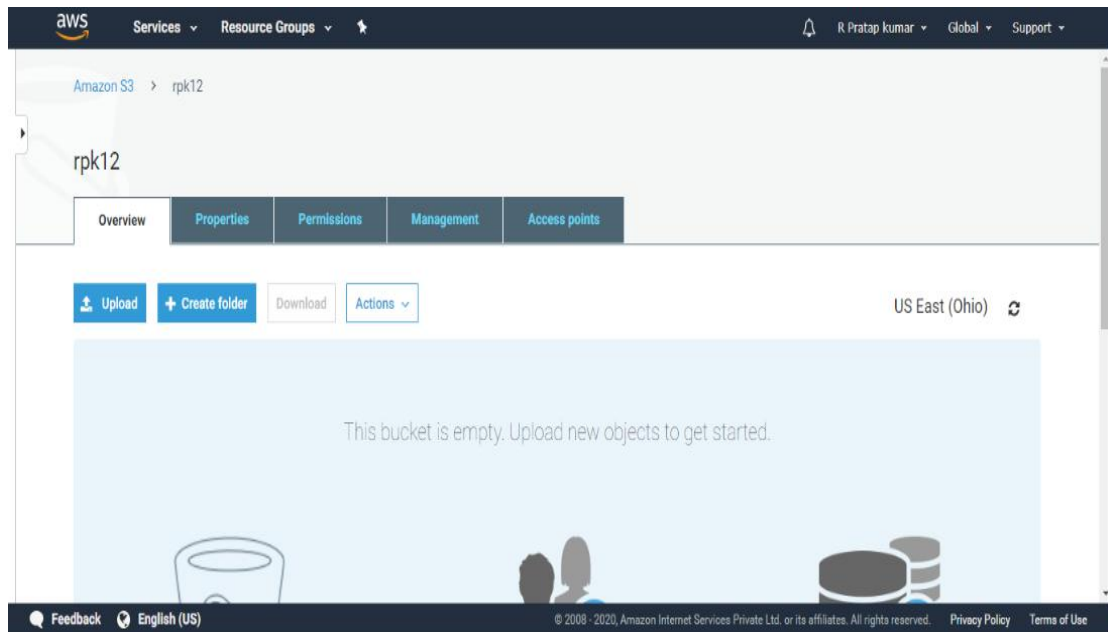
https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-41-81 ~]$ sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                | 2.4 kB      00:00
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.41-1.amzn2.0.1 will be installed
--> Processing Dependency: httpd-tools = 2.4.41-1.amzn2.0.1 for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.41-1.amzn2.0.1 for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.41-1.amzn2.0.1.x86_64
```

Screenshots needed for S3

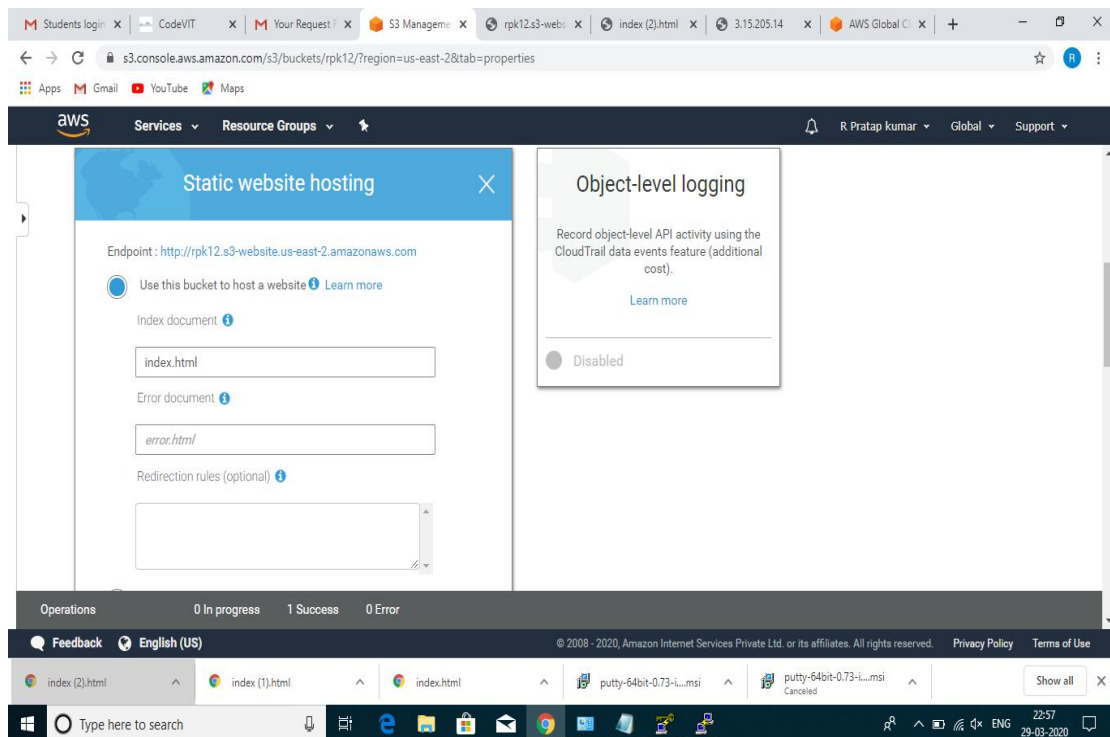
1. Creating a bucket



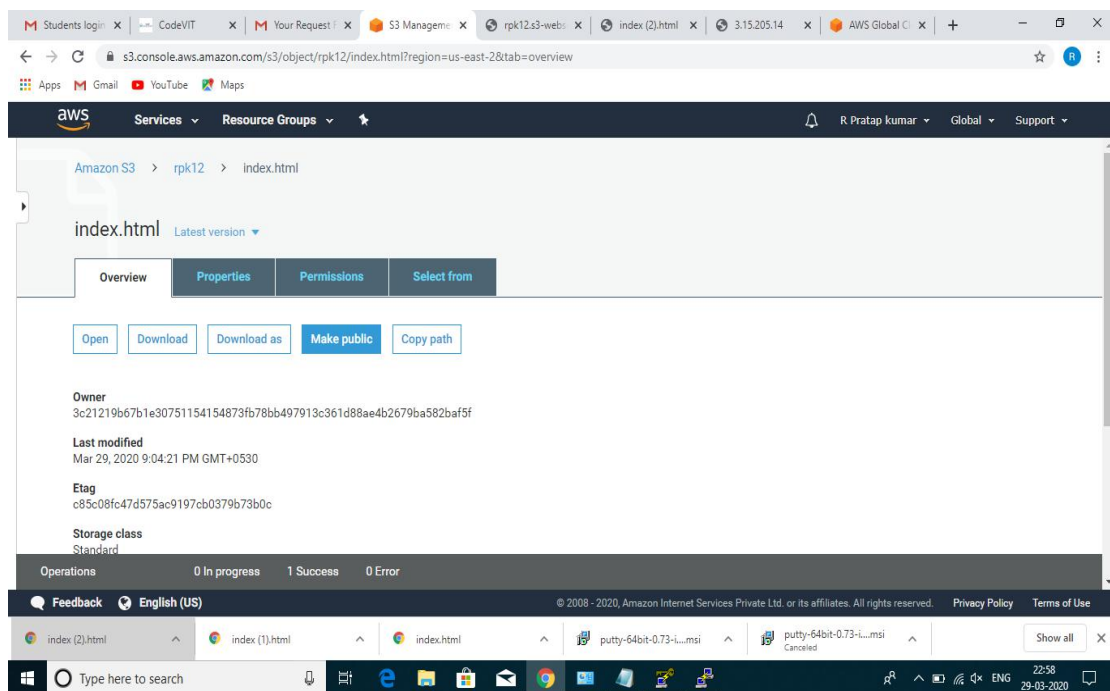
2. Uploading an Object



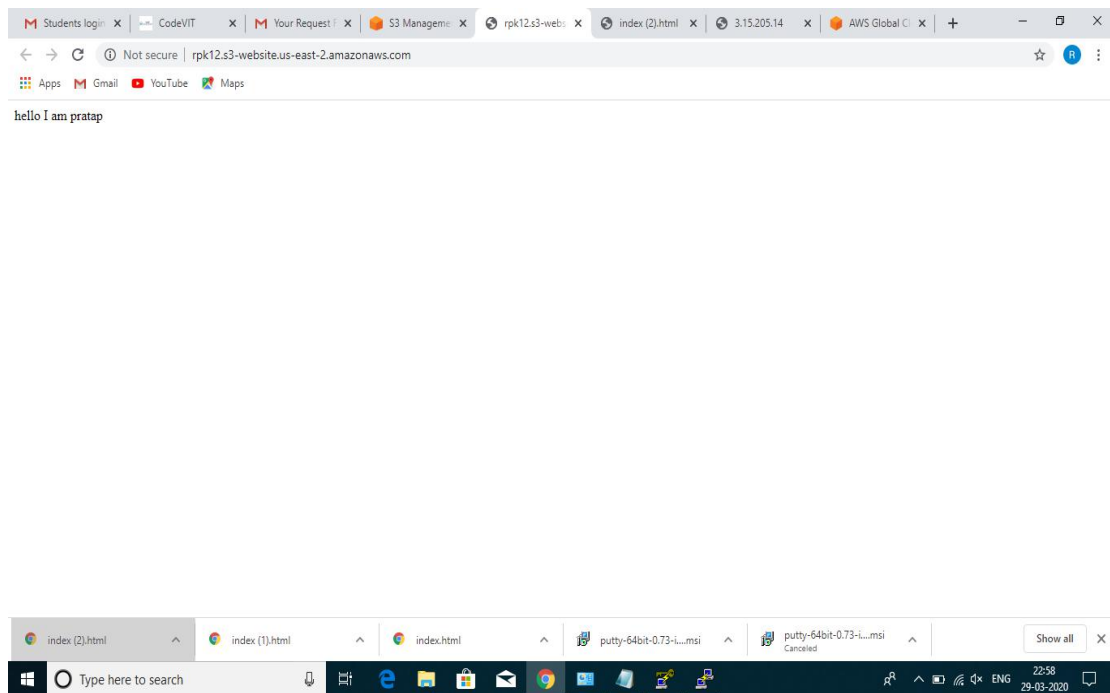
3. Enabling Static Website



4. Making the Object Public

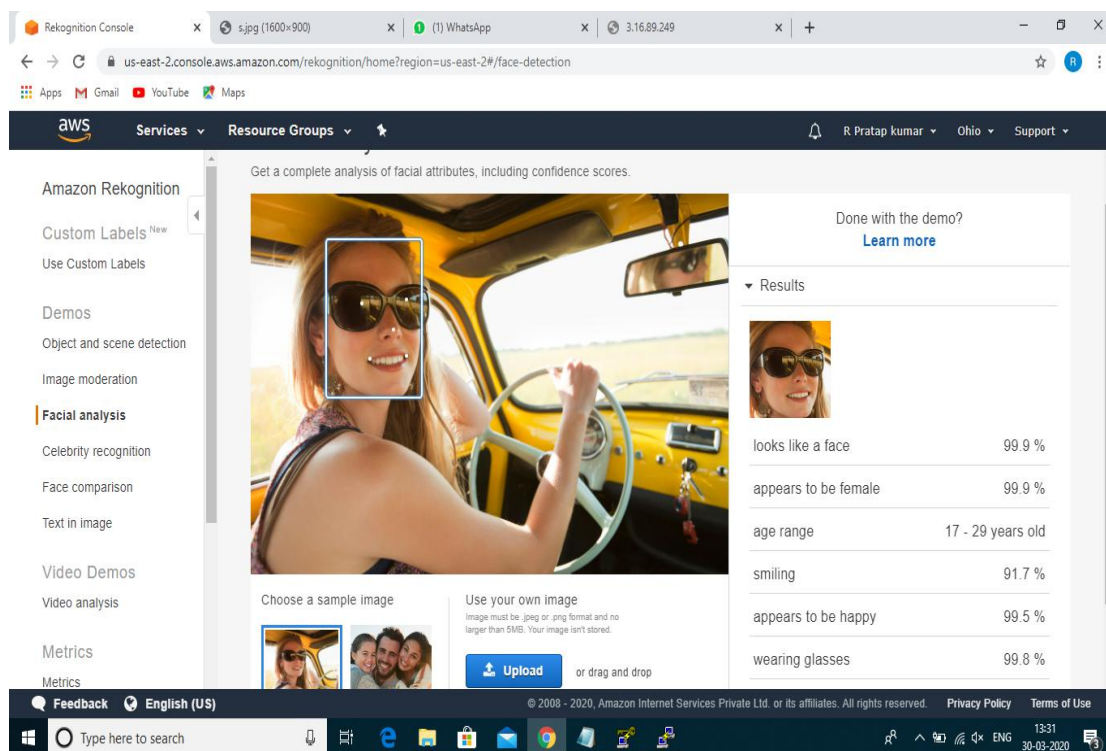


5. Checking the S3 link on the browser

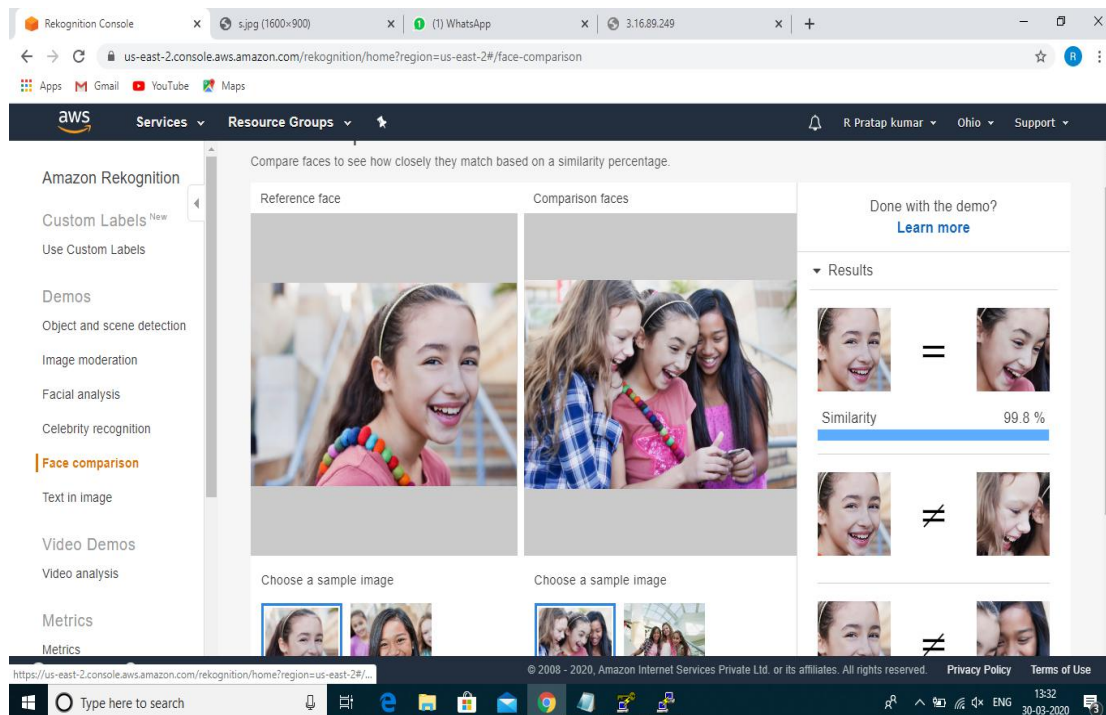


Screenshots needed for Rekognition

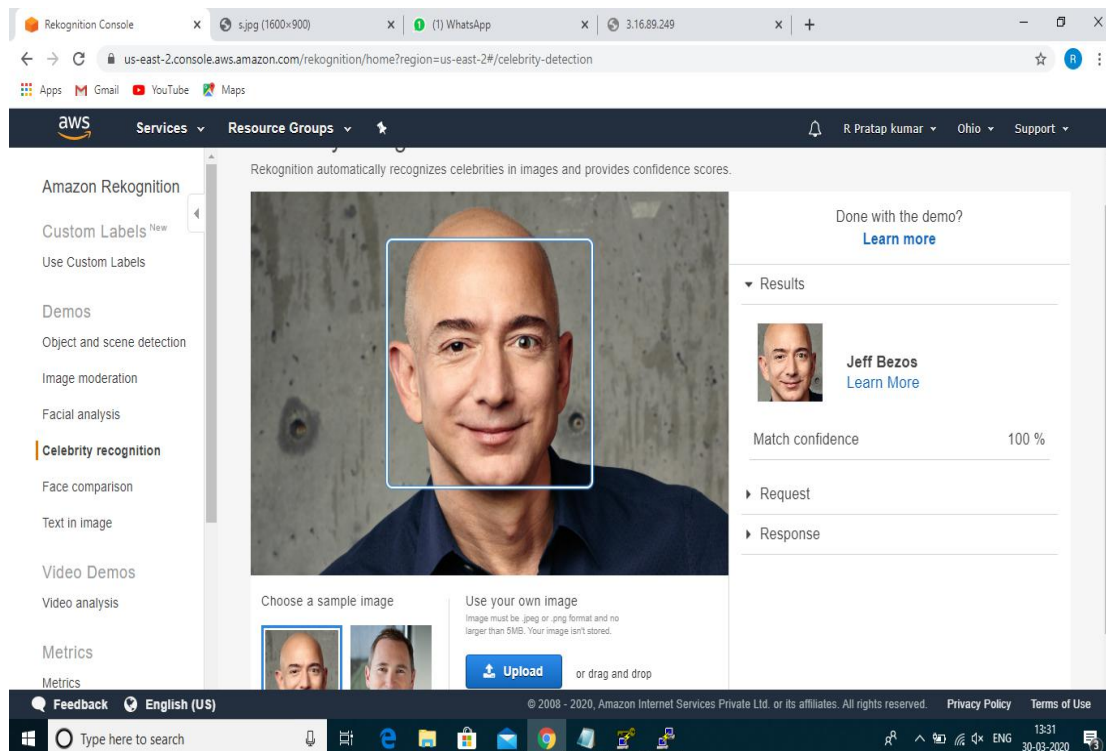
1. Face Detect



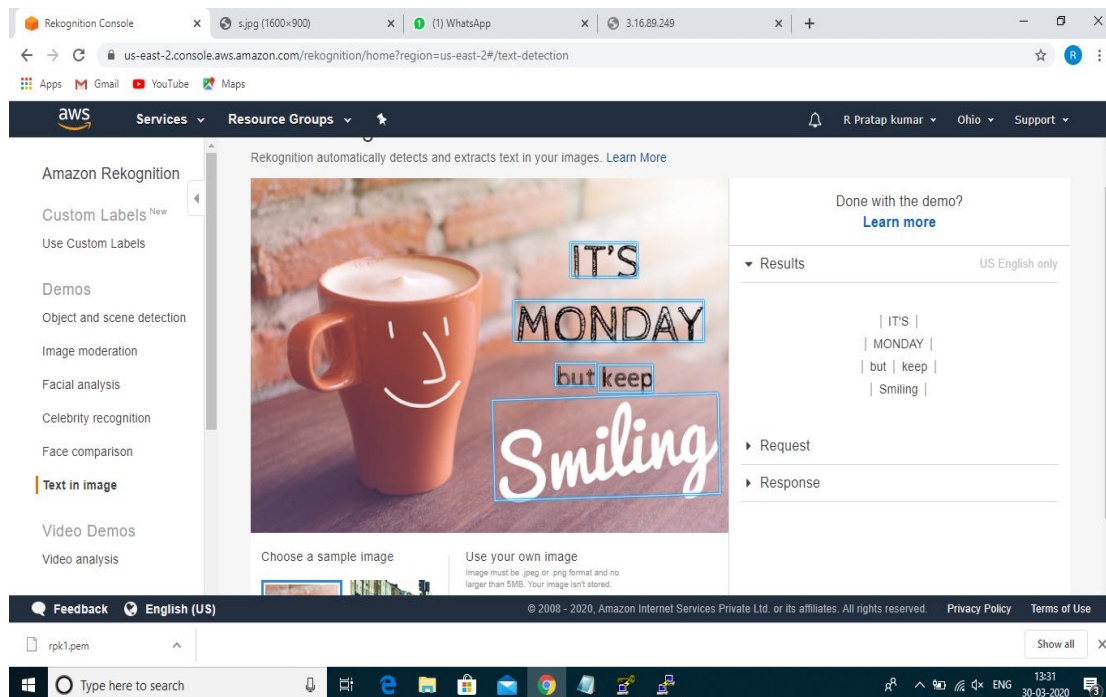
2. Face Compare



3. Celebrity Recognition



4. Text in Image



Screenshots needed for EC2 & S3

1. Installing aws-sdk

```
ec2-user@ip-172-31-41-231:/var/www/html/face
[ec2-user@ip-172-31-41-231 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-172-31-41-231 face]$
```

2. Installing php

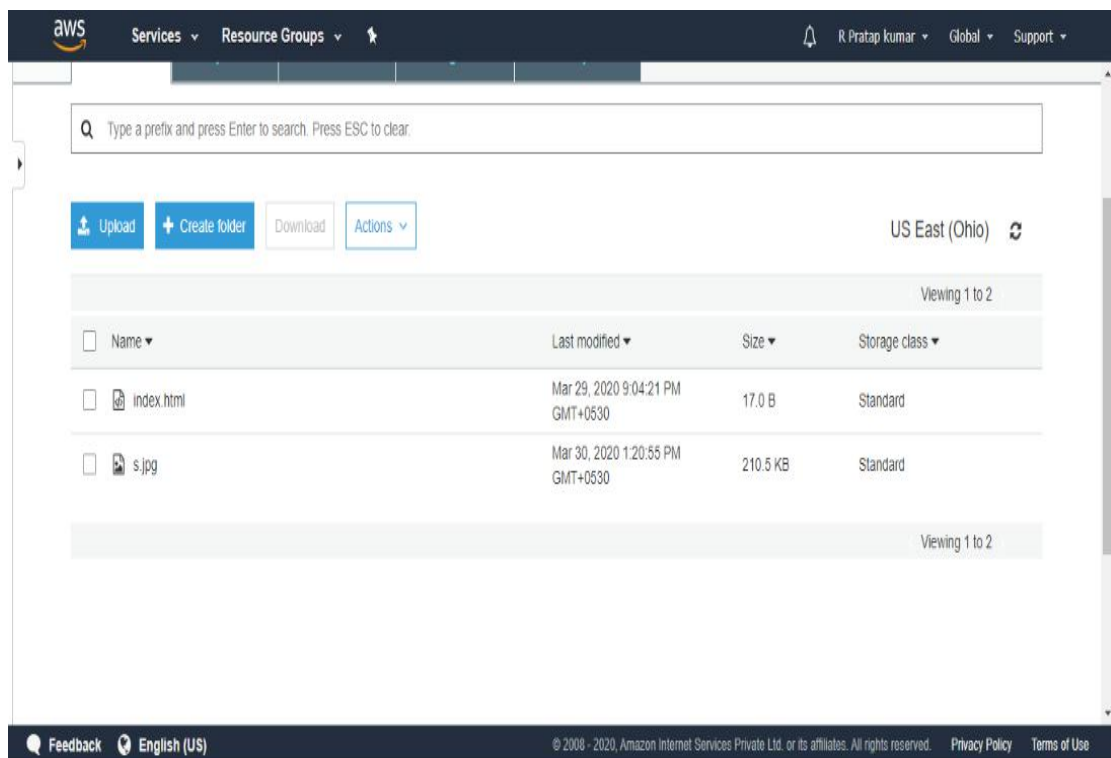
```
ec2-user@ip-172-31-41-231:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Last login: Mon Mar 30 08:12:46 2020 from 117.201.218.16  
  
 _ | _ | _ )  
 _ | ( _ _ /  
 _ | \ _ | _ |  
Amazon Linux 2 AMI  
  
https://aws.amazon.com/amazon-linux-2/  
1 package(s) needed for security, out of 7 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-41-231 ~]$ sudo yum install php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core | 2.4 kB 00:00  
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version  
Nothing to do  
[ec2-user@ip-172-31-41-231 ~]$
```

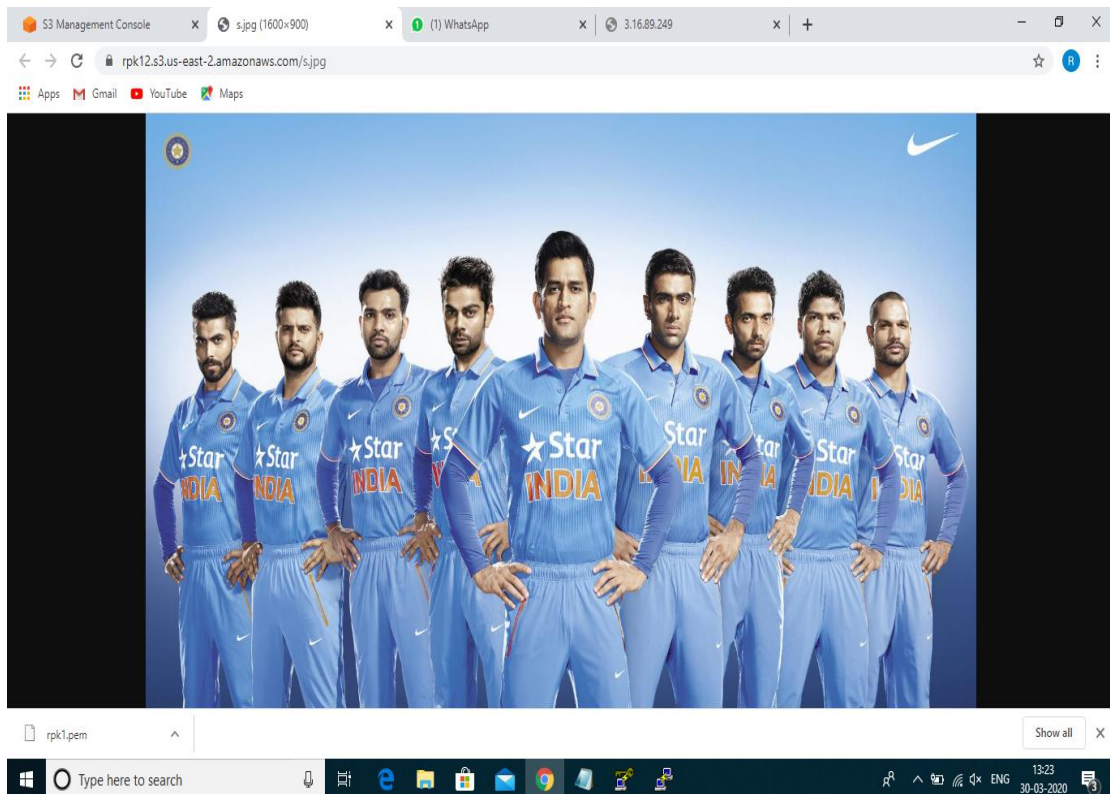
3. index.php file code

```
ec2-user@ip-172-31-41-231:/var/www/html/face  
[ec2-user@ip-172-31-41-231 face]$ clear  
[ec2-user@ip-172-31-41-231 face]$ ls  
composer.json composer.lock index.php sample.jpg s.jpg vendor  
[ec2-user@ip-172-31-41-231 face]$ sudo vim index.php  
sudo /bin/mkfs -t xfs /dev/xvdc1  
sudo /sbin/mkswap /dev/swap1  
sudo /sbin/swapoff /dev/swap1  
sudo /sbin/swap on /dev/swap1  
  
sudo wget https://i.pinimg.com/originals/b3/7e/a3/b37e431b5342c7894b84923c6c05593.jpg  
sudo mv b37e431b5342c7894b84923c6c05593.jpg sample.jpg  
  
//  
error_reporting(0);  
require_once(__DIR__ . '/vendor/autoload.php');  
  
use Aws\S3\S3Client;  
use Aws\Rekognition\RekognitionClient;  
  
$bucket = 'rpkl2';  
$keyname = 's.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;  
    }  
}
```

4. Upload success screenshot

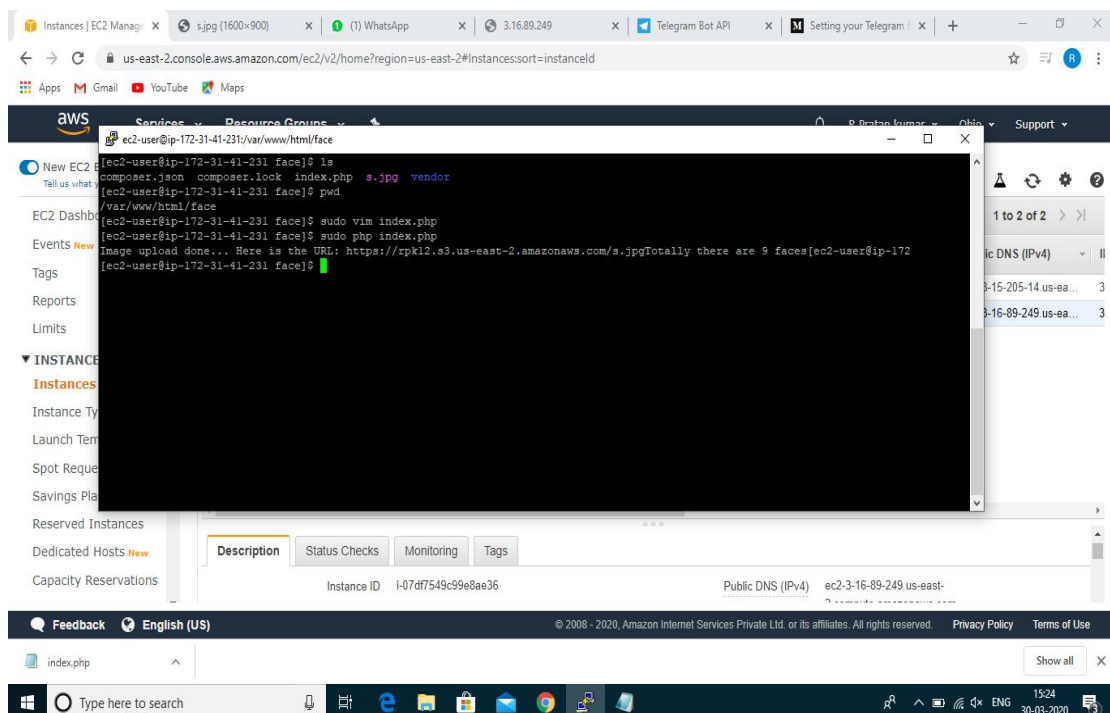
```
ec2-user@ip-172-31-41-231:/var/www/html/face
[ec2-user@ip-172-31-41-231 face]$ ls
composer.json composer.lock index.php sample.jpg s.jpg vendor
[ec2-user@ip-172-31-41-231 face]$ sudo vim index.php
[ec2-user@ip-172-31-41-231 face]$ sudo php index.php
Image upload done... Here is the URL: https://rpkl2.s3.us-east-2.amazonaws.com/s.jpg[ec2-user@ip-172-31-41-231 face]$
```





Screenshots needed for EC2 & Rekognition

1. Face Detect success screenshot



```
ec2-user@ip-172-31-41-231:/var/www/html/face
[ec2-user@ip-172-31-41-231 face]$ ls
composer.json  composer.lock  index.php  s.jpg  vendor
[ec2-user@ip-172-31-41-231 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-41-231 face]$ sudo vim index.php
[ec2-user@ip-172-31-41-231 face]$ sudo php index.php
Image upload done... Here is the URL: https://rpk12.s3.us-east-2.amazonaws.com/s.jpgTotally there are 9 faces[ec2-user@ip-172
[ec2-user@ip-172-31-41-231 face]$
```

```
ec2-user@ip-172-31-41-231:/var/www/html/face
[ec2-user@ip-172-31-41-231 face]$ ls
composer.json  composer.lock  index.php  s.jpg  vendor
[ec2-user@ip-172-31-41-231 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-41-231 face]$ sudo vim index.php
[ec2-user@ip-172-31-41-231 face]$ sudo php index.php
Image upload done... Here is the URL: https://rpk12.s3.us-east-2.amazonaws.com/s.jpgTotally there are 9 faces[ec2-user@ip-172
[ec2-user@ip-172-31-41-231 face]$
```