

# **FACE DETECTION APP USING AWS**

**Project Guide with Screenshots**

PRABU G  
REC,  
CHENNAI.

Sir, I am having AWS account already through my college, Their created account with Vocaream Lab,  
So my username starts with voclabs/user650252=PRABU\_G

## FACE DETECTION APP USING AWS

### AWS DASHBOARDS

#### 1)AWS Login screen with username

Amazon Web Services Sign-In

signin.aws.amazon.com/signin?redirect\_uri=https%3A%2F%2Fportal.aws.amazon.com%2Fbilling%2Fsignup%2Fresume&client\_id=signup

aws

Root user sign in


Email: prabu.g.2017.cse@rajalakshmi.edu.in

Password [Forgot password?](#)

[Sign in](#)

[Sign in to a different account](#)

[Create a new AWS account](#)



**AWS Accounts Include  
12 Months of Free Tier Access**

Including use of Amazon EC2,  
Amazon S3, and Amazon DynamoDB

[Visit aws.amazon.com/free](https://aws.amazon.com/free) for full offer terms

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Type here to search

17:49  
30-03-2020

## 2)EC2 Dashboard

The screenshot shows the AWS EC2 Management Console. The left sidebar contains navigation links for 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES', 'IMAGES', and 'ELASTIC BLOCK STORE'. The main content area is titled 'EC2' and features a 'Resources' section showing a summary of EC2 resources in the US East (Ohio) Region. Below this is a 'Launch instance' section with a 'Launch instance' button. The right sidebar contains 'Account attributes' and 'Additional information' sections. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time.

**Resources**

You are using the following Amazon EC2 resources in the US East (Ohio) Region:

Resource	Count
Running instances	0
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	0
Load balancers	0
Key pairs	0
Security groups	1
Placement groups	0

**Launch instance**

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#)

**Account attributes**

Supported platforms

- VPC

Default VPC

vpc-0abc87dc16c50f6fb

[Console experiments](#)

[Settings](#)

**Additional information**

[Getting started guide](#)

[Documentation](#)

[All EC2 resources](#)

[Forum](#)

## 3)S3 Dashboard

The screenshot shows the AWS S3 Management Console. The left sidebar contains navigation links for 'Amazon S3', 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area is titled 'Amazon S3' and features a 'Buckets (0)' section with a 'Create bucket' button. Below this is a table showing no buckets. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time.

**Buckets (0)**

[Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Name	Region	Access	Bucket created
No buckets			

You don't have any buckets.

[Create bucket](#)

## 4) Rekognition dashboard

The screenshot shows the Amazon Rekognition console dashboard in a web browser. The browser's address bar displays the URL `us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#`. The dashboard features a dark header with the AWS logo, navigation menus for 'Services' and 'Resource Groups', and user information including 'voclabs/user650252=PRABU...' and 'Ohio'. A left-hand sidebar lists navigation options: 'Amazon Rekognition', 'Custom Labels' (with a 'New' tag), 'Use Custom Labels', 'Demos' (with sub-items: 'Object and scene detection', 'Image moderation', 'Facial analysis', 'Celebrity recognition', 'Face comparison', 'Text in image'), 'Video Demos' (with sub-item: 'Video analysis'), and 'Metrics'. The main content area has a large hero section with the title 'Amazon Rekognition', the subtitle 'Deep learning-based visual analysis service', and the description 'Search, verify, and organize millions of images and videos'. It includes 'Try Demo' and 'Download SDKs' buttons. Below this are three feature highlights: 'Easily Integrate Powerful Visual Analysis into Your App' (with a stack of layers icon), 'Continuously Learning' (with a circuit icon), and 'Integrated with AWS Services' (with a puzzle pieces icon). Each highlight includes a brief description of the service's capabilities. The footer contains copyright information for 2008-2020, links to 'Privacy Policy' and 'Terms of Use', and the system clock shows 17:59 on 30-03-2020.

Rekognition Console

us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#

aws Services Resource Groups

voclabs/user650252=PRABU... Ohio Support

### Amazon Rekognition

Custom Labels New

Use Custom Labels

Demos

- Object and scene detection
- Image moderation
- Facial analysis
- Celebrity recognition
- Face comparison
- Text in image

Video Demos

- Video analysis

Metrics

Metrics

## Amazon Rekognition

Deep learning-based visual analysis service

Search, verify, and organize millions of images and videos

[Try Demo](#)

[Download SDKs](#)

#### Easily Integrate Powerful Visual Analysis into Your App

You don't need computer vision or deep learning expertise to take advantage of

#### Continuously Learning

Amazon Rekognition is designed to use deep learning technology to analyze billions of images and videos daily. It is

#### Integrated with AWS Services

Amazon Rekognition is designed to work seamlessly with other AWS services. Rekognition integrates directly with Amazon

https://aws.amazon.com/tools/#sdk sh (US)

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17:59 30-03-2020

# EC2

## 5)Choosing an AMI

Launch instance wizard | EC2 Ma x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups vodabs/user650252=PRABU\_G... 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 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Quick Start 1 to 40 of 40 AMIs

My AMIs

AWS Marketplace

Community AMIs

Free tier only

Amazon Linux

Free tier eligible

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0e01ce4ee18447327 (64-bit x86) / ami-03201f374ab66a26e (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit (x86) 64-bit (Arm)

Select

Amazon Linux

Free tier eligible

Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-01b01bbd08f24c7a8

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit (x86)

Select

Feedback English (US)

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Type here to search

18:05 30-03-2020

## 6)Choosing an Instance Type

Launch instance wizard | EC2 Ma x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups vodabs/user650252=PRABU\_G... 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 2: Choose an Instance Type

Next: Configure Instance Details

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

Feedback English (US)

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Type here to search

18:08 30-03-2020



## 7) Adding storage

Launch instance wizard | EC2 Ma x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups

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 Encrypte

[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](#)

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Type here to search

## 8) Configuring Security groups

Launch instance wizard | EC2 Ma x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups

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:

Description:

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

[Add Rule](#)

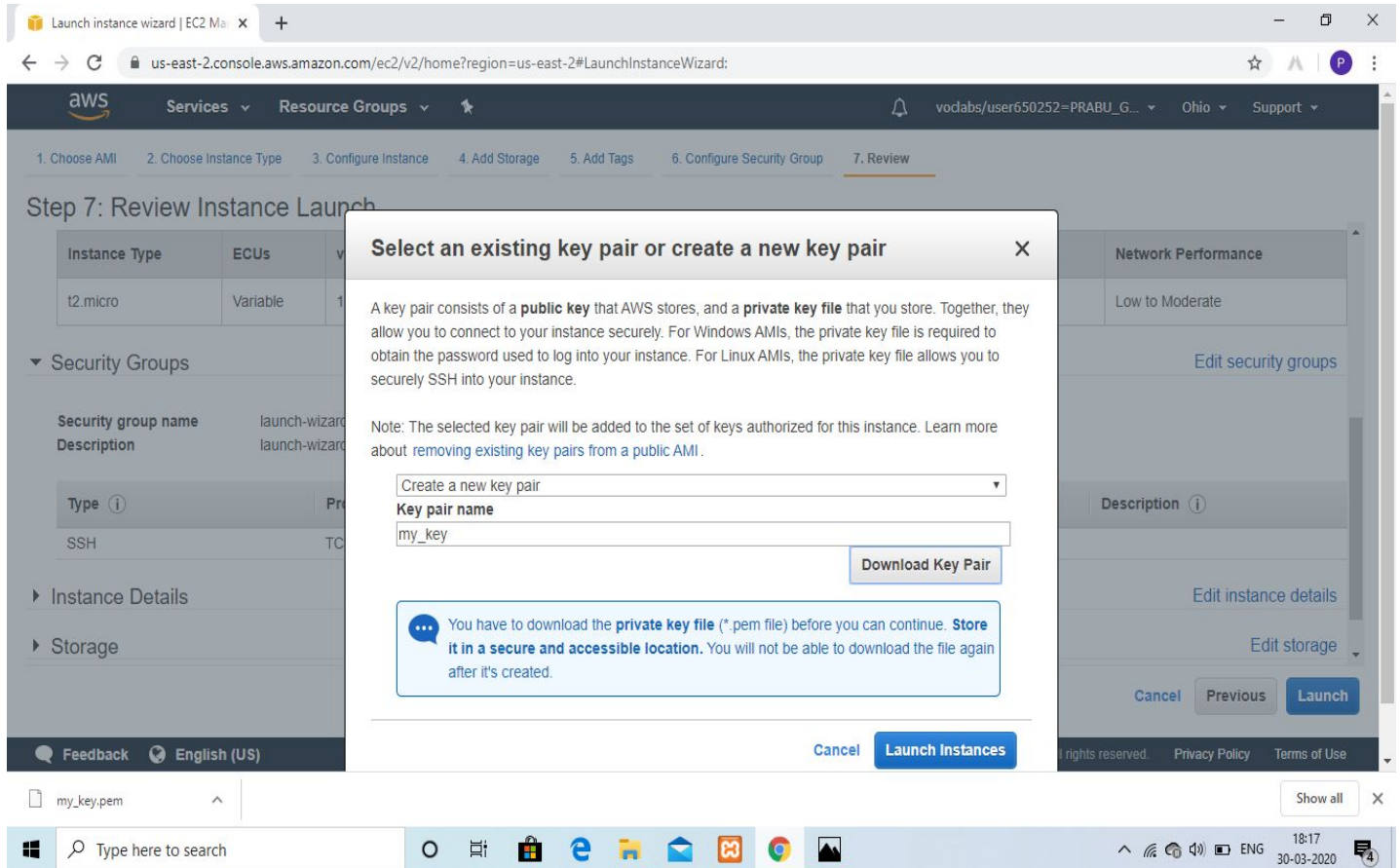
**Warning**  
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Previous](#) [Review and Launch](#)

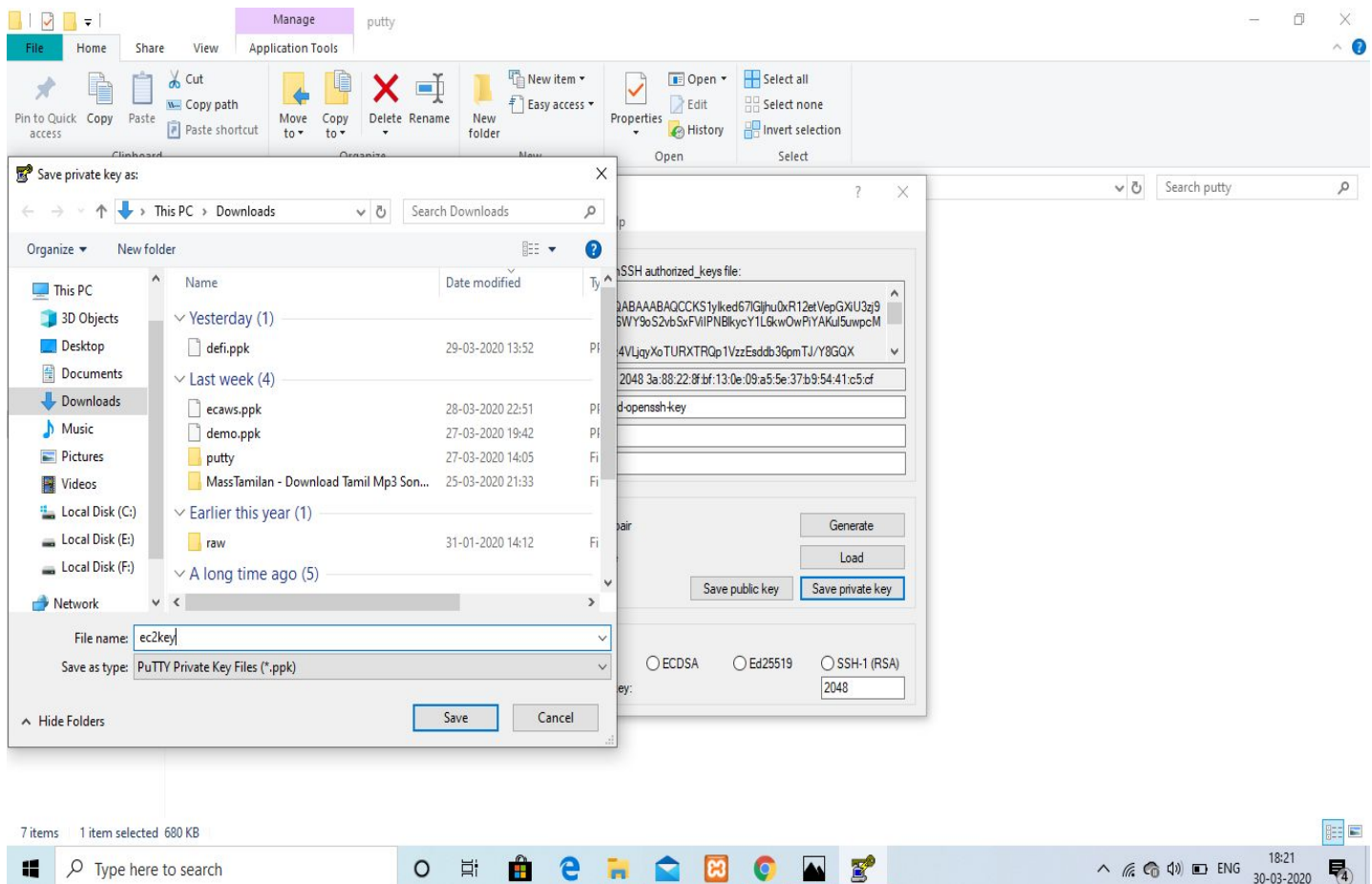
Feedback English (US) © 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

Type here to search

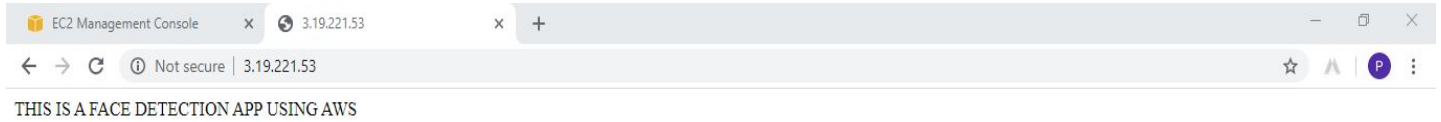
## 9) KeyPair Download



## 10) PuTTYgen conversion from pem to ppk



## 11) Logged in EC2 black screen



```
ec2-user@ip-172-31-21-65:~$ sudo systemctl start httpd.service
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-21-65 ~]$ 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 Mon 2020-03-30 13:05:21 UTC; 41s ago
     Docs: man:httpd.service(8)
  Main PID: 3676 (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
            └─3676 /usr/sbin/httpd -DFOREGROUND
              └─3677 /usr/sbin/httpd -DFOREGROUND
                └─3678 /usr/sbin/httpd -DFOREGROUND
                  └─3679 /usr/sbin/httpd -DFOREGROUND
                    └─3680 /usr/sbin/httpd -DFOREGROUND
                      └─3681 /usr/sbin/httpd -DFOREGROUND

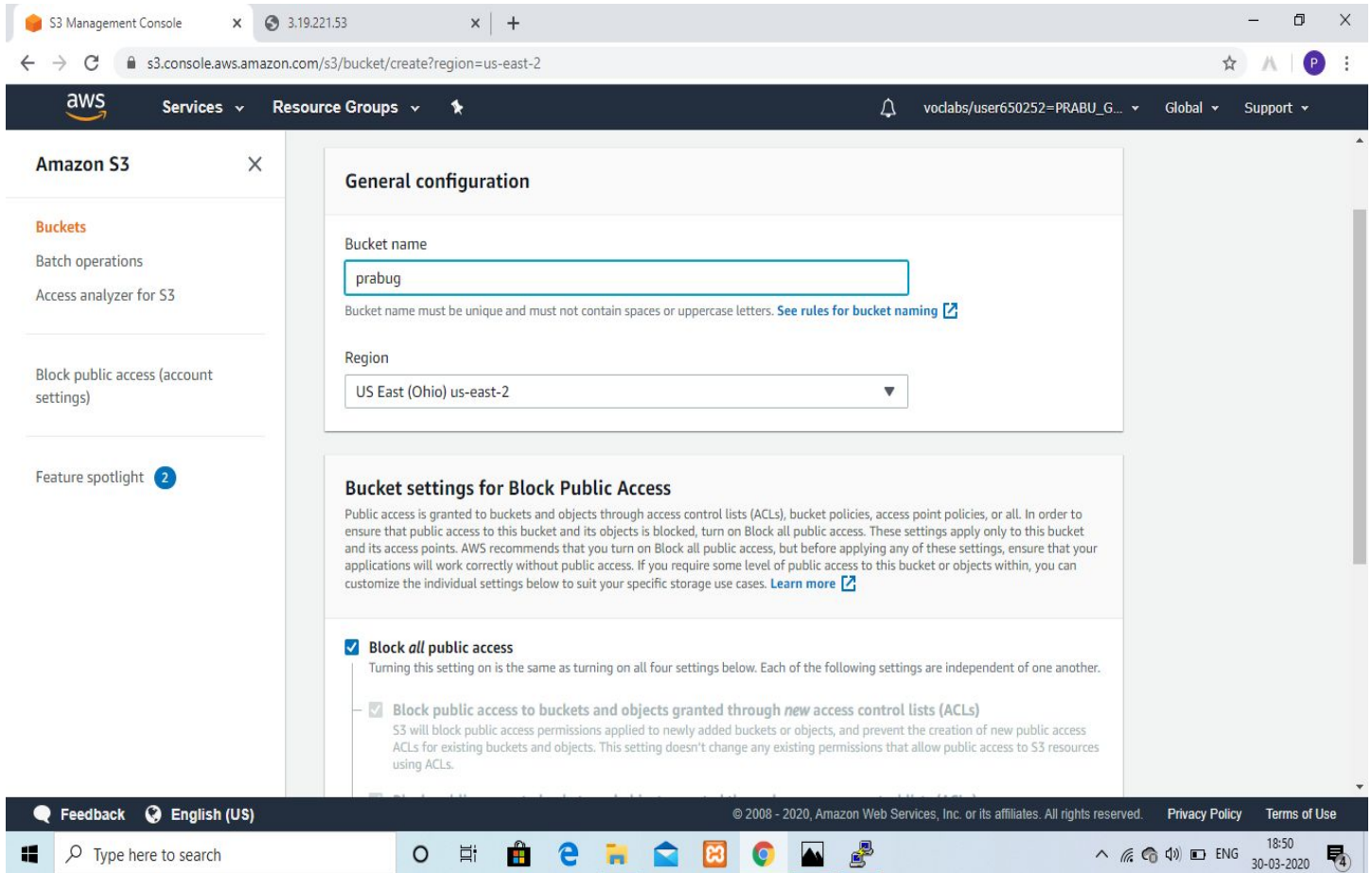
Mar 30 13:05:21 ip-172-31-21-65.us-east-2.compute.internal systemd[1]: Starti...
Mar 30 13:05:21 ip-172-31-21-65.us-east-2.compute.internal systemd[1]: Starte...
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-21-65 ~]$ sudo vim /var/www/html/index.html
[ec2-user@ip-172-31-21-65 ~]$
```





# S3

## 12)Creating a bucket



The screenshot shows the AWS S3 console's 'Create bucket' wizard. The 'General configuration' section is active, showing the bucket name 'prabug' and the region 'US East (Ohio) us-east-2'. Below this, the 'Bucket settings for Block Public Access' section is visible, with the 'Block all public access' checkbox checked. The console interface includes a top navigation bar with 'Services' and 'Resource Groups' menus, and a bottom taskbar with various application icons.

**General configuration**

Bucket name: prabug

Region: US East (Ohio) us-east-2

**Bucket settings for Block Public Access**

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

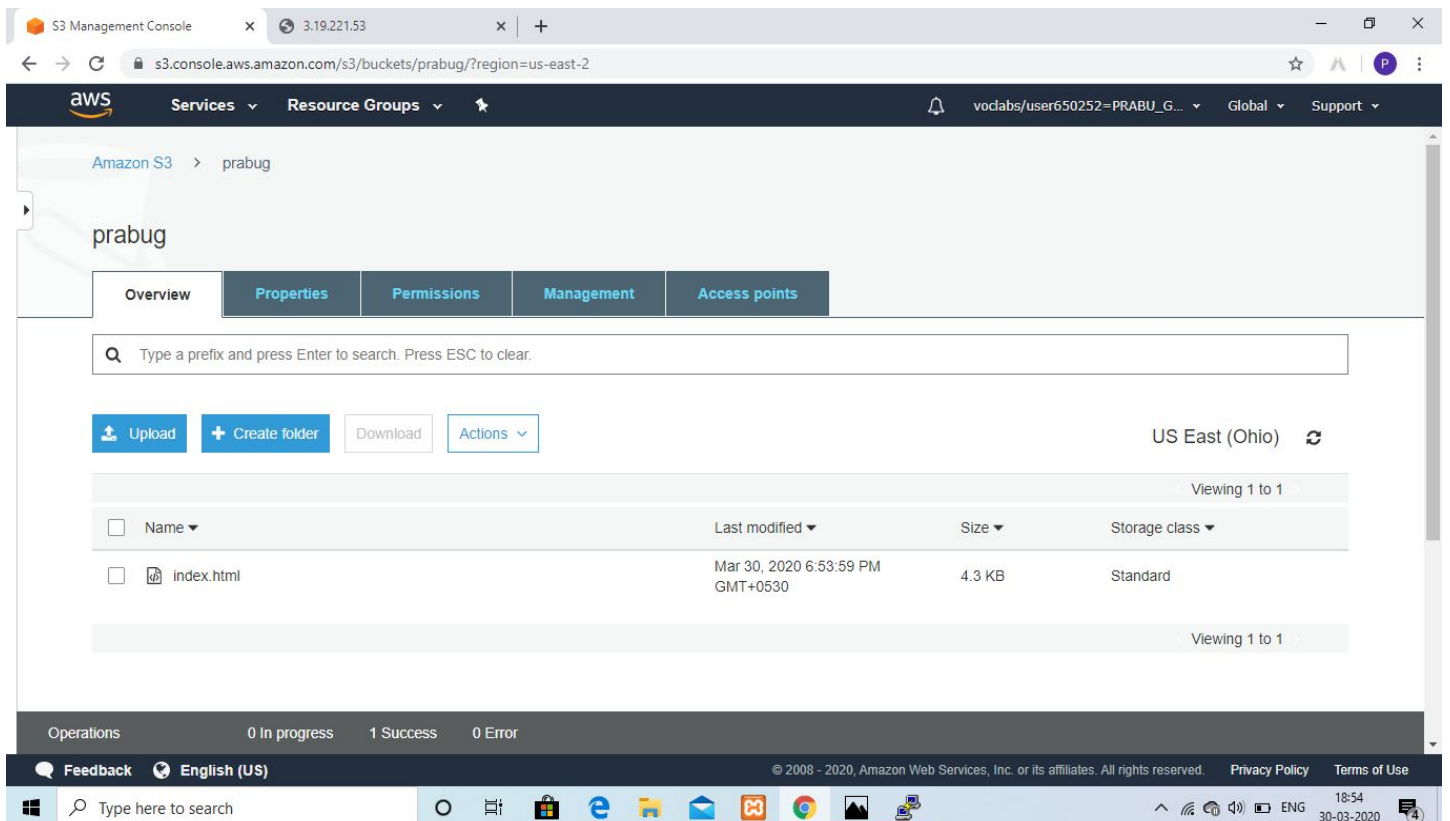
☒ **Block all public access**

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☒ **Block public access to buckets and objects granted through *new* access control lists (ACLs)**

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

## 13)Uploading an Object



The screenshot shows the AWS S3 console's 'prabug' bucket page. The 'Overview' tab is selected, displaying a list of objects. One object, 'index.html', is listed with a size of 4.3 KB and a storage class of 'Standard'. The console interface includes a top navigation bar with 'Services' and 'Resource Groups' menus, and a bottom taskbar with various application icons.

**prabug**

Overview Properties Permissions Management Access points

Search: Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

US East (Ohio)

Name	Last modified	Size	Storage class
index.html	Mar 30, 2020 6:53:59 PM GMT+0530	4.3 KB	Standard

Viewing 1 to 1

Operations: 0 In progress, 1 Success, 0 Error

## 14)Enabling the Static Website

The screenshot shows the AWS S3 Management Console interface. The main panel is titled 'Static website hosting' and displays the following configuration options:

- Endpoint: `http://prabug.s3-website.us-east-2.amazonaws.com`
- ☒ Use this bucket to host a website [Learn more](#)
- Index document: `index.html`
- Error document: `error.html`
- Redirection rules (optional): (Empty text area)
- ☐ Redirect requests [Learn more](#)
- ☐ Disable website hosting

On the right, there is a section for 'Object-level logging' with a 'Disabled' toggle and a 'Learn more' link. The bottom status bar shows '0 In progress', '1 Success', and '0 Error'.

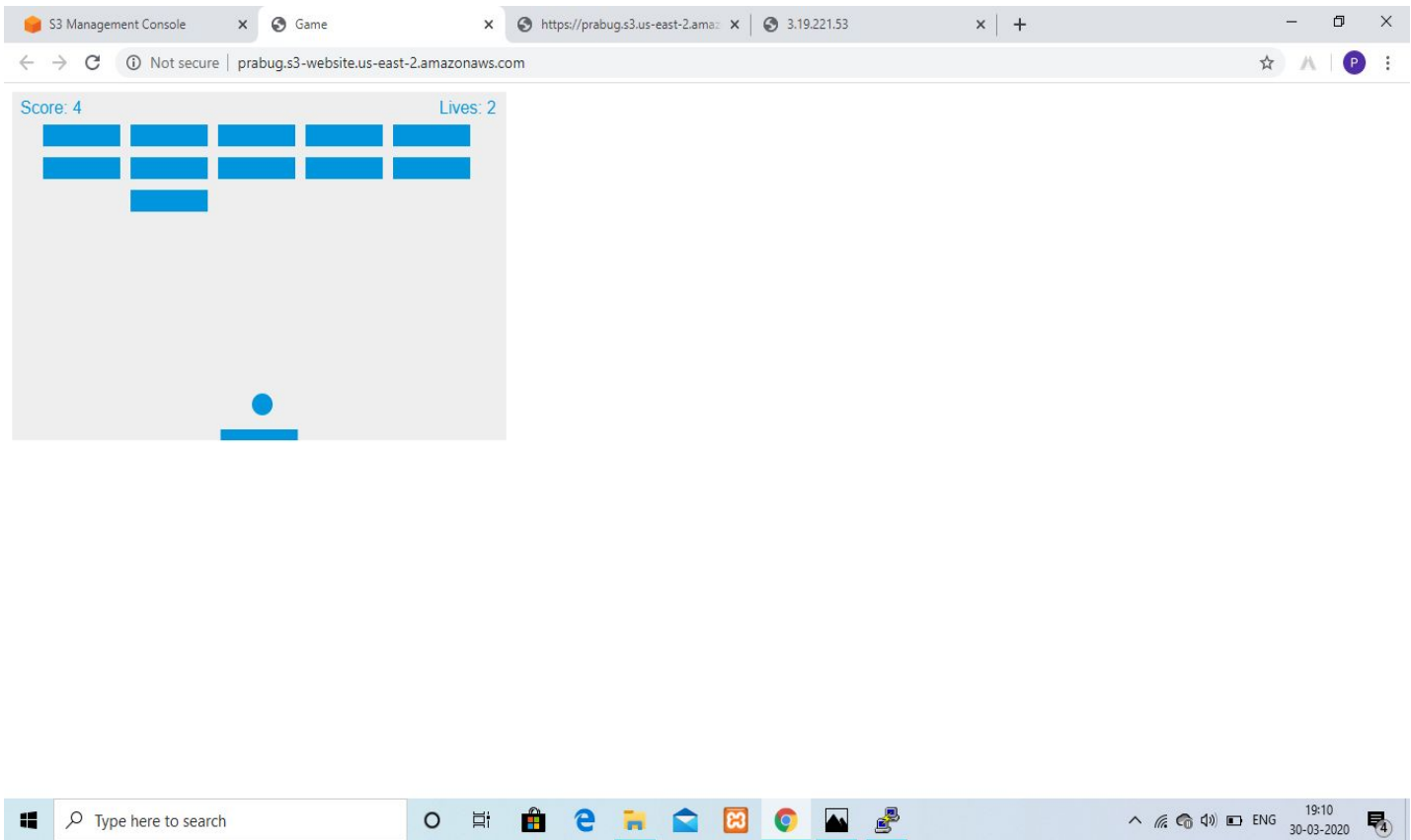
## 15)Making the Object Public

The screenshot shows the AWS S3 Management Console interface for the object 'index.html'. The 'Properties' tab is selected, displaying the following details:

- Success** message bar.
- Buttons: Open, Download, Download as, Make public, Copy path.
- Owner:** 6a07b677df546daf89381afeedb2ec64cc7448081297e0c540b73ed925435c72
- Last modified:** Mar 30, 2020 6:53:59 PM GMT+0530
- Etag:** cbd8bada53c838af6abf1fefe5b59343
- Storage class:** Standard
- Server-side encryption:** None
- Size:** 4.3 KB

The bottom status bar shows '0 In progress', '3 Success', and '0 Error'.

16)Checking the S3 link on the browser



# REKOGNITION

## 17)Face Detect

The screenshot shows the AWS Rekognition Console interface for the 'Facial analysis' demo. The left sidebar contains a navigation menu with options like Metrics, Demos, Object and scene detection, Image moderation, Facial analysis (highlighted), Celebrity recognition, Face comparison, Text in image, Video Demos, and Video analysis. The main content area is titled 'Facial analysis' and includes a description: 'Get a complete analysis of facial attributes, including confidence scores.' Below this is a large image of a woman wearing sunglasses, with a bounding box around her face. To the right of the image is a 'Results' section showing various attributes and their confidence scores:

Attribute	Confidence Score
looks like a face	99.9 %
appears to be female	99.9 %
age range	20 - 38 years old
smiling	98.8 %
appears to be happy	87 %
wearing glasses	99.8 %

Below the results is a 'Show more' link. The bottom of the page features a footer with 'Feedback', 'English (US)', copyright information, and links to 'Privacy Policy' and 'Terms of Use'. The Windows taskbar is visible at the very bottom.

## 18)Face Compare

The screenshot shows the AWS Rekognition Console interface for the 'Face comparison' demo. The left sidebar is similar to the previous page, but 'Face comparison' is highlighted. The main content area is titled 'Face comparison' and includes a description: 'Compare faces to see how closely they match based on a similarity percentage.' Below this is a 'Reference face' section showing a woman's face, and a 'Comparison faces' section showing three different images of the same woman. To the right is a 'Results' section showing the similarity score for each comparison:

Comparison	Similarity Score
Reference face vs. Comparison face 1	99.8 %
Reference face vs. Comparison face 2	Not similar
Reference face vs. Comparison face 3	Not similar

The bottom of the page features a footer with 'Feedback', 'English (US)', copyright information, and links to 'Privacy Policy' and 'Terms of Use'. The Windows taskbar is visible at the very bottom.



## 19)Celebrity Recognition

The screenshot shows the Amazon Rekognition Console interface for the Celebrity Recognition demo. The left sidebar lists various services, with 'Celebrity recognition' highlighted. The main content area features a large image of Jeff Bezos with a bounding box around his face. Below this, there are options to 'Choose a sample image' or 'Use your own image'. The 'Results' section on the right shows a match for 'Jeff Bezos' with a 'Match confidence' of 100%.


Amazon Rekognition  
Metrics  
Demos  
Object and scene detection  
Image moderation  
Facial analysis  
**Celebrity recognition**  
Face comparison  
Text in image  
Video Demos  
Video analysis  
Additional Resources  
Getting started guide  
Download SDKs  
Developer resources  
Pricing  
FAQ

### Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.

Done with the demo? [Learn more](#)

**Results**

 **Jeff Bezos**  
[Learn More](#)

Match confidence 100 %

**Request**

**Response**

Choose a sample image

Use your own image  
Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.

[Upload](#) or drag and drop

Use image URL [Go](#)

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## 20)Text in Image

The screenshot shows the Amazon Rekognition Console interface for the Text in Image demo. The left sidebar lists various services, with 'Text in image' highlighted. The main content area features a large image of a coffee cup with the text 'IT'S MONDAY but keep Smiling' overlaid. Below this, there are options to 'Choose a sample image' or 'Use your own image'. The 'Results' section on the right shows the detected text: 'IT'S', 'MONDAY', 'but', 'keep', and 'Smiling'.

Amazon Rekognition  
Metrics  
Demos  
Object and scene detection  
Image moderation  
Facial analysis  
Celebrity recognition  
Face comparison  
**Text in image**  
Video Demos  
Video analysis  
Additional Resources  
Getting started guide  
Download SDKs  
Developer resources  
Pricing  
FAQ

### Text in image

Rekognition automatically detects and extracts text in your images. [Learn More](#)

Done with the demo? [Learn more](#)

**Results** US English only

| IT'S |  
| MONDAY |  
| but | keep |  
| Smiling |

**Request**

**Response**

Choose a sample image

Use your own image  
Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.

[Upload](#) or drag and drop

Use image URL [Go](#)

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# EC2 & S3

## 21)Installing AWS-SDK

S3 Management Console x Game x https://prabug.s3.us-east-2.amazonaws.com/ 3.19.221.53

← → ↻ ⓘ Not secure | 3.19.221.53

THIS IS A FACE DETECTION APP USING AWS

```
ec2-user@ip-172-31-21-65:/var/www/html/face
[ec2-user@ip-172-31-21-65 ~]$ 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-172-31-21-65 ~]$ 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-172-31-21-65 ~]$ cd /var/www/html
[ec2-user@ip-172-31-21-65 html]$ cd face
[ec2-user@ip-172-31-21-65 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-21-65 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
```

Windows Taskbar: Type here to search, 19:33 30-03-2020

## 22)Installing PHP

S3 Management Console x Game x https://prabug.s3.us-east-2.amazonaws.com/ 3.19.221.53

← → ↻ ⓘ s3.console.aws.amazon.com/s3/object/prabug/index.html?region=us-east-2&tab=overview

aws Services Resource Groups vodabs/user650252=PRABU\_G... Global Support

index.html Latest version

Overview Properties Permissions Select from

Open Download Download as

Owner: 6a07b677df546daf89381afeedb2ec64cc74

Last modified: Mar 30, 2020 6:53:59 PM GMT+0530

Etag: cbd8bada53c838af6abf1fefe5b59343

Storage class: Standard

Server-side encryption: None

Size: 4.3 KB

Key: index.html

```
ec2-user@ip-172-31-21-65:~
Total 20 MB/s | 4.7 MB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64 1/4
Installing : php-common-5.4.16-46.amzn2.0.2.x86_64 2/4
Installing : php-cli-5.4.16-46.amzn2.0.2.x86_64 3/4
Installing : php-5.4.16-46.amzn2.0.2.x86_64 4/4
Verifying : php-5.4.16-46.amzn2.0.2.x86_64 1/4
Verifying : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64 2/4
Verifying : php-cli-5.4.16-46.amzn2.0.2.x86_64 3/4
Verifying : php-common-5.4.16-46.amzn2.0.2.x86_64 4/4

Installed:
php.x86_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:
libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5
php-cli.x86_64 0:5.4.16-46.amzn2.0.2
php-common.x86_64 0:5.4.16-46.amzn2.0.2

Complete!
[ec2-user@ip-172-31-21-65 ~]$
```

Operations: 0 In progress 3 Success 0 Error

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Windows Taskbar: Type here to search, 19:19 30-03-2020

## 23) index.php Code

```
C:\Users\G PRABU\Documents\index.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

game1.py x index.php index(1).php

1 <?php
2 error_reporting(0);
3 require_once(__DIR__ . '/vendor/autoload.php');
4 use Aws\S3\S3Client;
5 use Aws\Rekognition\RekognitionClient;
6 $bucket = 'prabug';
7 $keyname = 'sample.jpg';
8 $s3 = S3Client::factory([
9     'profile' => 'default',
10    'region' => 'us-east-2',
11    'version' => '2006-03-01',
12    'signature' => 'v4'
13]);
14 try {
15    // Upload data.
16    $result = $s3->putObject([
17        'Bucket' => $bucket,
18        'Key' => $keyname,
19        'SourceFile' => __DIR__ . "/" . $keyname,
20        'ACL' => 'public-read'
21    ]);
22
23    // Print the URL to the object.
24    $imageUrl = $result['ObjectURL'];
25    if($imageUrl) {
26        echo "Image upload done... Here is the URL: " . $imageUrl;
27    }
28 } catch (Exception $e) {
29    echo $e->getMessage() . PHP_EOL;
30 }
```

## 24) Upload success

The screenshot displays the AWS S3 Management Console for the bucket 'prabug' in the 'us-east-2' region. The 'Properties' tab is selected, showing the bucket's configuration. A terminal window is overlaid on the console, showing the following commands and output:

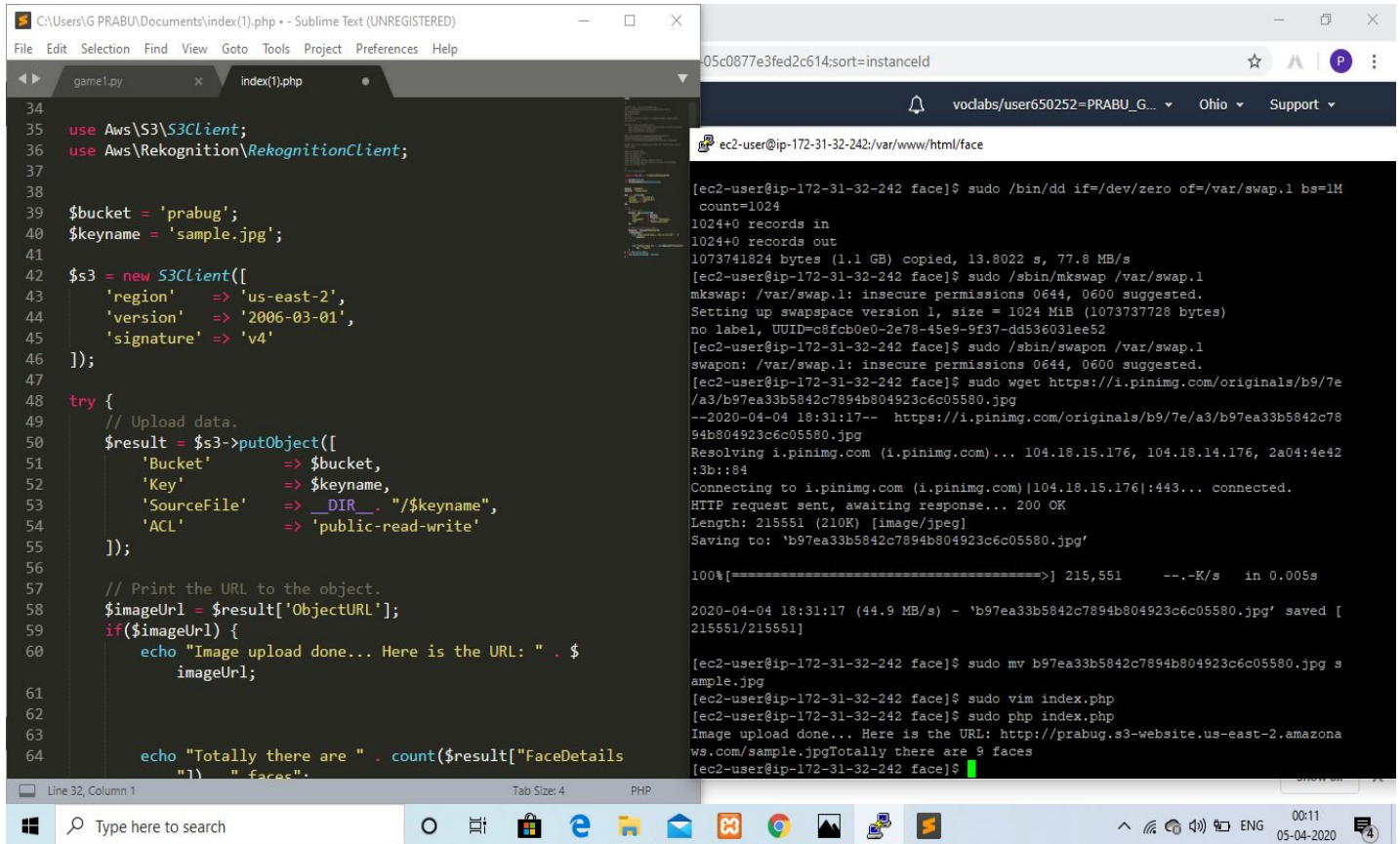
```
ec2-user@ip-172-31-21-65:/var/www/html/face
[ec2-user@ip-172-31-21-65 face]$ sudo vim index.php
[ec2-user@ip-172-31-21-65 face]$ sudo php index.php
Image upload done... Here is the URL: http://prabug.s3-website.us-east-2.amazonaws.com/
[ec2-user@ip-172-31-21-65 face]$
```

The console shows the following details for the bucket 'prabug':

- Overview:** Properties, Permissions
- Search:** Type a prefix and press Enter to search. Press ESC to clear.
- Actions:** Upload, Create folder, Download, Actions
- Objects:** index.html, sample.jpg
- Metadata:** Mar 30, 2020 7:51:01 PM GMT+0530, 10.4 KB, Standard
- Operations:** 0 In progress, 4 Success, 0 Error

## EC2 & REKOGNITION

### 25)Face Detect Success



The screenshot displays a Windows desktop environment. On the left, the Sublime Text editor is open with a file named 'index(1).php'. The code uses the AWS SDK for PHP to upload an image to an S3 bucket and then uses the Rekognition client to detect faces in the uploaded image. The code includes comments and variable assignments for region, bucket, keyname, and ACL. The terminal window on the right shows the execution of various commands: setting up swap space, downloading a sample image from a public URL, and running the PHP script. The output of the script shows the image upload URL and the result of the face detection, indicating that 9 faces were detected. The web browser at the top right shows the URL of the uploaded image.

```
34
35 use Aws\S3\S3Client;
36 use Aws\Rekognition\RekognitionClient;
37
38
39 $bucket = 'prabug';
40 $keyname = 'sample.jpg';
41
42 $s3 = new S3Client([
43     'region' => 'us-east-2',
44     'version' => '2006-03-01',
45     'signature' => 'v4'
46 ]);
47
48 try {
49     // Upload data.
50     $result = $s3->putObject([
51         'Bucket' => $bucket,
52         'Key' => $keyname,
53         'SourceFile' => __DIR__ . "/" . $keyname,
54         'ACL' => 'public-read-write'
55     ]);
56
57     // Print the URL to the object.
58     $imageUrl = $result['ObjectURL'];
59     if($imageUrl) {
60         echo "Image upload done... Here is the URL: " . $
61             imageUrl;
62
63
64         echo "Totally there are " . count($result["FaceDetails
65             "]) . " faces".
```

```
[ec2-user@ip-172-31-32-242 face]$ sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M
count=1024
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GB) copied, 13.8022 s, 77.8 MB/s
[ec2-user@ip-172-31-32-242 face]$ sudo /sbin/mkswap /var/swap.1
mkswap: /var/swap.1: insecure permissions 0644, 0600 suggested.
Setting up swapspace version 1, size = 1024 MiB (1073737728 bytes)
no label, UUID=c8fcb0e0-2e78-45e9-9f37-dd536031ee52
[ec2-user@ip-172-31-32-242 face]$ sudo /sbin/swapoff /var/swap.1
swapoff: /var/swap.1: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-32-242 face]$ sudo wget https://i.pinimg.com/originals/b9/7e
/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-04-04 18:31:17-- https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c78
94b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 104.18.15.176, 104.18.14.176, 2a04:4e42
:3b::84
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 0.005s

2020-04-04 18:31:17 (44.9 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [
215551/215551]

[ec2-user@ip-172-31-32-242 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s
ample.jpg
[ec2-user@ip-172-31-32-242 face]$ sudo vim index.php
[ec2-user@ip-172-31-32-242 face]$ sudo php index.php
Image upload done... Here is the URL: http://prabug.s3-website.us-east-2.amazona
ws.com/sample.jpgTotally there are 9 faces
[ec2-user@ip-172-31-32-242 face]$
```

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\*\*\*\*\*