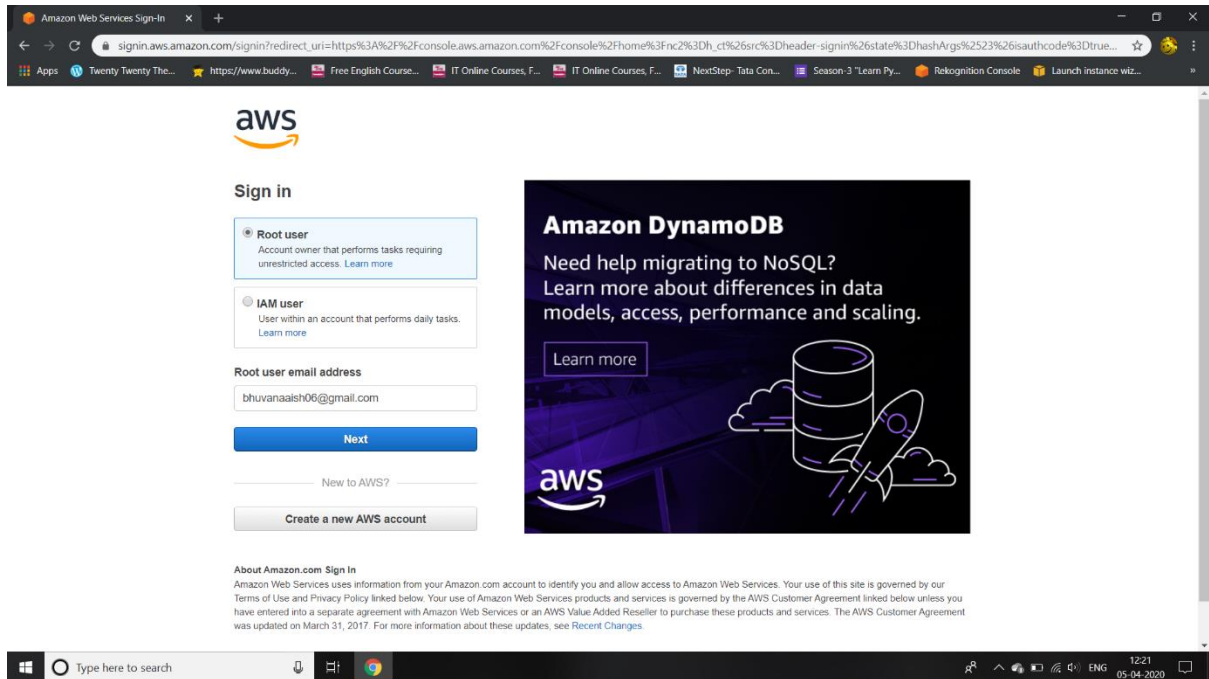


# FaceDetection using AWS

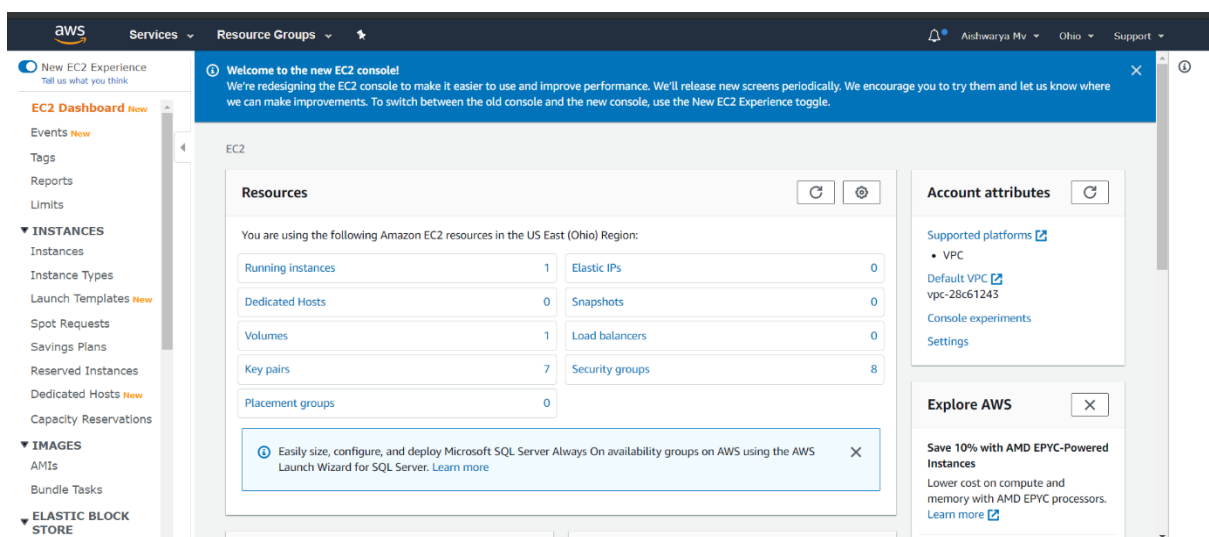
NAME:AISHWARYA

## SCREENSHOTS OF DASHBOARDS

### 1.AWS LOGIN SCREEN WITH USERNAME



### 2. EC2 DASHBOARD



### 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. A left-hand sidebar contains navigation links: 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area displays a message about UI updates and a 'Buckets (2)' section. This section includes a search bar, action buttons ('Copy ARN', 'Empty', 'Delete', 'Create bucket'), and a table of existing buckets.

Name	Region	Access	Bucket created
aws-coding-aish	US East (Ohio) us-east-2	Objects can be public	2020-04-03T06:47:17.000Z
aws-webinar-ethn	US East (Ohio) us-east-2	Objects can be public	2020-04-04T13:00:40.000Z

### 4. REKOGNITION DASHBOARD

The screenshot shows the Amazon Rekognition dashboard. The top navigation bar is similar to the S3 console. The left sidebar lists various features: 'Custom Labels', 'Use Custom Labels', 'Demos' (with sub-links for object and scene detection, image moderation, facial analysis, celebrity recognition, face comparison, and text in image), 'Video Demos', 'Video analysis', 'Metrics', and 'Additional Resources'. The main content area features a large hero section with the title 'Amazon Rekognition' and a description: 'Deep learning-based visual analysis service. Search, verify, and organize millions of images and videos.' Below this are 'Try Demo' and 'Download SDKs' buttons. The lower section contains three columns: 'Easily Integrate Powerful Visual Analysis into Your App', 'Continuously Learning', and 'Integrated with AWS Services', each with an icon and descriptive text.

# SCREENSHOTS OF EC2

## 1.CHOOSING AN AMI

**Step 1: Choose an Amazon Machine Image (AMI)**

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**

My AMIs

AWS Marketplace

Community AMIs

Free tier only ⓘ

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

Amazon Linux Free tier eligible

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)

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

Amazon Linux Free tier eligible

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)

**Red Hat Enterprise Linux 8 (HVM), SSD Volume Type** - ami-0520e698dd500b1d1 (64-bit x86) / ami-0099847d600887c9f (64-bit Arm)

Red Hat Free tier eligible

Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type

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

64-bit (x86)

64-bit (Arm)

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## 2.CHOOSING AN INSTANCE TYPE

**Step 2: Choose an Instance Type**

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
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

### 3.ADDING STORAGE

aws

Services

Resource Groups

Aishwarya Mv

Ohio

Support

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. 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.

CancelPreviousReview and LaunchNext: Add Tags

### 4.CONFIGURING SECURITY GROUP

aws

Services

Resource Groups

Aishwarya Mv

Ohio

Support

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. 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

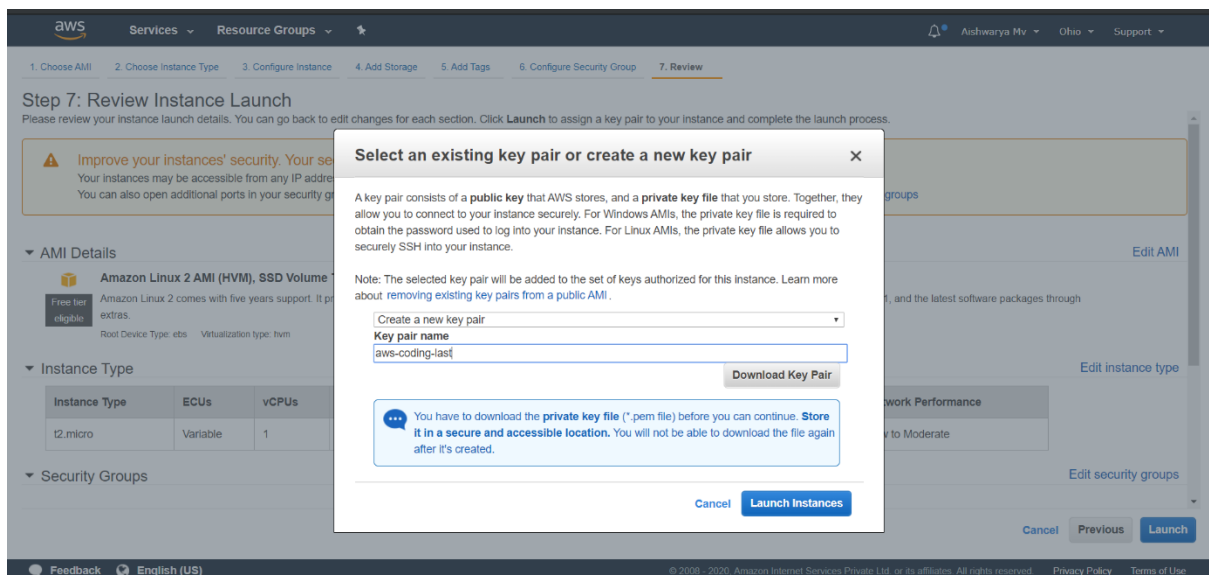
Add Rule

Warning

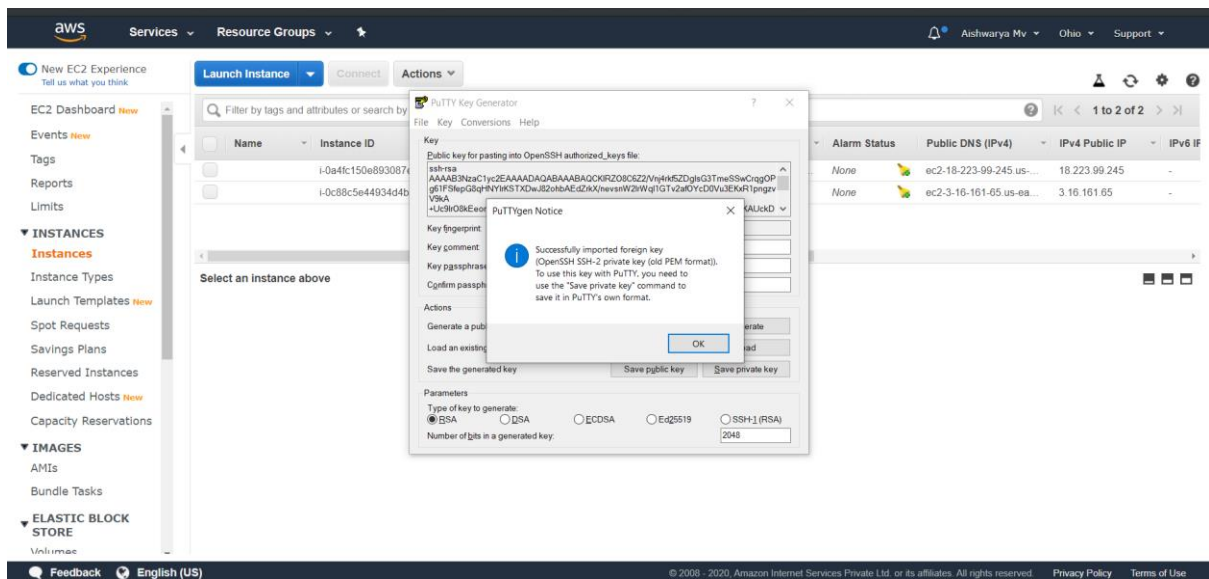
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

CancelPreviousReview and Launch

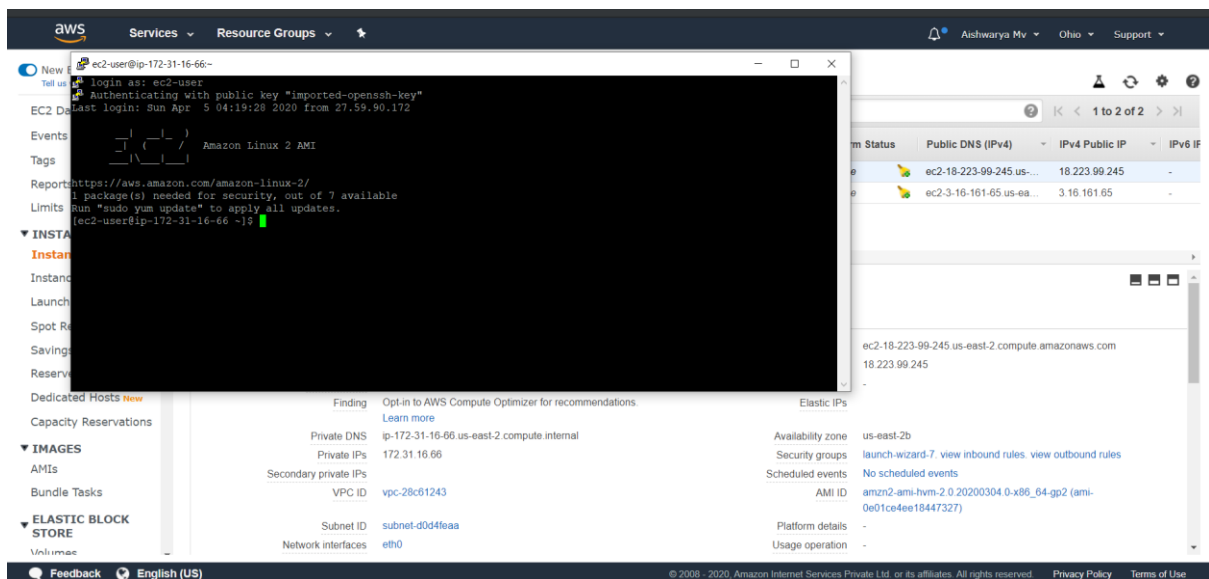
## 5.KEY PAIR DOWNLOAD



## 6.PutTYgen conversion frm pem to ppk

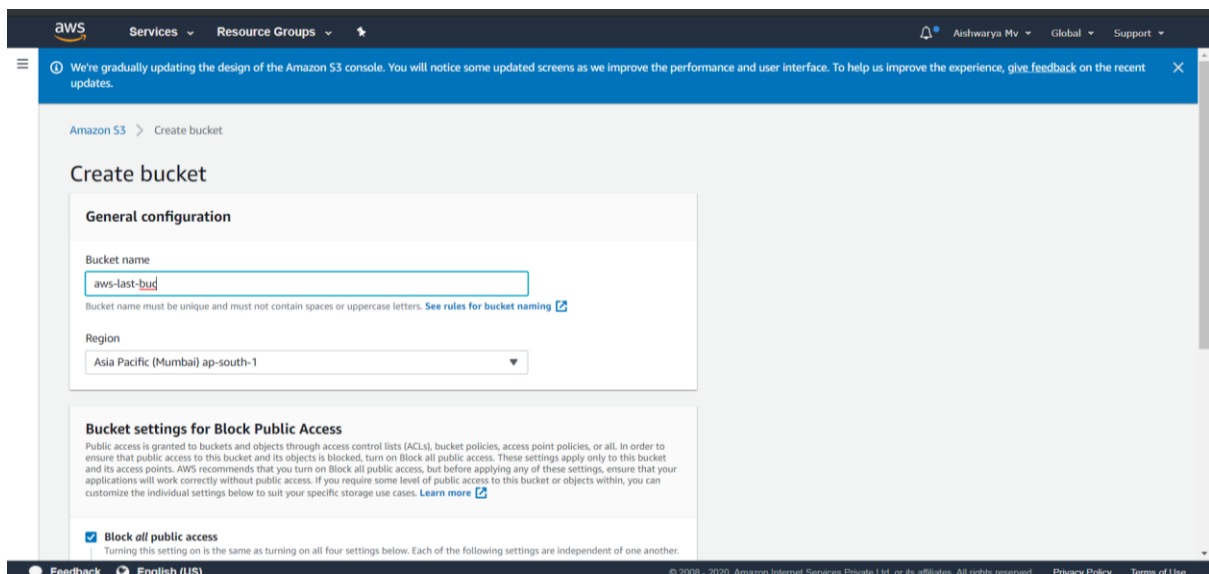


## 7.LOGGED IN EC2 BLACK SCREEN

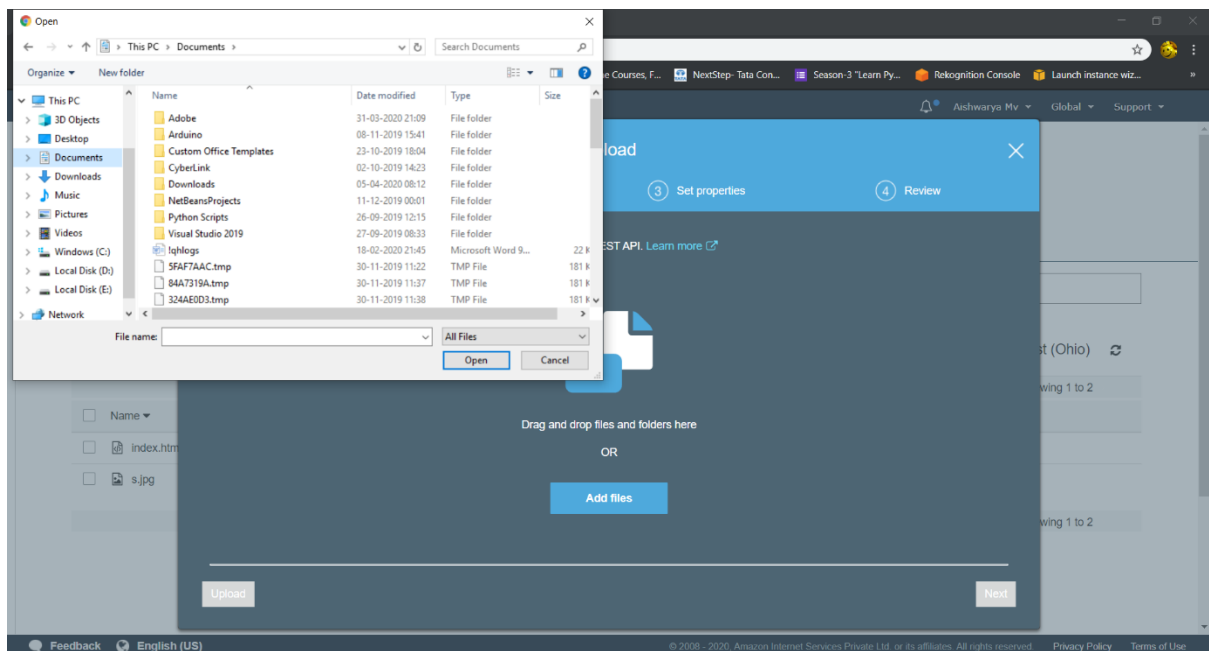


## SCREENSHOTS OF S3

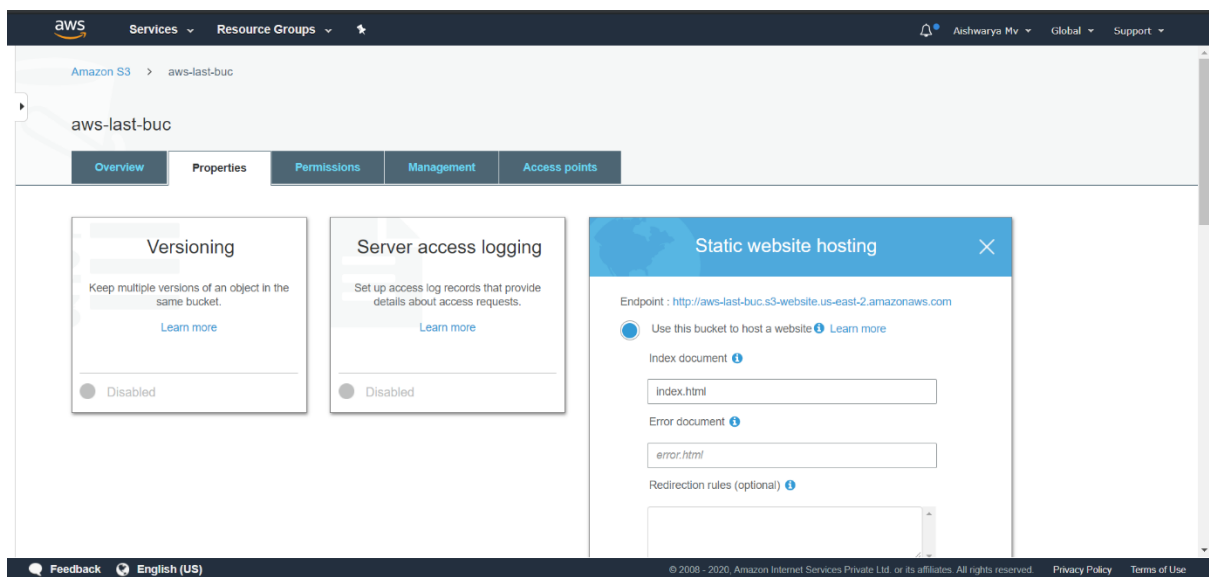
### 1.CREATING A BUCKET



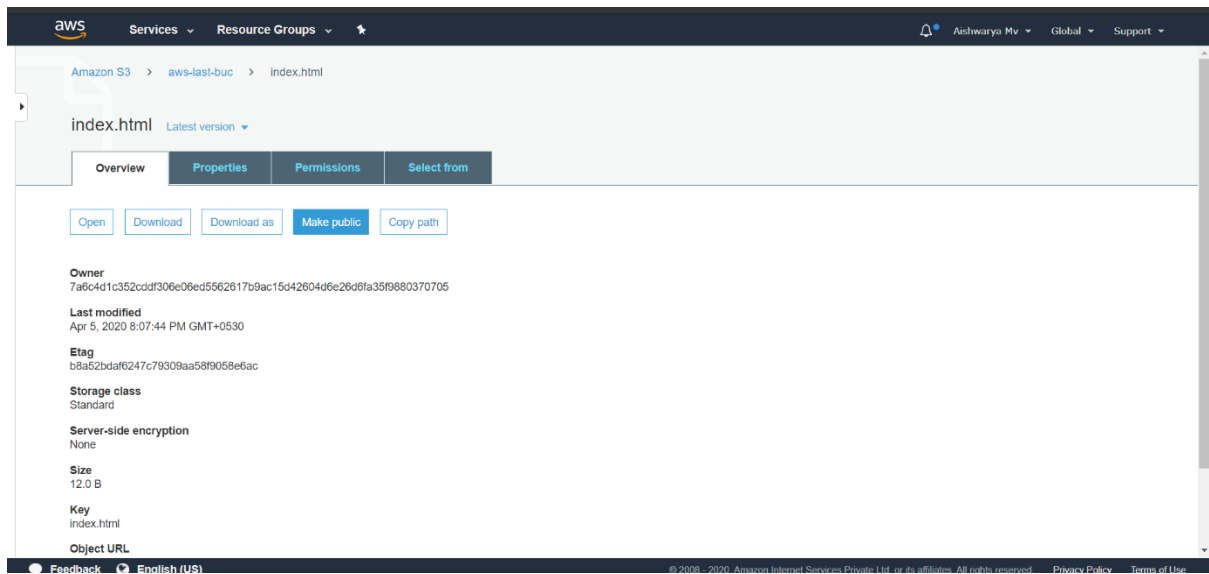
## 2.UPLAODING AN OBJECT



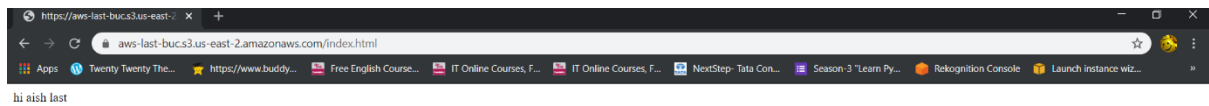
## 3.ENABLING STATIC WEBSITE



## 4.MAKING THE OBJECT PUBLIC



## 5.CHECKING THE S3 LINK TO THE BROWSER





# SCREENSHOTS OF REKOGNITION

## 1.FACE DETECT

The screenshot shows the Amazon Rekognition console interface. The left sidebar contains a navigation menu with options like Custom Labels, Demos, Object and scene detection, Image moderation, Facial analysis (selected), Celebrity recognition, Face comparison, Text in image, Video Demos, Video analysis, Metrics, and Additional Resources. The main content area is titled 'Facial analysis' and includes a sub-header '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	17 - 29 years old
smiling	91.7 %
appears to be happy	99.5 %
wearing glasses	99.8 %

Below the image, there are two buttons: 'Choose a sample image' and 'Use your own image'. The 'Use your own image' button has a note: 'Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.'

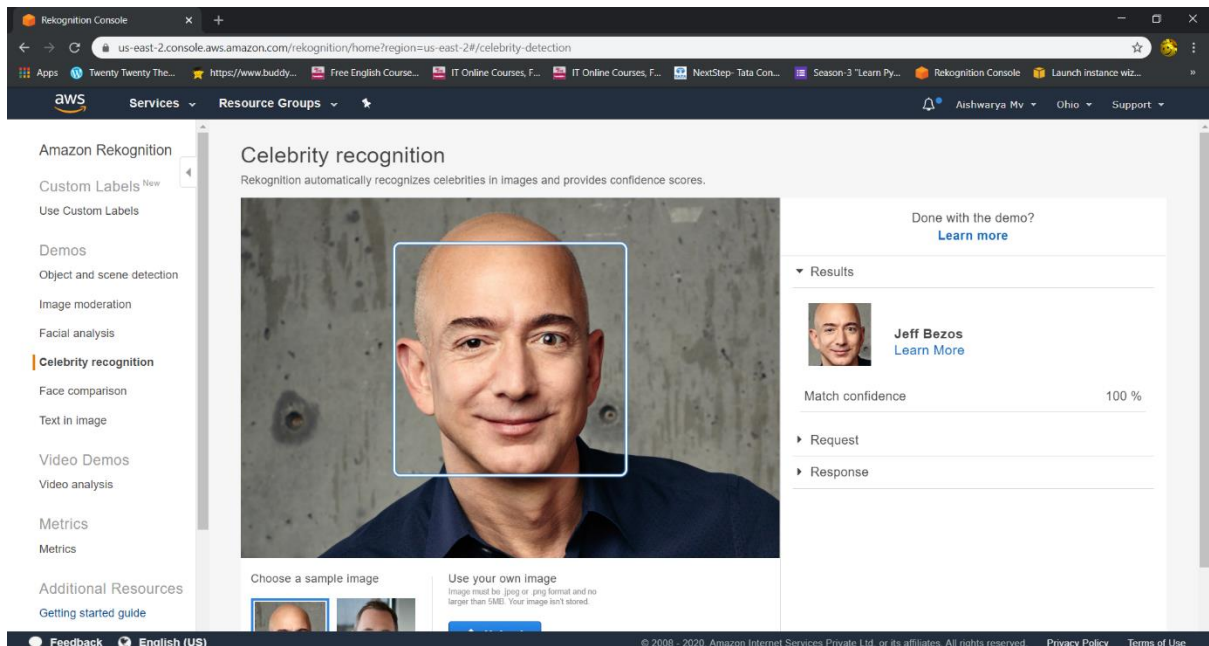
## 2.FACE COMPARE

The screenshot shows the Amazon Rekognition console interface for the 'Face comparison' demo. The left sidebar is similar to the previous screenshot, but 'Face comparison' is selected. The main content area is titled 'Face comparison' and includes a sub-header 'Compare faces to see how closely they match based on a similarity percentage.' Below this are two columns: 'Reference face' and 'Comparison faces'. The 'Reference face' column shows a single image of a woman. The 'Comparison faces' column shows two images of the same woman. To the right of these images is a 'Results' section showing the similarity percentage between the two faces:

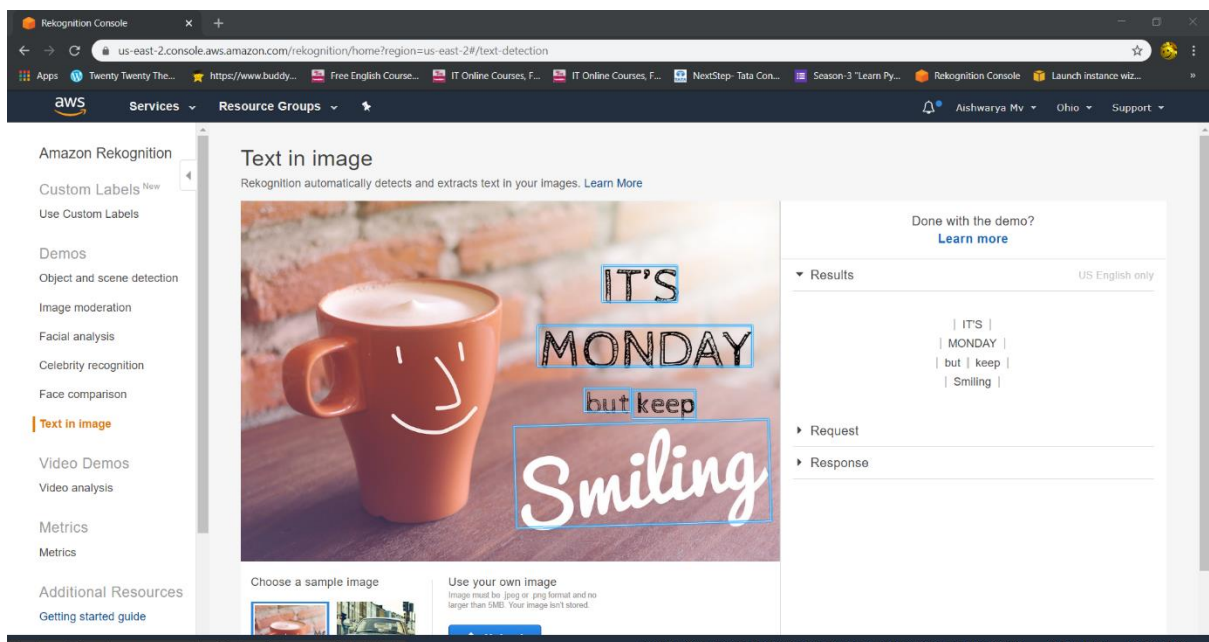
Reference face	Comparison faces	Similarity
		99.8 %
		Not similar
		Not similar

Below the images, there are two buttons: 'Choose a sample image' and 'Choose a sample image'.

### 3.CELEBRITY RECOGNITION

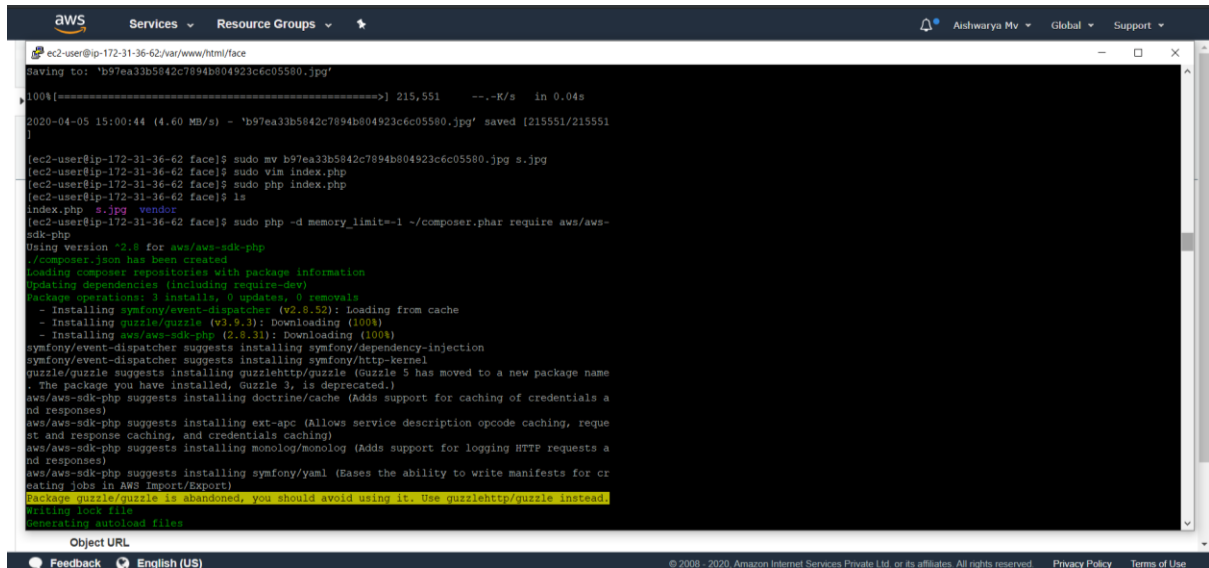


### 4.TEXT IN IMAGE



# SCREENSHOTS OF EC2 & S3

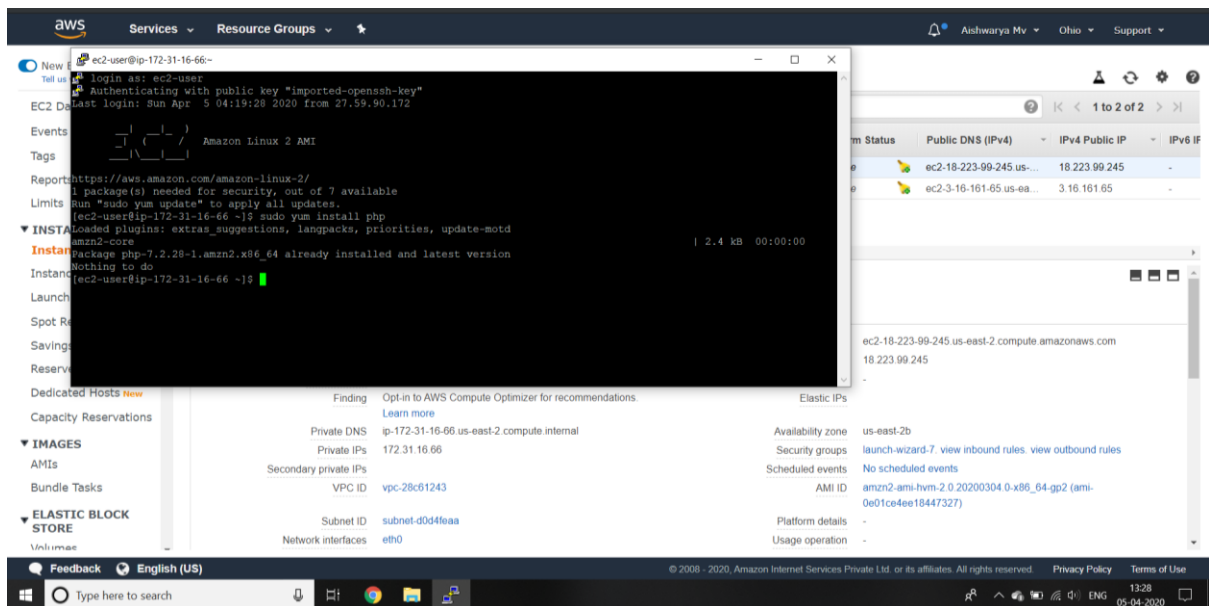
## 1.INSTALLING AWS-SDK



```
aws
Services Resource Groups
Aishwarya Mv Global Support
ec2-user@ip-172-31-36-62:/var/www/html/face
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'
100%[=====] 215,551  --.-R/s  in 0.04s
2020-04-05 15:00:44 (4.60 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [215551/215551]

[ec2-user@ip-172-31-36-62 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s.jpg
[ec2-user@ip-172-31-36-62 face]$ sudo vim index.php
[ec2-user@ip-172-31-36-62 face]$ sudo php index.php
[ec2-user@ip-172-31-36-62 face]$ ls
index.php s.jpg vendor
[ec2-user@ip-172-31-36-62 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 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 (2.8.33): 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 a
nd responses)
aws/aws-sdk-php suggests installing ext-apc (Allows service description opcode caching, requ
st and response caching, and credentials caching)
aws/aws-sdk-php suggests installing monolog/monolog (Adds support for logging HTTP requests a
nd responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write manifests for cr
eating jobs in AWS Import/Export)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Writing lock file
Generating autoload files
Object URL
Feedback English (US)
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```

## 2.INSTALLING PHP



aws
Services Resource Groups
Aishwarya Mv Ohio Support

ec2-user@ip-172-31-16-66--
login as: ec2-user
Authenticating with public key "imported-openssh-key"
EC2 Default login: Sun Apr 5 04:19:28 2020 from 27.59.90.172

Events
Tags
Reports: https://aws.amazon.com/amazon-linux-2/
Limits: 1 package(s) needed for security, out of 7 available
Limits: Run "sudo yum update" to apply all updates.
(ec2-user@ip-172-31-16-66 ~)\$ sudo yum install php
Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB 00:00:00
Installing package: php-7.2.28-1.amzn2.x86\_64 already installed and latest version
Nothing to do
(ec2-user@ip-172-31-16-66 ~)\$

Private DNS ip-172-31-16-66.us-east-2.compute.internal
Private IPs 172.31.16.66
Secondary private IPs
VPC ID vpc-28c61243
Subnet ID subnet-d044feaa
Network interfaces eth0

Availability zone us-east-2b
Security groups launch-wizard-7, view inbound rules, view outbound rules
Scheduled events No scheduled events
AMI ID amzn2-ami-hvm-2.0.20200304.0.x86\_64-gp2 (ami-0e01ce4ee18447327)
Platform details
Usage operation

ec2-18-223-99-245 us-east-2.compute.amazonaws.com
18.223.99.245

Feedback English (US)
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### 3. INDEX.PHP FILE CODE

```
aws
Services Resource Groups
ec2-user@ip-172-31-36-62:/var/www/html/face
$ sudo /bin/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-xsl 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 = 'aws-last-buc';
$keyname = 's.jpg';

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

try {
    // upload data.
    $result = $s3->putObject([
        -- INSERT --
    ]
    );
} catch (Exception $e) {
    echo "Error: " . $e->getMessage() . "\n";
}

// Print the object URL
echo "Object URL: " . $result->get('ObjectURL') . "\n";
}
```

### 4. UPLOAD SUCCESS SCREENSHOT

Amazon S3

Buckets

Batch operations

Access analyzer for S3

Block public access (account settings)

Feature spotlight

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.

ec2-user@ip-172-31-36-62:/var/www/html/face

```
ec2-user@ip-172-31-36-62:/var/www/html/face$ sudo /bin/wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s.jpg
$ sudo php index.php
Image upload done... Here is the URL: https://aws-last-buc.s3.us-east-2.amazonaws.com/s.jpg
```

Create bucket

bucket created

20-04-03T06:47:17.000Z

20-04-05T10:56:36.000Z

20-04-05T14:37:05.000Z

20-04-04T13:00:40.000Z

# SCREENSHOT OF EC2 & REKOGNITION

## 1.FACE DETECT SUCCESS SCREENSHOT

