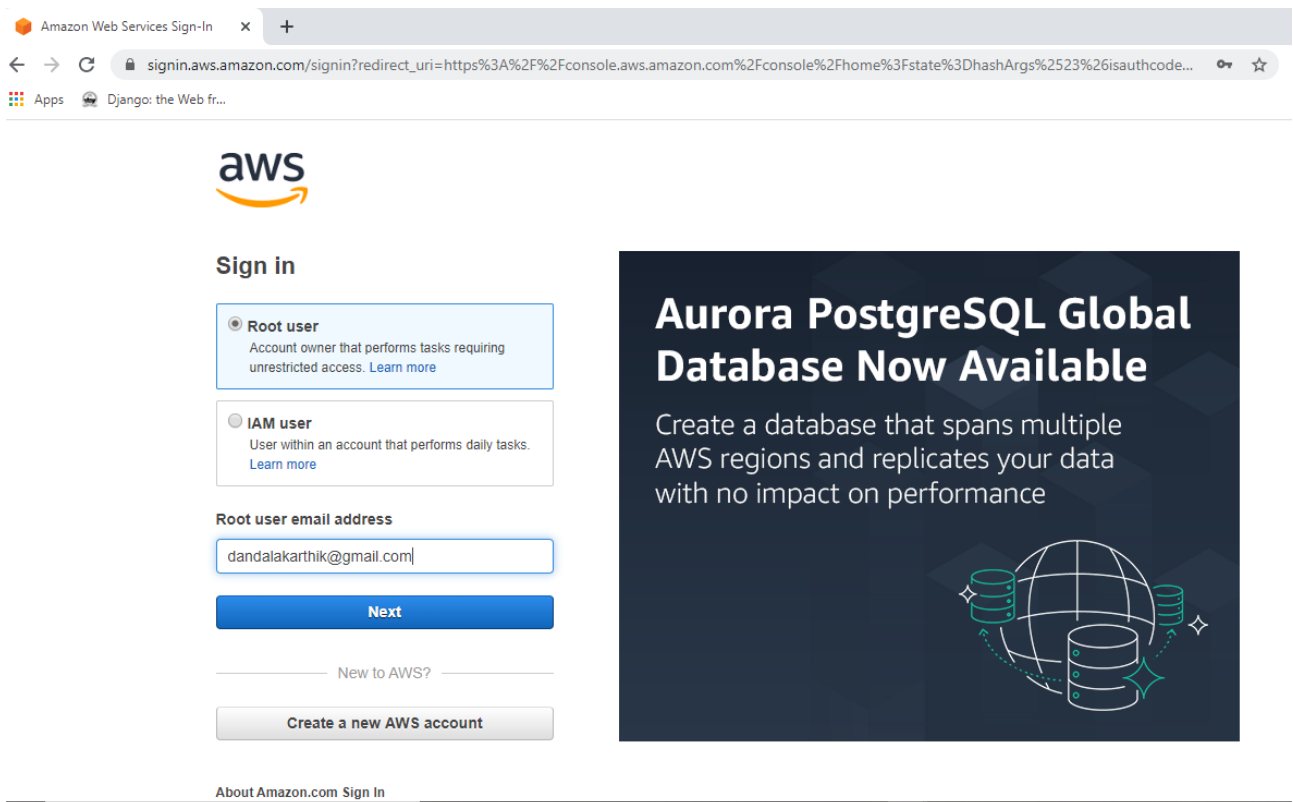


AWS-Face Detection Application

Name-D Karthik

1)AWS login screen with username



The screenshot shows the AWS Sign-In page in a web browser. The browser's address bar displays the URL: `signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate%3DhashArgs%2523%26isauthcode...`. The page features the AWS logo at the top left. Below it, the "Sign in" section contains two radio button options: "Root user" (selected) and "IAM user". The "Root user" option is described as "Account owner that performs tasks requiring unrestricted access." Below these options is a text input field for the "Root user email address" containing the email `dandalakarthik@gmail.com`. A blue "Next" button is positioned below the email field. At the bottom of the sign-in section, there are links for "New to AWS?" and "Create a new AWS account". To the right of the sign-in section is a large promotional banner for "Aurora PostgreSQL Global Database Now Available", which includes a graphic of a globe and database cylinders.

Amazon Web Services Sign-In

signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate%3DhashArgs%2523%26isauthcode...

Apps Django: the Web fr...

aws

Sign in

☒ Root user
Account owner that performs tasks requiring unrestricted access. [Learn more](#)

☐ IAM user
User within an account that performs daily tasks. [Learn more](#)

Root user email address

dandalakarthik@gmail.com

Next

New to AWS?

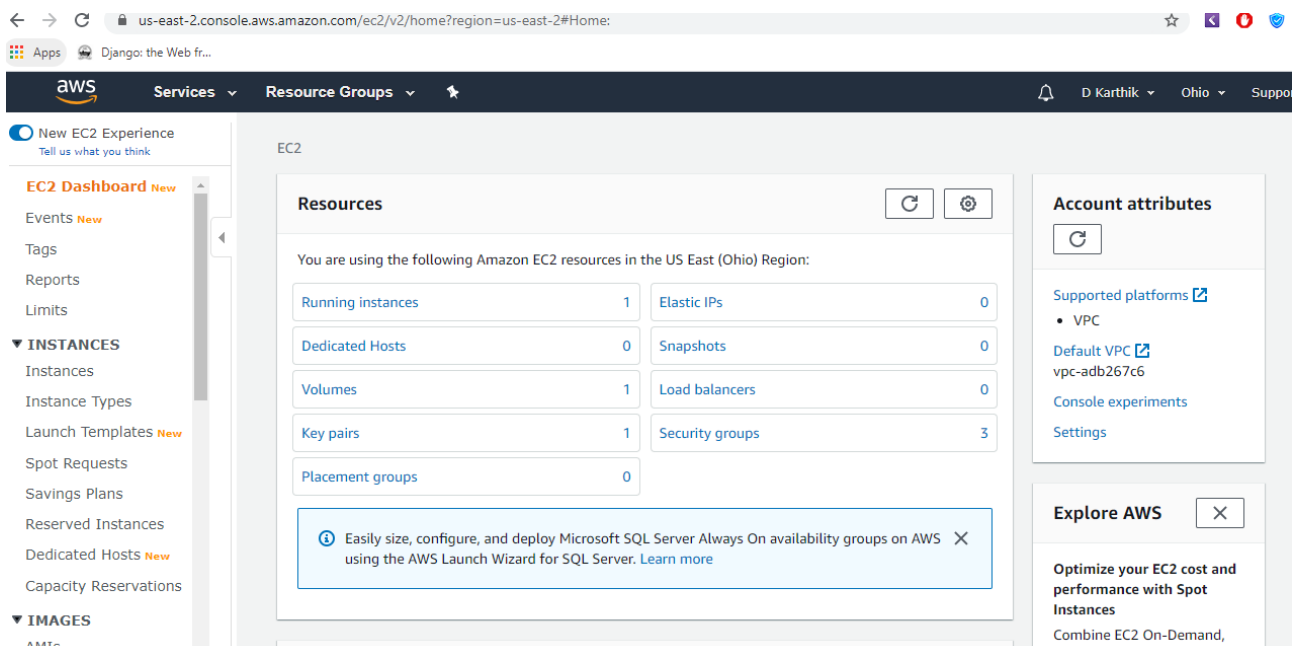
Create a new AWS account

About Amazon.com Sign In

Aurora PostgreSQL Global Database Now Available

Create a database that spans multiple AWS regions and replicates your data with no impact on performance

2)EC2-DashBoard



The screenshot displays the AWS Management Console's EC2 Dashboard. The browser's address bar shows the URL: `us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Home:`. The dashboard header includes the AWS logo, navigation tabs for "Services" and "Resource Groups", and user information for "D Karthik" in the "Ohio" region. The left sidebar contains a navigation menu with options like "New EC2 Experience", "EC2 Dashboard", "Events", "Tags", "Reports", "Limits", "INSTANCES", "IMAGES", and "AMI's". The main content area is titled "EC2" and features a "Resources" section. This section states, "You are using the following Amazon EC2 resources in the US East (Ohio) Region:" and displays a table of resource counts. To the right of the resources table is an "Account attributes" section with links for "Supported platforms", "Default VPC", "Console experiments", and "Settings". At the bottom right, there is an "Explore AWS" section with a close button and text about optimizing EC2 cost and performance with Spot Instances.

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

Apps Django: the Web fr...

aws Services Resource Groups

D Karthik 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

▼ IMAGES

AMI's

EC2

Resources

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

Running instances	1	Elastic IPs	0
Dedicated Hosts	0	Snapshots	0
Volumes	1	Load balancers	0
Key pairs	1	Security groups	3
Placement groups	0		

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

Account attributes

Supported platforms

- VPC

Default VPC [vpc-adb267c6](#)

Console experiments

Settings

Explore AWS

Optimize your EC2 cost and performance with Spot Instances

Combine EC2 On-Demand,

3)S3-Dashboard

The screenshot shows the AWS S3 console interface. The left sidebar contains navigation links for Buckets, Batch operations, Access analyzer for S3, Block public access (account settings), and Feature spotlight (2). The main content area displays 'Buckets (1)' with a search bar and a table of buckets. The table has columns for Name, Region, Access, and Bucket created. One bucket is listed: 'dkarthik-aws' in 'US East (Ohio) us-east-2' region, with 'Objects can be public' access and a creation time of '2020-03-28T16:38:11.000Z'.

Name	Region	Access	Bucket created
dkarthik-aws	US East (Ohio) us-east-2	Objects can be public	2020-03-28T16:38:11.000Z

4)Rekognition Dashboard

The screenshot shows the AWS Rekognition console interface. The left sidebar lists various features under 'Amazon Rekognition', including 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 banner for 'Amazon Rekognition' with the tagline 'Deep learning-based visual analysis service' and buttons for 'Try Demo' and 'Download SDKs'. Below the banner, there are three sections: 'Easily Integrate Powerful Visual Analysis into Your App', 'Continuously Learning', and 'Integrated with AWS Service'.

Amazon Rekognition
Deep learning-based visual analysis service
Search, verify, and organize millions of images and videos

Try Demo
Download SDKs

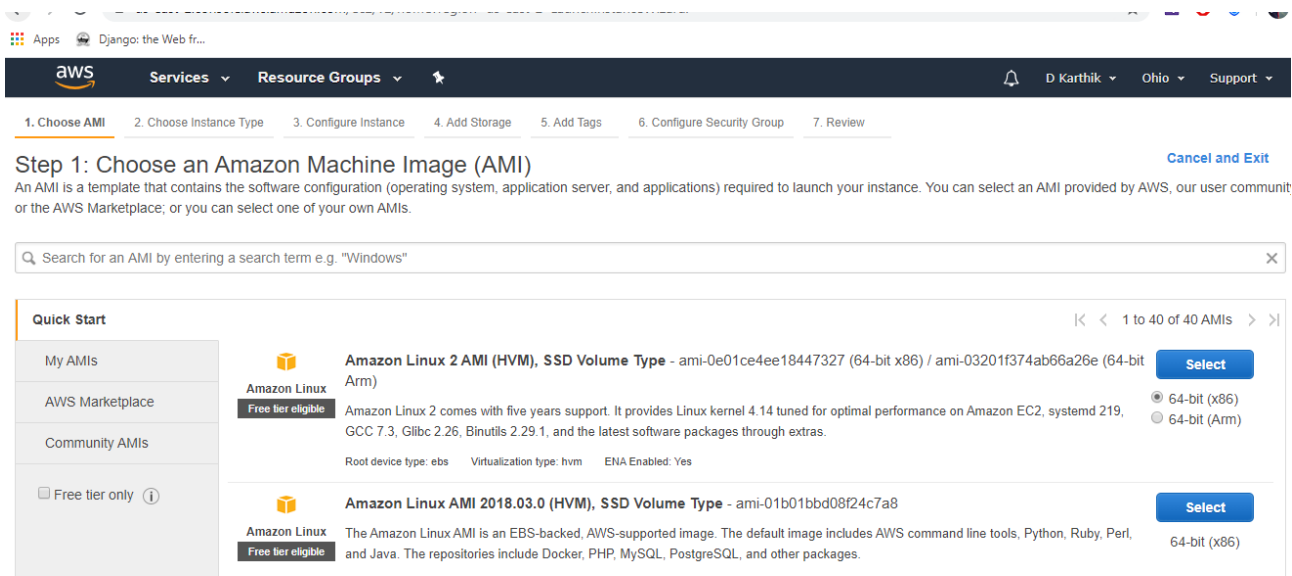
Easily Integrate Powerful Visual Analysis into Your App
Amazon Rekognition is designed to use

Continuously Learning
Amazon Rekognition is designed to use

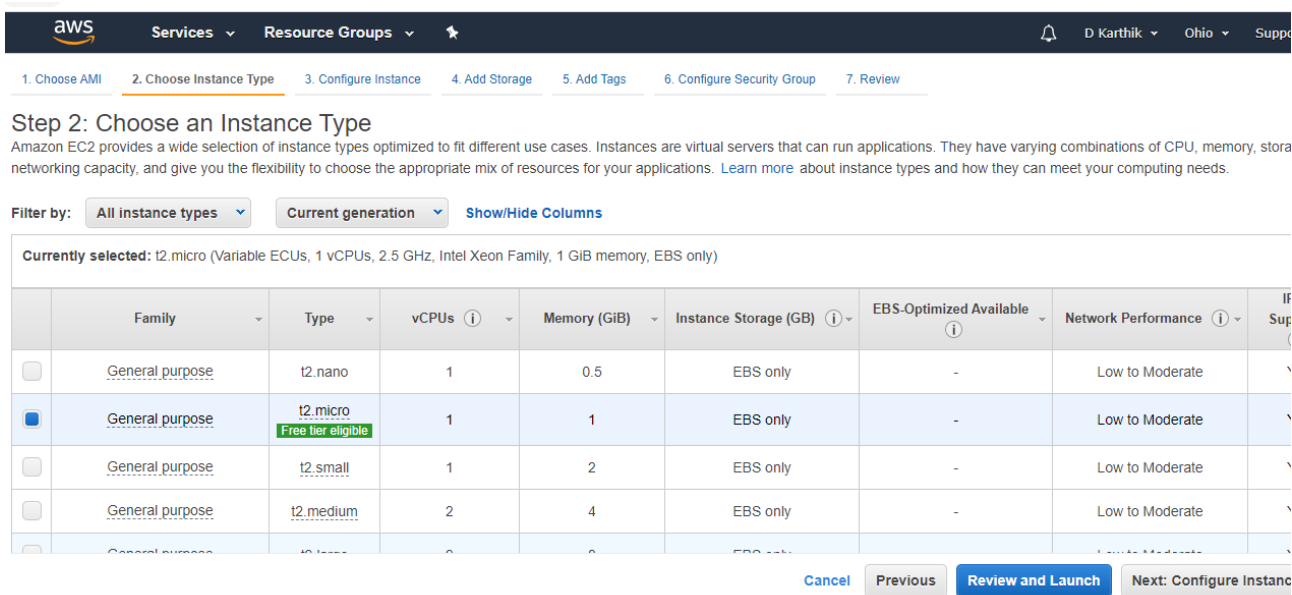
Integrated with AWS Service
Amazon Rekognition is designed to work with

Screenshot for EC2

5)choosing an AMI



6)choosing an instance type



7) Adding Storage

Apps

Django: the Web fr...

aws

Services

Resource Groups

★

🔔

D Karthik

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 Encrypt

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

8) Configure Security Group

Apps

Django: the Web fr...

aws

Services

Resource Groups

★

🔔

D Karthik

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:

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

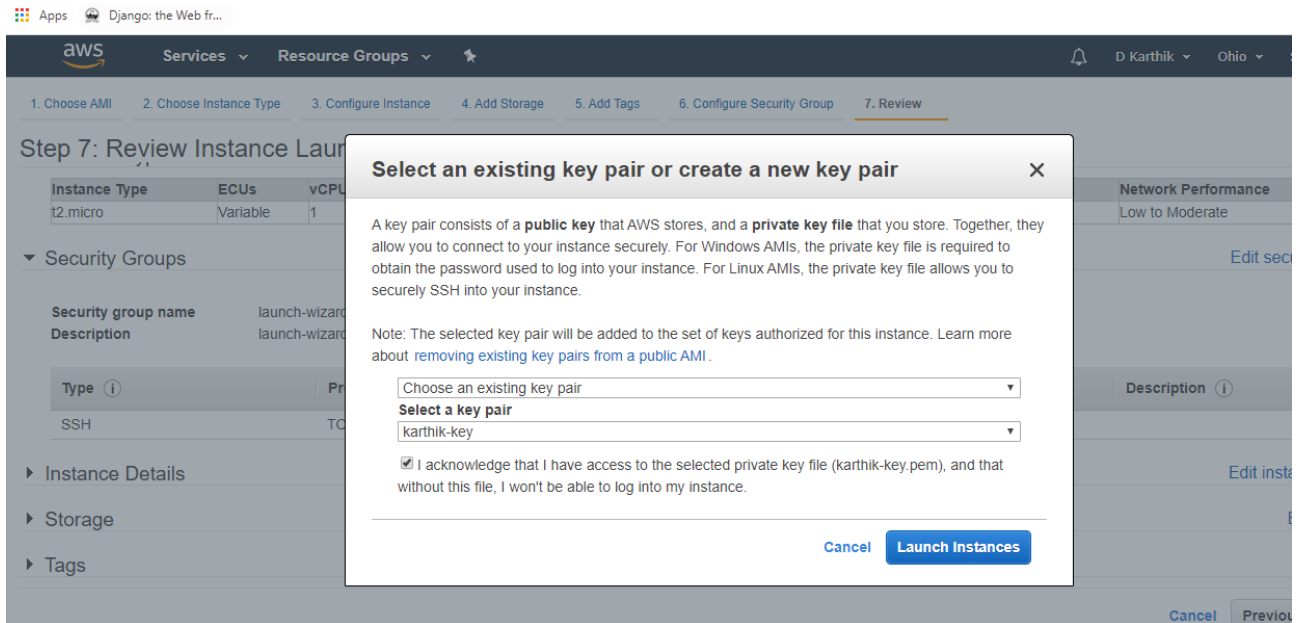
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel

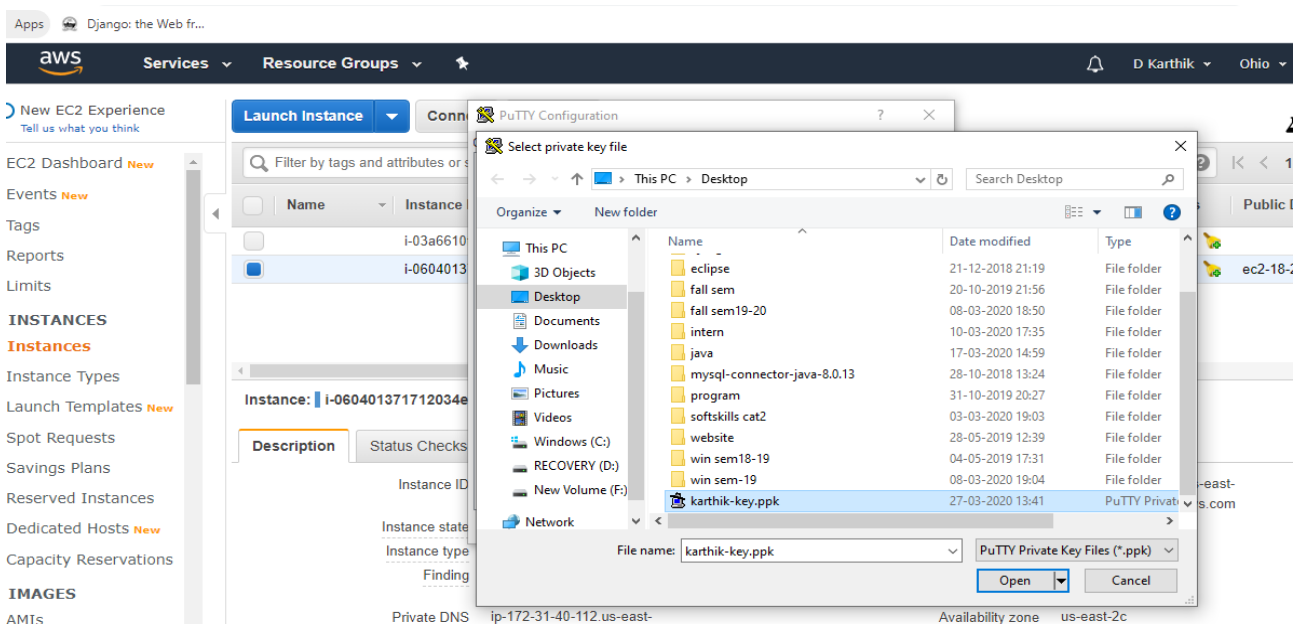
Previous

Review and Launch

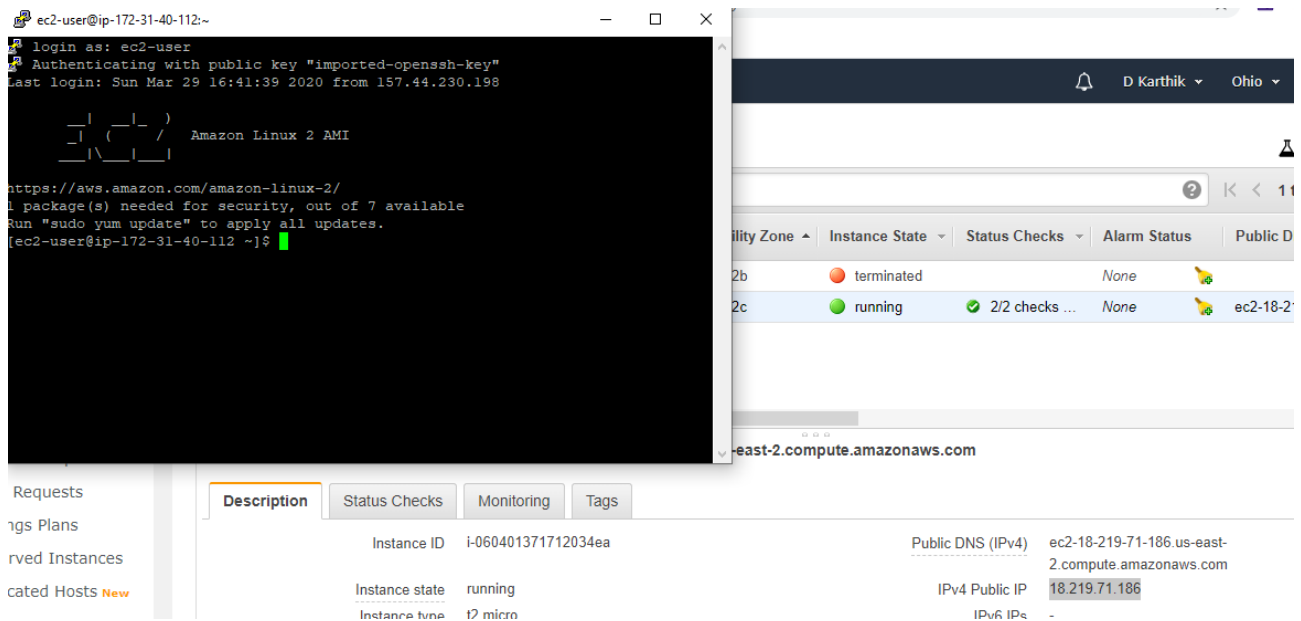
9)Key Pair Download



10)Puttygen conversion from pem to ppk



11) Logged in Ec2 Black Screen



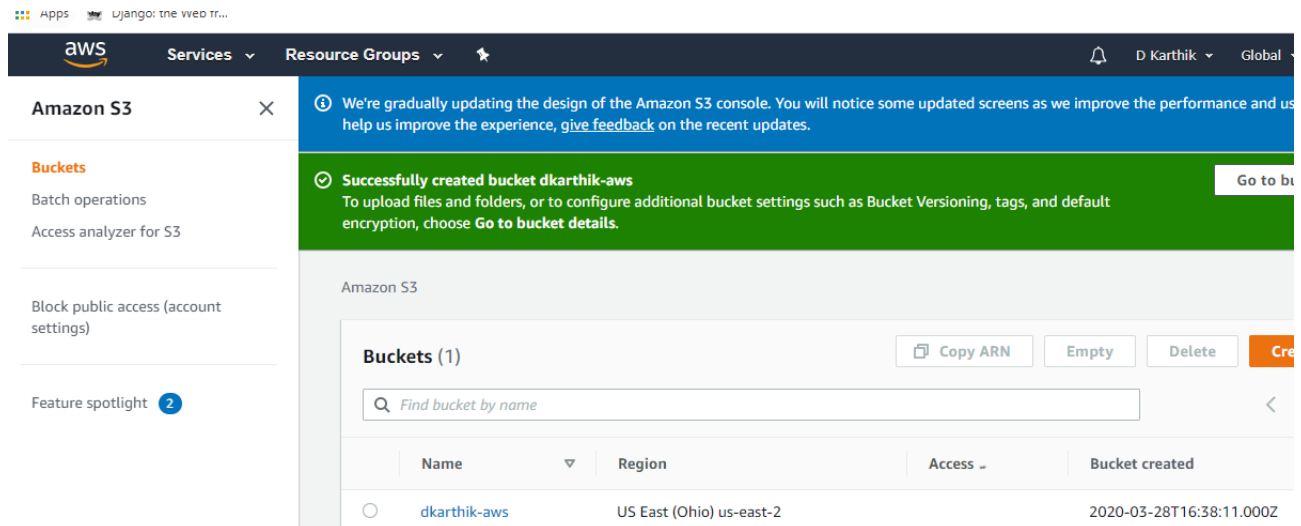
The screenshot shows an AWS Management Console interface with an EC2 instance named 'ec2-18-219-71-186-us-east-2'. The instance is in a 'running' state. A terminal window is open on the instance, showing the login process and system updates.

```
ec2-user@ip-172-31-40-112:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Last login: Sun Mar 29 16:41:39 2020 from 157.44.230.198  
  
 _ _ | _ _ |  
 _ | ( _ _ ) /  
 _ | \ _ _ |  
 _ _ | _ _ |  
  
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-172-31-40-112 ~]$
```

The console shows the instance details, including the Instance ID (i-060401371712034ea), Instance state (running), and Instance type (t2.micro). The Public DNS (IPv4) is ec2-18-219-71-186-us-east-2.compute.amazonaws.com and the IPv4 Public IP is 18.219.71.186.

Screenshot for S3

12) creating a bucket



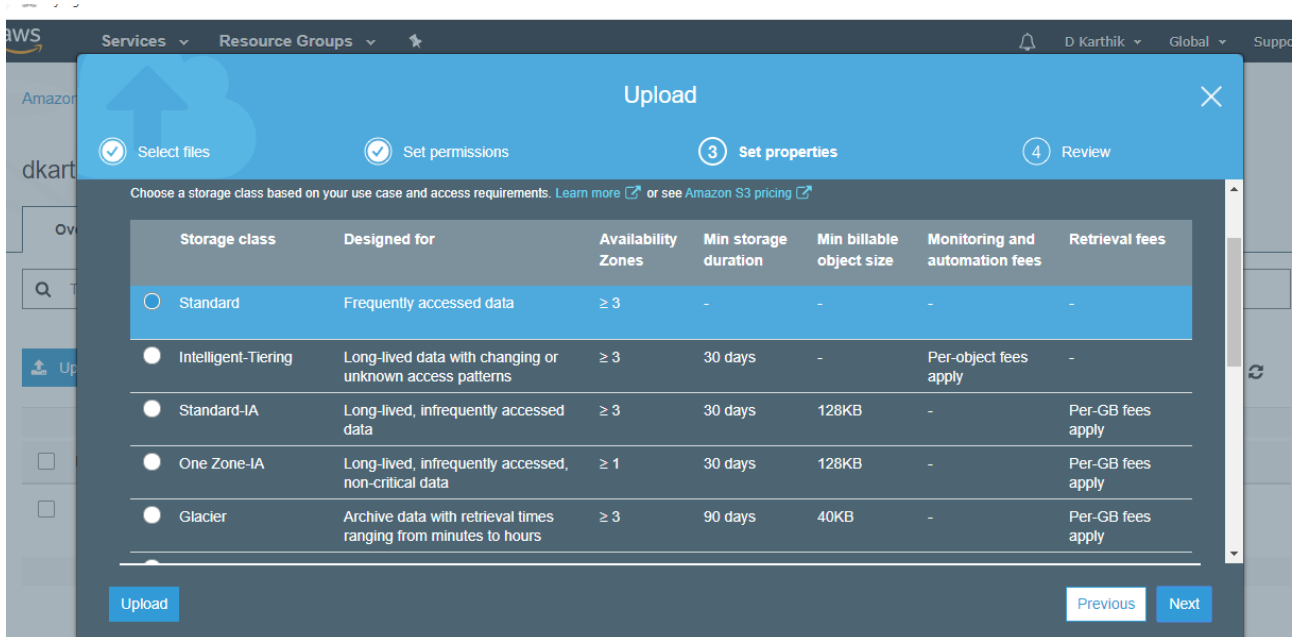
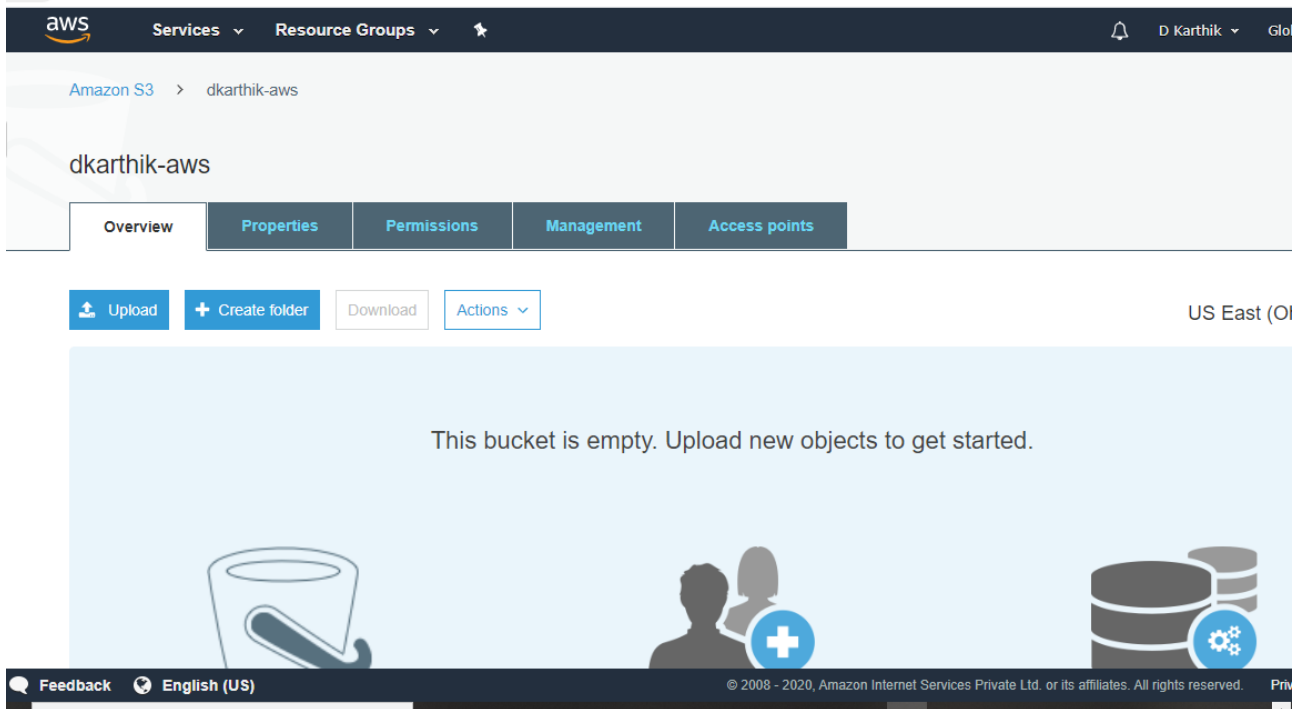
The screenshot shows the AWS Management Console interface for Amazon S3. A notification banner at the top indicates that a bucket named 'dkarthik-aws' has been successfully created. The console shows the bucket details, including the Name (dkarthik-aws), Region (US East (Ohio) us-east-2), and Bucket created time (2020-03-28T16:38:11.000Z).

Amazon S3

Buckets (1)

Name	Region	Access	Bucket created
dkarthik-aws	US East (Ohio) us-east-2		2020-03-28T16:38:11.000Z

13) Uploading an object



aws Services Resource Groups ukarthik-aws

Overview Properties Permissions Management Access points

Q 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
<input type="checkbox"/> index.html	Mar 28, 2020 10:23:16 PM GMT+0530	59.0 B	Standard

Viewing 1 to 1

Upload 100% Successful View details

14)Enabling Static Website

Apps Django: the Web fr...

aws Services Resource Groups ukarthik-aws

Overview Properties Permissions Management Access points

Versioning

Keep multiple versions of an object in the same bucket.

[Learn more](#)

☐ Disabled

Server access logging

Set up access log records that provide details about access requests.

[Learn more](#)

☐ Disabled

Static website hosting

Host a static website, which does not require server-side technologies.

[Learn more](#)

☒ Bucket hosting

Object-level logging

Record object-level API calls to the...

Default encryption

Automatically encrypt objects when...

15) Making the object public

Apps Django: the Web fr...

aws Services Resource Groups

Block public access (bucket settings)

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 all your S3 buckets and 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 your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access Off [Edit](#)

- Block public access to buckets and objects granted through *new* access control lists (ACLs) Off
- Block public access to buckets and objects granted through *any* access control lists (ACLs) Off
- Block public access to buckets and objects granted through *new* public bucket or access point policies Off
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies Off

16) checking the S3 link on the browser

Apps Django: the Web fr...

aws Services Resource Groups

Open Download Download as Make public Copy path

Owner
2428c3e2485895870c39dfa113078d9dde2123d1bb8d2d20c670d8bd702a8382

Last modified
Mar 28, 2020 10:23:16 PM GMT+0530

Etag
15374d4a46933a4698e9598ba5ba0878

Storage class
Standard

Server-side encryption
None

Size
59.0 B

Key
index.html

Object URL
<https://dkarthik-aws.s3.us-east-2.amazonaws.com/index.html>

https://dkarthik-aws.s3.us-east-2 x +

dkarthik-aws.s3.us-east-2.amazonaws.com/index.html

Apps Django: the Web fr...

Hello this is karthik from vit university stay home be safe

Screenshots for Rekognition

17)Face Detect

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

Apps Django: the Web fr...


aws Services Resource Groups

D Karthik Ohio Support


Learn more

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



▼ Results

	looks like a face	99.9 %
	appears to be male	97.1 %
	age range	22 - 34 years old
	not smiling	95.5 %
	appears to be calm	90.6 %
	not wearing glasses	99.5 %

Show more

18)Face Compare

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



Apps Django: the Web fr...

aws Services Resource Groups


D Karthik 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



Choose a sample image






Choose a sample image



Use your own image

Use your own image

Similarity 89.8 %



Feedback English (US)

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19)Celebrity Recognition

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

Apps Django: the Web fr...

aws Services Resource Groups

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

Feedback English (US)

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Results

Yuvraj Singh

Match confidence 95 %

Request

Response

20)Text In Image

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

Apps Django: the Web fr...

aws Services Resource Groups

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

Choose a sample image

Use your own image
Image must be .jpeg or .png format and no

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

Results US English only

"YOU DON'T PLAY FOR THE CROWD
YOU PLAY FOR THE COUNTRY."
- MS DHONI

Request

Response

Screenshot for Ec2 and S3

21)Installing php

The screenshot shows the AWS Management Console with a terminal window open on an EC2 instance. The terminal output shows the user logging in as 'ec2-user' and running commands to update the system and install PHP. The AWS console interface shows the 'Instances' tab with a list of instances, including 'ec2-18-219-71-186.us-east-2.compute.amazonaws.com'.

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Tue Mar 31 10:21:11 2020 from 157.48.27.218

_ _ _ _ _
| |   ( _ _ | )
|_|  ( _ _ |_)
 _ _ _ _ _

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-172-31-40-112 ~]$ sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                | 2.4 kB    00:00
amzn2extra-docker                         | 1.8 kB    00:00
Package httpd-2.4.41-1.amzn2.0.1.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-40-112 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-40-112 ~]$
```

22)installing aws-sdk

The screenshot shows a terminal window with the output of a Composer command to install the AWS SDK for PHP. The output shows the installation of the SDK and its dependencies, including Symfony Event Dispatcher, Guzzle, and Doctrine Cache. A warning message indicates that the Guzzle package is abandoned and should be replaced with GuzzleHttp.

```
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 caching, request and response caching, and credentials caching)
aws/aws-sdk-php suggests installing monolog/monolog (Adds support for logging HTTP requests and responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write manifests for creating 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
[ec2-user@ip-172-31-40-112 face]$
```

```

[ec2-user@ip-172-31-40-112 ~]$ 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-172-31-40-112 ~]$ clear
[ec2-user@ip-172-31-40-112 ~]$

```

D Karthik Ohio

1

Zone	Instance State	Status Checks	Alarm Status	Public IP
	running	2/2 checks ...	None	ec2-18-219-71-186.us-east-2.compute.amazonaws.com

...
st-2.compute.amazonaws.com

Templates New

requests
s Plans
ad Instances

Description
Status Checks
Monitoring
Tags

Instance ID i-060401371712034ea
Instance state running
Instance type t2.micro

Public DNS (IPv4) ec2-18-219-71-186.us-east-2.compute.amazonaws.com
IPv4 Public IP 18.219.71.186
IPv6 IPs -

23)index.php 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');

```

```
// error_reporting(0);

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

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

$bucket = 'dkarthik-aws';
$keyname = 's.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;

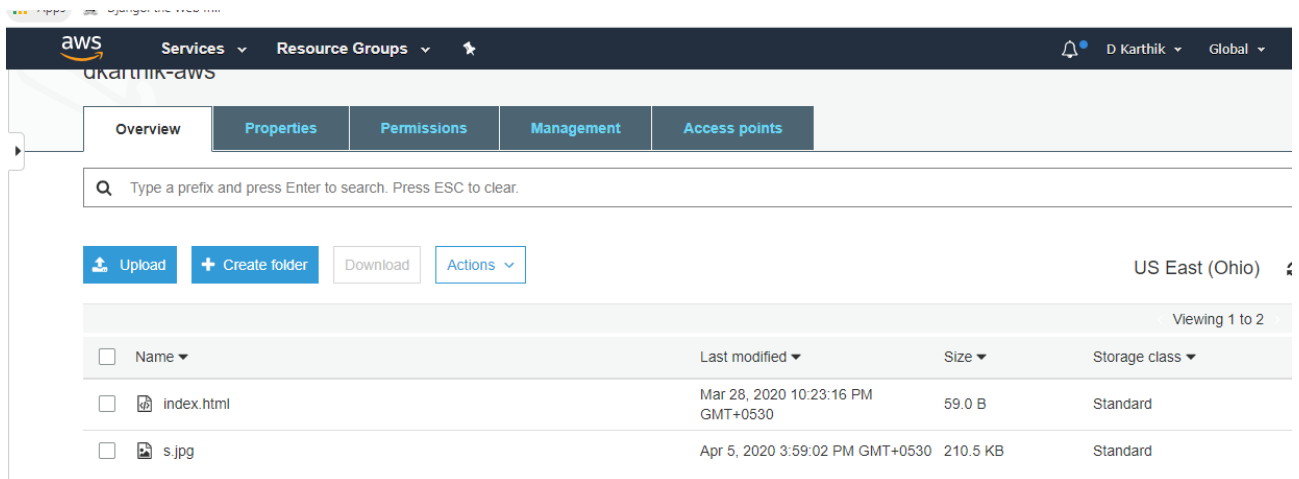
    $rekognition = new RekognitionClient([
        'region' => 'us-east-2',
        'version' => 'latest',
    ]);

    $result = $rekognition->detectFaces([
        'Attributes' => ['DEFAULT'],
        'Image' => [
            'S3Object' => [
                'Bucket' => $bucket,
                'Name' => $keyname,
                'Key' => $keyname,
            ],
        ],
    ]);

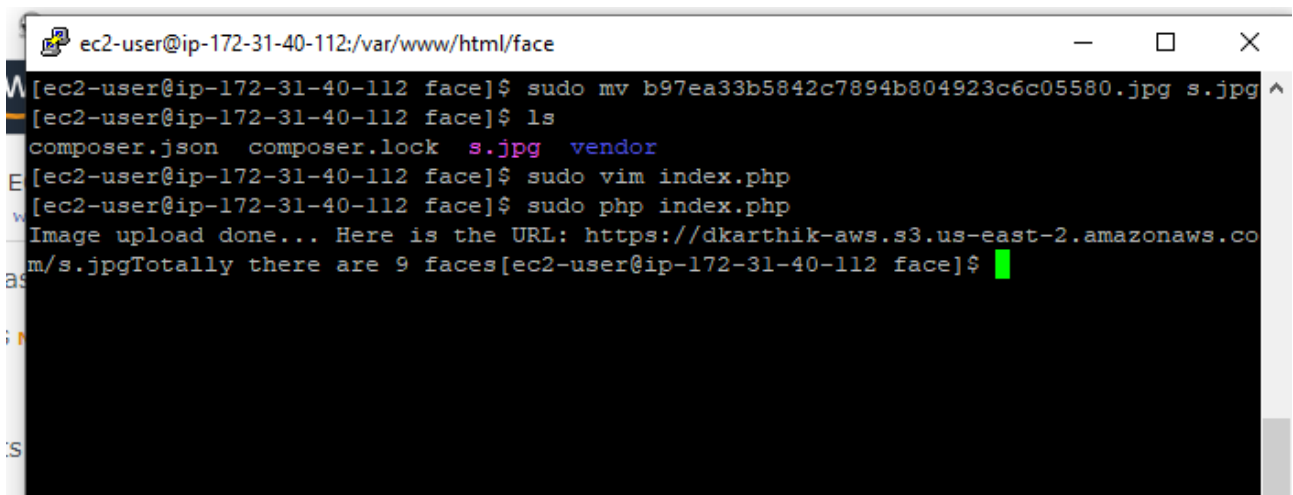
    echo "Totally there are " . count($result["FaceDetails"]) . " faces";
}
} catch (Exception $e) {
    echo $e->getMessage() . PHP_EOL;
}
}
```

24)Image upload

```
[ec2-user@ip-172-31-40-112 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s.jpg
[ec2-user@ip-172-31-40-112 face]$ ls
composer.json composer.lock s.jpg vendor
[ec2-user@ip-172-31-40-112 face]$ sudo vim index.php
[ec2-user@ip-172-31-40-112 face]$ sudo php index.php
Image upload done... Here is the URL: https://dkarthik-aws.s3.us-east-2.amazonaws.co
m/s.jpgTotally there are 9 faces[ec2-user@ip-172-31-40-112 face]$
```

25)Face Detect Success Screenshot



ec2-user@ip-172-31-40-112:/var/www/html/face

aw

aw E

ll us v

: Das

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s

orts

its

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t Requests

ings Plans

ec2-user@ip-172-31-40-112 face]\$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s.jpg

ec2-user@ip-172-31-40-112 face]\$ ls

composer.json composer.lock s.jpg vendor

ec2-user@ip-172-31-40-112 face]\$ sudo vim index.php

ec2-user@ip-172-31-40-112 face]\$ sudo php index.php

Image upload done... Here is the URL: https://dkarthik-aws.s3.us-east-2.amazonaws.com/s.jpg

Totally there are 9 faces

ec2-user@ip-172-31-40-112 face]\$

D Karthik Ohio

1 to 1

Instance State

Status Checks

Alarm Status

Public DNS

running

2/2 checks ...

None

ec2-18-219-7

Scheduled events

AMI ID

Platform details

No scheduled events

amzn2-ami-hvm-2.0.20200304.0-x86_64-gp2 (ami-0e01ce4ee18447327)

-