

## **BUILDING A FACE DETECTION APP ON AWS**

**NAME:** Muvvala Venkata Aravinda Satvik

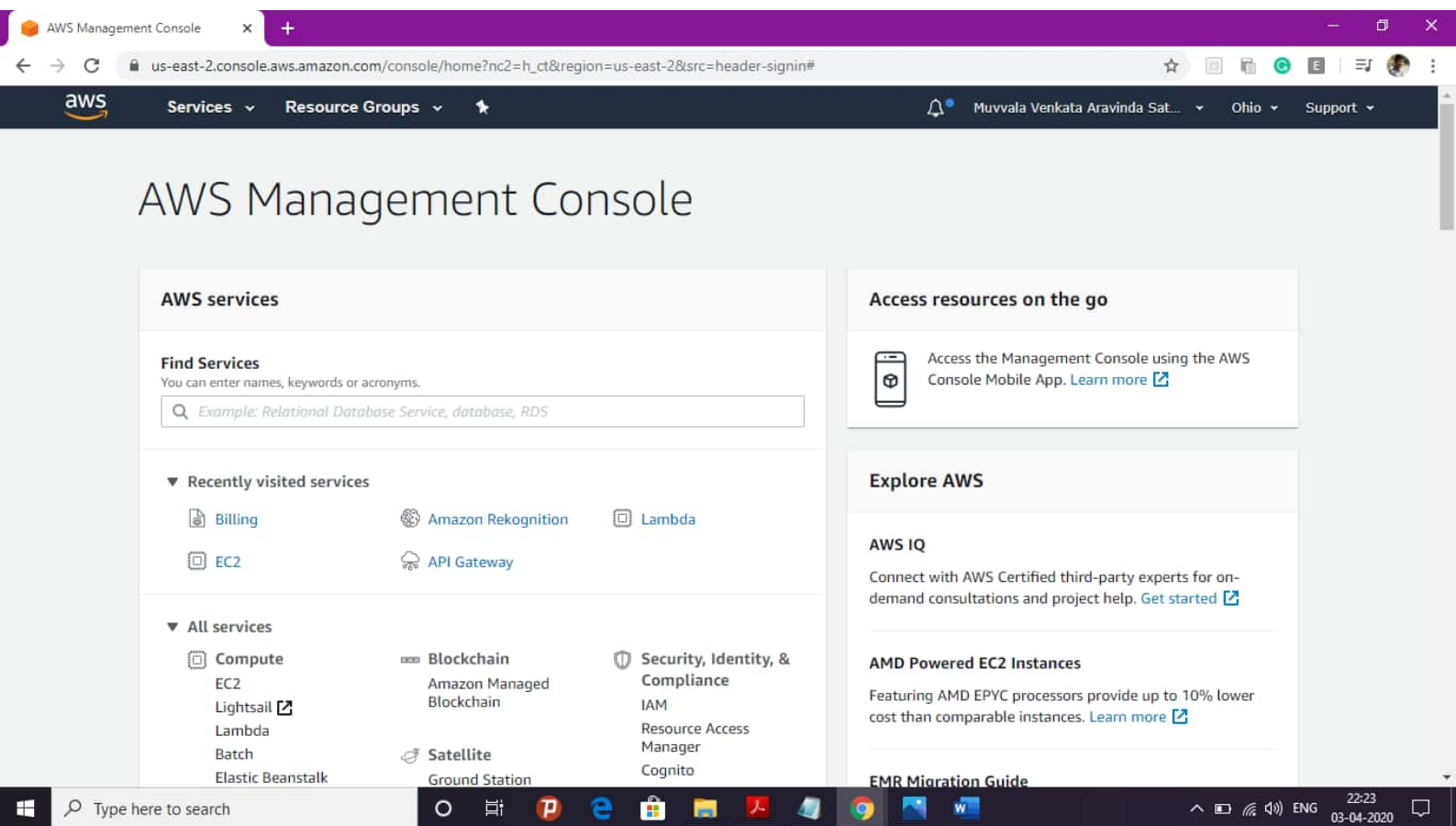
**REG. NO:** 17BEE0060

**BRANCH:** Electrical and Electronics Engineering

**EMAIL ID:** [aravindsatvik@gmail.com](mailto:aravindsatvik@gmail.com)

**CONTACT:** 8190840798

**COLLEGE:** Vellore Institute of Technology, Vellore



EC2 Management Console

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

Services Resource Groups

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

AMIs

Bundle Tasks

Welcome to the new EC2 console!  
We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.

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-d0bb6ebb

Console experiments

Settings

Explore AWS

Easily launch third-party AMI products

Feedback English (US)

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22:23 03-04-2020

S3 Management Console

s3.console.aws.amazon.com/s3/home?region=us-east-2#

Services Resource Groups

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### Amazon S3

- Buckets
- Batch operations
- Access analyzer for S3
- Block public access (account settings)
- Feature spotlight 2

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.

Amazon S3

Buckets (1) Copy ARN Empty Delete Create bucket

Find bucket by name

Name	Region	Access	Bucket created
<input type="radio"/> aravindsatvik-awsbucket	US East (Ohio) us-east-2	Objects can be public	2020-03-28T08:06:55.000Z

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Rekognition Console

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

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# Amazon Rekognition

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


[Try Demo](#)  
[Download SDKs](#)

- Custom Labels <sup>New</sup>  
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




### 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

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EC2 Management Console

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

aws

Services

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Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Cancel and Exit

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

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

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

Select

64-bit (x86)

64-bit (Arm)

Select

64-bit (x86)

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EC2 Management Console

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

aws

Services

Resource Groups

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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

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

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

aws

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1. Choose AMI

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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

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EC2 Management Console

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

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

Please review your instance launch details. You can

**Improve your instances' security**

Your instances may be accessible from the Internet. You can also open additional ports in your security groups.

[Edit security groups](#)

**AMI Details**

**Amazon Linux 2 AMI (HVM), S**

Free tier eligible

Amazon Linux 2 comes with five years of software packages through extras.

Root Device Type: ebs Virtualization type: x86\_64

**Instance Type**

Instance Type	ECUs
t2.micro	Variable

**Network Performance**

Low to Moderate

[Edit instance type](#)

**Launch**

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

#### Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

**Key pair name**

aravindsatvikaws

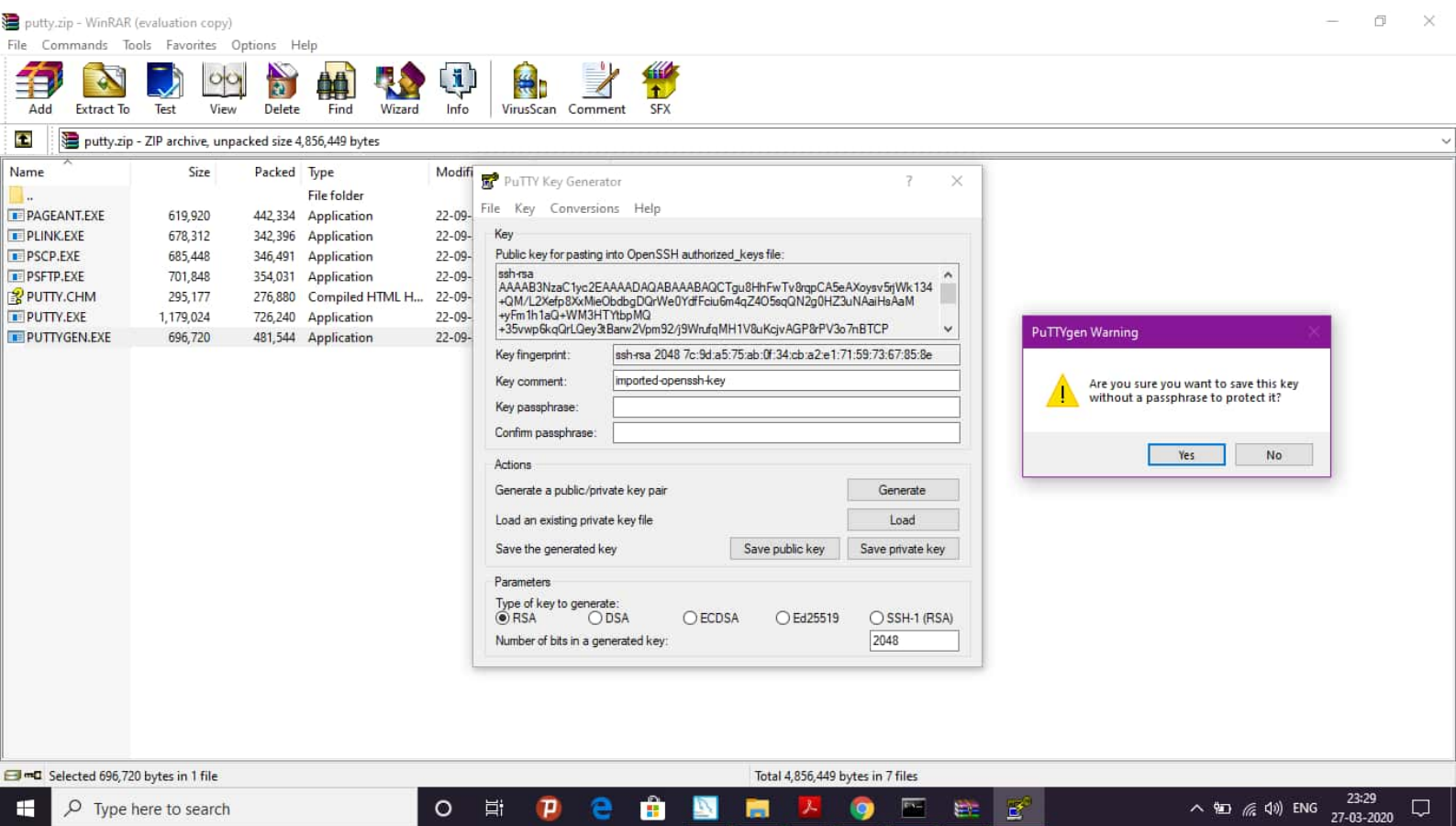
[Download Key Pair](#)

You have to download the **private key file** (\*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

[Cancel](#) [Launch Instances](#)

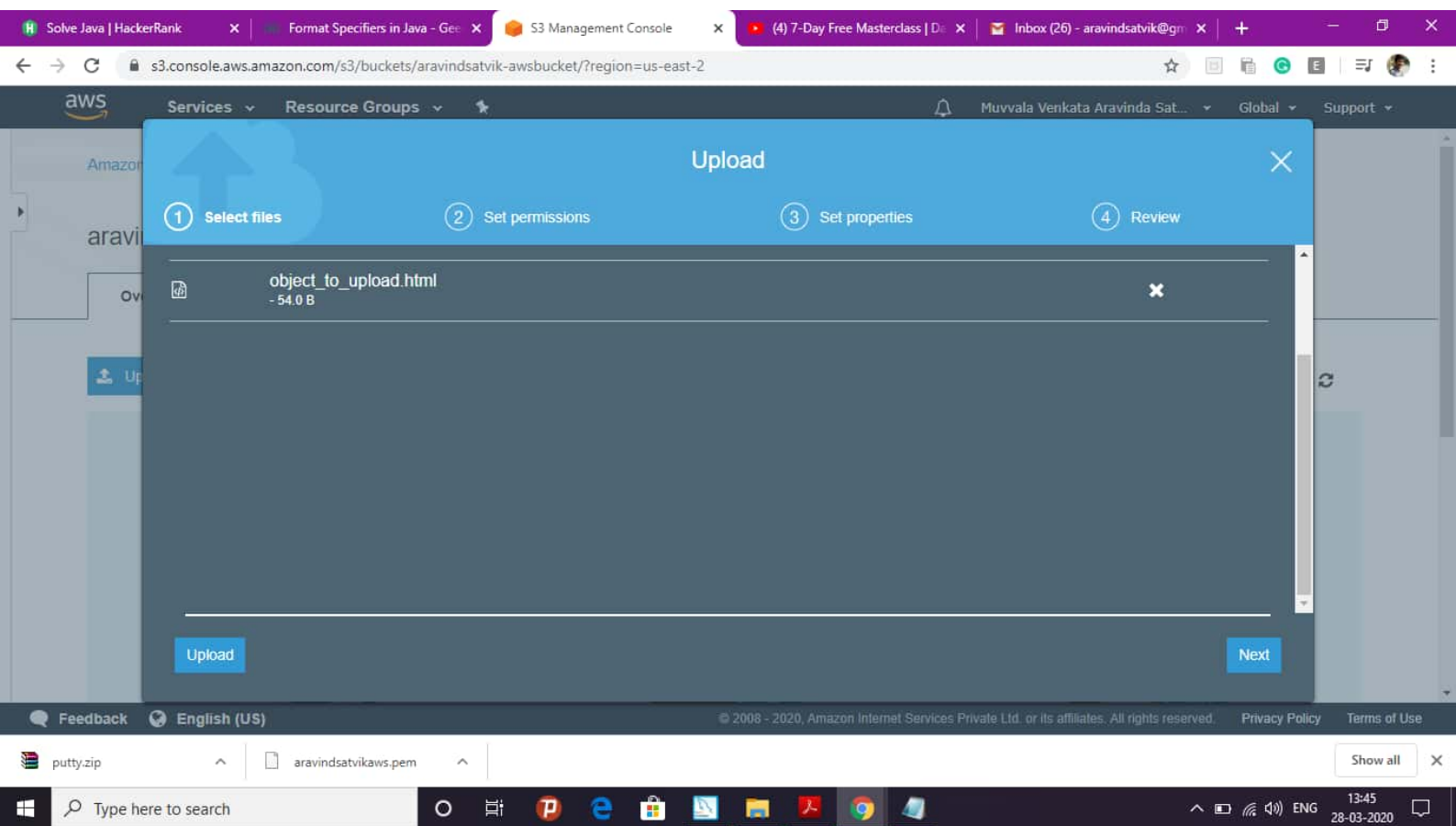
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```
ec2-user@ip-172-31-33-111:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
  
  _ | _ | _ )  
  _ | ( _ | /  Amazon Linux 2 AMI  
  _ | \ _ | _ |  
  
https://aws.amazon.com/amazon-linux-2/  
1 package(s) needed for security, out of 7 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-33-111 ~]$
```





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s3.console.aws.amazon.com/s3/buckets/aravindsatvik-awsbucket/?region=us-east-2&tab=permissions

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### 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](#)

Public access settings updated successfully

**Block all public access**

Off

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

Edit

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s3.console.aws.amazon.com/s3/object/aravindsatvik-awsbucket/object\_to\_upload.html?region=us-east-2&tab=overview

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Amazon S3 > aravindsatvik-awsbucket > object\_to\_upload.html

object\_to\_upload.html Latest version

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

**Owner**  
e490ef295d6fd72cc487bb42ec1338da08d6780bfd4e8d9957f80b72659696ca

**Last modified**  
Mar 28, 2020 1:46:57 PM GMT+0530

**Etag**  
4ae8cb2ce0ece708c5ba2ef79866bfb5

**Storage class**  
Standard

**Server-side encryption**  
None

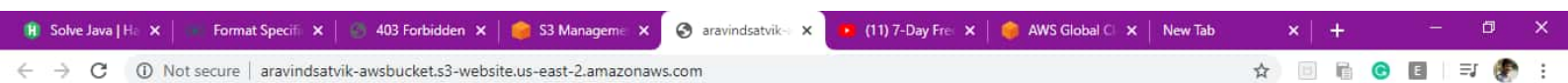
**Size**

Operations 0 In progress 1 Success 0 Error

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I am now creating a HTML file to upload into s3 bucket



Rekognition Console

(1) 7-Day Free Masterclass | Day

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

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Support

Amazon Rekognition

Custom Labels <sup>New</sup>

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

Facial analysis

Get a complete analysis of facial attributes, including confidence scores.



Choose a sample image



Use your own image


Image must be .jpeg or .png format and no larger than 5MB. Your image isn't stored.

Upload or drag and drop

Done with the demo?

Learn more

Results



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 %

Feedback


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Rekognition Console

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

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### Amazon Rekognition

- Custom Labels <sup>New</sup>
- 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


## Face comparison

Compare faces to see how closely they match based on a similarity percentage.


Reference face




Choose a sample image



Comparison faces





Choose a sample image







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

▼ Results

 $=$ 

Similarity 99.8 %

 $\neq$ 

 $\neq$ 

Rekognition Console

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

aws Services Resource Groups

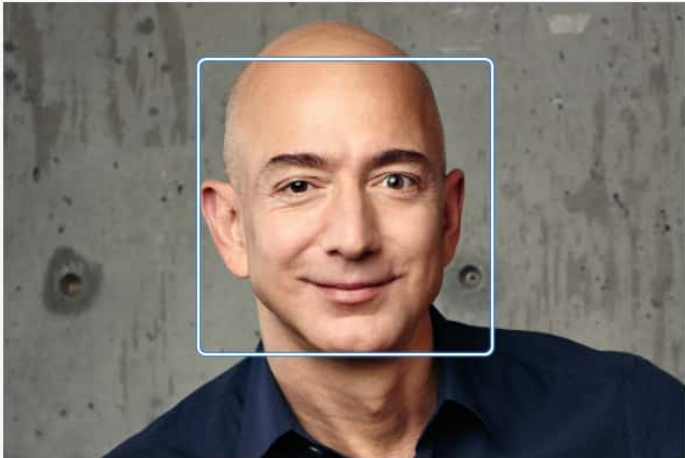
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### Amazon Rekognition

- Custom Labels <sup>New</sup>
- Use Custom Labels
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  - Celebrity recognition**
  - Face comparison
  - Text in image
- Video Demos
  - Video analysis
- Metrics
  - Metrics


## 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 .jpeg or .png format and no larger than 5MB. Your image isn't stored.

[Upload](#) or drag and drop

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

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### Amazon Rekognition

- Custom Labels <sup>New</sup>
- 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

## 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 .jpeg or .png format and no larger than 5MB. Your image isn't stored.

[Upload](#) or drag and drop

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```

ec2-user@ip-172-31-33-111:/var/www/html/face

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

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-33-111 ~]$ 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
amzn2extra-php7.2                         | 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-172-31-33-111 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package php-7.2.28-1.amzn2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-33-111 ~]$ 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.pha
r
Use it: php composer.phar

[ec2-user@ip-172-31-33-111 ~]$ cd /var/www/htmlcd /var/www/html
-bash: cd: /var/www/htmlcd: No such file or directory
[ec2-user@ip-172-31-33-111 ~]$ cd /var/www/html
[ec2-user@ip-172-31-33-111 html]$ cd face
[ec2-user@ip-172-31-33-111 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-33-111 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^3.134 for aws/aws-sdk-php
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 0 installs, 1 update, 0 removals
  - Updating aws/aws-sdk-php (3.134.2 => 3.134.3): Downloading (100%)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Writing lock file
Generating autoload files
1 package you are using is looking for funding.
Use the 'composer fund' command to find out more!
[ec2-user@ip-172-31-33-111 face]$

```



```
ec2-user@ip-172-31-33-111:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Last login: Fri Apr 3 04:03:33 2020 from 103.200.41.50  
  
 _ _ _ _ _  
 _ _ _ _ _ / Amazon Linux 2 AMI  
 _ _ _ _ _  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-33-111 ~]$ 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  
amzn2extra-php7.2 | 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-172-31-33-111 ~]$ sudo yum install php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Package php-7.2.28-1.amzn2.x86_64 already installed and latest version  
Nothing to do  
[ec2-user@ip-172-31-33-111 ~]$ 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  
r  
Use it: php composer.phar  
[ec2-user@ip-172-31-33-111 ~]$
```

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

Services Resource Groups

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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

AMIs

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Launch Instance Connect

Filter by tags and attributes or search

Name	Instance ID
	i-0b63fb46fe8b6c...

```
ec2-user@ip-172-31-33-111:/var/www/html/face
$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"]) . " fa
ces";

} catch (Exception $e) {
    echo $e->getMessage() . PHP_EOL;
}

"index.php" 82L, 1870C
```

Instance state running IPv4 Public IP 3.21.55.101

Instance type t2.micro IPv6 IPs -

Finding Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#) Elastic IPs

Private DNS ip-172-31-33-111.us-east-2.compute.amazonaws.com Availability zone us-east-2c

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21:30 02-04-2020

Solve Java x Format Spe x 3 men or 7 x Instances x IAM Manag x 7-Day Free x index.php x (no subject x index(1).ph x +

console.aws.amazon.com/iam/home#/roles

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### Identity and Access Management (IAM)

- Dashboard
- Access management
  - Groups
  - Users
  - Roles**
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access analyzer
    - Archive rules
    - Analyzers
    - Settings
  - Credential report
  - Organization activity

Create role Delete role

Search

Role name

- ☐ aws-webinar-s3-reko-fa
- ☐ AWSServiceRoleForSu
- ☐ AWSServiceRoleForTru

```
ec2-user@ip-172-31-33-111:/var/www/html/face
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Apr 2 14:43:54 2020 from 103.200.41.50

 _ _ _ _ _
| | | | |
|_|_|_|_|_|_ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-33-111 ~]$ cd /var/www/html/face
-bash: cd/: No such file or directory
[ec2-user@ip-172-31-33-111 ~]$ cd /var/www/html/face
[ec2-user@ip-172-31-33-111 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-33-111 face]$ ls
abcd.jpg composer.json composer.lock index.php vendor
[ec2-user@ip-172-31-33-111 face]$ sudo vim index.php
[ec2-user@ip-172-31-33-111 face]$ ls
abcd.jpg composer.json composer.lock index.php vendor
[ec2-user@ip-172-31-33-111 face]$ sudo php index.php
Image upload done... Here is the URL: https://aravindsatvik-awsbucket.s3.us-east-2.amazonaws.com/abcd.jpgTotally there are 9 faces[ec2-user@ip-172-31-33-111 fac
[ec2-user@ip-172-31-33-111 face]$
```

Feedback English (US)

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Type here to search

21:32 02-04-2020

Again, this is the image I have tested the app with....



## RESULT:

```
ec2-user@ip-172-31-33-111:/var/www/html/face
[ec2-user@ip-172-31-33-111 face]$ sudo rm index.php
[ec2-user@ip-172-31-33-111 face]$ sudo vim index.php
[ec2-user@ip-172-31-33-111 face]$ sudo php index.php
Image upload done... Here is the URL: https://aravindsatvik-awsbucket.s3.us-east-2.amazonaws.com/qwer.jpgTotally there are 7 faces[ec2-user@ip-172-31-33-111 face]$
```