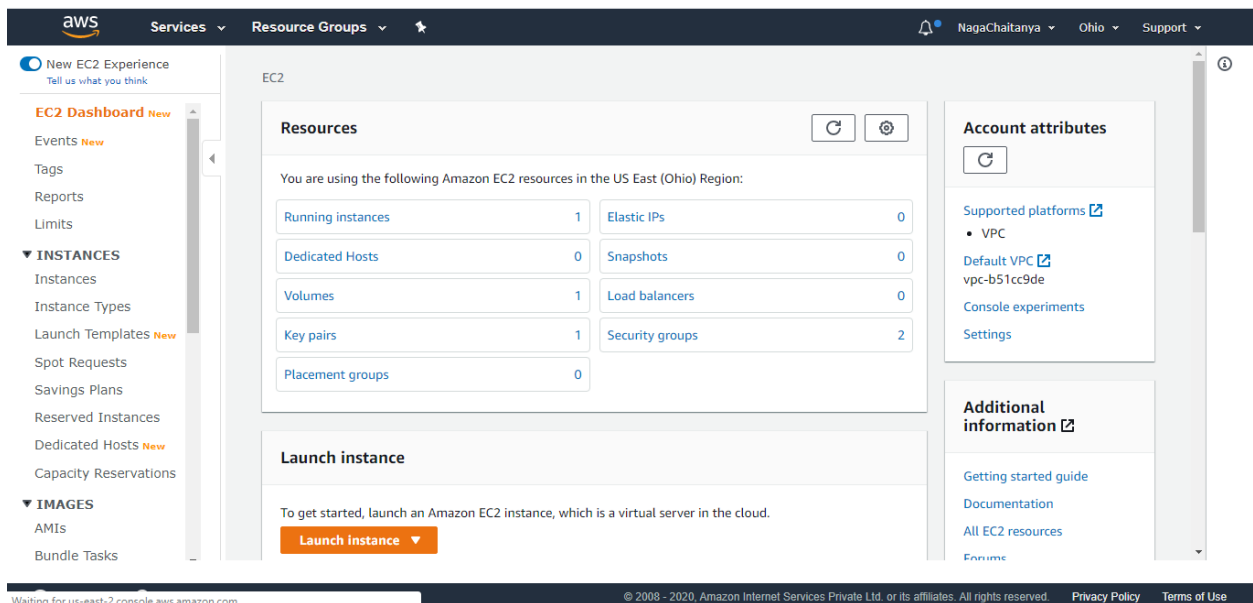
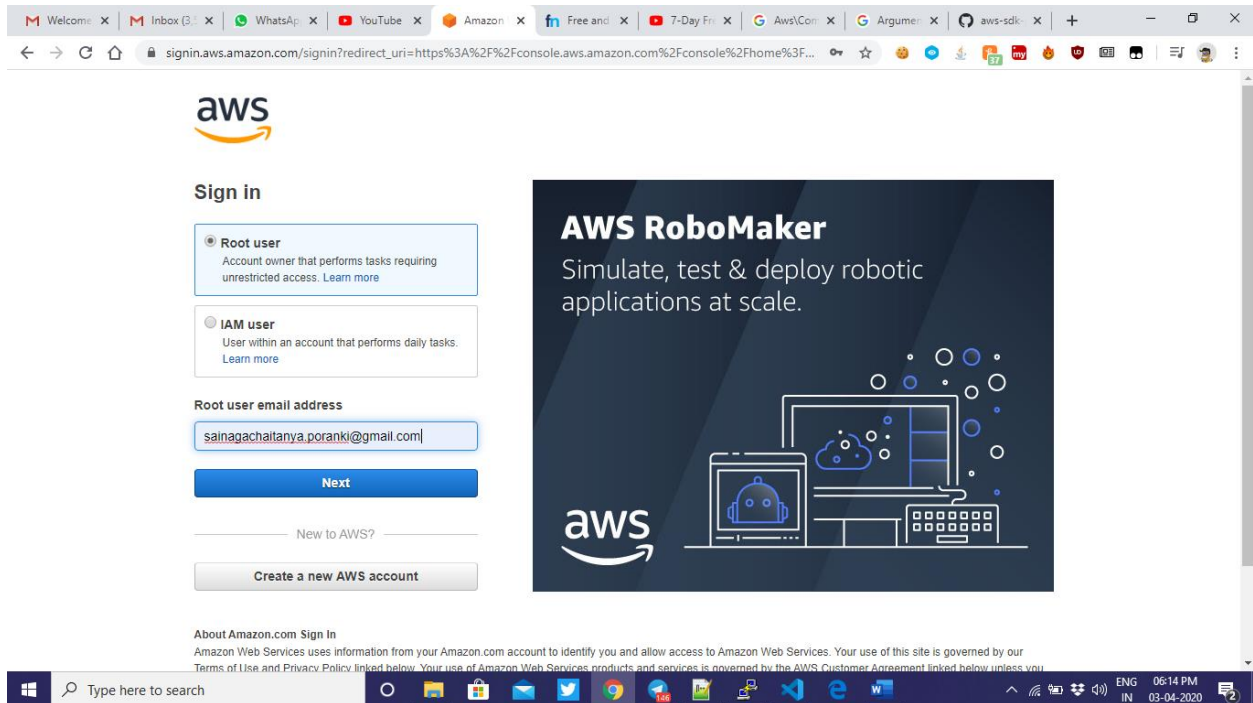


Name: Sai Naga Chaitanya.

Username in AWS: NagaChaitanya.

Gmail in AWS: sainagachaitanya.poranki@gmail.com

AWS:



aws

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Resource Groups

★

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Global

Support

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

🔍

<

1

>

⚙️

	Name	Region	Access	Bucket created
○	aws-webinar-chaitanya	US East (Ohio) us-east-2	Objects can be public	2020-04-02T06:24:37.000Z

🗨️ Feedback

🌐 English (US)

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Amazon Rekognition

Custom Labels ^{New}

Use Custom Labels

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Face comparison

Text in image

Video Demos

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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

🗨️ Feedback

🌐 English (US)

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EC2:

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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

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

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1. Choose AMI

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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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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 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.

CancelPreviousReview and LaunchNext: Add Tags

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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

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Support

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

Step 7: Review Instance Launch

Please review your instance launch details. You can [Edit security groups](#).

Improve your instances' security

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

AMI Details

Amazon Linux 2 AMI (HVM), S

Free tier eligible

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

Root Device Type: ebs Virtualization type: paravirt

Instance Type

Instance Type	ECUs
t2.micro	Variable

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

webinar-key

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.

CancelLaunch Instances

Edit AMI

Binutils 2.29.1, and the latest

Edit instance type

Network Performance

Low to Moderate

CancelPreviousLaunch

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aws Services Resource Groups

NagaChaitanya 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

AMIs

Bundle Tasks

Launch Instance

Filter by tags and attributes

Name Instance

i-0d2fd8a12398b9...

Description Status Checks

Instance: i-0d2fd8a12398b9...

2 compute internal

Private IPs 172.31.19.103

Putty Key Generator

Key

Public key for pasting into OpenSSH authorized_keys file:

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDAoUHM08IPangy/3P3iI64vEWom7YjdabyU
+OZFoWm8IgtmrKqFz7zBT2PmSUCUkUJf5yEDhgrFA66RY0RVdvDw2uJfBaQ7xcUy6
31be7REc31Vam5mPINTa+vyV0zbtm11zLk//q7ws3aGeUWm4x
+kU4YUyqk4TcGJgdKukIOqg8UJXcYQm20gcpJvEFE
```

Key fingerprint: ssh-rsa 2048 ad:0a:4e:11:bc:e6:45:30:c2:ea:51:68:a2:a1:55:95

Key comment: imported-openssh-key

Key passphrase:

Confirm passphrase:

Actions

Generate a public/private key pair **Generate**

Load an existing private key file **Load**

Save the generated key **Save public key** **Save private key**

Parameters

Type of key to generate: ☒ RSA ☐ DSA ☐ ECDSA ☐ Ed25519 ☐ SSH-1 (RSA)

Number of bits in a generated key: 2048

Status Checks 2/2 checks ... None

Alarm Status

Public DNS (IPv4)

ec2-3-17-167-207.us-east-2.compute.amazonaws.com

4 Public IP 3.17.167.207

IPv6 IPs -

Elastic IPs -

Availability zone us-east-2b

Security groups launch-wizard-1. view inbound rules. view outbound rules

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```
ec2-user@ip-172-31-19-103:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Last login: Fri Apr 3 12:04:52 2020 from 157.47.110.206  
  
  _ | _ | _ )  
  _ | ( _ | _ /  
  _ | \ _ | _ |  
Amazon Linux 2 AMI  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-19-103 ~]$
```

aws

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Resource Groups

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🔔

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 > Create bucket

Create bucket

General configuration

Bucket name

aws-webinar-chaitanya

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

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](#)

Feedback

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✕

Operations

Upload

1 Files Size: 744.6 KB Target path: aws-webinar-chaitanya

To upload a file larger than 160 GB, use the AWS CLI, AWS SDK, or Amazon S3 REST API. [Learn more](#)

[+ Add more files](#)

AWS Project Submission Guide.pdf

- 744.6 KB

✕

Upload

Next

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aws

Services

Resource Groups

Amazon S3

aws-webinar-chaitanya

index.html

index.html

Latest version

Overview

Properties

Permissions

Select from

Success

Open

Download

Download as

Make public

Copy path

Owner

5ae5732997caf69048fdacc3b30e66215b989395f5265fd8e8cb4582cbc302af

Last modified

Apr 4, 2020 9:32:00 AM GMT+0530

ETag

a01618fc9b714c0e530f525e1bd6b123

Storage class

Standard

Server-side encryption

None

Size

Operations

0 In progress

3 Success

0 Error

Feedback

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hello

AWS Rekognition:

aws

Services

Resource Groups

🔔

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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

Object and scene detection

Rekognition automatically labels objects, concepts and scenes in your images, and provides a confidence score.



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.

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

▼ Results

Car	98.8 %
Automobile	98.8 %
Transportation	98.8 %
Vehicle	98.8 %
Human	98.3 %
Person	98.3 %

Show more

► Request

Feedback

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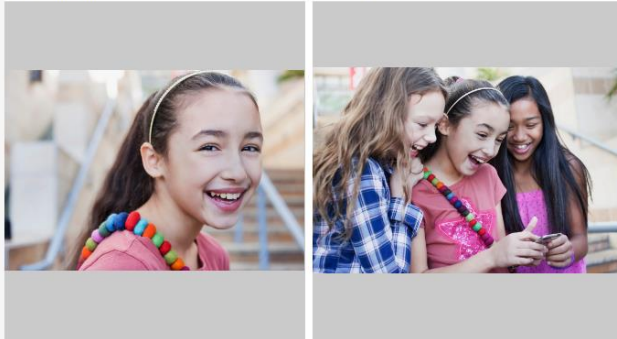
Metrics

Face comparison

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

Reference face

Comparison faces






Choose a sample image




Choose a sample image



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

▼ Results



Similarity 99.8 %





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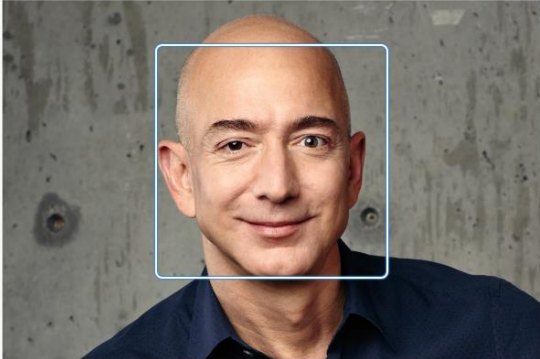
Video analysis

Metrics



Metrics

Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.



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.

Done with the demo?

Learn more

Results



Jeff Bezos

Learn More

Match confidence100 %

Request

Response

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Text in image

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Metrics



Metrics

Text in image

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



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.

Done with the demo?

Learn more

Results

US English only

| IT'S |

| MONDAY |

| but | keep |

| Smiling |

Request

Response

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EC2 & S3:

```
ec2-user@ip-172-31-19-103:/var/www/html/face
[ec2-user@ip-172-31-19-103 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^2.8 for aws/aws-sdk-php
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Generating autoload files
[ec2-user@ip-172-31-19-103 face]$
```

```
ec2-user@ip-172-31-19-103:/var/www/html/face
[ec2-user@ip-172-31-19-103 face]$ 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-172-31-19-103 face]$
```

```
ec2-user@ip-172-31-19-103:/var/www/html/face
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

*/
error_reporting(0);

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

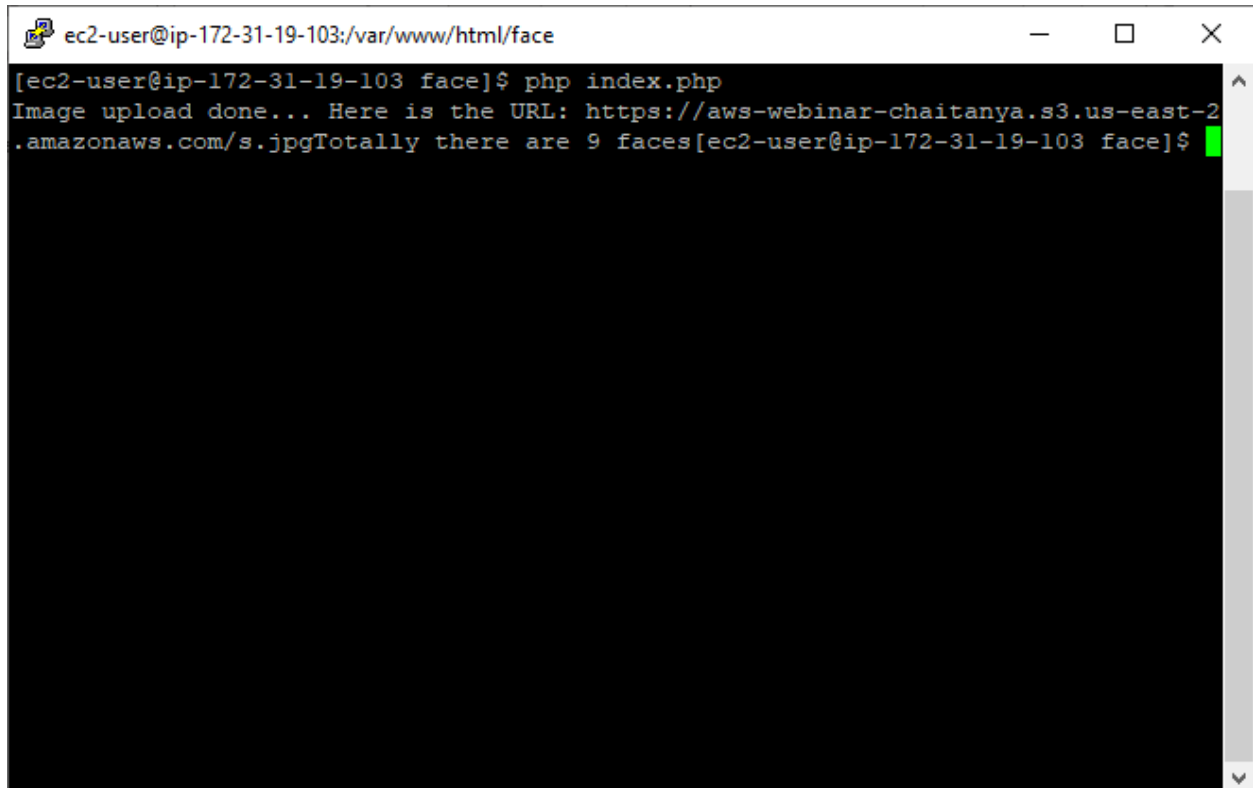
use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;

$bucket = 'aws-webinar-chaitanya';
$keyname = 's.jpg';

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

```
ec2-user@ip-172-31-19-103:/var/www/html/face
[ec2-user@ip-172-31-19-103 face]$ php index.php
Image upload done... Here is the URL: https://aws-webinar-chaitanya.s3.us-east-2.amazonaws.com/s.jpg[ec2-user@ip-172-31-19-103 face]$
```

EC2 & Rekognition:



```
ec2-user@ip-172-31-19-103:/var/www/html/face
[ec2-user@ip-172-31-19-103 face]$ php index.php
Image upload done... Here is the URL: https://aws-webinar-chaitanya.s3.us-east-2
.amazonaws.com/s.jpgTotally there are 9 faces[ec2-user@ip-172-31-19-103 face]$
```

The image shows a terminal window with a black background and white text. The window title bar indicates the user is 'ec2-user' on an instance with IP 'ip-172-31-19-103', in the directory '/var/www/html/face'. The command 'php index.php' has been executed, resulting in a message that an image was uploaded and a URL was generated. The output also states that there are 9 faces detected in the image. A green cursor is visible at the end of the last command line.