# ETHNUS CODEMITHRA

# AMAZON WEB SERVICES

# FACE DETECTION APP ON AWS

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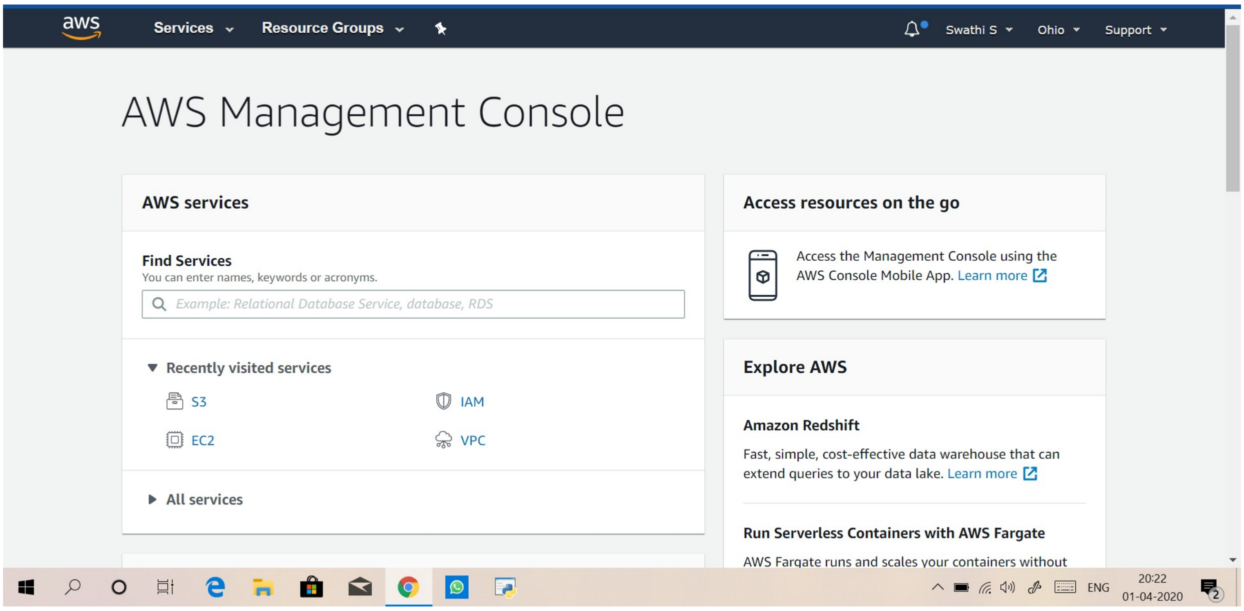
**Mobile No : 8680037162**

## Screenshots:

## AWS

### a) AWS Login Screen with Username



AWS Management Console

AWS services

Find Services
You can enter names, keywords or acronyms.
Example: Relational Database Service, database, RDS

Recently visited services
S3
IAM
EC2
VPC

All services

Access resources on the go

Access the Management Console using the AWS Console Mobile App. Learn more

Explore AWS

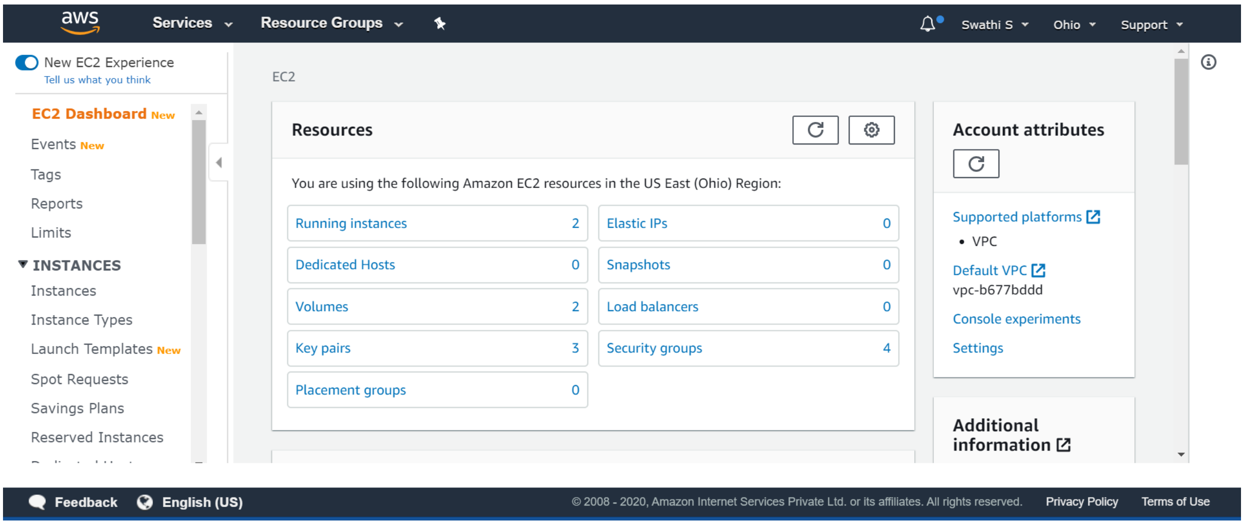
Amazon Redshift

Fast, simple, cost-effective data warehouse that can extend queries to your data lake. Learn more

Run Serverless Containers with AWS Fargate

AWS Fargate runs and scales your containers without

### b) EC2 Dashboard



EC2

Resources

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

| | | | |
|---|---|---|---|
| Running instances | 2 | Elastic IPs | 0 |
| Dedicated Hosts | 0 | Snapshots | 0 |
| Volumes | 2 | Load balancers | 0 |
| Key pairs | 3 | Security groups | 4 |
| Placement groups | 0 | | |

Account attributes

Supported platforms
- VPC

Default VPC
vpc-b677bddd

Console experiments

Settings

Additional information

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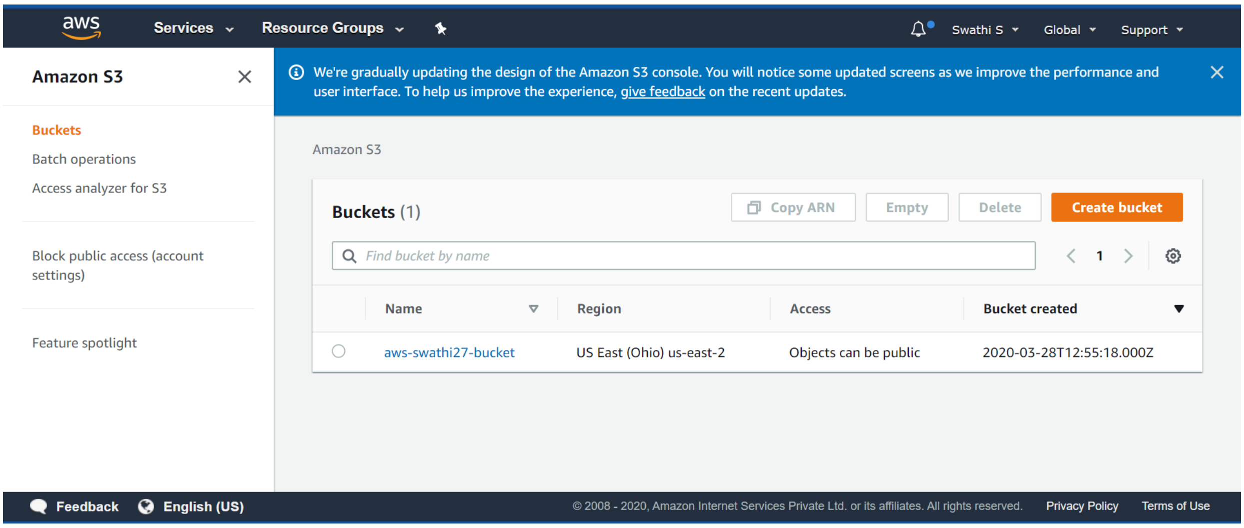
## c) S3 Dashboard



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.

Buckets (1)

| | Name | Region | Access | Bucket created |
|---|---|---|---|---|
| ○ | aws-swathi27-bucket | US East (Ohio) us-east-2 | Objects can be public | 2020-03-28T12:55:18.000Z |

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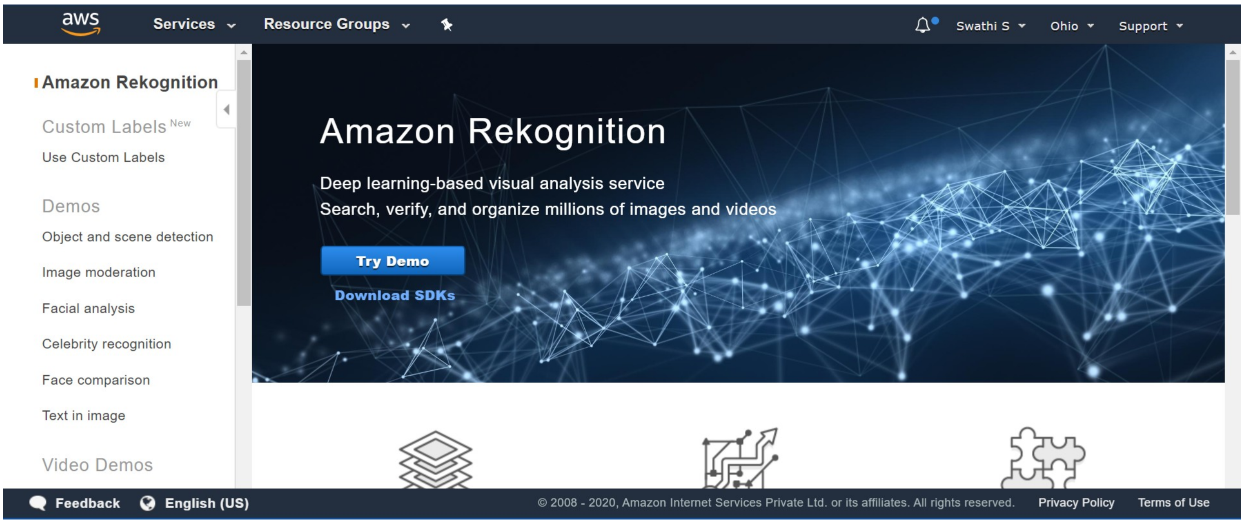
## d) Rekognition Dashboard



Amazon Rekognition

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

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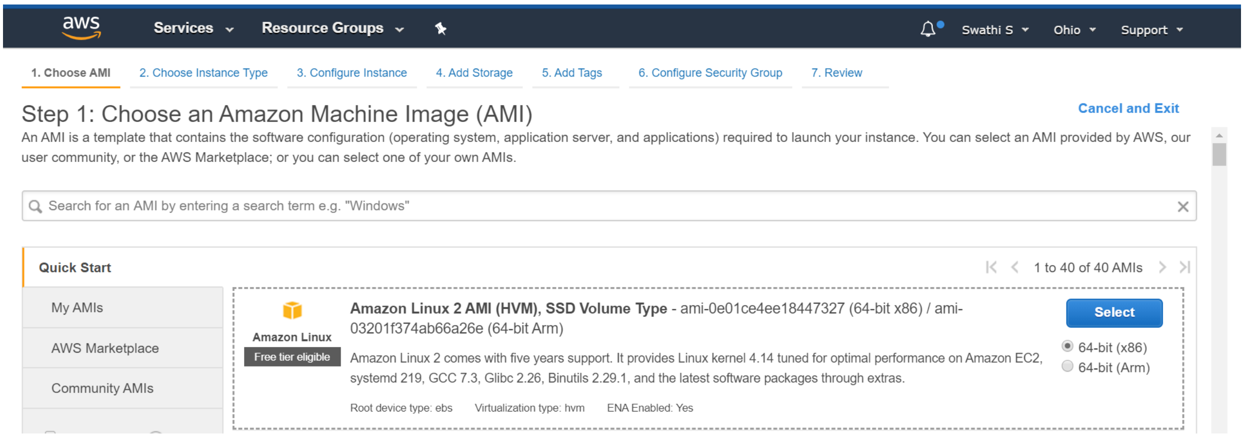
## EC2

## a) 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"

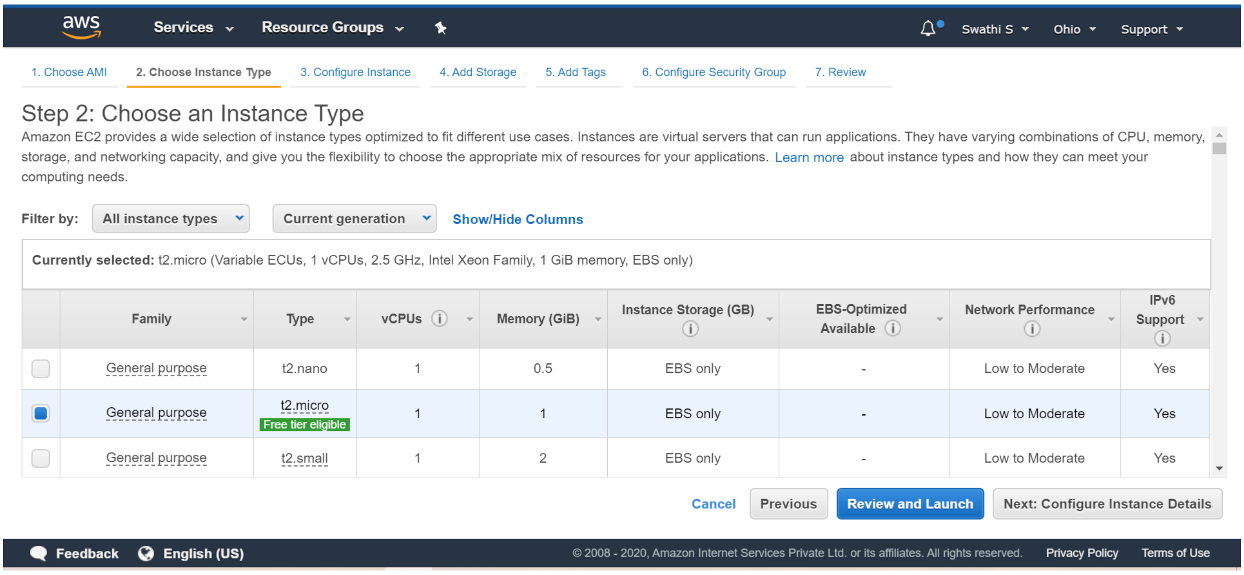
**Amazon Linux 2 AMI (HVM), SSD Volume Type** - ami-0e01ce4ee18447327 (64-bit x86) / ami-03201f374ab66a26e (64-bit Arm)

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)

## b) 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 |
|---|---|---|---|---|---|---|---|---|
| □ | General purpose | t2.nano | 1 | 0.5 | EBS only | - | Low to Moderate | Yes |
| ☑ | General purpose | t2.micro<br>Free tier eligible | 1 | 1 | EBS only | - | Low to Moderate | Yes |
| □ | General purpose | t2.small | 1 | 2 | EBS only | - | Low to Moderate | Yes |

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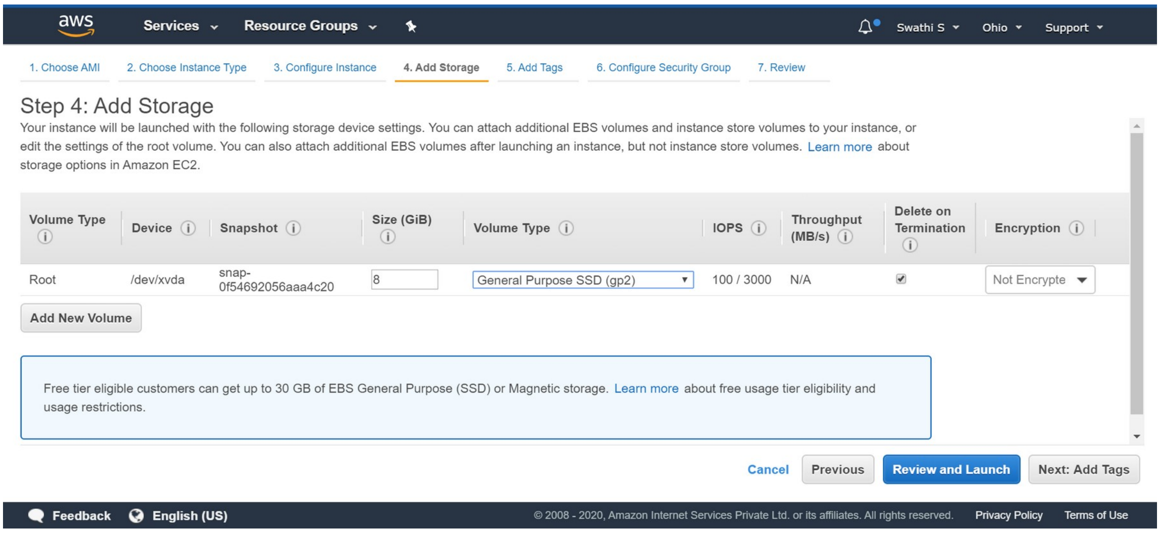
## c) Adding Storage



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 | ☑ | Not Encrypte |

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.

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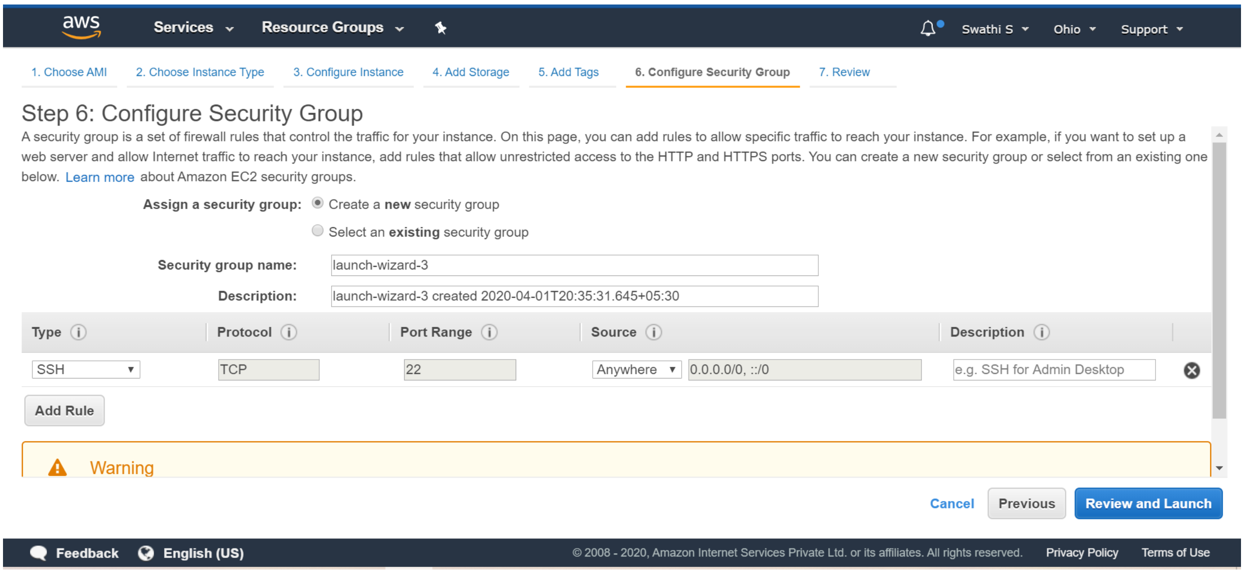
## d) Configuring Security Group



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: launch-wizard-3

Description: launch-wizard-3 created 2020-04-01T20:35:31.645+05:30

| Type | Protocol | Port Range | Source | Description |
|---|---|---|---|---|
| SSH | TCP | 22 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop |

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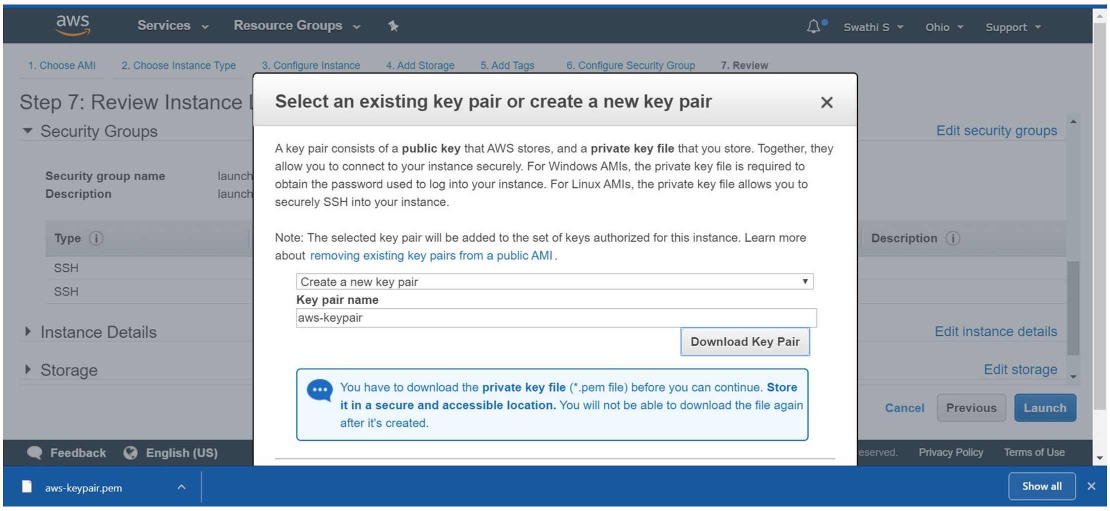
## e) Key Pair Download



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

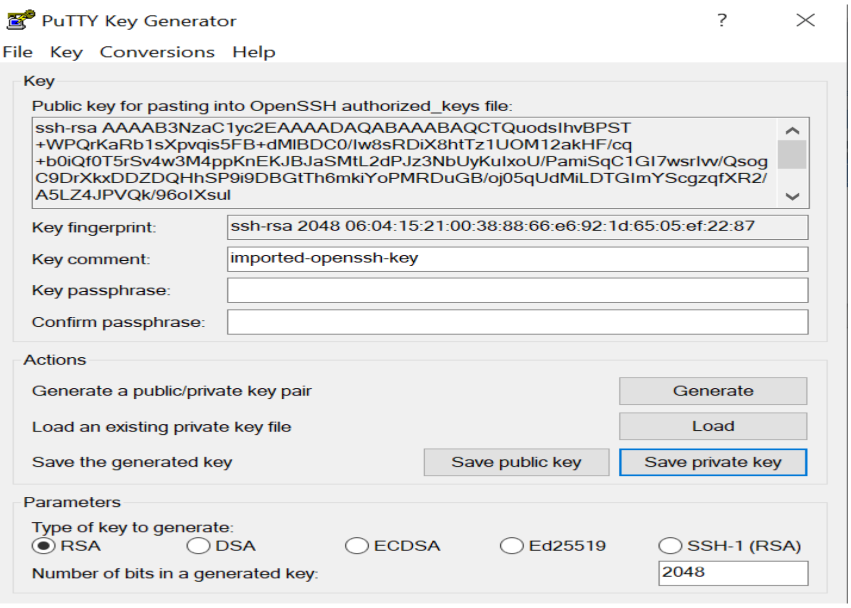
**Key pair name**

aws-keypair

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.

## f) PuTTgen Conversion from pem to pkk



PuTTY Key Generator

Key

Public key for pasting into OpenSSH authorized_keys file:

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQCTQuodsIhvBPST
+WPQrKaRb1sXpvqis5FB+dMlBDC0/Iw8sRDiX8htTz1UOM12akHF/cq
+b0iQf0T5rSv4w3M4ppKnEKJBJaSMtL2dPJz3NbUyKuIxoU/PamiSqC1GI7wsrIw/Qsog
C9DrXkxDDZDQHhSP9i9DBGtTh6mkiYoPMRDuGB/oj05qUdMiLDTGImYScgzqfXR2/
A5LZ4JPVQk/96oIXsul
```

Key fingerprint: ssh-rsa 2048 06:04:15:21:00:38:88:66:e6:92:1d:65:05:ef:22:87

Key comment: imported-openssh-key

Key passphrase:

Confirm passphrase:

Actions

Generate a public/private key pair

Load an existing private key file

Save the generated key

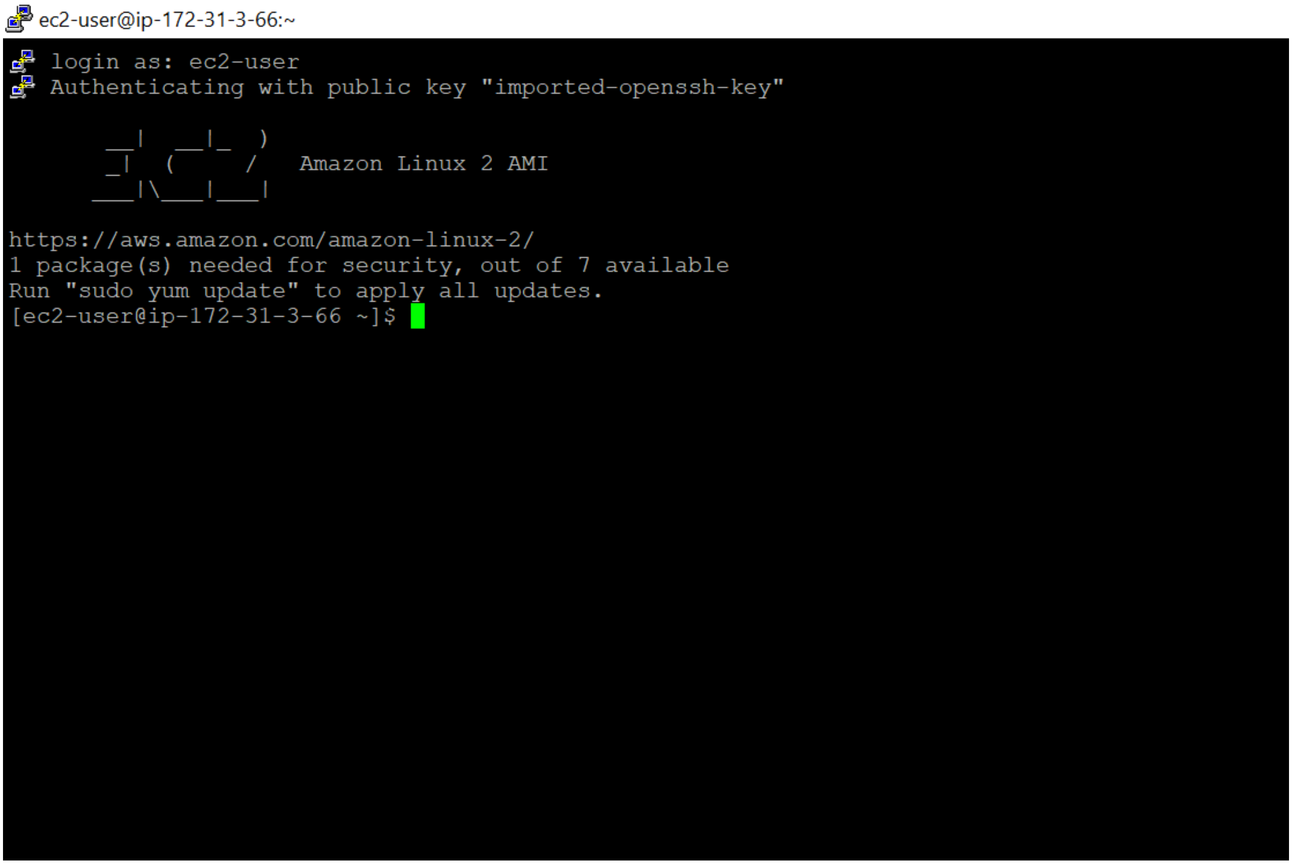
Parameters

Type of key to generate:

● RSA ○ DSA ○ ECDSA ○ Ed25519 ○ SSH-1 (RSA)

Number of bits in a generated key: 2048

## g) Logged in EC2 Black Screenshot



ec2-user@ip-172-31-3-66:~

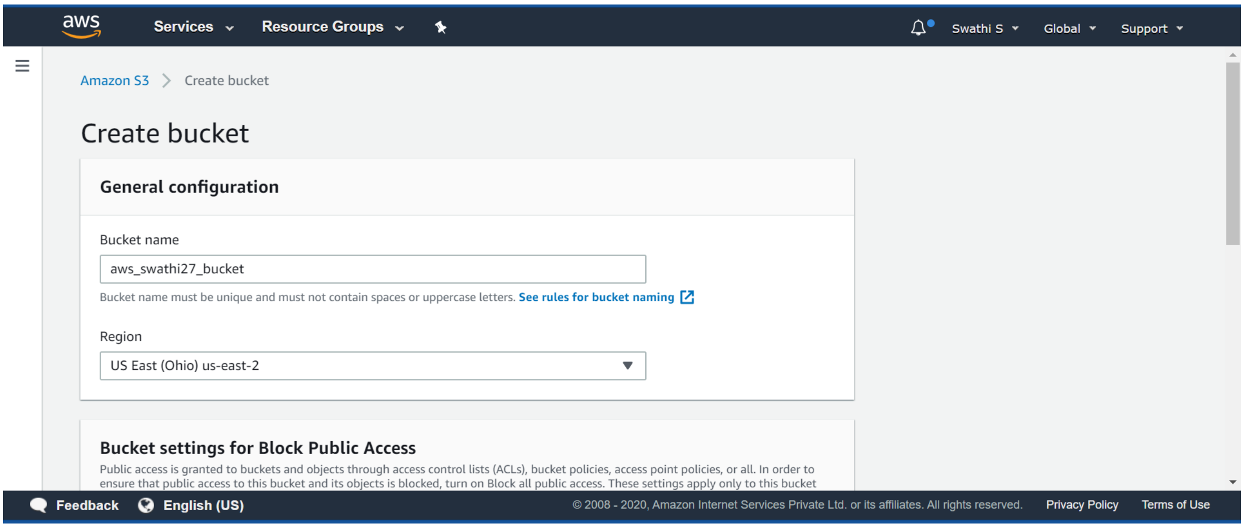
```
login as: ec2-user
Authenticating with public key "imported-openssh-key"

       __|  __|_  )
       _|  (     /   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-172-31-3-66 ~]$ 
```

# S3

## a) Creating a Bucket



Amazon S3 > Create bucket

Create bucket

General configuration

Bucket name

aws_swathi27_bucket

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

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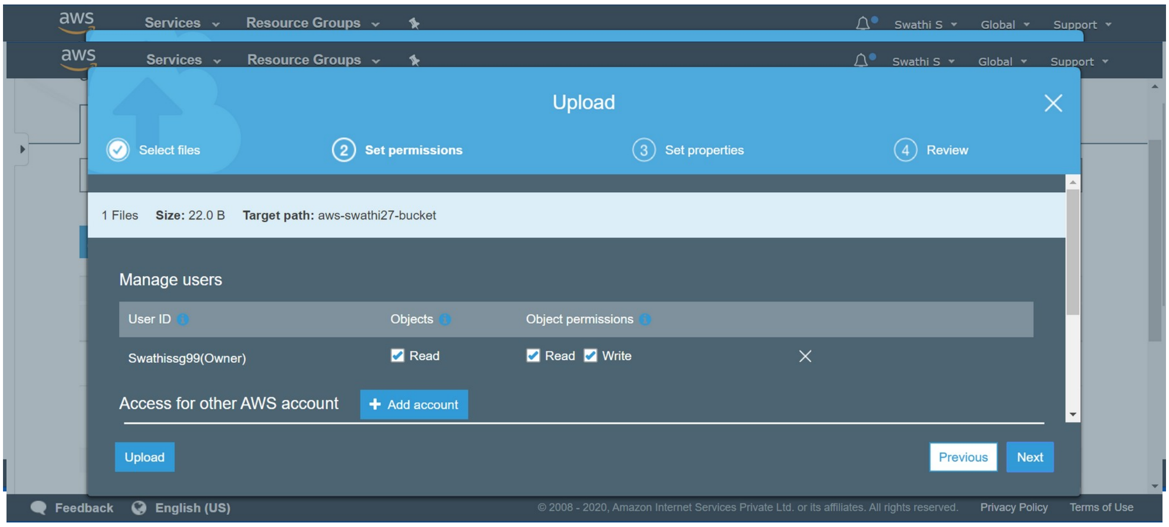
## b) Uploading an Object



1 Files **Size:** 22.0 B **Target path:** aws-swathi27-bucket

Manage users

| User ID | Objects | Object permissions |
|---|---|---|
| Swathissg99(Owner) | ☑ Read | ☑ Read ☑ Write |

Access for other AWS account

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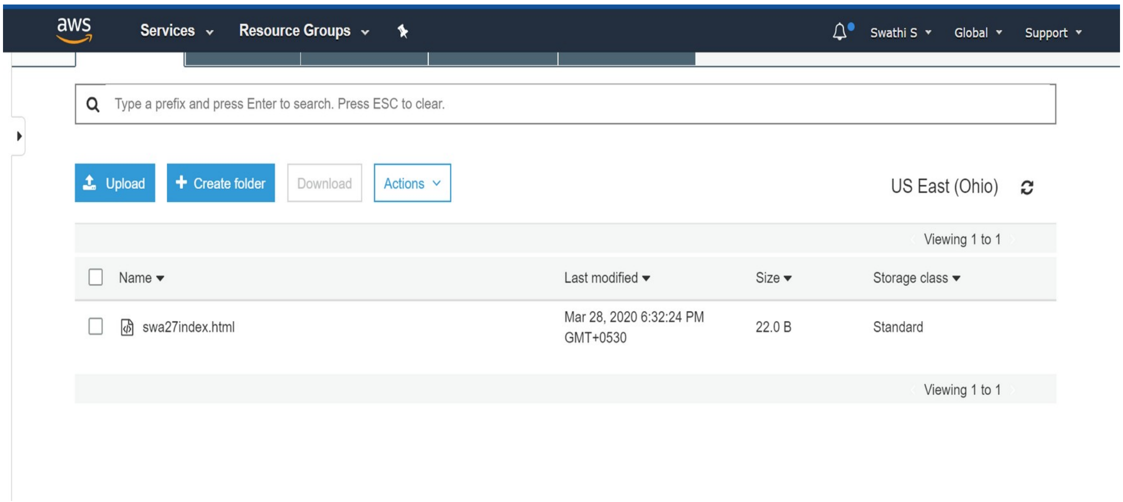
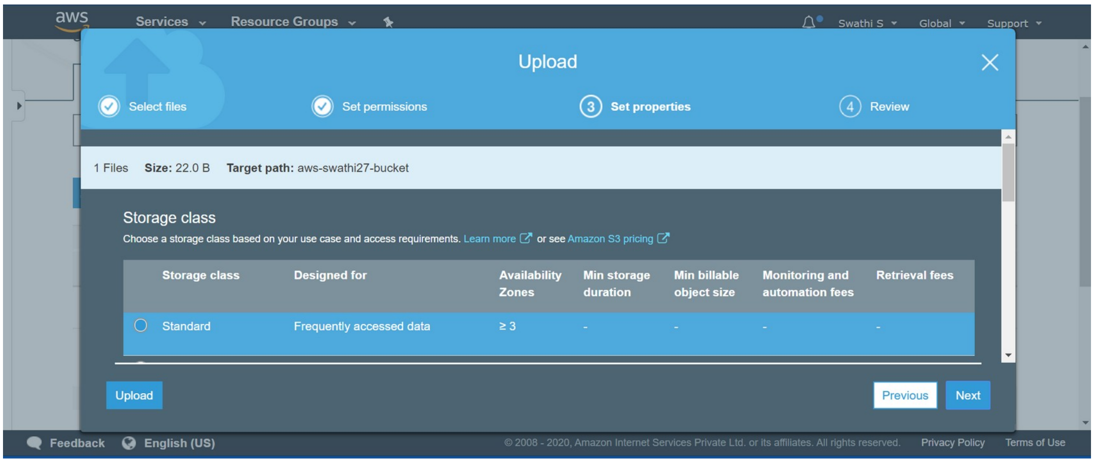


US East (Ohio)

Viewing 1 to 1

| ☐ Name | Last modified | Size | Storage class |
|---|---|---|---|
| ☐ swa27index.html | Mar 28, 2020 6:32:24 PM GMT+0530 | 22.0 B | Standard |

Viewing 1 to 1



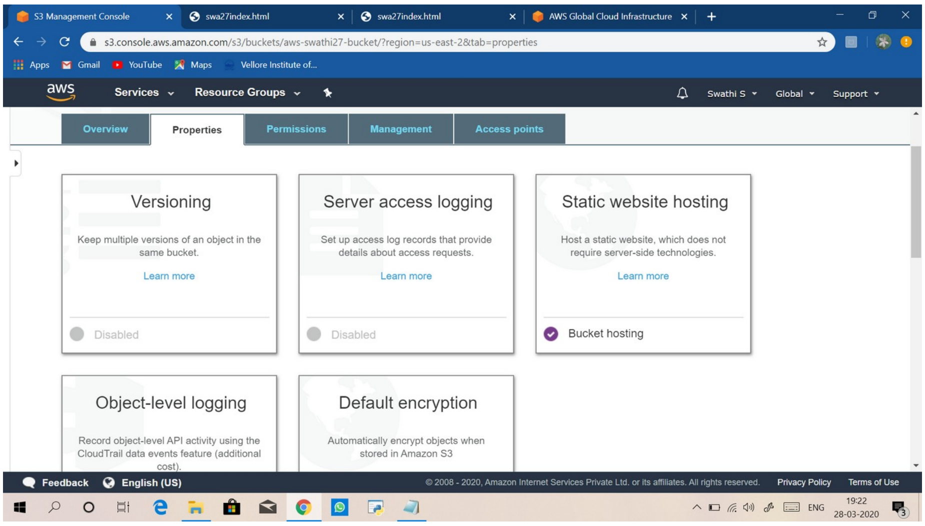
1 Files **Size:** 22.0 B **Target path:** aws-swathi27-bucket

Storage class

Choose a storage class based on your use case and access requirements. Learn more or see Amazon S3 pricing

| | Storage class | Designed for | Availability Zones | Min storage duration | Min billable object size | Monitoring and automation fees | Retrieval fees |
|---|---|---|---|---|---|---|---|
| ○ | Standard | Frequently accessed data | ≥ 3 | - | - | - | - |

## c) Enabling Static Website



Versioning
Keep multiple versions of an object in the same bucket.
Learn more
Disabled

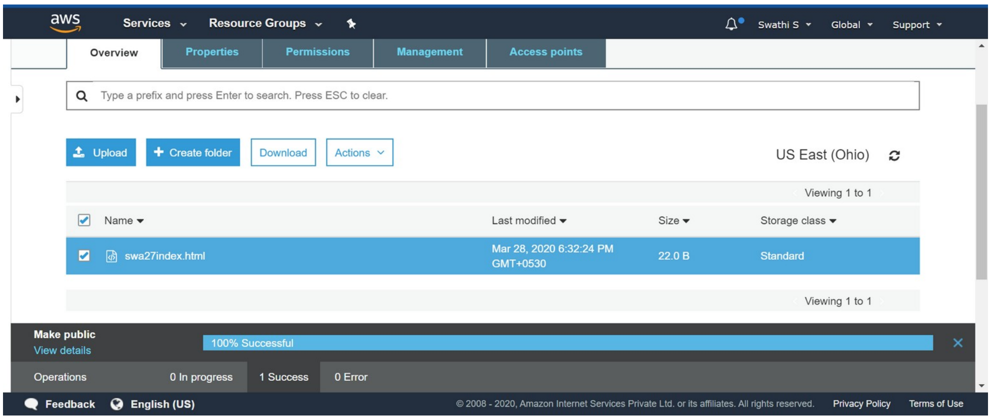
Server access logging
Set up access log records that provide details about access requests.
Learn more
Disabled

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 activity using the CloudTrail data events feature (additional cost).

Default encryption
Automatically encrypt objects when stored in Amazon S3

## d) Making the Object Public



Viewing 1 to 1

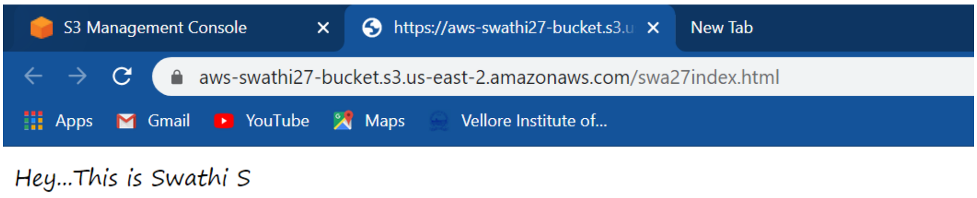
| ☑ | Name | Last modified | Size | Storage class |
|---|---|---|---|---|
| ☑ | swa27index.html | Mar 28, 2020 6:32:24 PM GMT+0530 | 22.0 B | Standard |

Viewing 1 to 1

Make public
View details
100% Successful

Operations 0 In progress 1 Success 0 Error

## e) Checking the S3 Link on the Browser

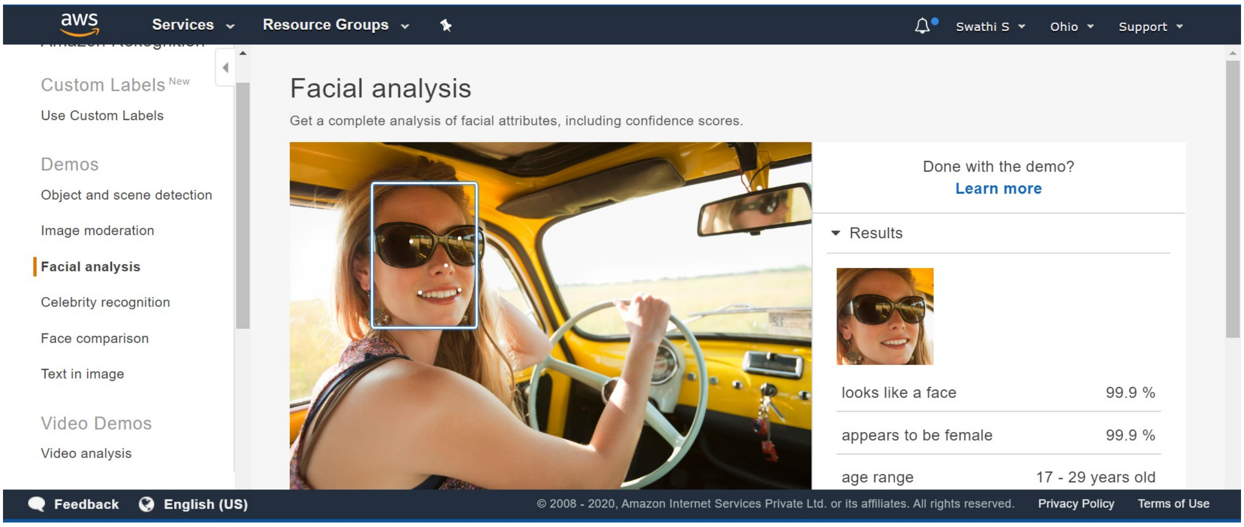


aws-swathi27-bucket.s3.us-east-2.amazonaws.com/swa27index.html

Hey...This is Swathi S

# Rekognition

## a) Face Detect

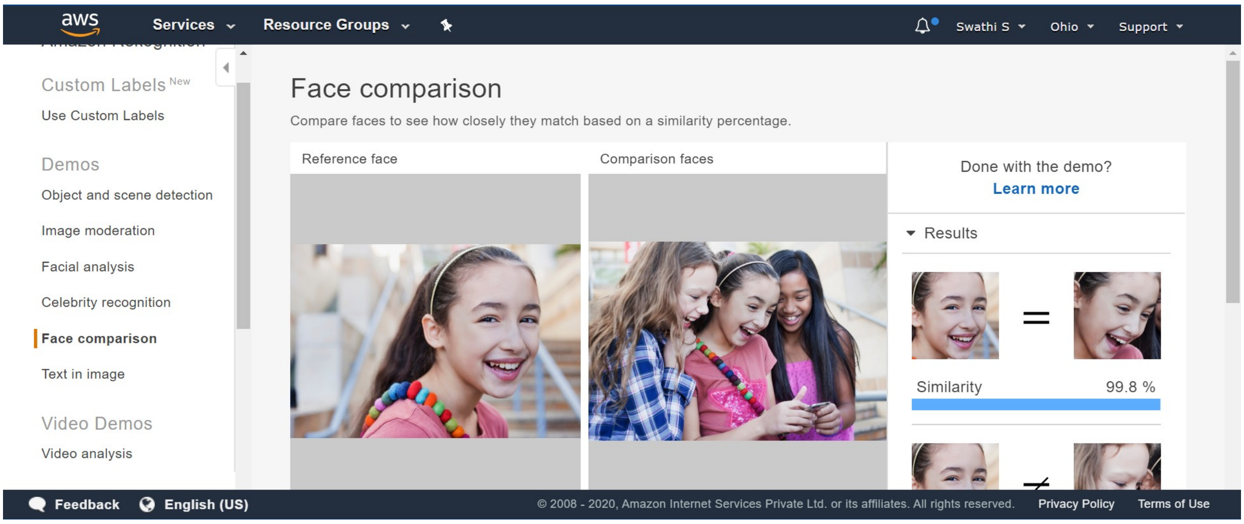


Facial analysis

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

| | |
|---|---|
| looks like a face | 99.9 % |
| appears to be female | 99.9 % |
| age range | 17 - 29 years old |

## b) Face Compare

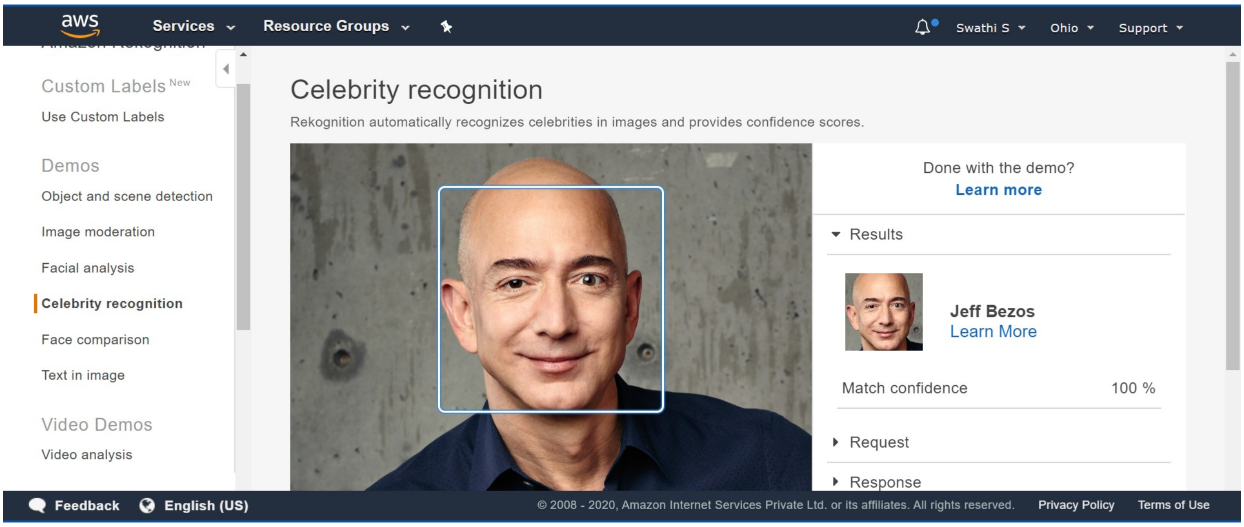


Face comparison

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

Similarity 99.8 %

## c) Celebrity Recognition



Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.

Jeff Bezos

Match confidence 100 %

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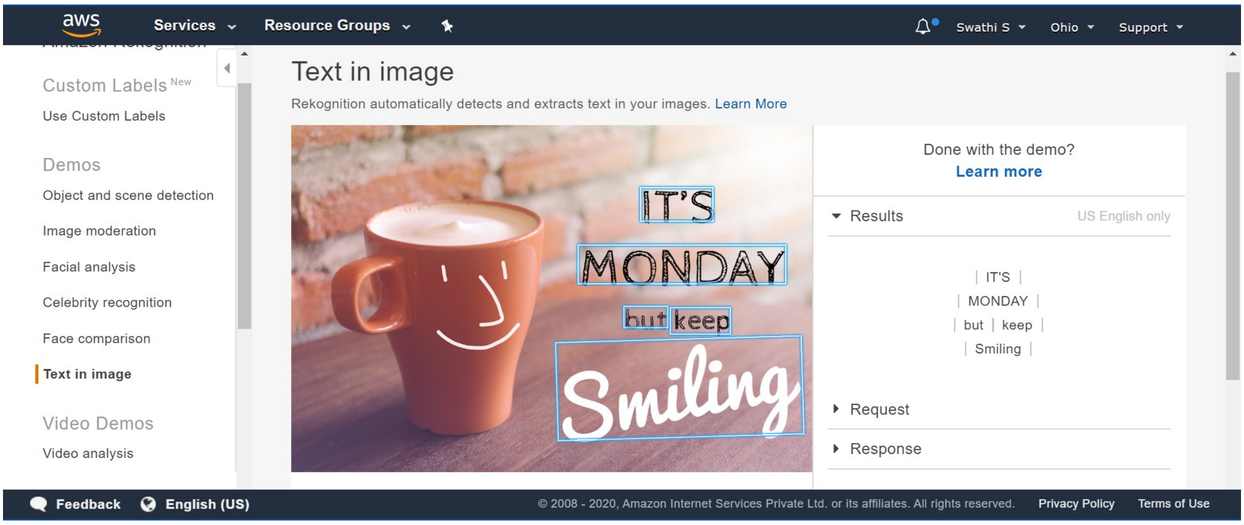
## d) Text in Image



Text in image

Rekognition automatically detects and extracts text in your images. Learn More

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

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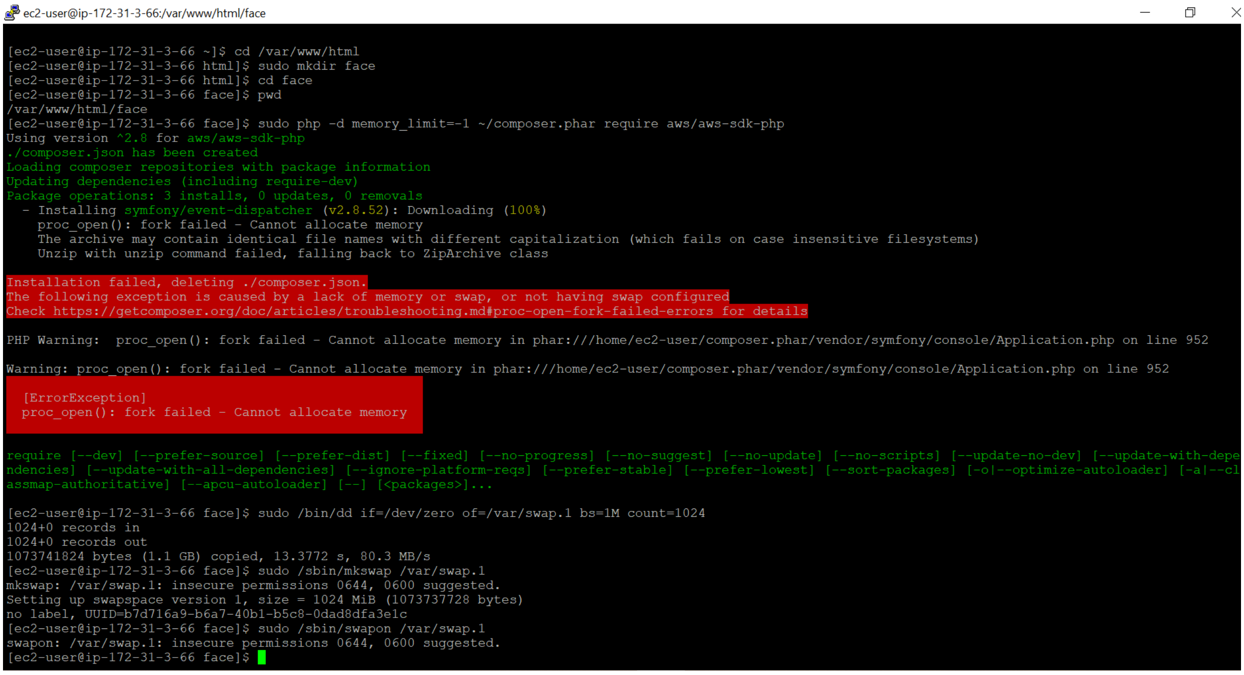
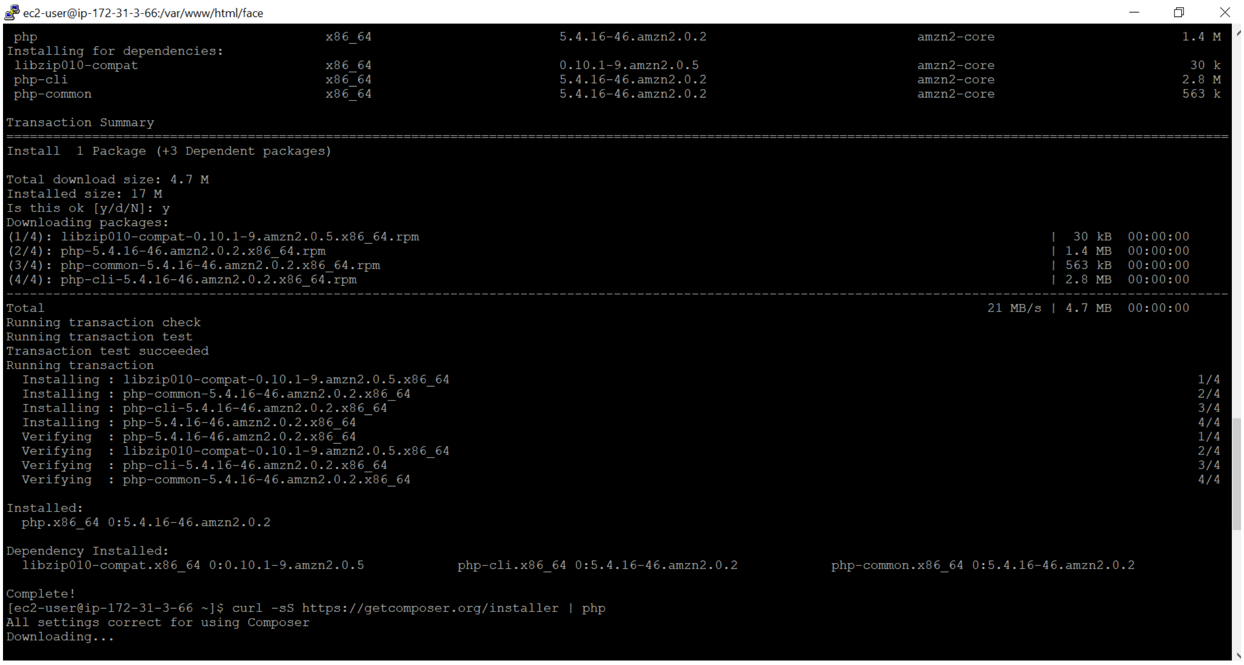
# EC2 & S3

## a) Installing aws-sdk



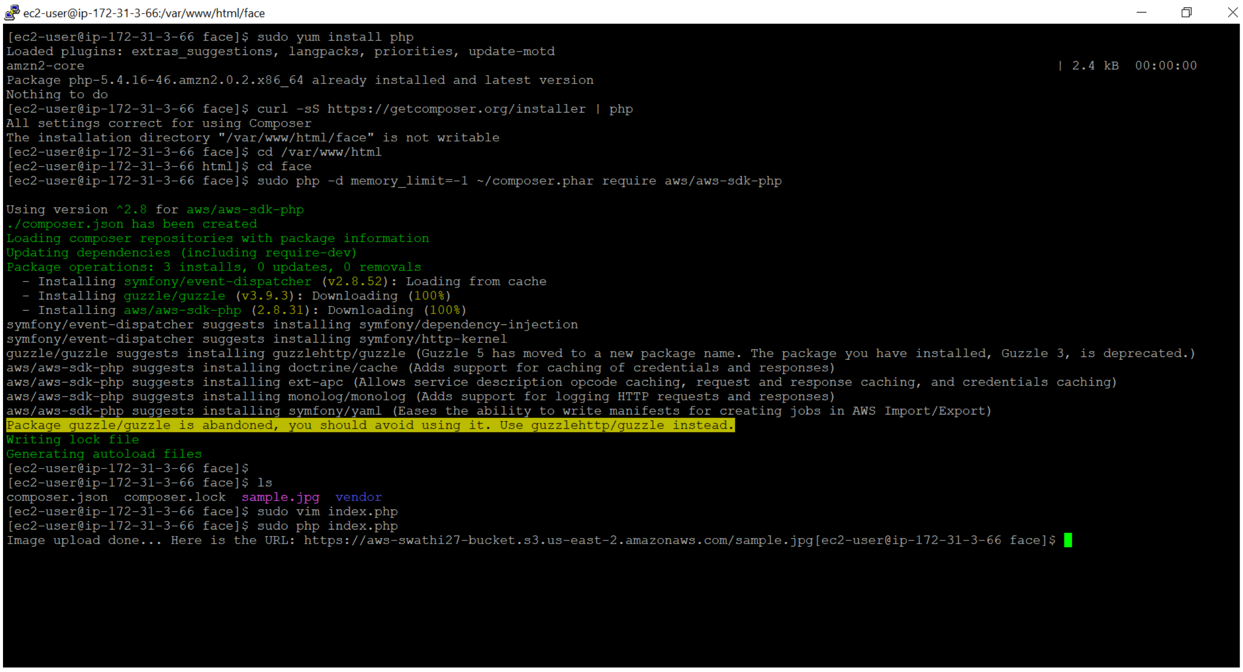
```
[ec2-user@ip-172-31-3-66 ~]$ cd /var/www/html
[ec2-user@ip-172-31-3-66 html]$ sudo mkdir face
[ec2-user@ip-172-31-3-66 html]$ cd face
[ec2-user@ip-172-31-3-66 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-3-66 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^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): Downloading (100%)
    proc_open(): fork failed - Cannot allocate memory
    The archive may contain identical file names with different capitalization (which fails on case insensitive filesystems)
    Unzip with unzip command failed, falling back to ZipArchive class

Installation failed, deleting ./composer.json.
The following exception is caused by a lack of memory or swap, or not having swap configured
Check https://getcomposer.org/doc/articles/troubleshooting.md#proc-open-fork-failed-errors for details

PHP Warning:  proc_open(): fork failed - Cannot allocate memory in phar:///home/ec2-user/composer.phar/vendor/symfony/console/Application.php on line 952

Warning: proc_open(): fork failed - Cannot allocate memory in phar:///home/ec2-user/composer.phar/vendor/symfony/console/Application.php on line 952

  [ErrorException]
  proc_open(): fork failed - Cannot allocate memory

require [--dev] [--prefer-source] [--prefer-dist] [--fixed] [--no-progress] [--no-suggest] [--no-update] [--no-scripts] [--update-no-dev] [--update-with-depe
ndencies] [--update-with-all-dependencies] [--ignore-platform-reqs] [--prefer-stable] [--prefer-lowest] [--sort-packages] [-o|--optimize-autoloader] [-a|--cl
assmap-authoritative] [--apcu-autoloader] [--] [<packages>]...

[ec2-user@ip-172-31-3-66 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, 13.3772 s, 80.3 MB/s
[ec2-user@ip-172-31-3-66 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=b7d716a9-b6a7-40b1-b5c8-0dad8dfa3e1c
[ec2-user@ip-172-31-3-66 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-3-66 face]$
```

## b) Installing php



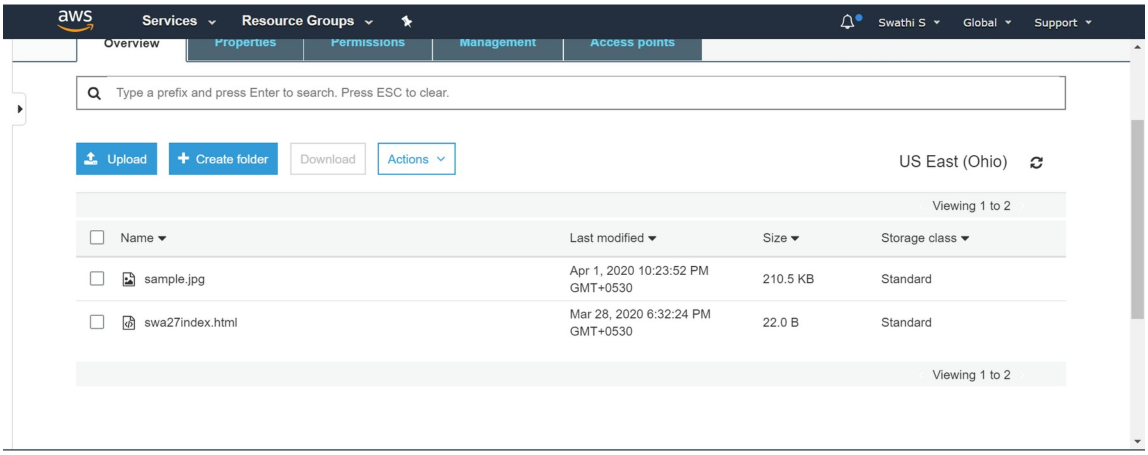
```
 php                          x86_64                5.4.16-46.amzn2.0.2                      amzn2-core                  1.4 M
Installing for dependencies:
 libzip010-compat             x86_64                0.10.1-9.amzn2.0.5                       amzn2-core                   30 k
 php-cli                      x86_64                5.4.16-46.amzn2.0.2                      amzn2-core                  2.8 M
 php-common                   x86_64                5.4.16-46.amzn2.0.2                      amzn2-core                  563 k

Transaction Summary
===============================================================================================================================
Install  1 Package (+3 Dependent packages)

Total download size: 4.7 M
Installed size: 17 M
Is this ok [y/d/N]: y
Downloading packages:
(1/4): libzip010-compat-0.10.1-9.amzn2.0.5.x86_64.rpm                                               |  30 kB  00:00:00
(2/4): php-5.4.16-46.amzn2.0.2.x86_64.rpm                                                           | 1.4 MB  00:00:00
(3/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm                                                    | 563 kB  00:00:00
(4/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm                                                       | 2.8 MB  00:00:00
-------------------------------------------------------------------------------------------------------------------------------
Total                                                                                        21 MB/s | 4.7 MB  00:00:00
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-172-31-3-66 ~]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
Downloading...
```

## c) index.php File Code



```
[ec2-user@ip-172-31-3-66 face]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                                                                     | 2.4 kB  00:00:00
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-3-66 face]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
The installation directory "/var/www/html/face" is not writable
[ec2-user@ip-172-31-3-66 face]$ cd /var/www/html
[ec2-user@ip-172-31-3-66 html]$ cd face
[ec2-user@ip-172-31-3-66 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 (2.8.31): 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-172-31-3-66 face]$
[ec2-user@ip-172-31-3-66 face]$ ls
composer.json  composer.lock  sample.jpg  vendor
[ec2-user@ip-172-31-3-66 face]$ sudo vim index.php
[ec2-user@ip-172-31-3-66 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-swathi27-bucket.s3.us-east-2.amazonaws.com/sample.jpg[ec2-user@ip-172-31-3-66 face]$
```

## d) Upload Success Screenshot



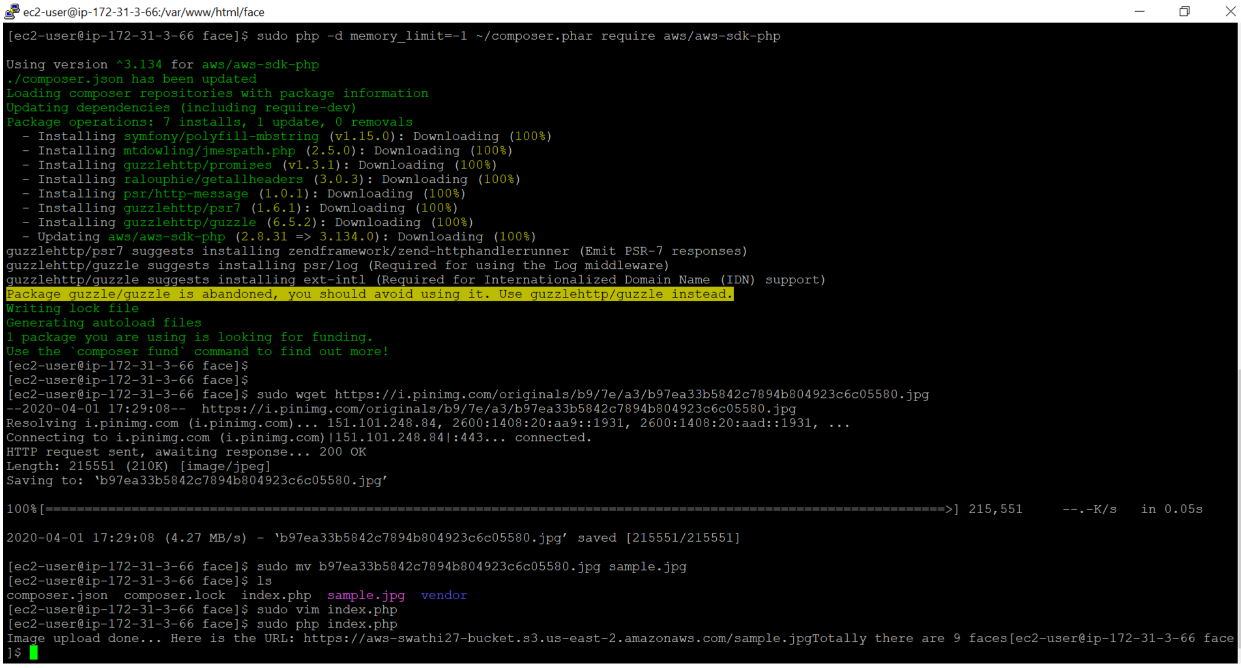
Viewing 1 to 2

| | Name | Last modified | Size | Storage class |
|---|---|---|---|---|
| □ | sample.jpg | Apr 1, 2020 10:23:52 PM GMT+0530 | 210.5 KB | Standard |
| □ | swa27index.html | Mar 28, 2020 6:32:24 PM GMT+0530 | 22.0 B | Standard |

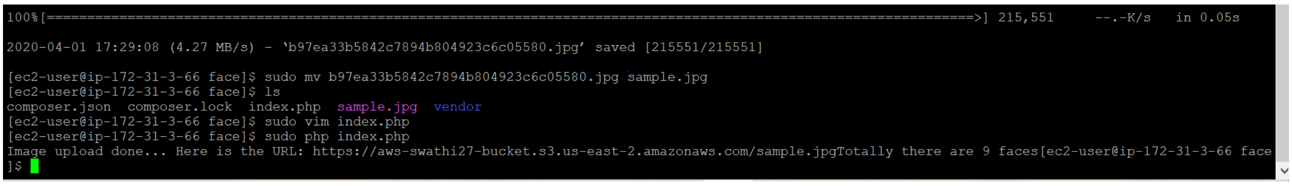
Viewing 1 to 2

# EC2 & Rekognition

## a) Face Detect Success Screenshot



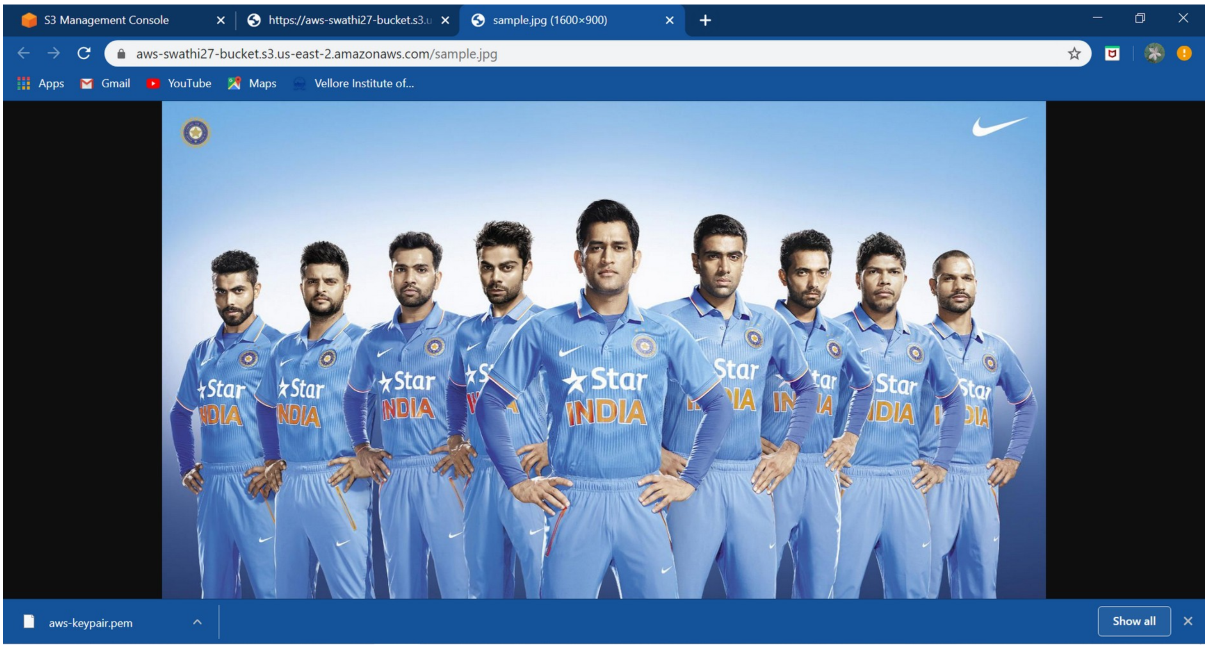
```
[ec2-user@ip-172-31-3-66 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php

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: 7 installs, 1 update, 0 removals
  - Installing symfony/polyfill-mbstring (v1.15.0): Downloading (100%)
  - Installing mtdowling/jmespath.php (2.5.0): Downloading (100%)
  - Installing guzzlehttp/promises (v1.3.1): Downloading (100%)
  - Installing ralouphie/getallheaders (3.0.3): Downloading (100%)
  - Installing psr/http-message (1.0.1): Downloading (100%)
  - Installing guzzlehttp/psr7 (1.6.1): Downloading (100%)
  - Installing guzzlehttp/guzzle (6.5.2): Downloading (100%)
  - Updating aws/aws-sdk-php (2.8.31 => 3.134.0): Downloading (100%)
guzzlehttp/psr7 suggests installing zendframework/zend-httphandlerrunner (Emit PSR-7 responses)
guzzlehttp/guzzle suggests installing psr/log (Required for using the Log middleware)
guzzlehttp/guzzle suggests installing ext-intl (Required for Internationalized Domain Name (IDN) support)
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-172-31-3-66 face]$
[ec2-user@ip-172-31-3-66 face]$
[ec2-user@ip-172-31-3-66 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-04-01 17:29:08--  https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 151.101.248.84, 2600:1408:20:aa9::1931, 2600:1408:20:aad::1931, ...
Connecting to i.pinimg.com (i.pinimg.com)|151.101.248.84|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: ‘b97ea33b5842c7894b804923c6c05580.jpg’

100%[=======================================================================================================>] 215,551     --.-K/s   in 0.05s

2020-04-01 17:29:08 (4.27 MB/s) - ‘b97ea33b5842c7894b804923c6c05580.jpg’ saved [215551/215551]

[ec2-user@ip-172-31-3-66 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
[ec2-user@ip-172-31-3-66 face]$ ls
composer.json  composer.lock  index.php  sample.jpg  vendor
[ec2-user@ip-172-31-3-66 face]$ sudo vim index.php
[ec2-user@ip-172-31-3-66 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-swathi27-bucket.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9 faces[ec2-user@ip-172-31-3-66 face
]$
```



```
100%[=======================================================================================================>] 215,551     --.-K/s   in 0.05s

2020-04-01 17:29:08 (4.27 MB/s) - ‘b97ea33b5842c7894b804923c6c05580.jpg’ saved [215551/215551]

[ec2-user@ip-172-31-3-66 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
[ec2-user@ip-172-31-3-66 face]$ ls
composer.json  composer.lock  index.php  sample.jpg  vendor
[ec2-user@ip-172-31-3-66 face]$ sudo vim index.php
[ec2-user@ip-172-31-3-66 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-swathi27-bucket.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9 faces[ec2-user@ip-172-31-3-66 face
]$
```

# Output:

**Link :** https://aws-swathi27-bucket.s3.us-east-2.amazonaws.com/sample.jpg



S3 Management Console
https://aws-swathi27-bucket.s3.u
sample.jpg (1600×900)
aws-swathi27-bucket.s3.us-east-2.amazonaws.com/sample.jpg
Apps
Gmail
YouTube
Maps
Vellore Institute of...
Star
INDIA
aws-keypair.pem
Show all