# **FACE DETECTION APP**

# using

# **AWS**

WEBINAR Organized by

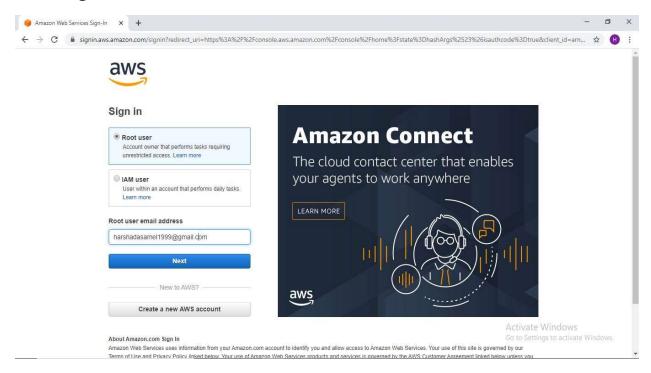
**ETHNUS Consultancy Services Pvt. Ltd.** 

**NAME:** Harshada S. Samel

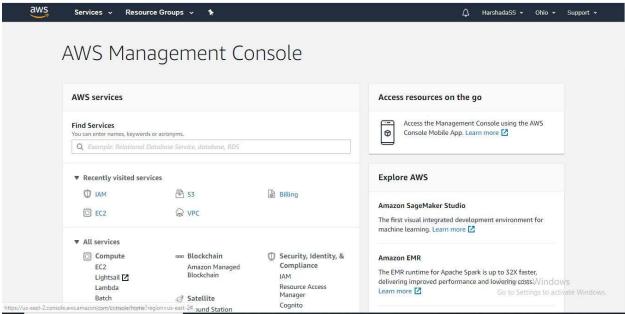
**COLLEGE NAME:** Datta Meghe College of Engineering, Airoli

## DASHBOARDS

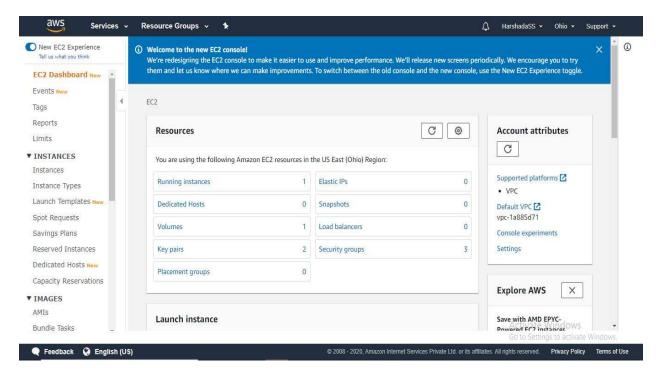
#### **AWS Login screen with username**



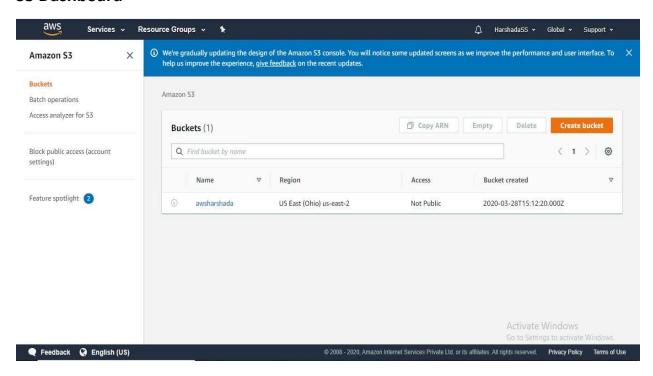
#### **AWS Management Console Dashboard**



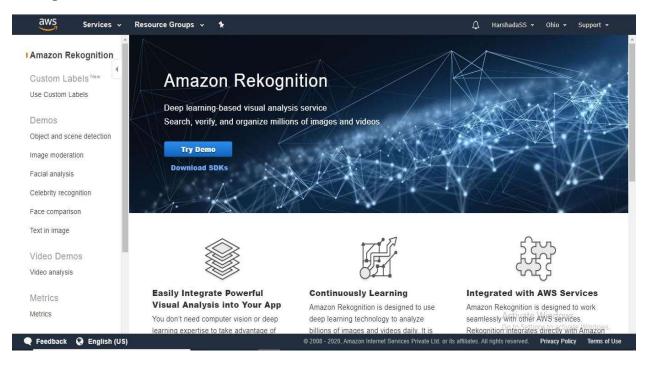
#### **EC2 Dashboard**



#### S3 Dashboard

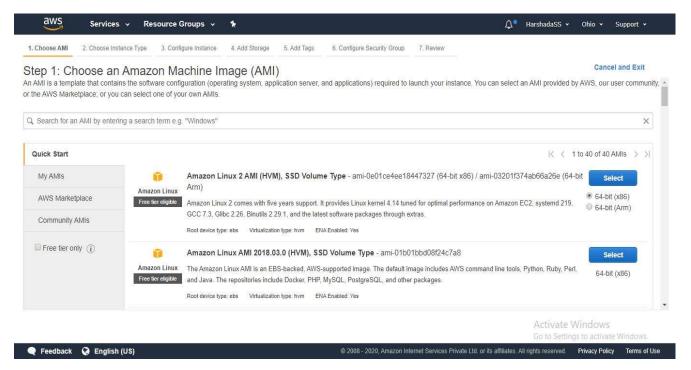


#### **Rekognition Dashboard**



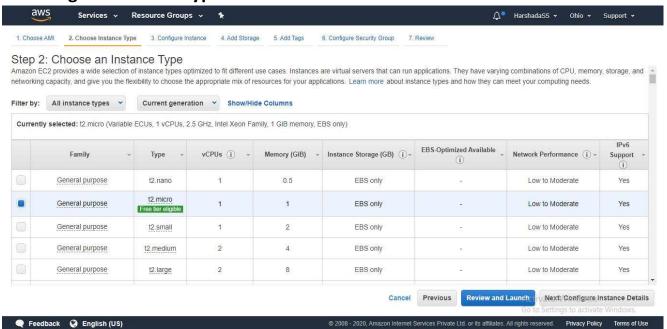
# EC2 (ELASTIC COMPUTE CLOUD)

#### **Choosing an AMI**



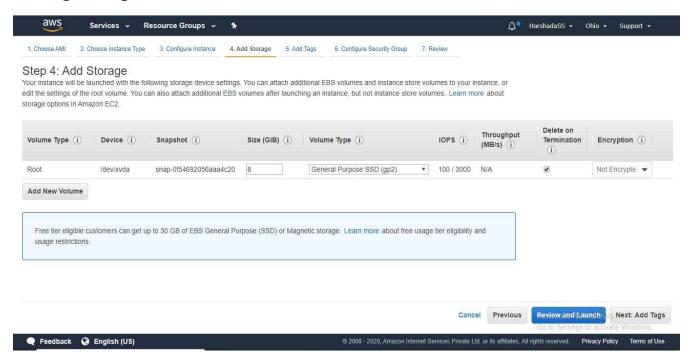
Successfully choosing AMI (Amazon Linux 2)

#### **Choosing an Instance Type**



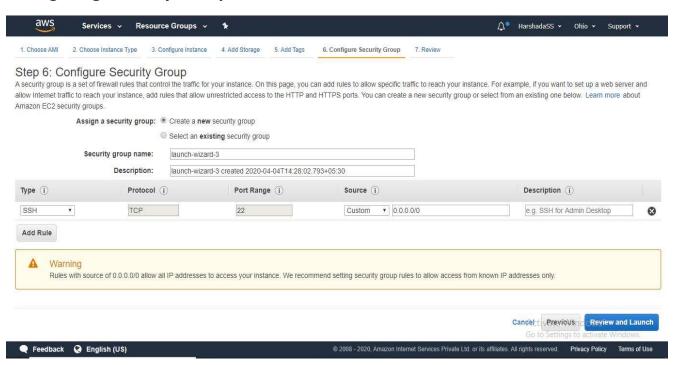
Successfully choosing Instance Type (t3 micro)

#### **Adding Storage**



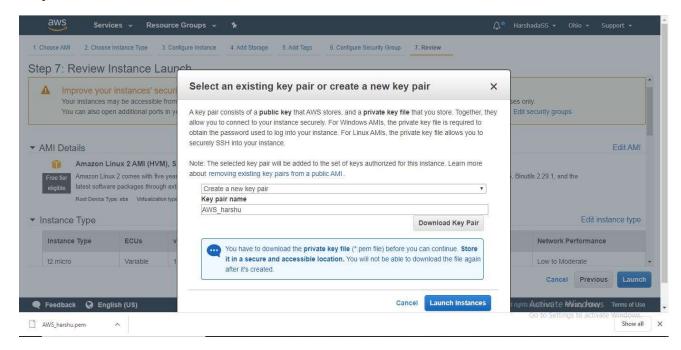
Successfully Storage added (8 GB)

#### **Configuring Security Group**



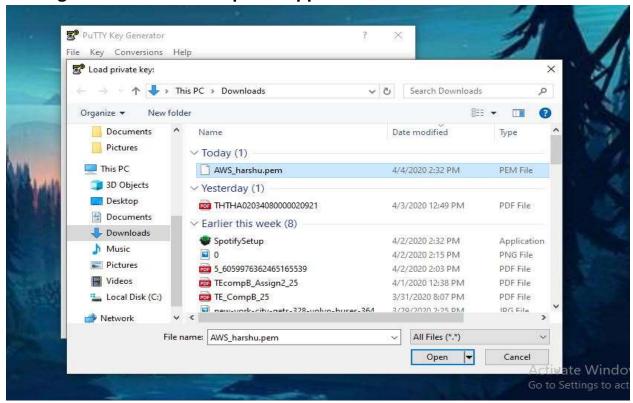
Successfully configured Security Group

#### **Key Pair Download**

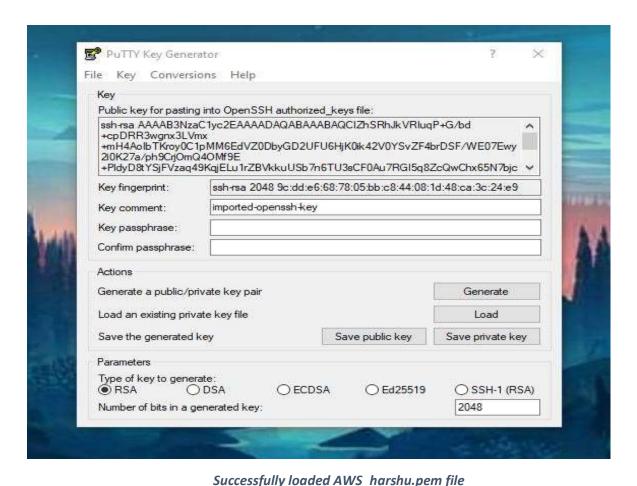


Successfully downloaded the Key Pair (AWS\_harshu.pem)

#### PuTTYgen conversion from pem to ppk



Loading AWS\_harshu.pem to convert it into .ppk file



PuTTY Key Generator File Key Conversions Help Save private key as: ← → ✓ ↑ ♣ > This PC > Downloads Search Downloads ٥ BEE -Organize \* New folder 0 Pictures Name Date modified Туре This PC ✓ Last week (4) 3D Objects aws\_3010.ppk 3/28/2020 9:24 PM PPK File 3/28/2020 10:08 PM Desktop 🔒 Telegram Desktop File folder Apache 3/27/2020 9:15 PM File folder Documents putty 3/27/2020 8:36 PM File folder Downloads Music Pictures W Videos Local Disk (C:) File name: aws\_harshu30 Save as type: PuTTY Private Key Files (\*.ppk) → Hide Folders ate Window

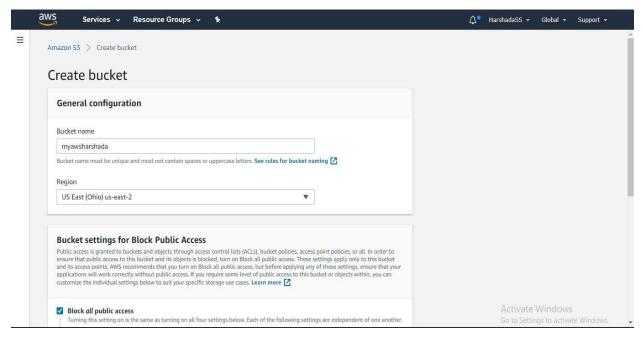
Successfully converted .pem file to .ppk file (Saved private key as aws\_harshu30.ppk)

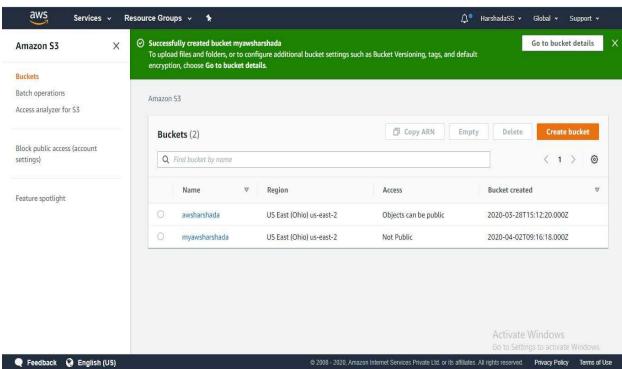
### Logged in EC2 black screen

Successfully logged in EC2 black screen (login as: ec2-user)

# **S3 (SIMPLE STORAGE SERVICES)**

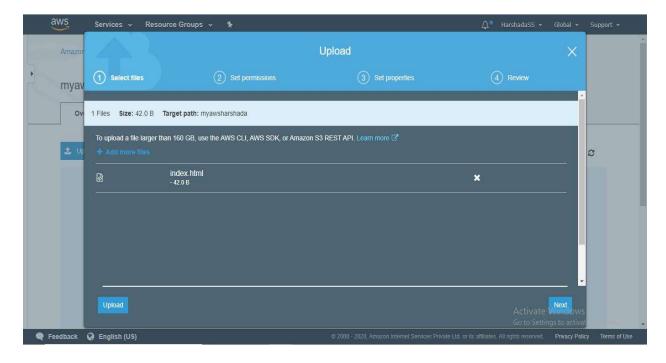
#### **Creating a bucket**

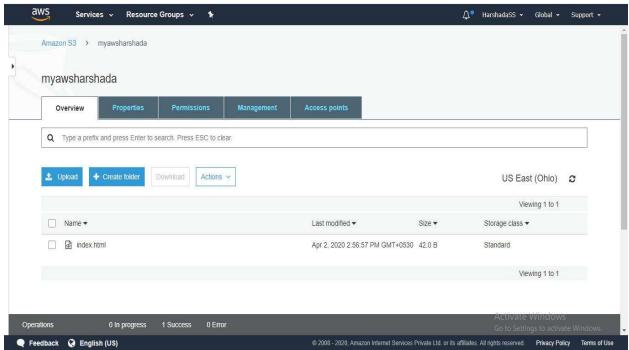




Successfully created bucket (myawsharshada)

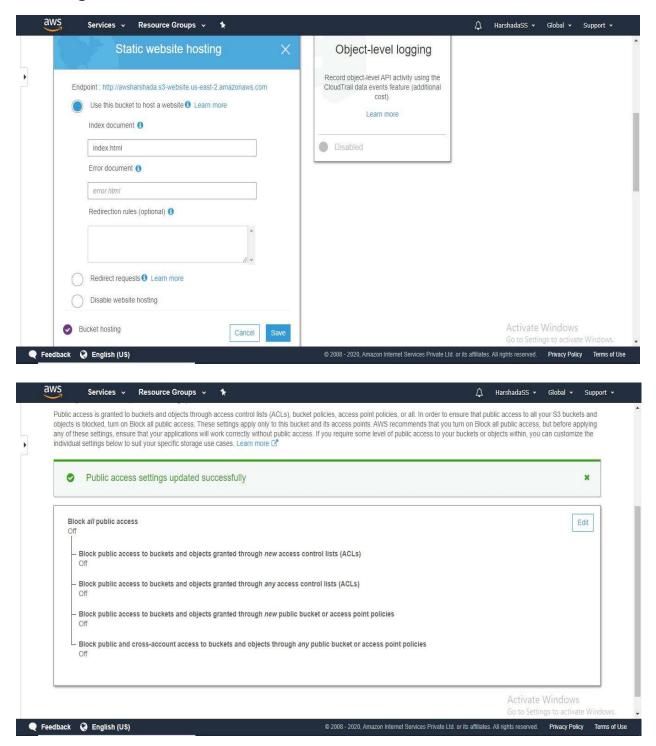
#### **Uploading an Object**





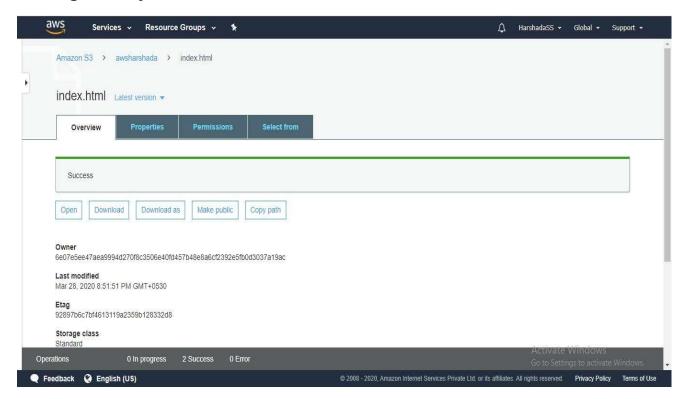
Successfully Uploaded File (index.html)

#### **Enabling Static Website**



Successfully enabled Static Website (bucket name: awsharshada)

#### **Making the Object Public**



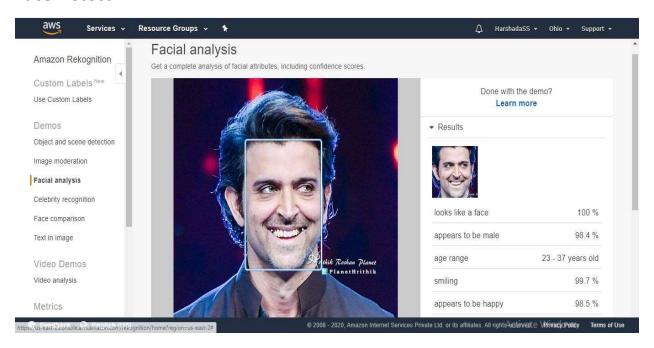
Successfully made the Object Public

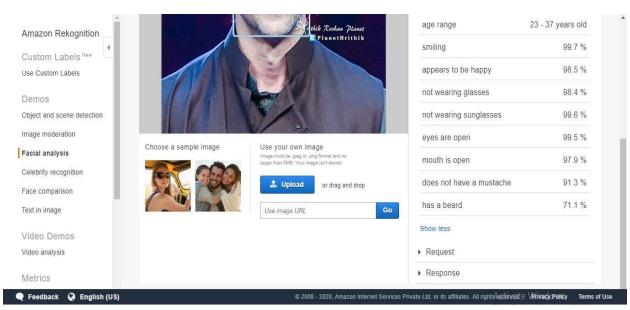
#### Checking the S3 link on the browser



# REKOGNITION

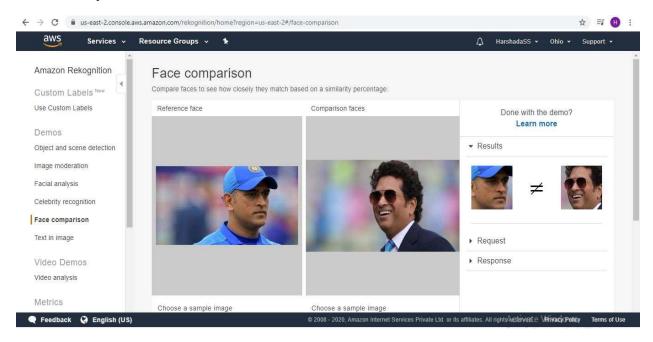
#### **Face Detect**



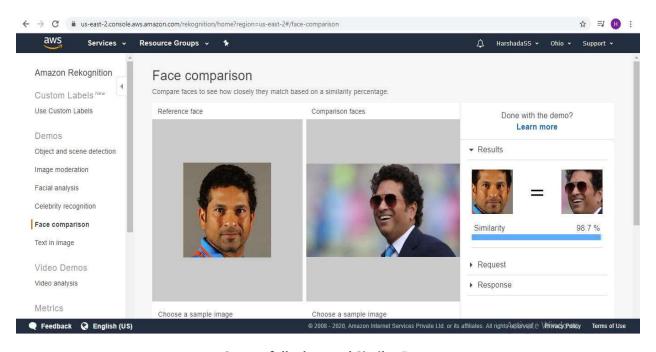


Successful Face Detection

#### **Face Compare**

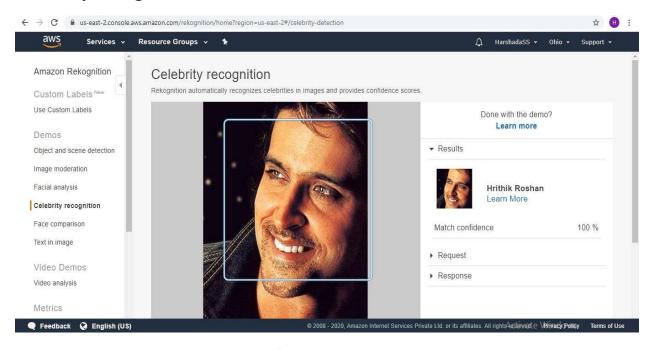


Successfully detected dissimilarity of faces



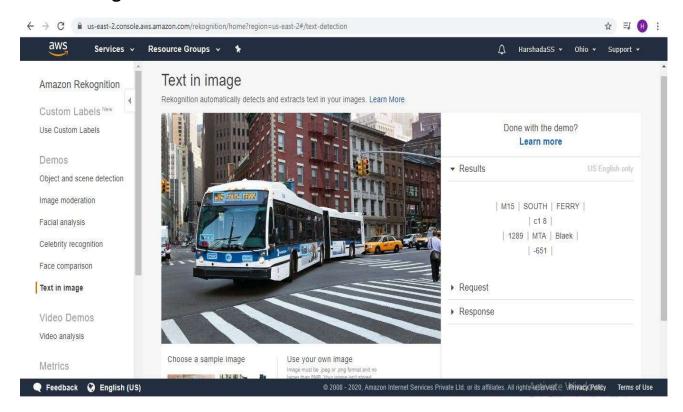
Successfully detected Similar Faces

#### **Celebrity Recognition**



Successful Celebrity Recognition

#### **Text in Image Detection**



Successfully detected Text in Image

# EC2 & 53

#### **Installing aws-sdk**

```
### Ce2-user@ip-172-31-36-77/var/www.html/face

- G X

10737481824 bytes (1.1 GB) copied, 13.5107 s, 79.5 MB/s

[cc2-user@ip-172-31-36-27 face]$ sudo /shin/mkswap /var/swap.1

mkswap: /var/swap.1: insecure permissions 0644, 0600 suggested.

Setting up swapspace version 1, size = 1024 MB (107373778 bytes)

no label, UUID-6666810-72-21-4fbb-b365365878

[cc2-user@ip-172-31-36-27 face]$ sudo /shin/swapon /var/swap.1

swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.

[cc2-user@ip-172-31-36-27 face]$ sudo /shin/swapon /var/swap.1

swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.

[cc2-user@ip-172-31-36-27 face]$ sudo /shin/swapon /var/swap.1

swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.

[cc2-user@ip-172-31-36-27 face]$ sudo php -d memory_limit=-1 -/composer.phar require aws/aws-sdk-php

Using version '2.8 for aws/aws-sdk-php

/composer.joon has been greated

Loading composer repositories with package information

Updating dependencies (including require-dev)

Tackage operations: $ installs, 0 updates, 0 removals

- Installing symfony/event-dispatcher with package information (symfony/event-dispatcher suggests installing aymfony/sedent-dev)

- Installing gymzle/qymzle (32.53): Downloading (1004)

symfony/event-dispatcher suggests installing symfony/ktop-kernel

gyzzle/qymzle suggests installing symfony/ktop-kernel

gyzzle/qymzle suggests installing dymfony/htop-kernel

gyzzle/qymzle suggests installing dymfony/htop-kernel

sws/aws-sdk-php suggests installing dymfony/htop-kernel

sws/aws-sdk-php suggests installing monlog/monlog (Adds support for caching of credentials and responses)

aws/aws-sdk-php suggests installing monlog/monlog (Adds support for logging HTF requests and responses)

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aws/aws-sdk-php suggests installing monlog/monlog (Adds support for logging HTF requests and responses)

aws/aws-sdk-php suggests installing monlog/monlog (Adds support for logging HT
```

#### Successfully installed aws-sdk

#### **Installing php**



Successfully installed php

#### index.php file code (old)

```
Court of pits 13-36-22/various withinface

error_reporting(0);

error_re
```

successfully inserted index.php (EC2 & S3)

### **Upload success screenshot**

```
**ColumerSip-17:313-5:7/var/www.html/face** — d

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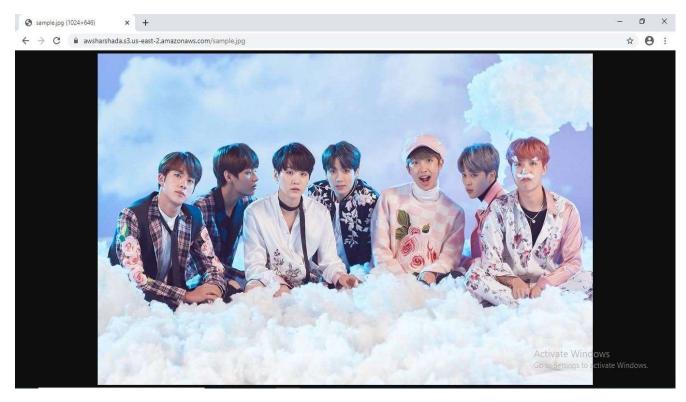
1073745 bytes (1.1 65) copied, 13.5107 s, 79.5 MB/s

1073745 bytes (1.1 65) copied, 13.5107 s, 79.5 MB/s

1073745 bytes (1.1 65) copied
```

Successfully uploaded sample.jpg image in the bucket (awsharshada)

# Sample.jpg image URL check



sample.jpg image that is being uploaded

# EC2 & REKOGNITION

#### index.php file code(new)

catch (Exception \$e) {
 echo \$e->getMessage() . PHP\_EOL;

```
ec2-user@ip-172-31-36-27:/var/www/html/face
    Aws\S3\S3Client;
Aws\Rekognition\RekognitionClient;
                                                                                                                                                                                      o x
ec2-user@ip-172-31-36-27:/var/www/html/face
        $imageUrl = $result['ObjectURL'];
if($imageUrl) {
    echo "Image upload done... Here
                           'region' => 'us-east-2
'version' => 'latest',
```

Successfully inserted index.php (EC2 & Rekognition)

#### **Face Detect success screenshot**

```
| Complete | Complete
```

#### Successful face detection count (i.e. 7)



Clear version (please refer above mentioned sample.jpg image)