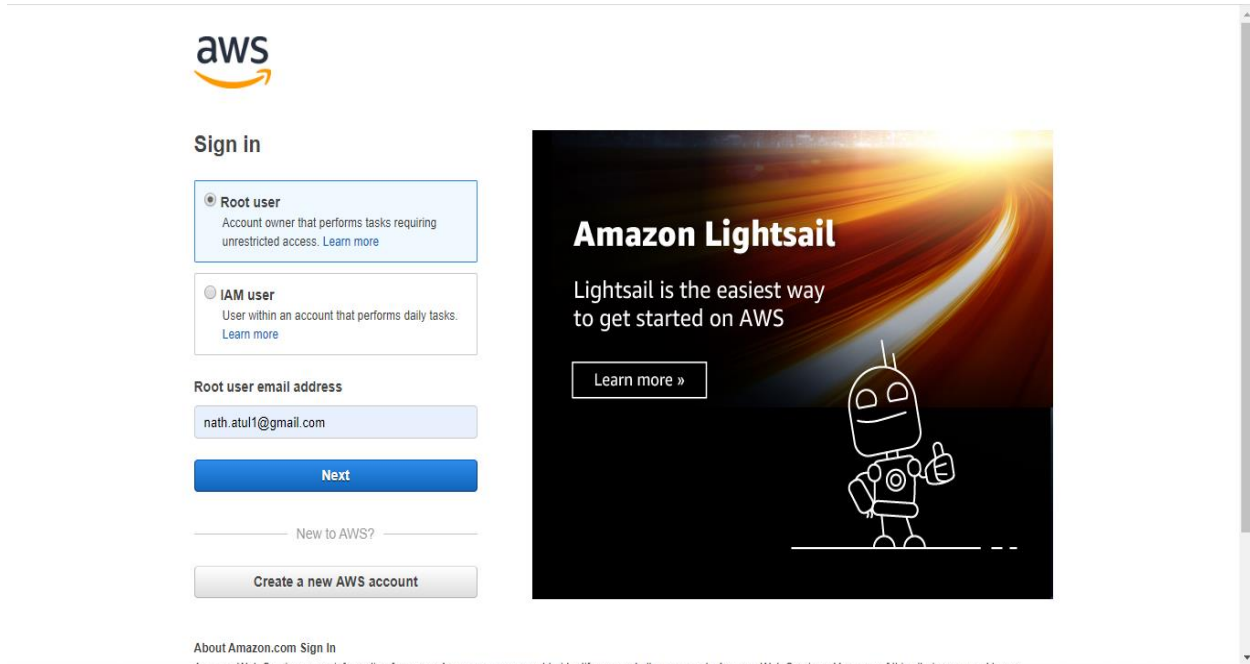# AWS Rekgonition

Name: Atul Nath
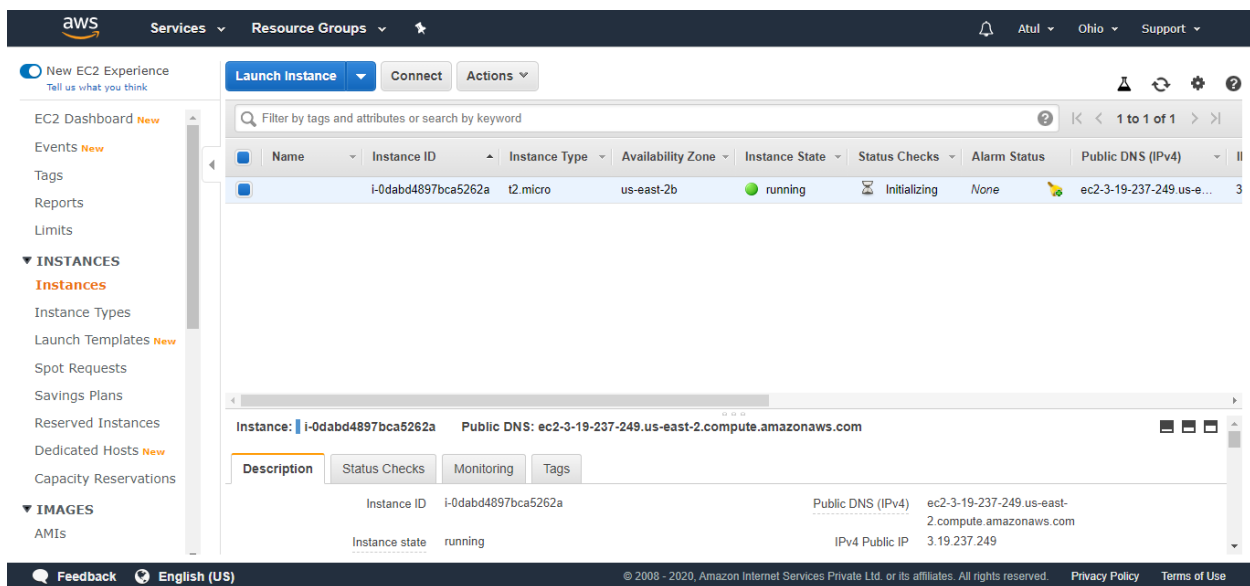
College: VIT University, Vellore

(1) SCREENSHOTS FOR DASHBOARD

*AWS Login Screen With Username

*EC2 Dashboard

*S3 Dashboard

aws | Services ▾ | Resource Groups ▾ | 🔖 | 🔔 Atul ▾ | 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 ▽
○	atul-aws-project-bucket	US East (Ohio) us-east-2	Objects can be public	2020-03-31T14:21:23.000Z

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*Rekognition Dashboard

aws | Services ▾ | Resource Groups ▾ | 🔖 | 🔔 Atul ▾ | Ohio ▾ | Support ▾
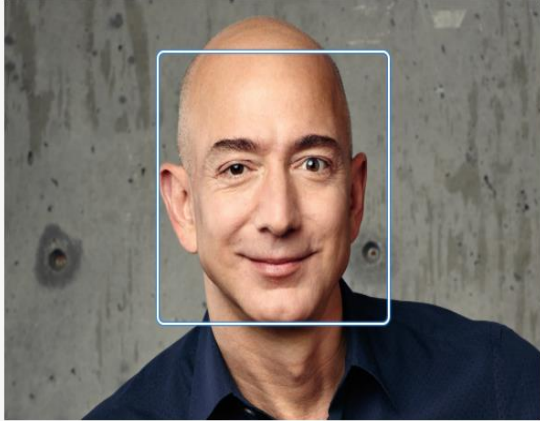
Amazon Rekognition

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

Amazon Rekognition

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

Try Demo

Download SDKs

Easily Integrate Powerful   **Continuously Learning**   **Integrated with AWS Services**

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(2) SCREENSHOTS FOR EC2

*Choosing an AMI

*Choosing an Instance Type

*Adding Storage

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	☑	Not Encrypte ▾

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

*Configuring Security Group

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

Amazon EC2 security groups.

Assign a security group: ◉ Create a **new** security group
                          ○ Select an **existing** security group

Security group name: [launch-wizard-4]
Description: [launch-wizard-4 created 2020-04-01T11:55:48.915+05:30]

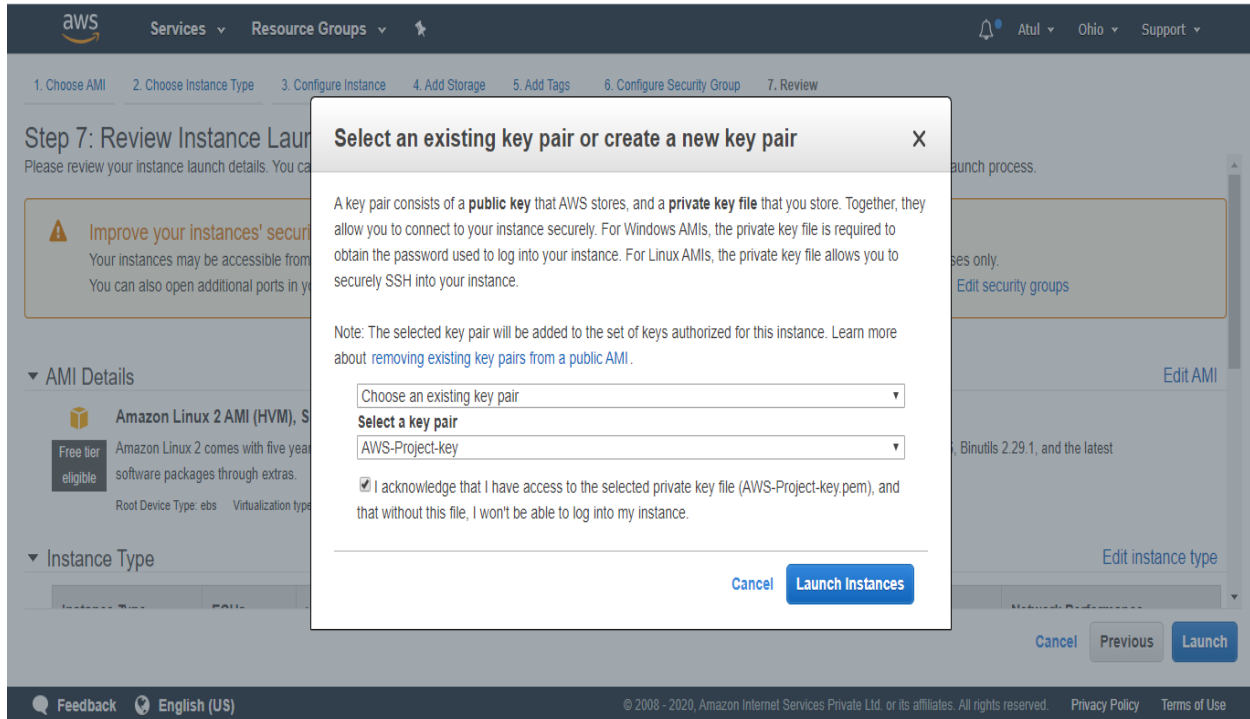| Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ	
SSH ▾	TCP	22	Custom ▾ 0.0.0.0/0	e.g. SSH for Admin Desktop	⊗

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.
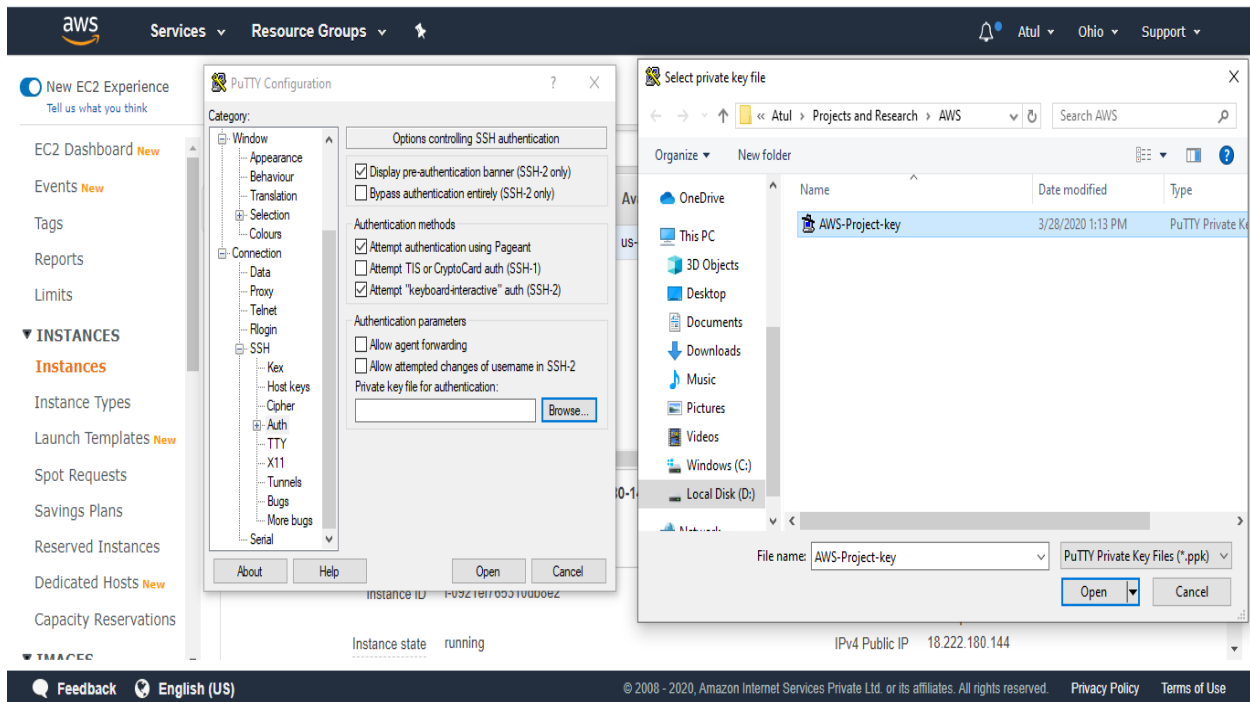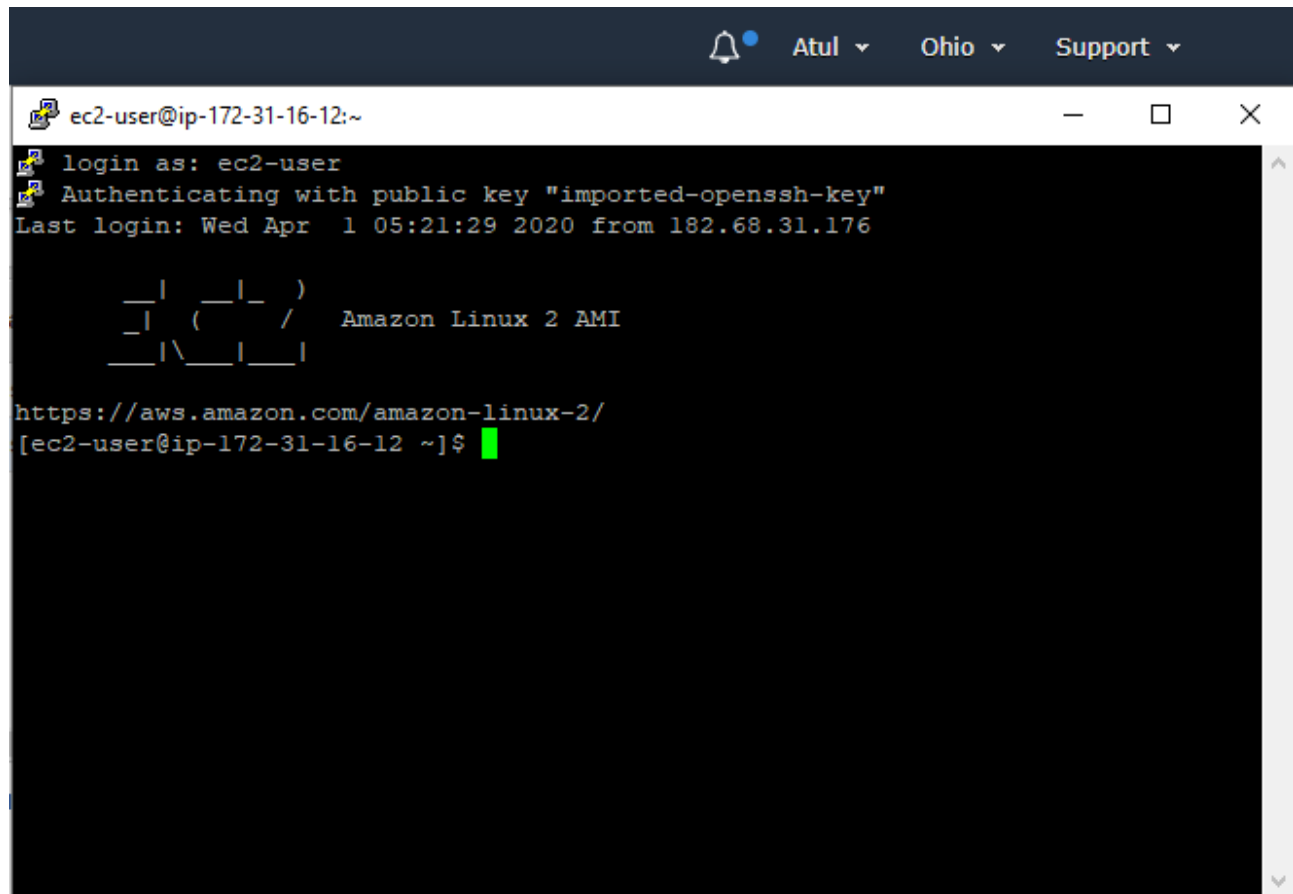
Cancel   **Previous**   **Review and Launch**

*Key-Pair Download

*PuTTYgen conversion from pem to pek

*Logged in EC2 black screen

(3) SCREENSHOTS FOR S3

*Creating a bucket (atul-aws-project-bucket)
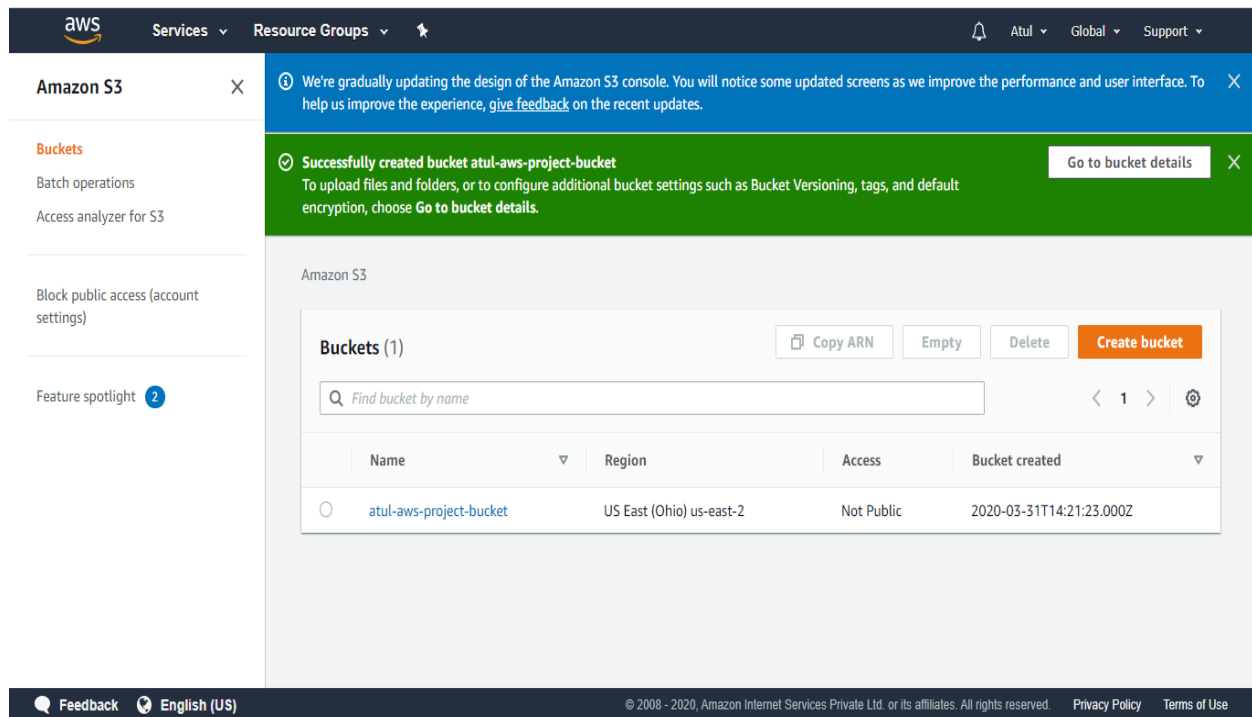
*Uploading an object in Bucket
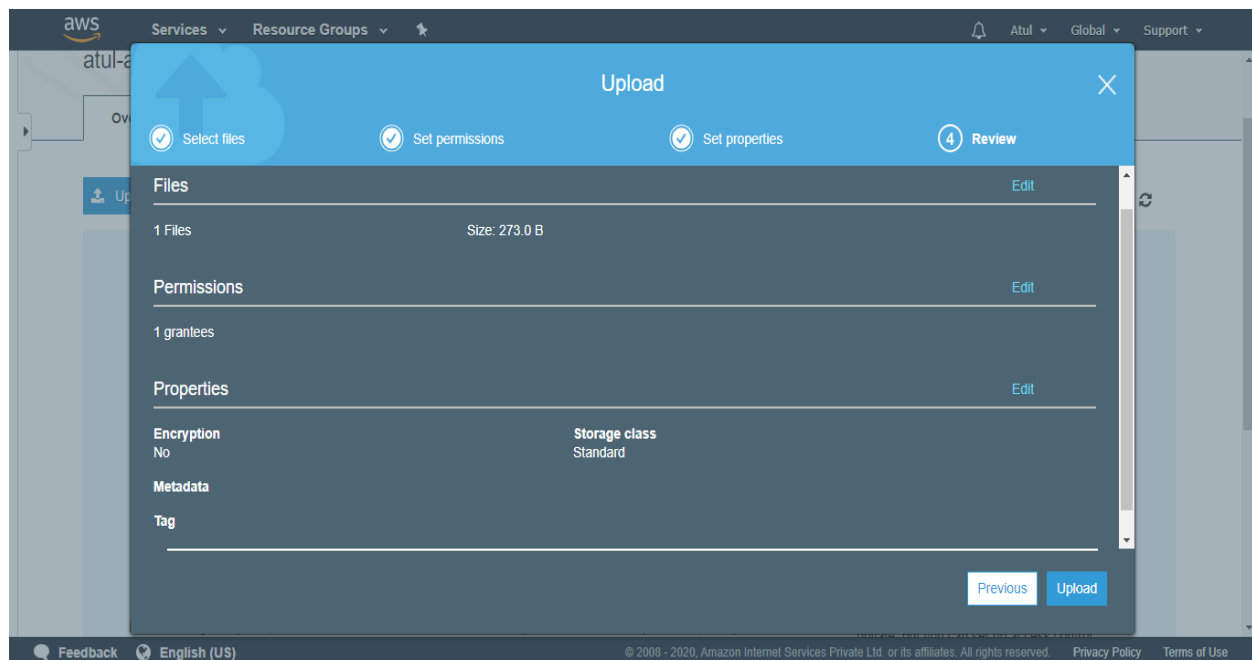
*Enabling Static Website

*Making Object Public

*Checking S3 link in browser

This is my AWS project html file

(4) SCREENSHOTS FOR Rekognition

*Face-Detect

*Face-Compare

*Celebrity-Recognition

*Text in Image

(5) SCREENSHOTS FOR connecting EC2 to S3

*Installing aws-sdk

*Installing Php

*index.php file code


```
[ec2-user@ip-172-31-16-12 face]$ sudo vim index.php
        $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;
}
```
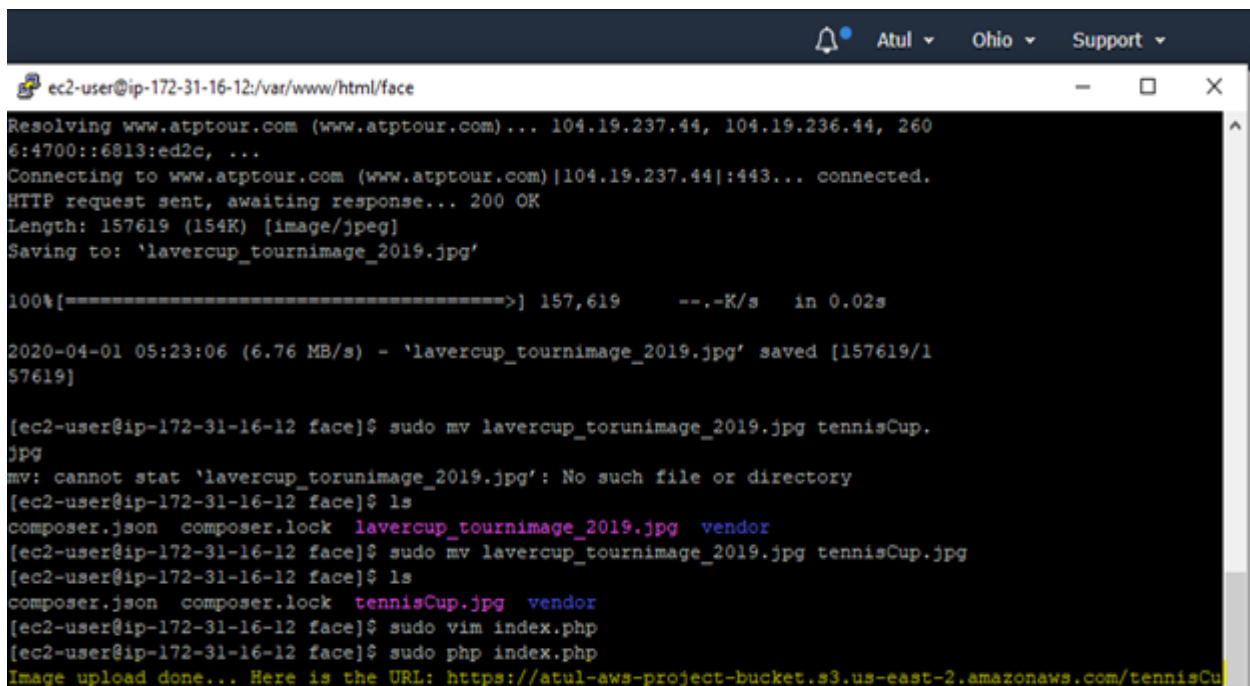
*Upload Success Screenshot


```
Resolving www.atptour.com (www.atptour.com)... 104.19.237.44, 104.19.236.44, 260
6:4700::6813:ed2c, ...
Connecting to www.atptour.com (www.atptour.com)|104.19.237.44|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 157619 (154K) [image/jpeg]
Saving to: 'lavercup_tournimage_2019.jpg'

100%[================================================>] 157,619      --.-K/s    in 0.02s

2020-04-01 05:23:06 (6.76 MB/s) - 'lavercup_tournimage_2019.jpg' saved [157619/1
57619]

[ec2-user@ip-172-31-16-12 face]$ sudo mv lavercup_torunimage_2019.jpg tennisCup.
jpg
mv: cannot stat 'lavercup_torunimage_2019.jpg': No such file or directory
[ec2-user@ip-172-31-16-12 face]$ ls
composer.json  composer.lock  lavercup_tournimage_2019.jpg  vendor
[ec2-user@ip-172-31-16-12 face]$ sudo mv lavercup_tournimage_2019.jpg tennisCup.jpg
[ec2-user@ip-172-31-16-12 face]$ ls
composer.json  composer.lock  tennisCup.jpg  vendor
[ec2-user@ip-172-31-16-12 face]$ sudo vim index.php
[ec2-user@ip-172-31-16-12 face]$ sudo php index.php
Image upload done... Here is the URL: https://atul-aws-project-bucket.s3.us-east-2.amazonaws.com/tennisCu
```

*Image URL present in S3 Bucket

(6) SCREENSHOTS FOR connecting EC2 to Rekognition

*Image URL present in S3 Bucket

Successful; 8 faces have been detected.

Image used: