

AWS PROJECT

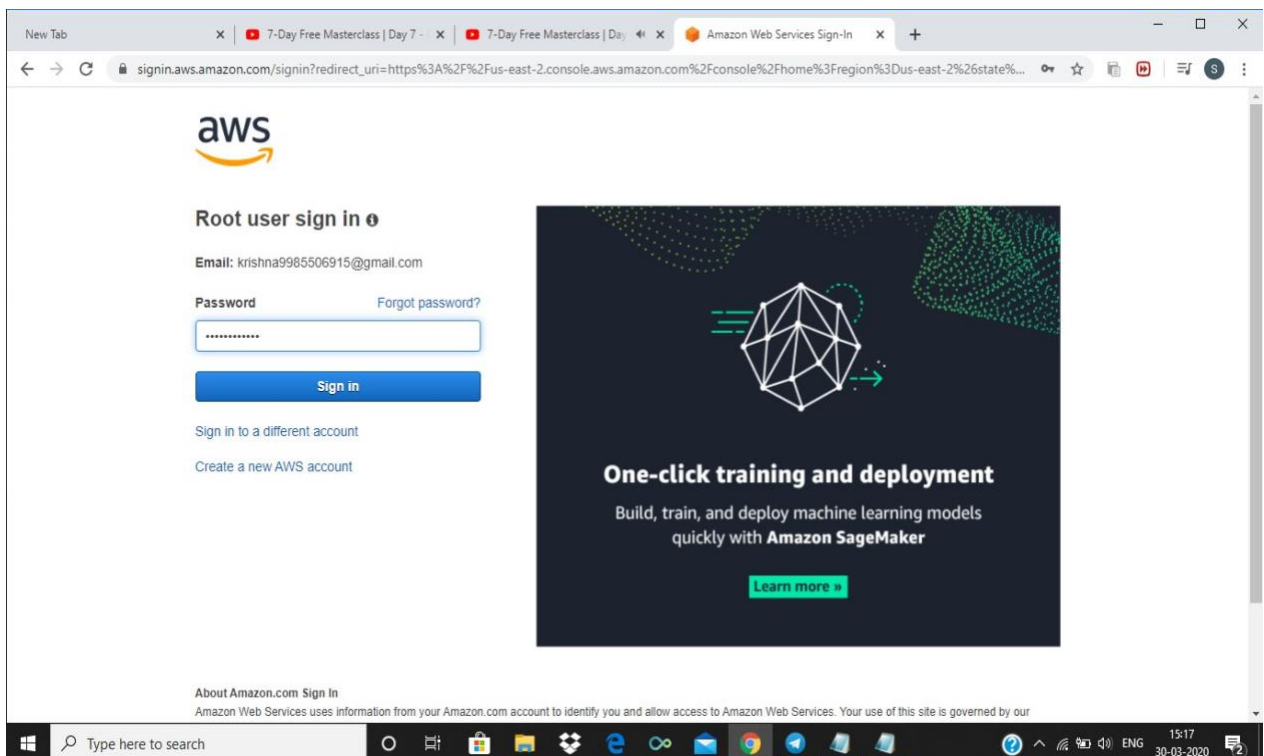
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Degree: MS in Computer Science

University: Pace University

Year : 2nd Year

AWS Login Screen and Username:



EC2 Dashboard:

The screenshot displays the AWS Management Console for the EC2 service in the us-east-2 region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, and IMAGES. The main content area shows a welcome message and a table of resources. The resources table lists the following counts: Running instances (1), Elastic IPs (0), Dedicated Hosts (0), Snapshots (0), Volumes (1), Load balancers (0), Key pairs (1), Security groups (2), and Placement groups (0). The right sidebar shows account attributes including supported platforms, default VPC, console experiments, and settings. The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

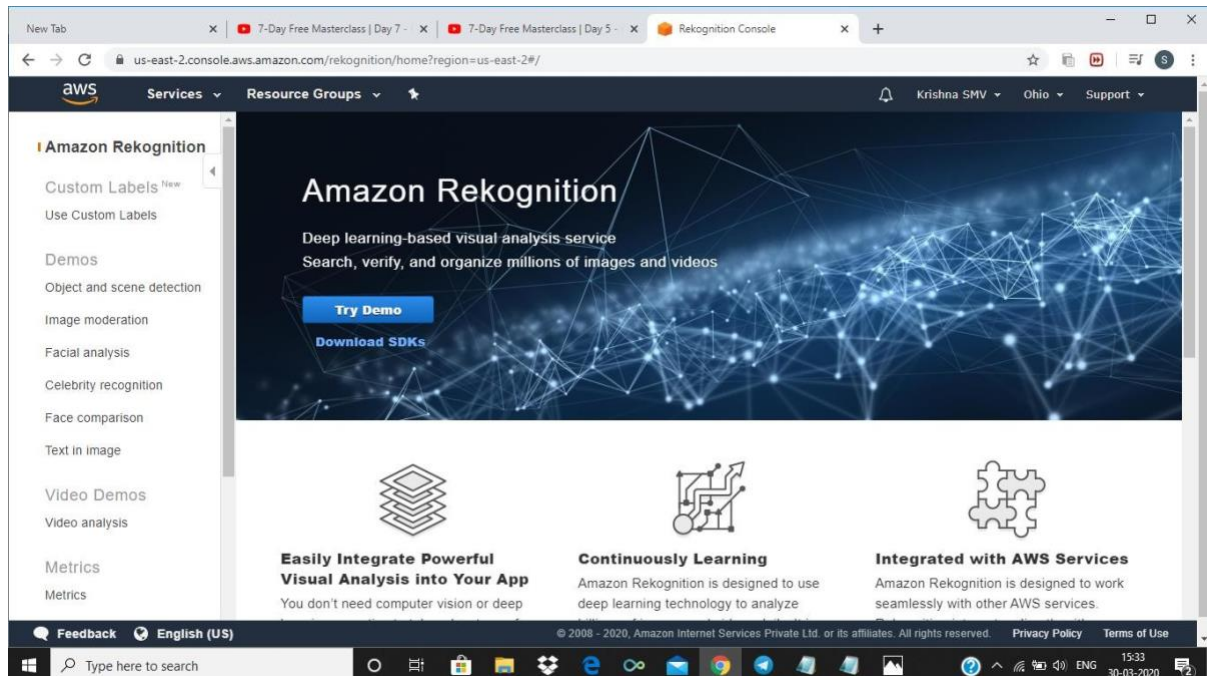
Resources	
Running instances	1
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	1
Load balancers	0
Key pairs	1
Security groups	2
Placement groups	0

S3 Dashboard:

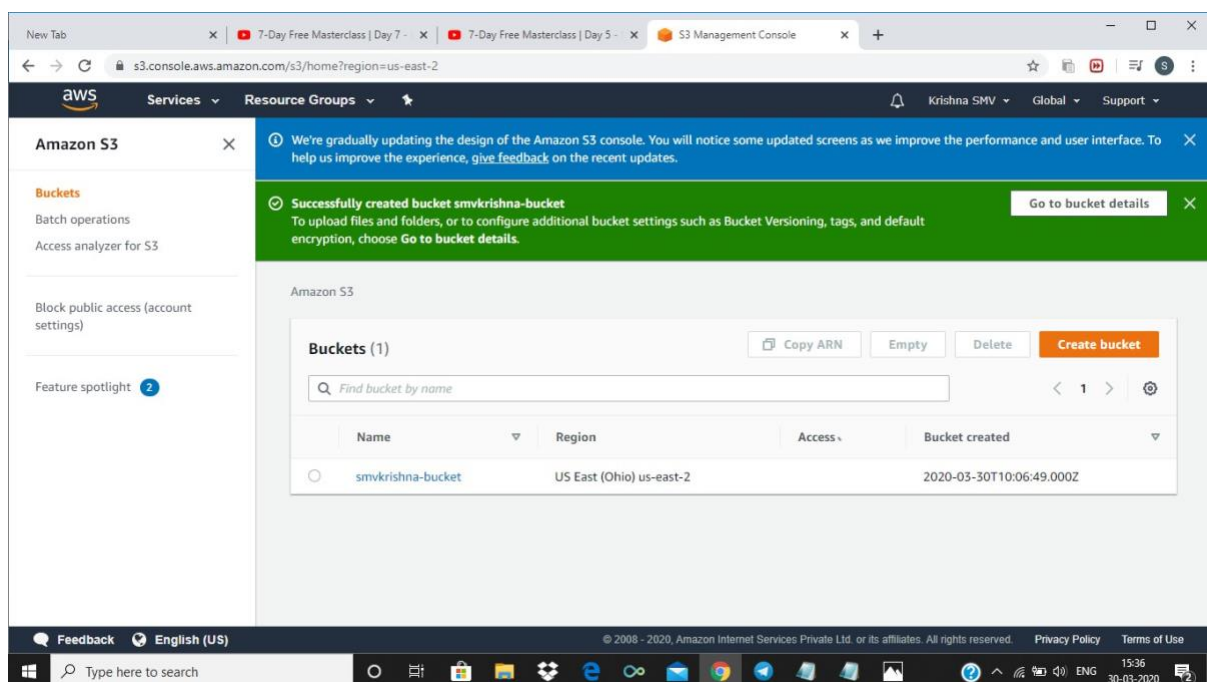
The screenshot displays the AWS Management Console for the S3 service in the us-east-2 region. The left sidebar contains navigation links for Amazon S3, Buckets, Batch operations, Access analyzer for S3, Block public access (account settings), and Feature spotlight. The main content area shows a message about the S3 console update and a section for Buckets (0). The Buckets section includes a search bar, a table with columns Name, Region, Access, and Bucket created, and a message stating "No buckets. You don't have any buckets." with a "Create bucket" button. The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

Name	Region	Access	Bucket created
No buckets You don't have any buckets.			

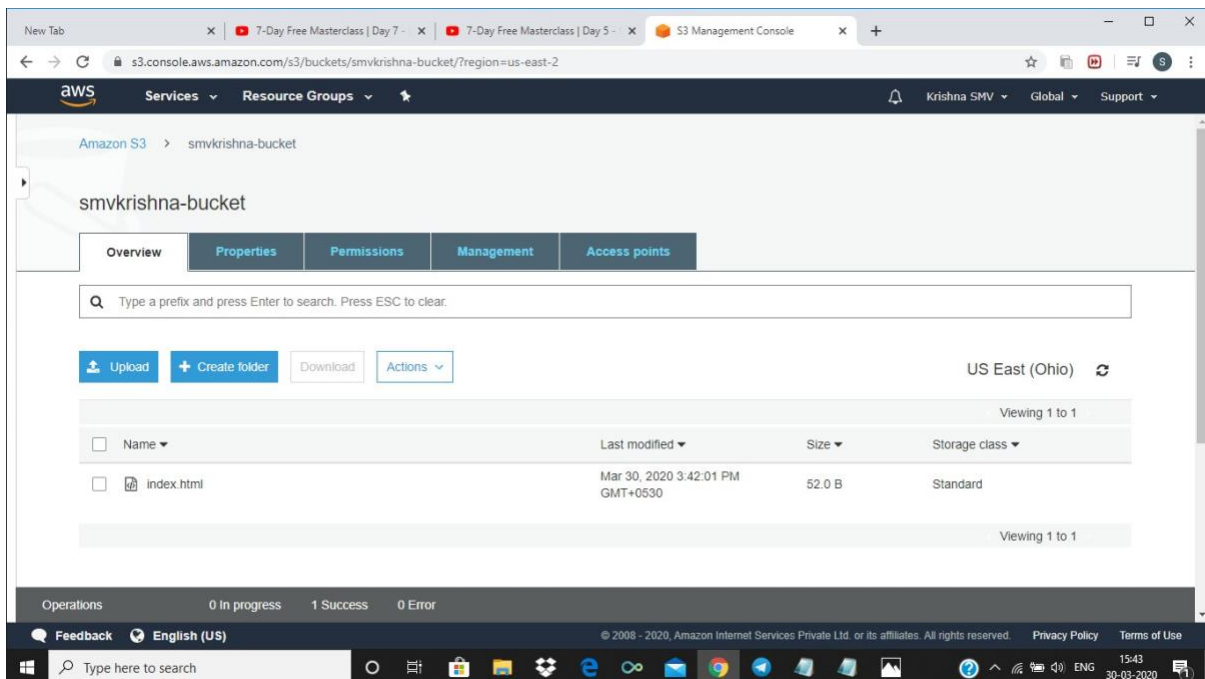
Amazon Rekognition Dashboard:



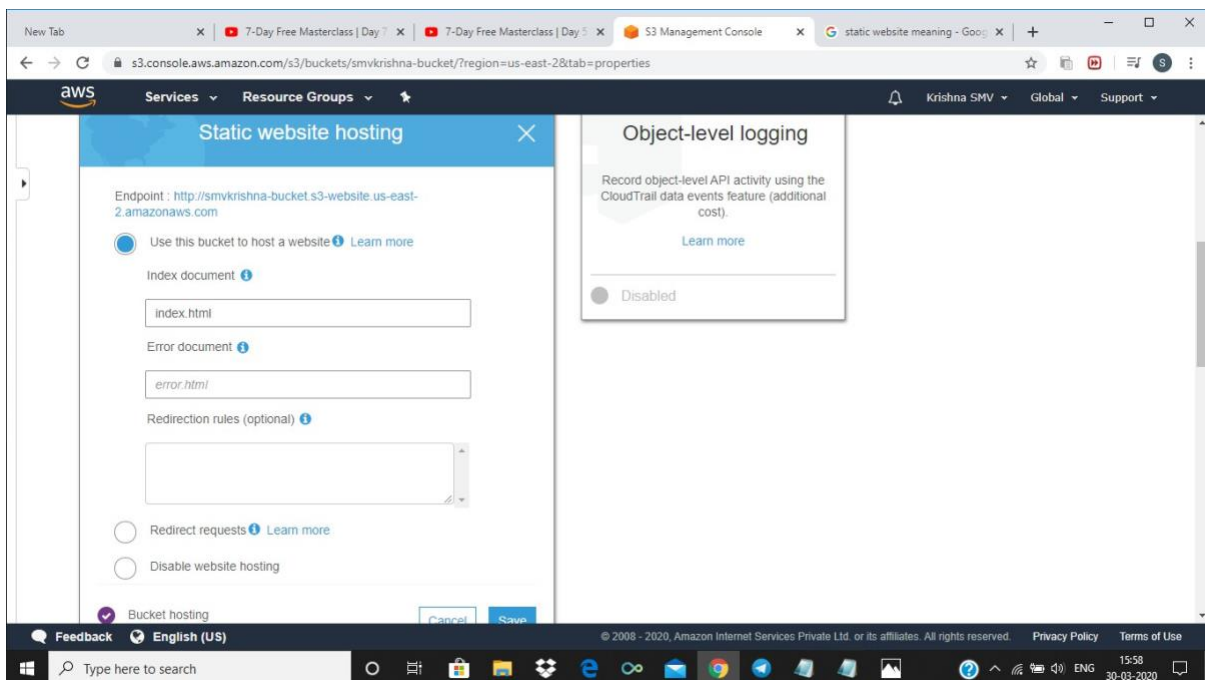
Creating a Bucket:



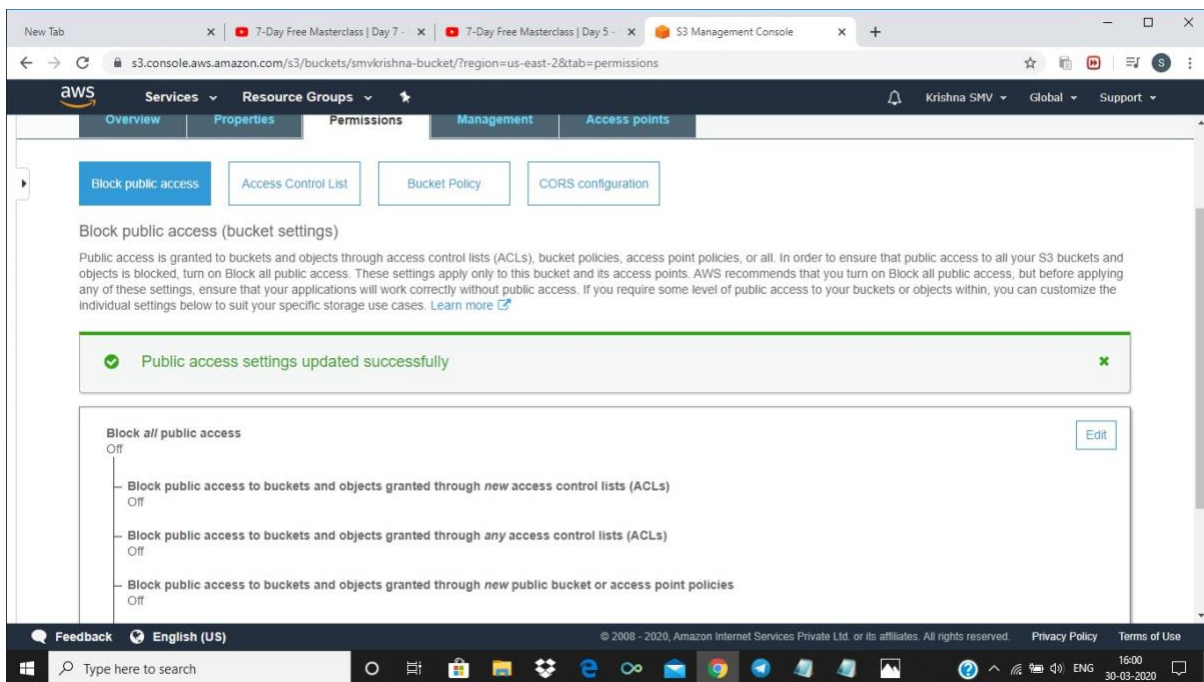
Uploading an Object:



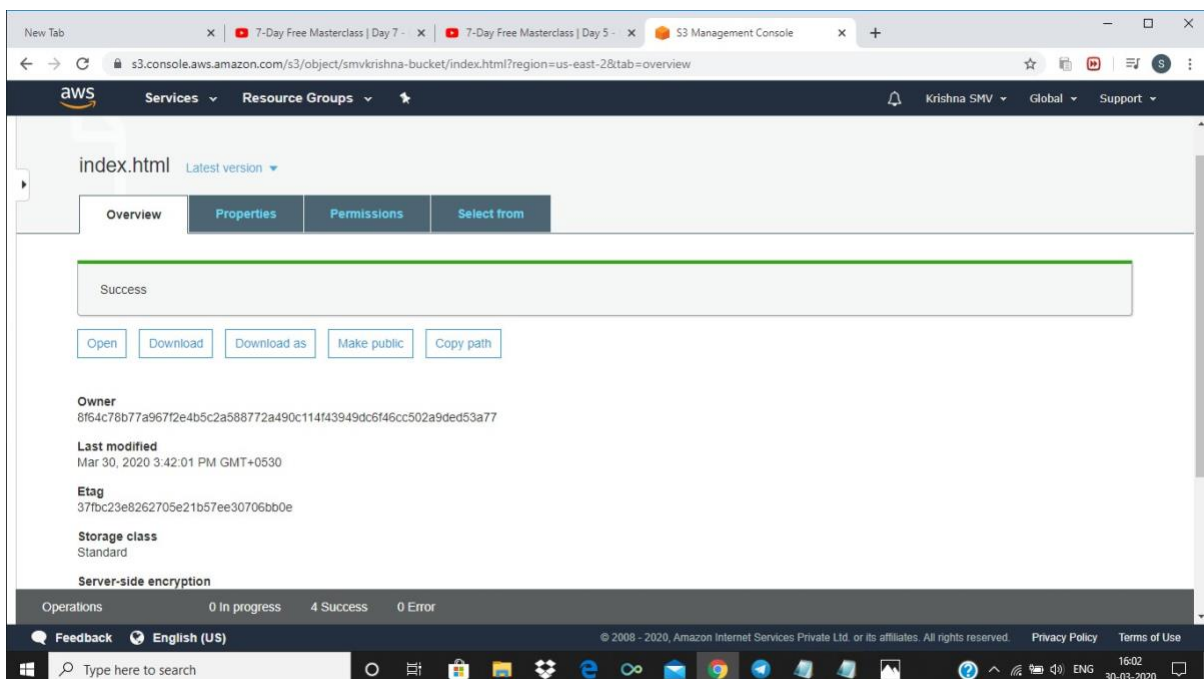
Enabling Static Website:



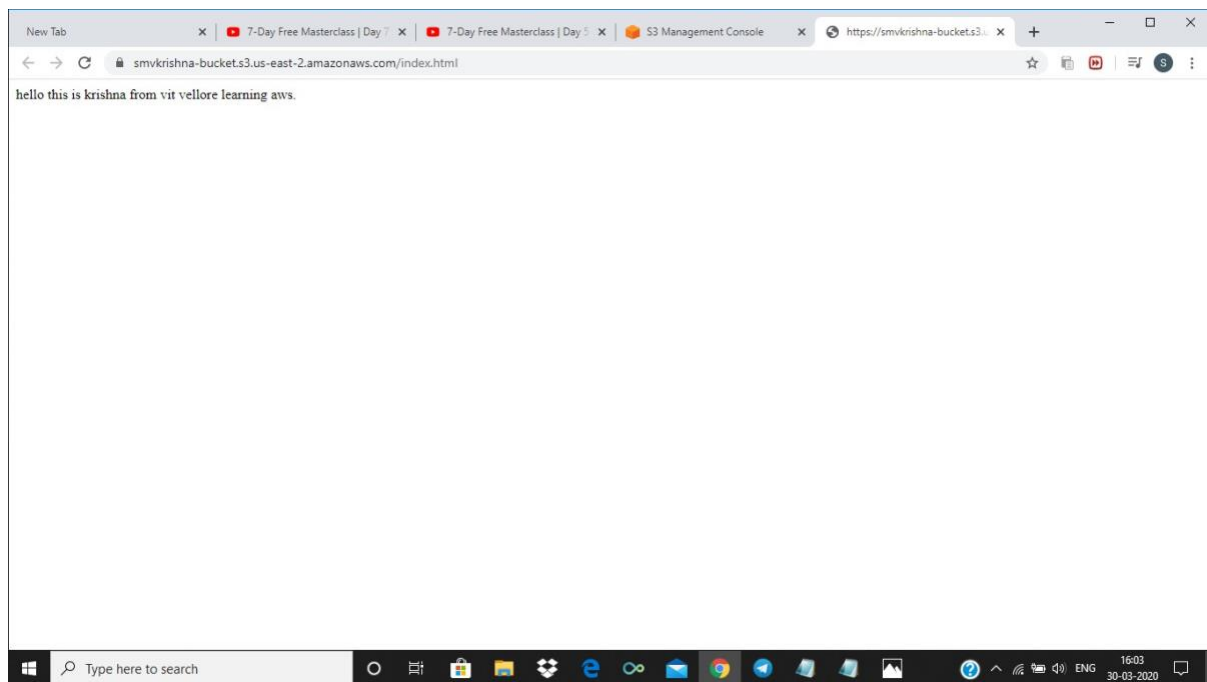
Making Public Access:



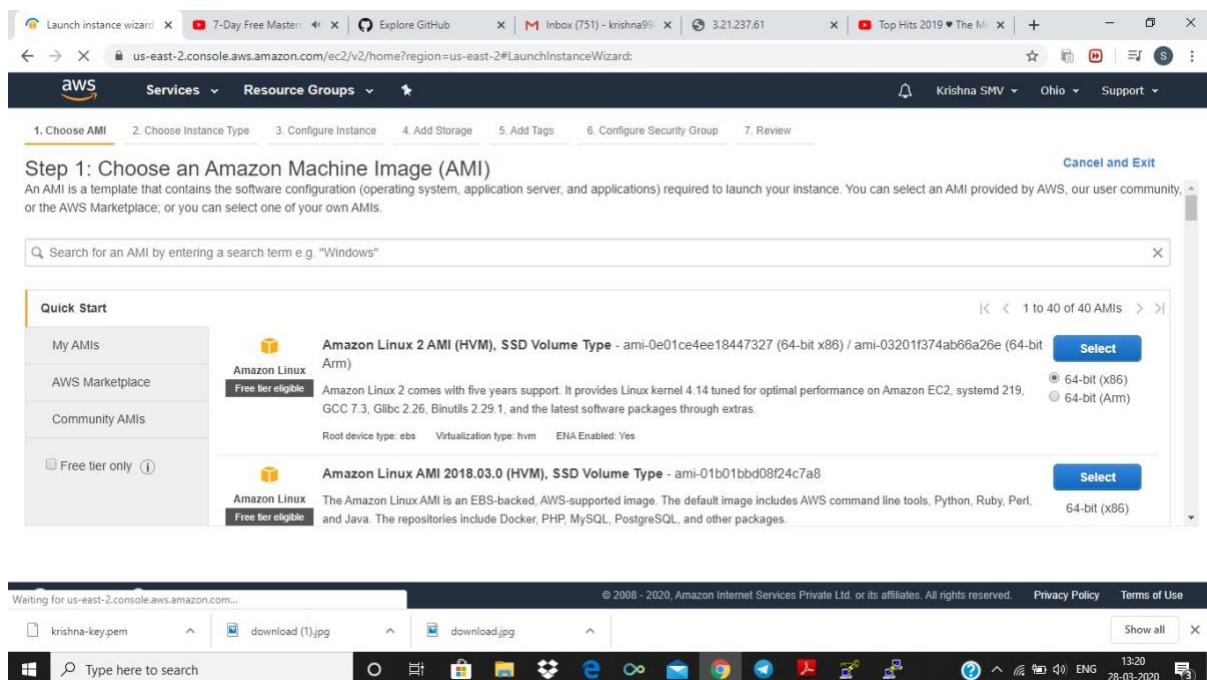
Making the Object Public:



Checking the S3 Link on the Browser:



Choosing an AMI:



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 on

	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

Cancel Previous **Review and Launch** Next: Configure Instance Details

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	<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.

Cancel Previous **Review and Launch** Next: Add Tags

Configuring the 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:

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](#)

Key Pair Download:

Step 7: Review Instance Launch

Please review your instance launch details. You can launch your instance now or make changes to your configuration.

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

AMI Details

Amazon Linux 2 AMI (HVM), S3, Free tier eligible

Instance Type

Instance Type: ECUs

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

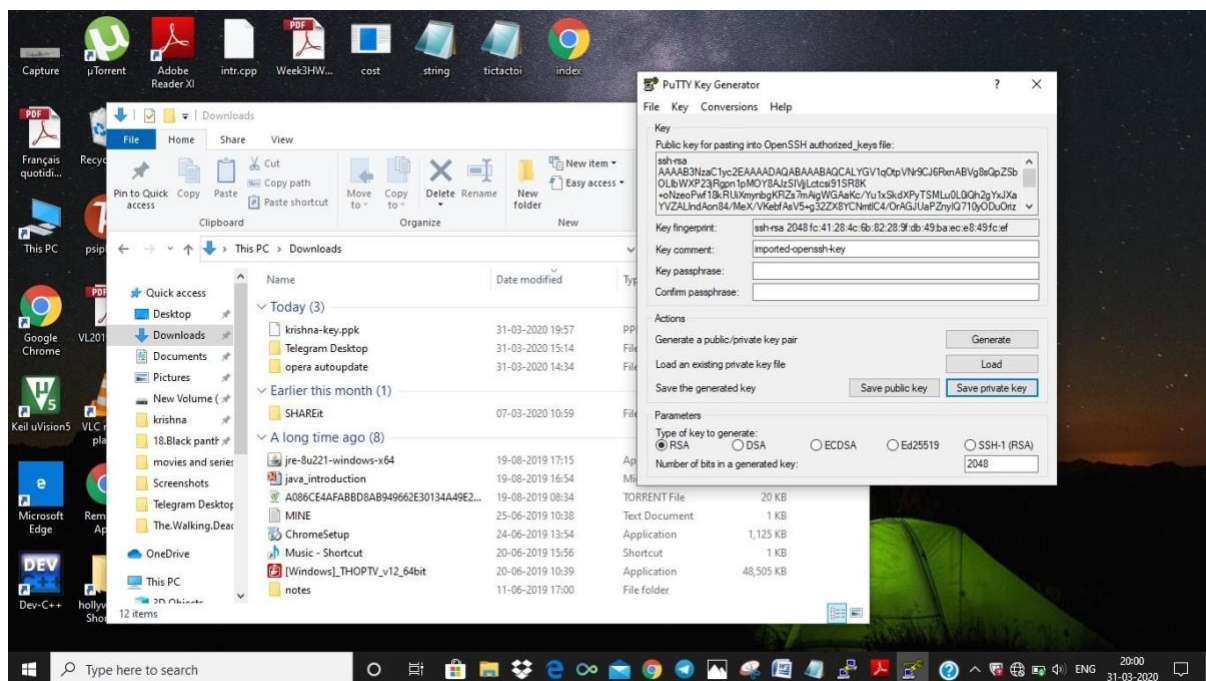
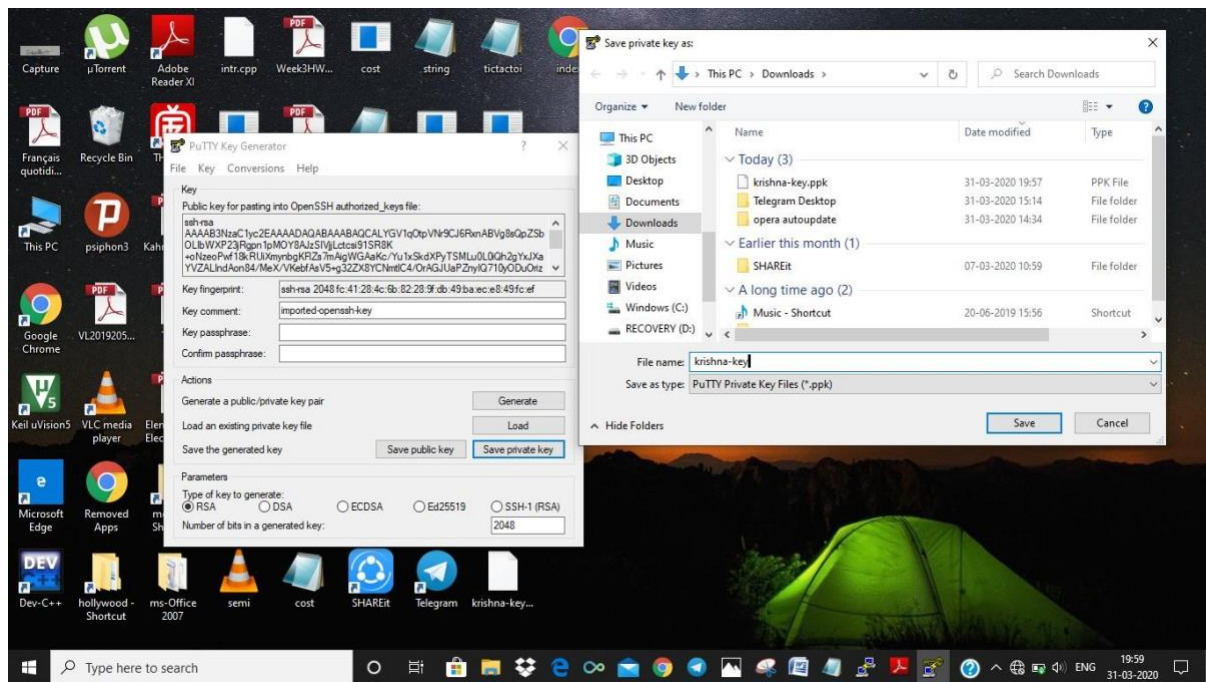
Key pair name:

[Download Key Pair](#)

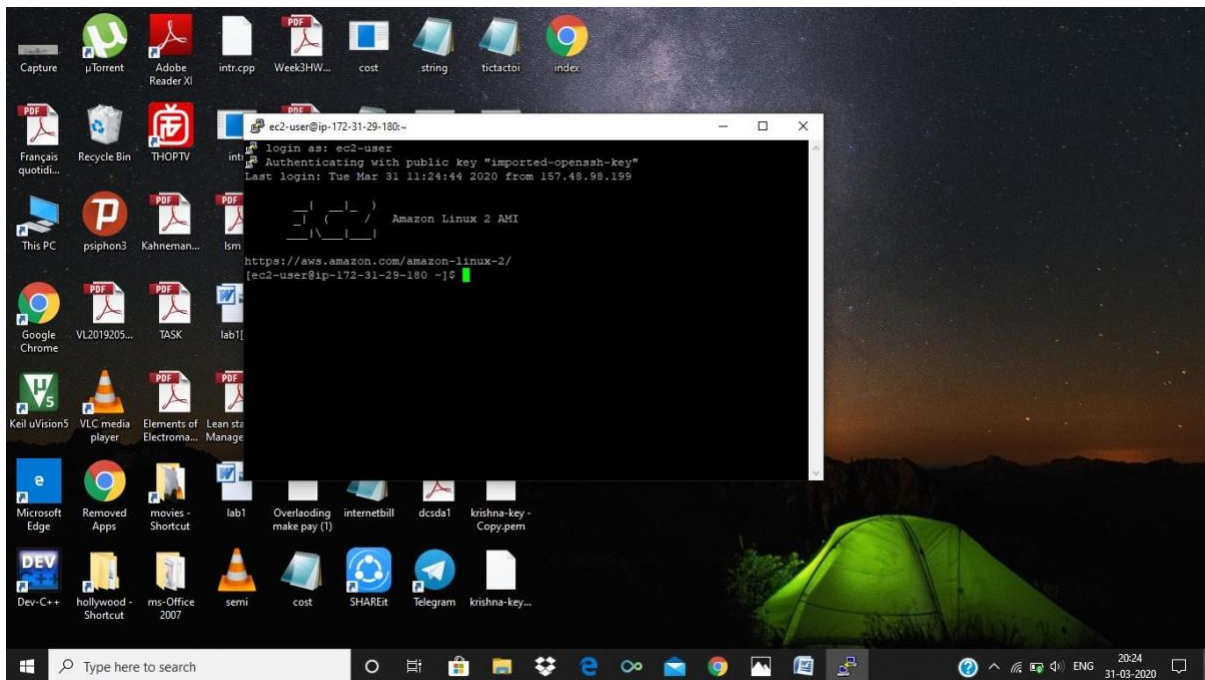
You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

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

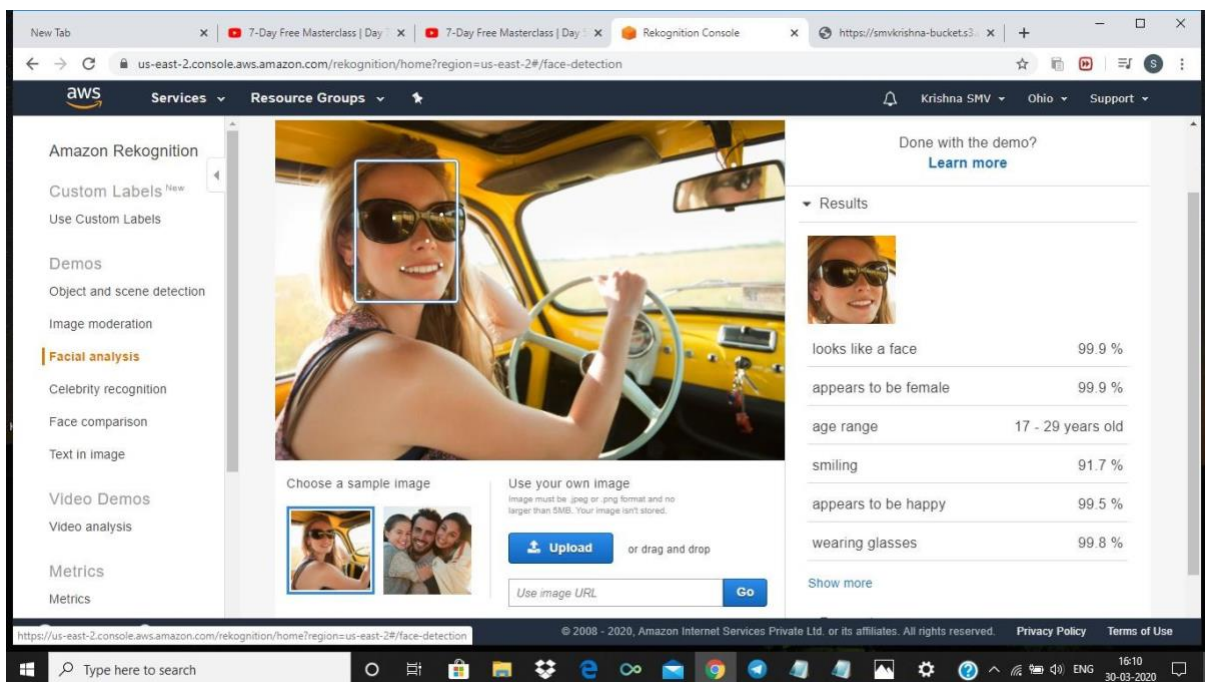
PutTYgen Conversion from pem to ppk:



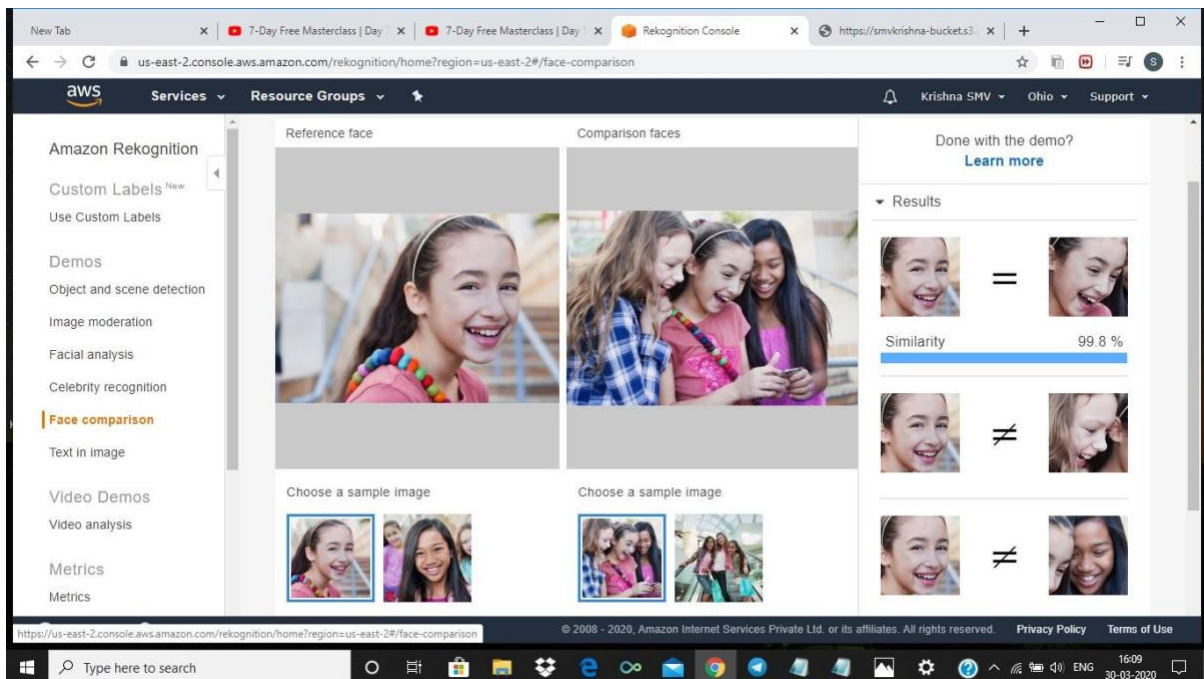
Logged in EC2 Black Screen:



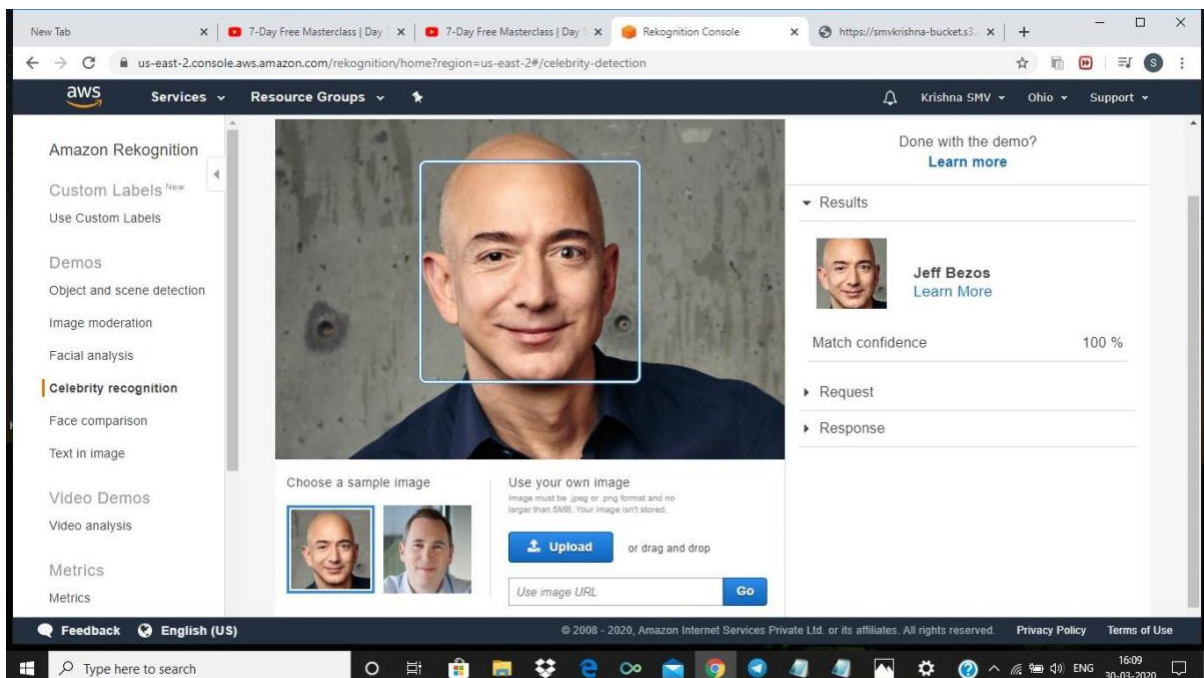
Face Detect:



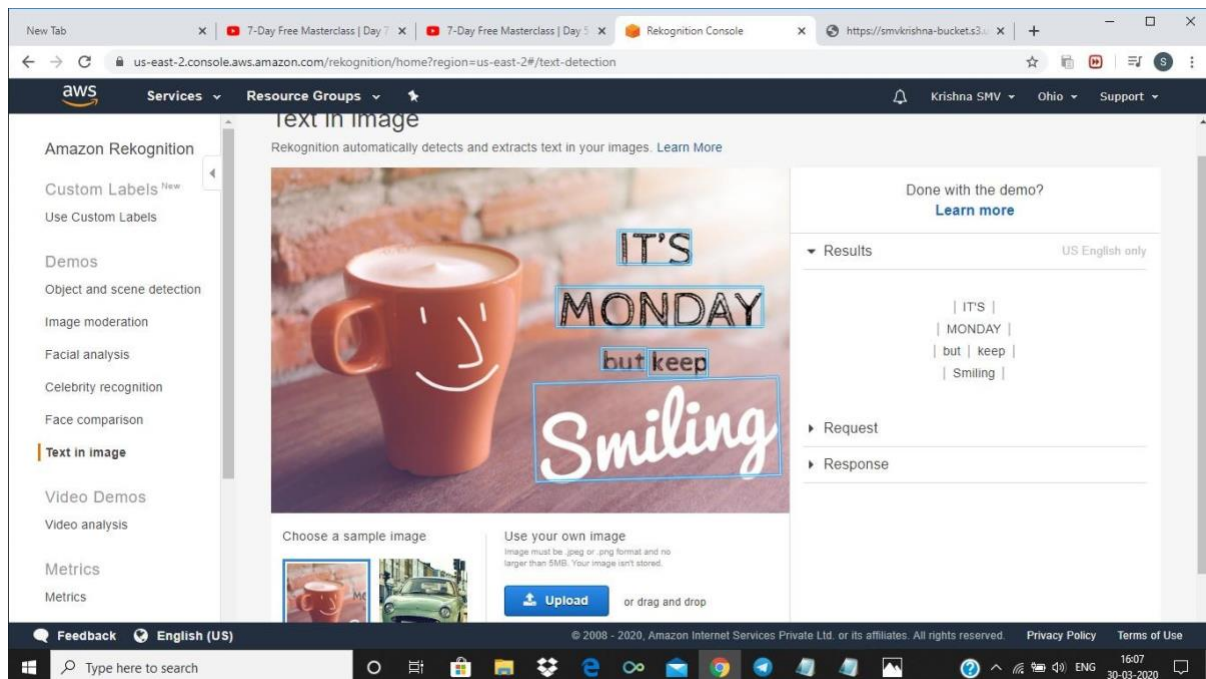
Face Compare:



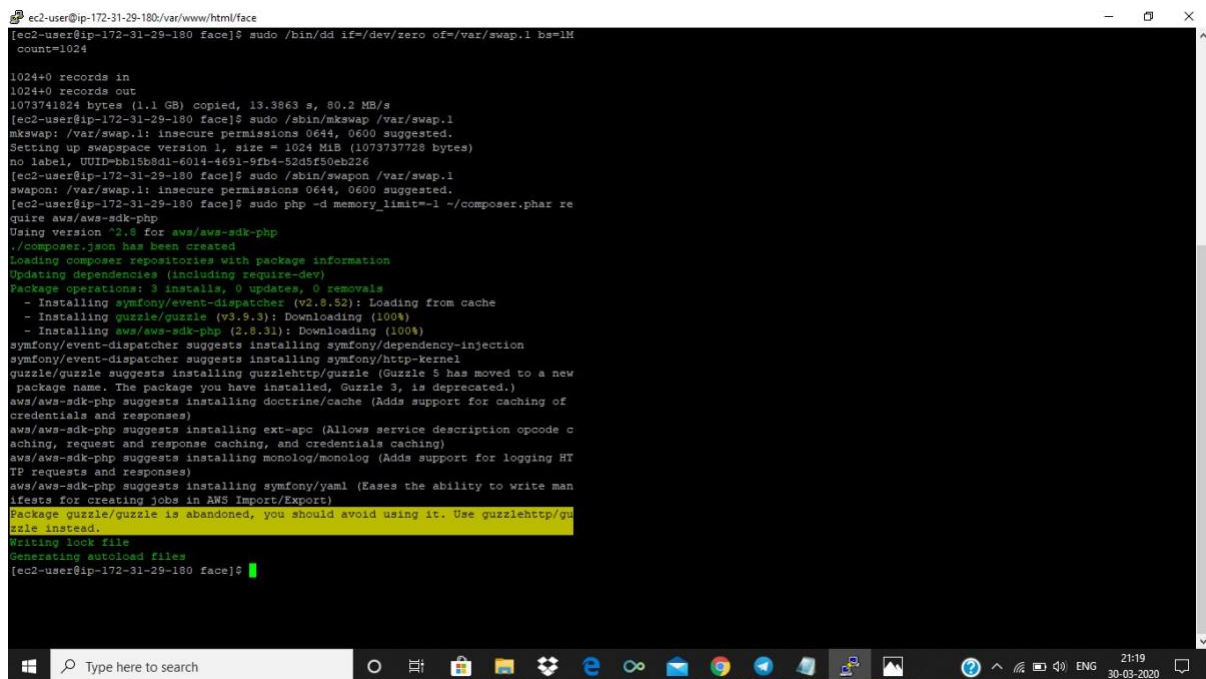
Celebrity Recognition:



Text in Image:



Installing aws-sdk:



```
ec2-user@ip-172-31-29-180:/var/www/html/face
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-29-180 face]$ guzzlehttp/guzzle
-bash: guzzlehttp/guzzle: No such file or directory
[ec2-user@ip-172-31-29-180 face]$ guzzlehtt
-bash: guzzlehtt: command not found
[ec2-user@ip-172-31-29-180 face]$ guzzlehttp
-bash: guzzlehttp: command not found
[ec2-user@ip-172-31-29-180 face]$ guzzle
-bash: guzzle: command not found
[ec2-user@ip-172-31-29-180 face]$ clic
-bash: clic: command not found
[ec2-user@ip-172-31-29-180 face]$ clear
[ec2-user@ip-172-31-29-180 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-03-30 15:52:30-- https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 23.210.196.239, 2600:1408:20:a92::1931,
2600:1408:20:a96::1931, ...
Connecting to i.pinimg.com (i.pinimg.com)[23.210.196.239]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

100[=====] 215,551 --.-K/s in 0.04s

2020-03-30 15:52:30 (5.28 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [
215551/215551]

[ec2-user@ip-172-31-29-180 face]$
```

Installing php:

```
ec2-user@ip-172-31-29-180:~
Installing:
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
(2/4): php-5.4.16-46.amzn2.0.2.x86_64.rpm | 1.4 MB 00:00
(3/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm | 563 kB 00:00
(4/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm | 2.8 MB 00:00
-----
Total 20 MB/s | 4.7 MB 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-172-31-29-180 ~]$
```


Index.php File Code:

```

ec2-user@ip-172-31-29-180: /var/www/html/face
$ps = new S3Client([
    'region' => 'us-east-2',
    'version' => '2006-03-01',
    'signature' => 'v4'
]);

try {
    // Upload data
    $result = $s3->putObject([
        'Bucket' => $bucket,
        'Key' => $keyname,
        'SourceFile' => __DIR__ . "/$keyname",
        'ACL' => 'public-read-write'
    ]);

    // Report the URL to the console
    $imageUrl = $result['ObjectURL'];
    if($imageUrl) {
        echo "Image upload done... Here is the URL: " . $imageUrl;

        $rekognition = new RekognitionClient([
            'region' => 'us-east-2',
            'version' => 'latest',
        ]);

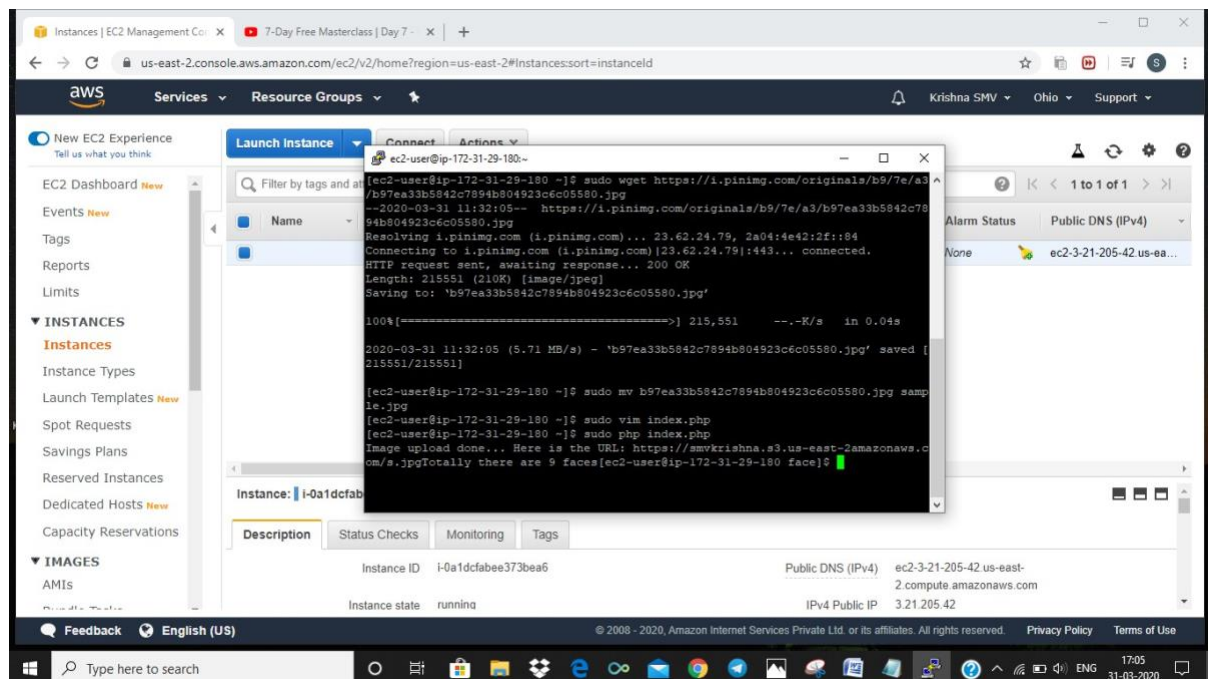
        $result = $rekognition->detectFaces([
            'Attributes' => ['DEFAULT'],
            'Image' => [
                'S3Object' => [
                    'Bucket' => $bucket,
                    'Name' => $keyname,
                    'Key' => $keyname,
                ],
            ],
        ]);

        echo "Totally there are " . count($result["FaceDetails"]) . " faces";
    }
} catch (Exception $e) {
    echo $e->getMessage() . PHP_EOL;
}

:~wq

```

Upload Success ScreenShot:



```
Putty (inactive)
[ec2-user@ip-172-31-29-180 ~]$ sudo wget https://i.pinimg.com/originals/b/9/7/e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-03-31 11:32:05-- https://i.pinimg.com/originals/b/9/7/e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 23.62.24.79, 2a04:4e42:2f:84
Connecting to i.pinimg.com (i.pinimg.com)[23.62.24.79]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

100%[=====>] 215,551 --K/s in 0.04s

2020-03-31 11:32:05 (5.71 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [215551/215551]

[ec2-user@ip-172-31-29-180 ~]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
[ec2-user@ip-172-31-29-180 ~]$ sudo vim index.php
[ec2-user@ip-172-31-29-180 ~]$ sudo php index.php
Image upload done... Here is the URL: https://smvkrishna.s3.us-east-2.amazonaws.com/s.jpgTotally there are 9 faces[ec2-user@ip-172-31-29-180 face]$
```

S3 Management Console

PHP Parse error: syntax error, un... X | New Tab

s3.console.aws.amazon.com/s3/buckets/smvkrishna-bucket/?region=us-east-2

aws Services Resource Groups

Krishna SMV Global Support

Overview Properties Permissions Management Access points

Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

US East (Ohio)

Viewing 1 to 2

Name	Last modified	Size	Storage class
index.html	Mar 30, 2020 3:42:01 PM GMT+0530	52.0 B	Standard
sample.jpg	Mar 31, 2020 3:31:16 PM GMT+0530	10.8 KB	Standard

Viewing 1 to 2

Feedback English (US)

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