BUILDING A FACE DETECTION APP ON AWS

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OBJECTIVE:

The main objective of building this face detection application is to detect the image and describe about the image using the AWS.

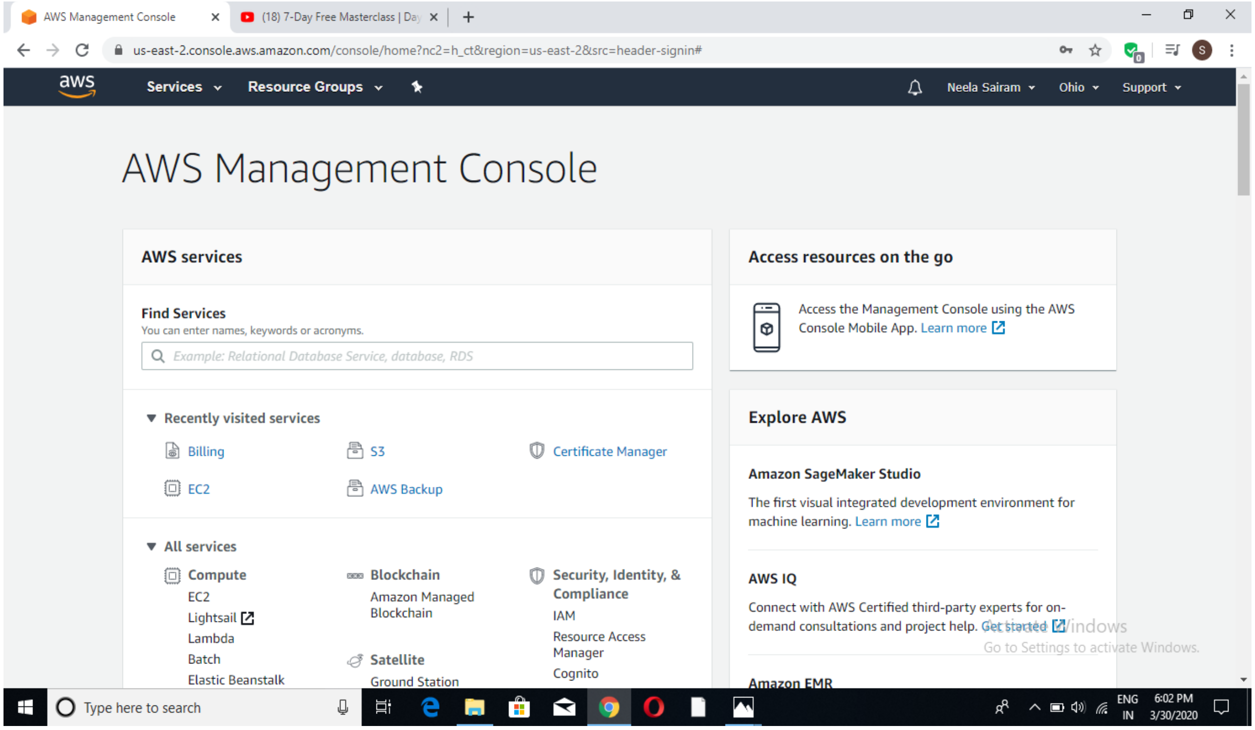
DESCRIPTION:

To detect the image, we use four components I.e., Telegram Bot, EC2, S3 and Amazon Rekognition. When the image is uploaded to the telegram, that image will be taken by the EC2 and will try to store that image into a bucket which is created. EC2 will also send that respective image to the Amazon Rekognition to detect the image, and the description of that image will be sent back as a response to the EC2 and ultimately to the Telegram Bot.

SCREENSHOTS:

AWS:

1. **AWS Login screen with Username:**



us-east-2.console.aws.amazon.com/console/home?nc2=h_ct&region=us-east-2&src=header-signin#

AWS Management Console

AWS services

Find Services

You can enter names, keywords or acronyms.

Example: Relational Database Service, database, RDS

Recently visited services

Billing S3 Certificate Manager EC2 AWS Backup

All services

Access resources on the go

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

Explore AWS

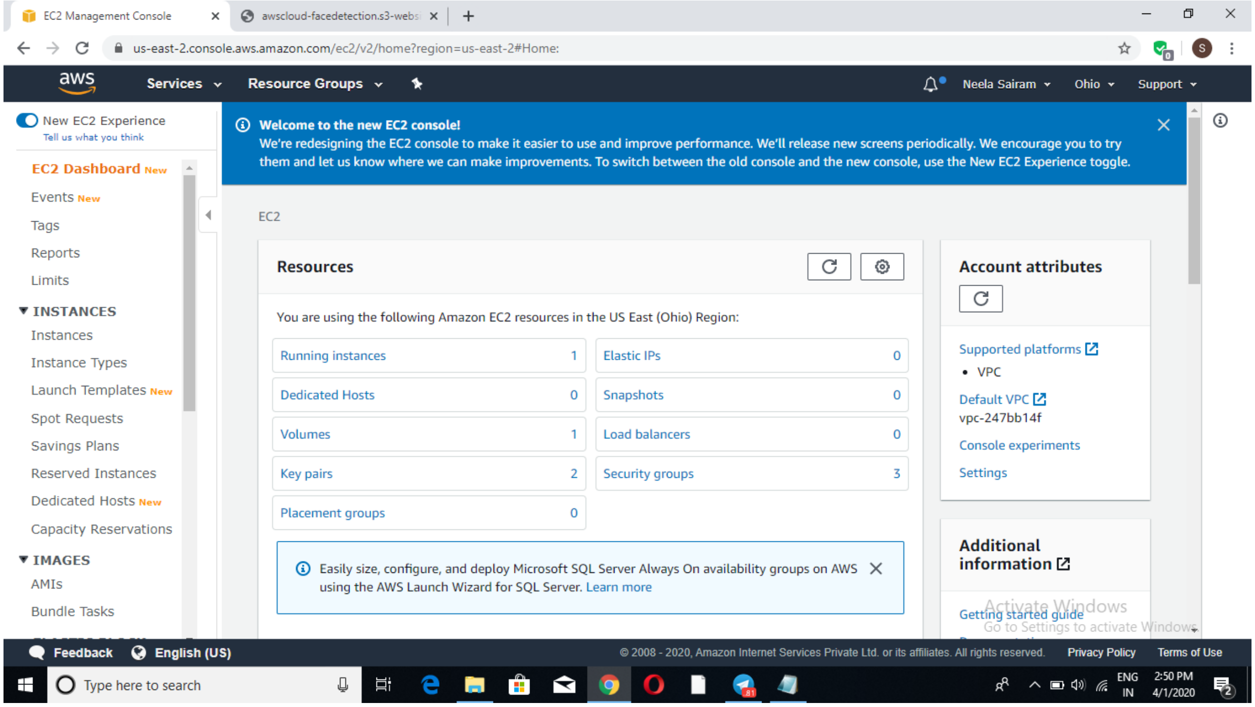
Amazon SageMaker Studio

The first visual integrated development environment for machine learning. Learn more

AWS IQ

Connect with AWS Certified third-party experts for on-demand consultations and project help. Get started

2. EC2 Dashboard:



Welcome to the new EC2 console!

We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know when we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.

Resources

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

Running instances	1	Elastic IPs	0
Dedicated Hosts	0	Snapshots	0
Volumes	1	Load balancers	0
Key pairs	2	Security groups	3
Placement groups	0		

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more

Account attributes

Supported platforms
- VPC

Default VPC
vpc-247bb14f

Console experiments

Settings

Additional information

Getting started guide

Activate Windows
Go to Settings to activate Windows.

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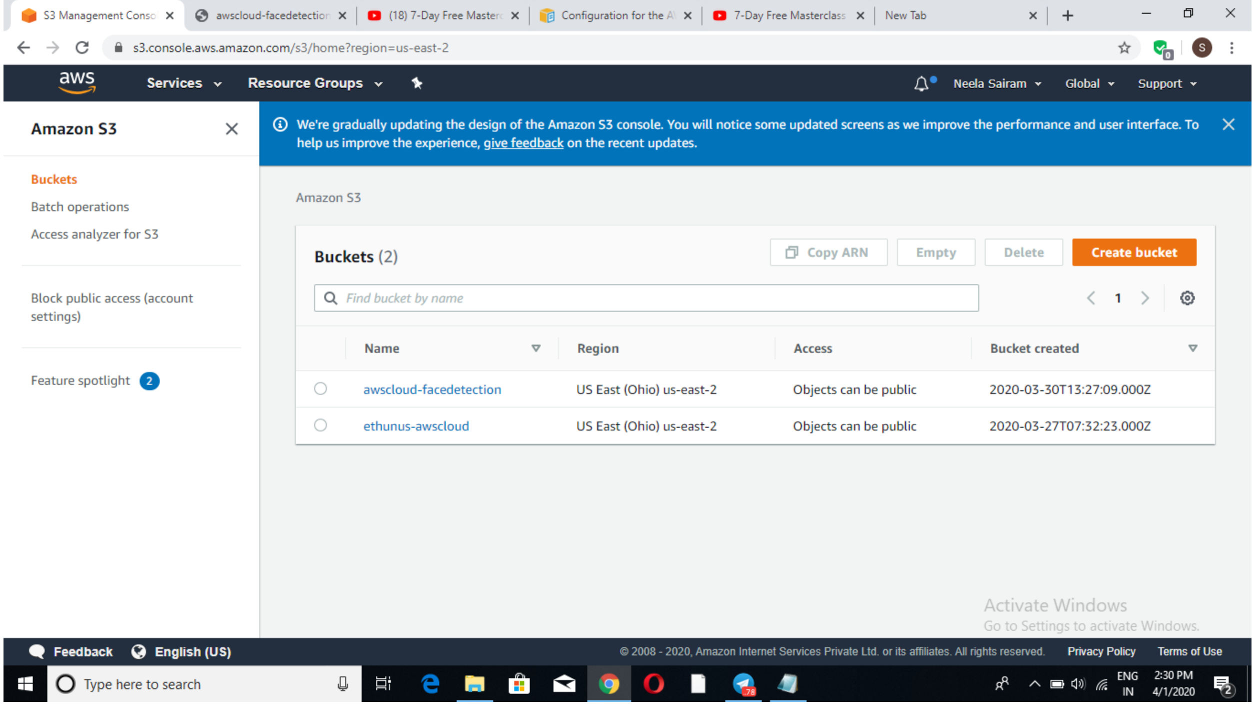
3. S3 Dashboard:



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 (2)

	Name	Region	Access	Bucket created
○	awscloud-facedetection	US East (Ohio) us-east-2	Objects can be public	2020-03-30T13:27:09.000Z
○	ethunus-awscloud	US East (Ohio) us-east-2	Objects can be public	2020-03-27T07:32:23.000Z

Activate Windows
Go to Settings to activate Windows.

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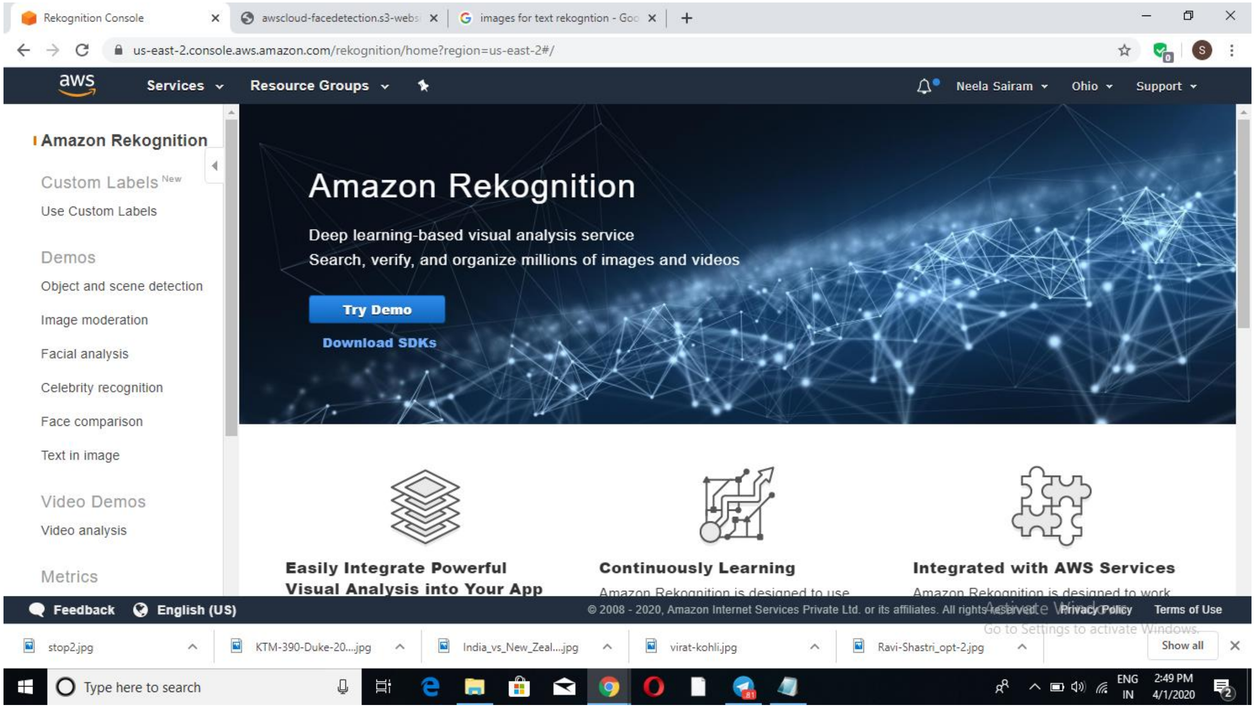
4. Rekognition Dashboard:



Amazon Rekognition

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

Easily Integrate Powerful Visual Analysis into Your App

Continuously Learning

Amazon Rekognition is designed to use

Integrated with AWS Services

Amazon Rekognition is designed to work

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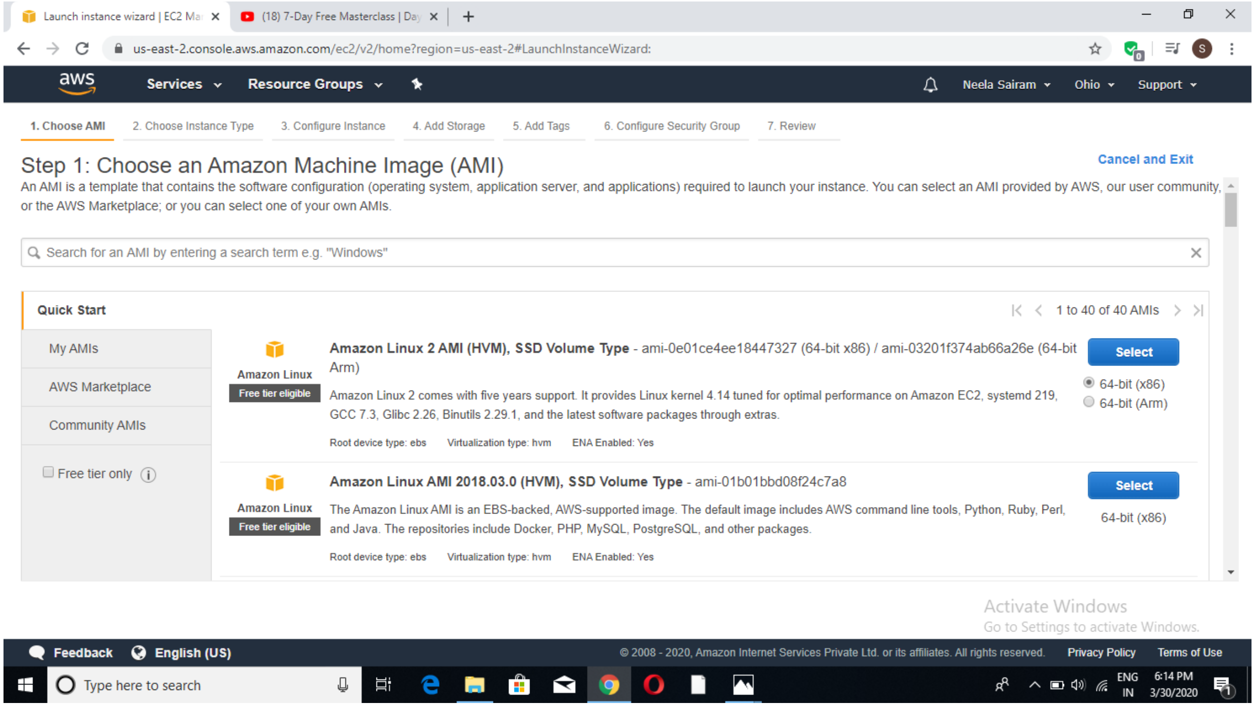
EC2:

5. 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.

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)

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)

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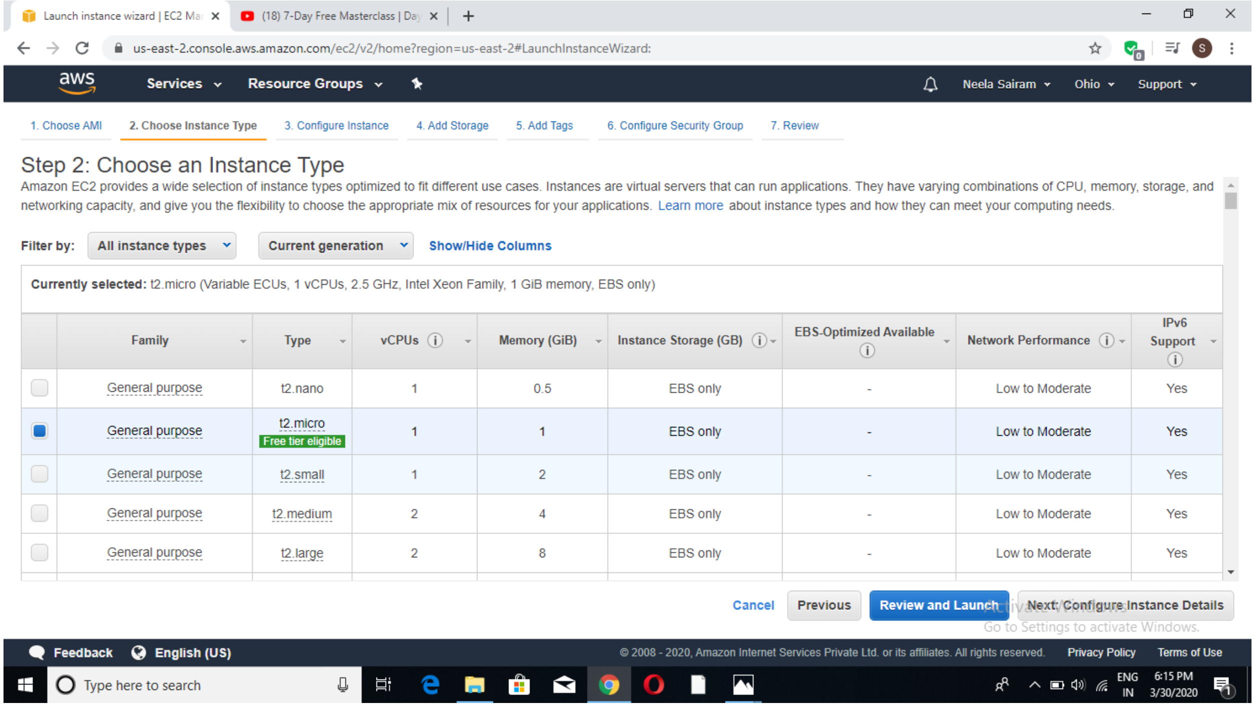
6. Choosing an Instance Type:


Launch instance wizard | EC2 Ma
(18) 7-Day Free Masterclass | Day
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
aws
Services
Resource Groups
Neela Sairam
Ohio
Support
1. Choose AMI
2. Choose Instance Type
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
□	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
■	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
□	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
□	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
□	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel
Previous
Review and Launch
Next: Configure Instance Details
Activate Windows
Go to Settings to activate Windows.
Feedback
English (US)
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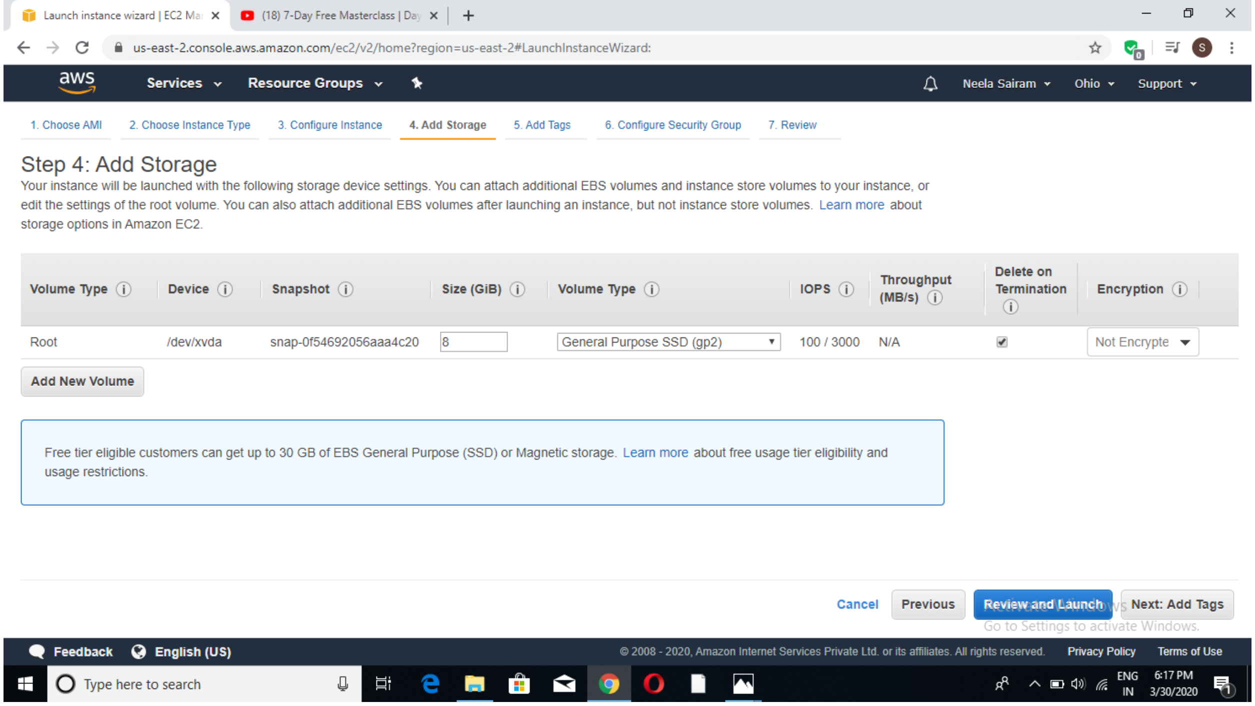
Privacy Policy
Terms of Use
Type here to search
ENG
IN
6:15 PM
3/30/2020

7. Adding Storage:


Launch instance wizard | EC2 Ma
(18) 7-Day Free Masterclass | Day
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
aws
Services
Resource Groups
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Ohio
Support
1. Choose AMI
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7. Review

Step 4: Add Storage

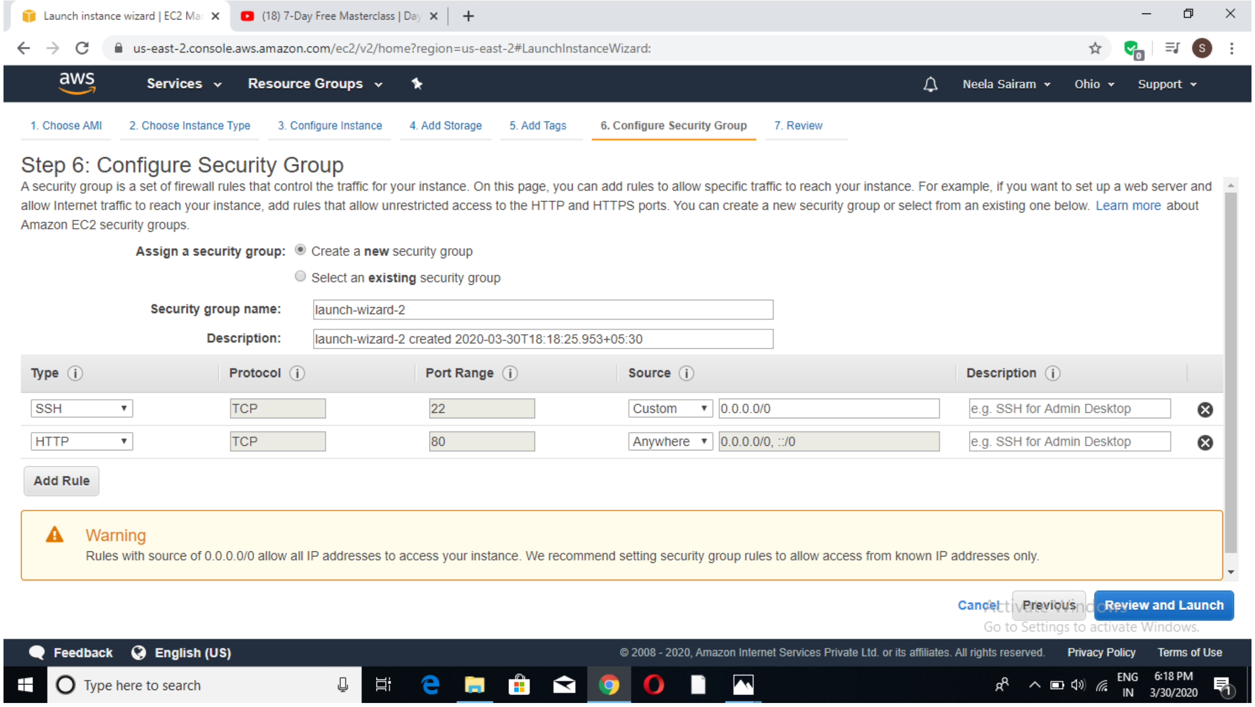
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. 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.

8. Configuring Security Group:



Launch instance wizard | EC2 Ma
(18) 7-Day Free Masterclass | Day
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
aws
Services
Resource Groups
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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

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-2

Description: launch-wizard-2 created 2020-03-30T18:18:25.953+05:30

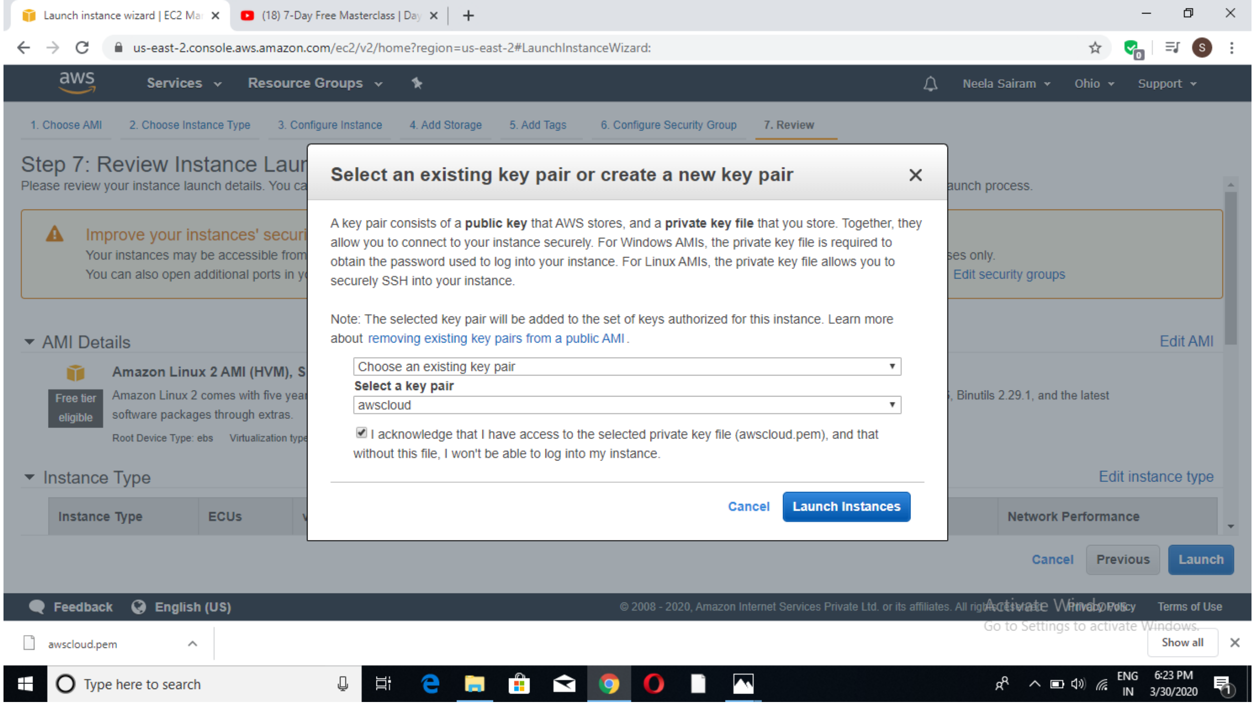
Type	Protocol	Port Range	Source		Description
SSH	TCP	22	Custom	0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Anywhere	0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

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.

9. Key Pair Download:



Launch instance wizard | EC2 Ma
(18) 7-Day Free Masterclass | Day
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
aws
Services
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Laun
Please review your instance launch details. You ca
aunch process.
Improve your instances' securi
Your instances may be accessible from
You can also open additional ports in y
es only.
Edit security groups
AMI Details
Edit AMI
Amazon Linux 2 AMI (HVM), S
Free tier eligible
Amazon Linux 2 comes with five year
software packages through extras.
, Binutils 2.29.1, and the latest
Root Device Type: ebs
Virtualization type
Instance Type
Edit instance type
Instance Type
ECUs
Network Performance

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.

Choose an existing key pair

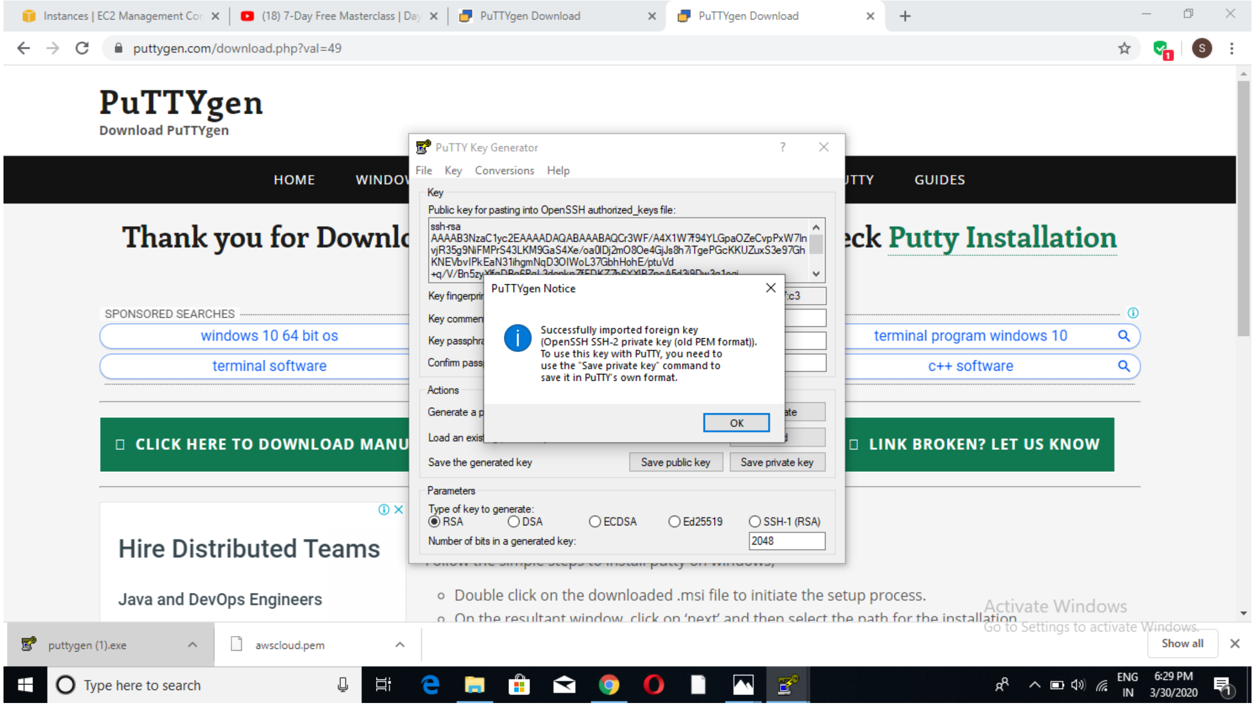
Select a key pair

awscloud

☑ I acknowledge that I have access to the selected private key file (awscloud.pem), and that without this file, I won't be able to log into my instance.

Cancel Launch Instances

10. PuTTYgen conversion from pem to ppk:



Key

Public key for pasting into OpenSSH authorized_keys file:

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQCr3WF/A4X1W7f94YLGpaOZeCvpPxW7In
vjR35g9NiFMPrS43LKM9GaS4Xe/oa0lDj2mO8Oe4GjJs8h7iTgePGcKKUZuxS3e97Gh
KNEVbvIPkEaN31ihgmNqD3OIWoL37GbhHohE/ptuVd
```

PuTTYgen Notice

Successfully imported foreign key (OpenSSH SSH-2 private key (old PEM format)). To use this key with PuTTY, you need to use the "Save private key" command to save it in PuTTY's own format.

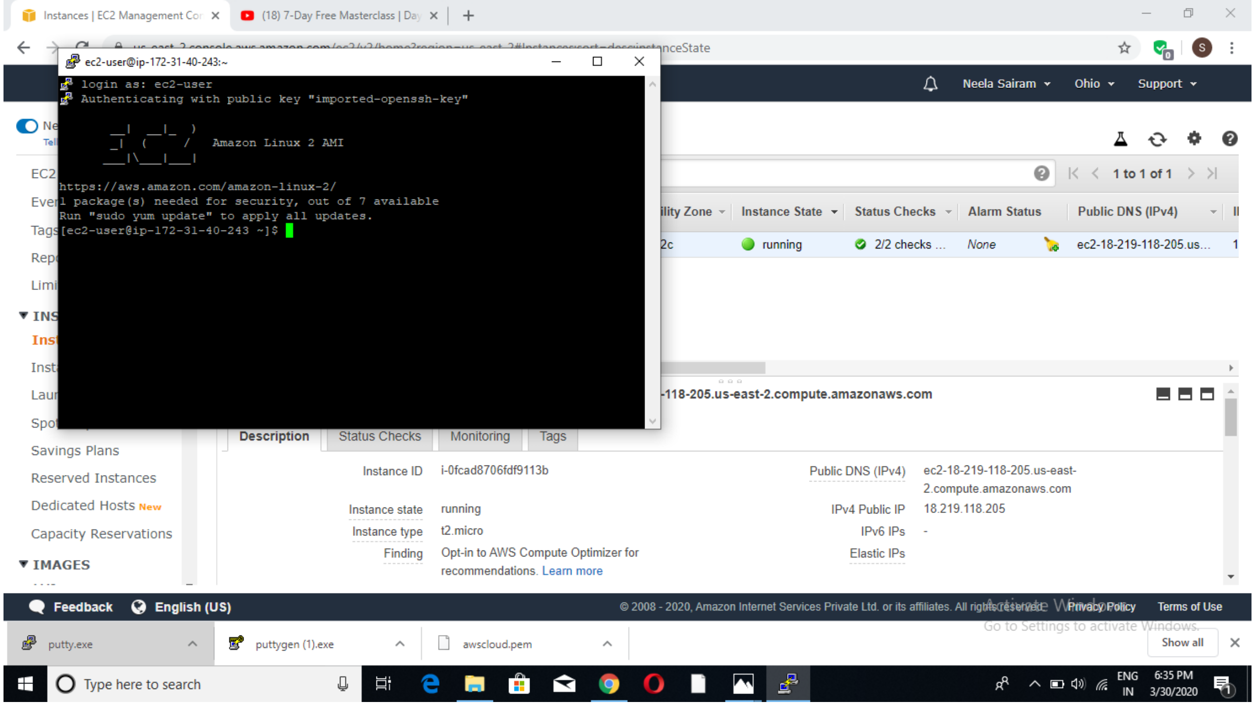
Save the generated key

Parameters

Type of key to generate:
● RSA ○ DSA ○ ECDSA ○ Ed25519 ○ SSH-1 (RSA)

Number of bits in a generated key: 2048

11. Logged in EC2 black screen:



```
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-172-31-40-243 ~]$
```

running 2/2 checks ... None ec2-18-219-118-205.us...

Instance ID i-0fcad8706fdf9113b

Instance state running

Instance type t2.micro

Finding Opt-in to AWS Compute Optimizer for recommendations. Learn more

Public DNS (IPv4) ec2-18-219-118-205.us-east-2.compute.amazonaws.com

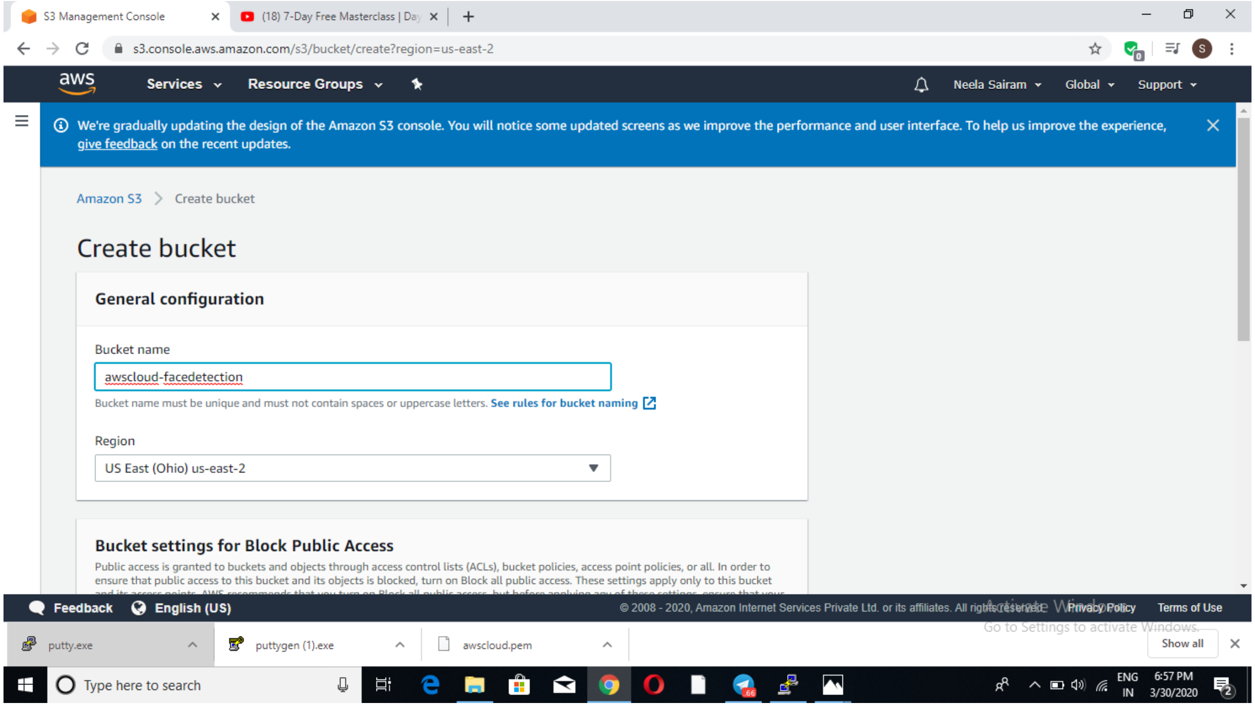
IPv4 Public IP 18.219.118.205

IPv6 IPs -

Elastic IPs

S3:

12. Creating a Bucket:


S3 Management Console
(18) 7-Day Free Masterclass | Day
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-2
aws
Services
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Support

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

awscloud-facedetection

Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming

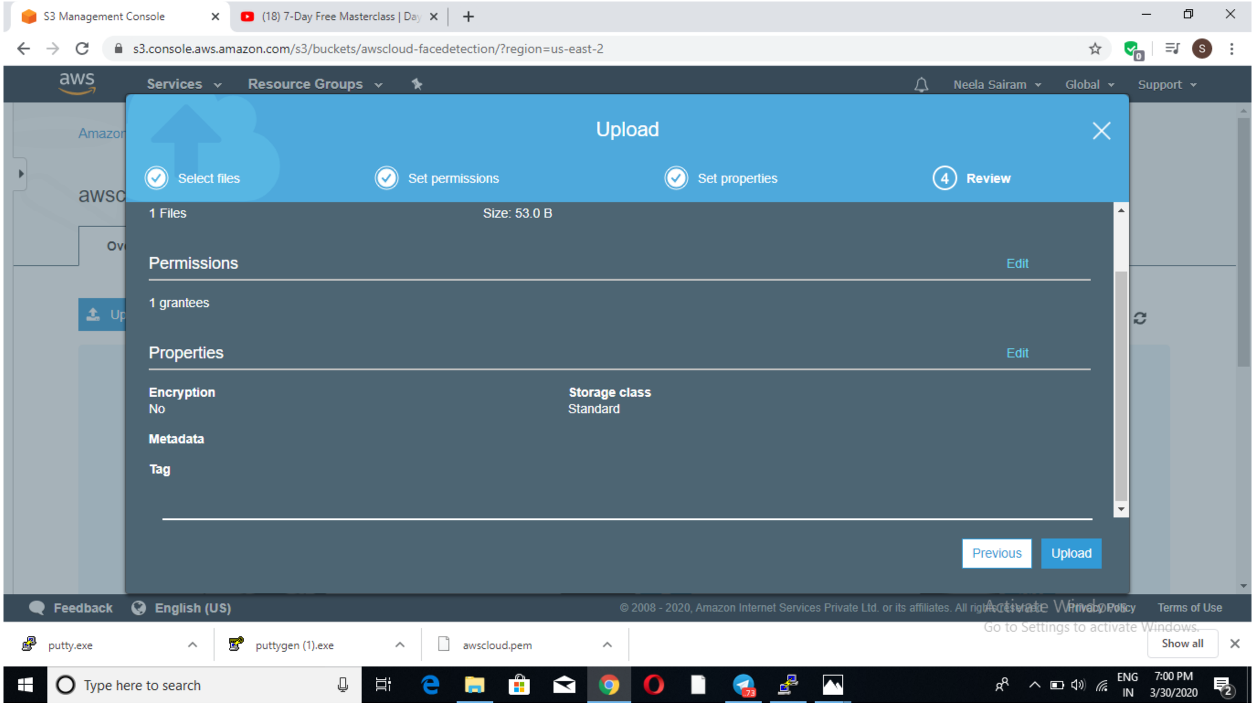
Region

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

13. Uploading an Object:



1 Files Size: 53.0 B

Permissions Edit

1 grantees

Properties Edit

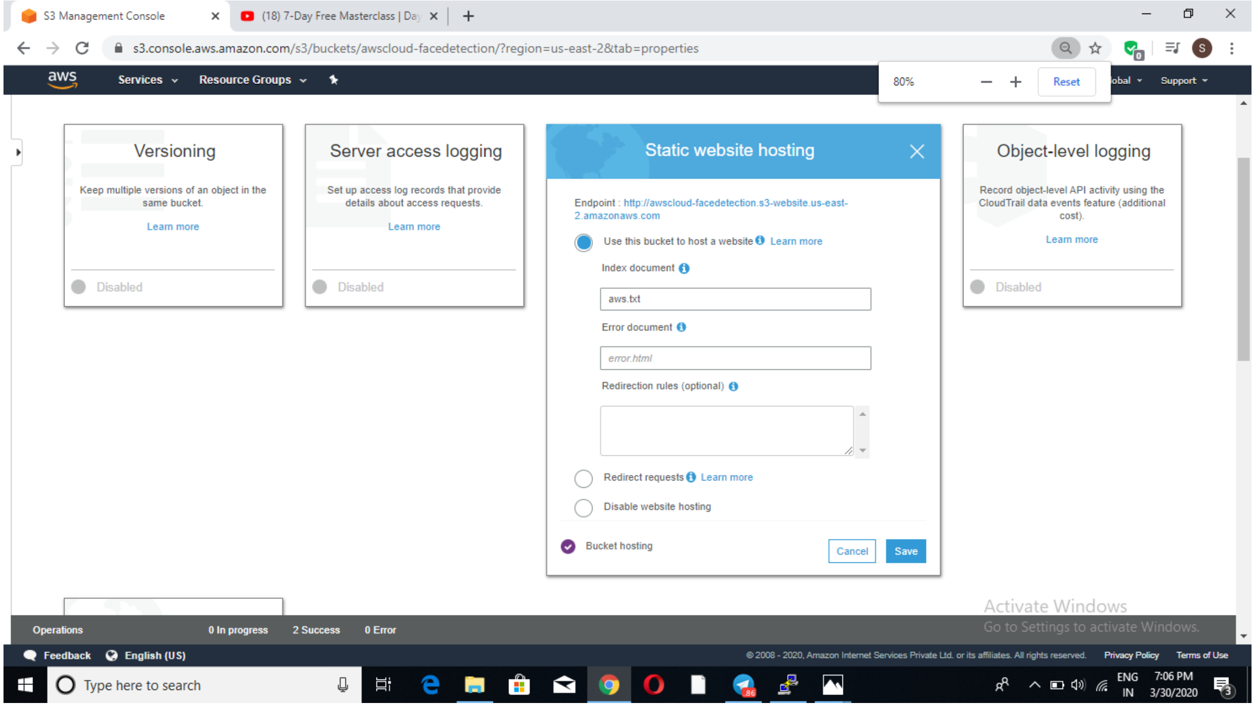
Encryption
No

Storage class
Standard

Metadata

Tag

14. Enabling Static Website:



s3.console.aws.amazon.com/s3/buckets/awscloud-facedetection/?region=us-east-2&tab=properties

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

Endpoint : http://awscloud-facedetection.s3-website.us-east-2.amazonaws.com

● Use this bucket to host a website Learn more

Index document: aws.txt

Error document: error.html

Redirection rules (optional)

○ Redirect requests Learn more

○ Disable website hosting

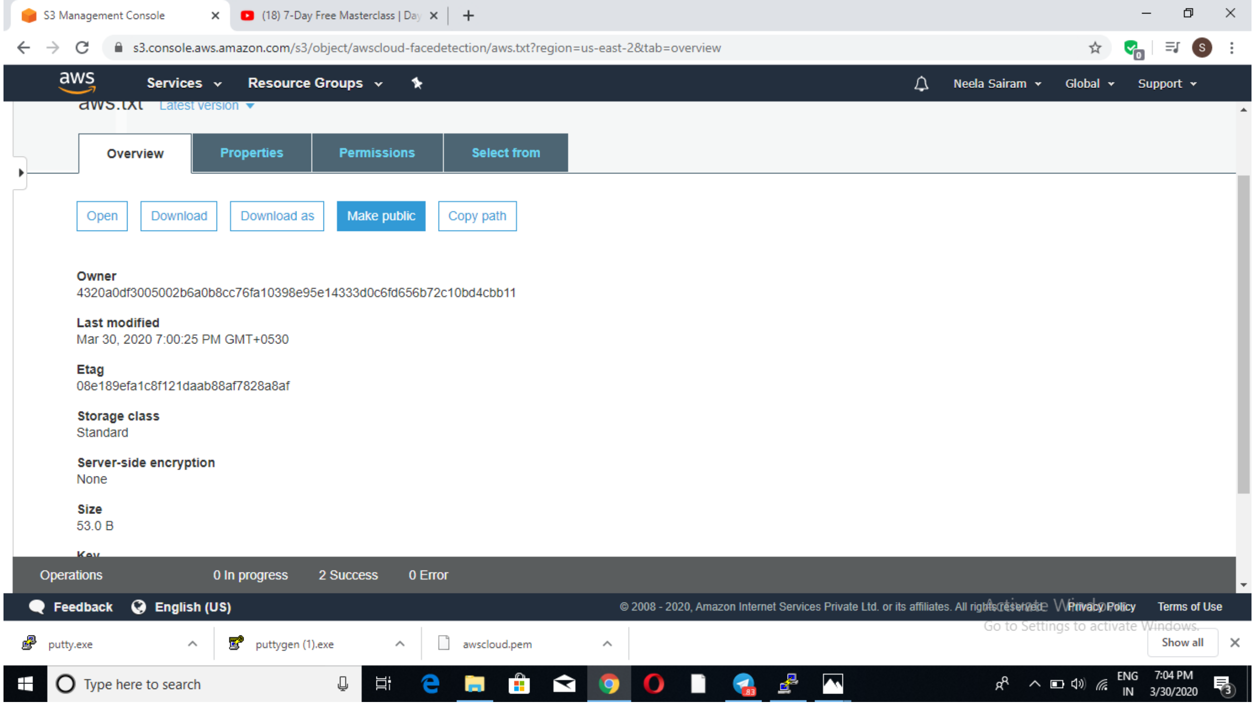
Bucket hosting

Cancel Save

Object-level logging
Record object-level API activity using the CloudTrail data events feature (additional cost).
Learn more
Disabled

Operations 0 In progress 2 Success 0 Error

15. Making the Object Public:



s3.console.aws.amazon.com/s3/object/awscloud-facedetection/aws.txt?region=us-east-2&tab=overview

aws.txt Latest version

Overview | Properties | Permissions | Select from

Open | Download | Download as | Make public | Copy path

Owner
4320a0df3005002b6a0b8cc76fa10398e95e14333d0c6fd656b72c10bd4cbb11

Last modified
Mar 30, 2020 7:00:25 PM GMT+0530

Etag
08e189efa1c8f121daab88af7828a8af

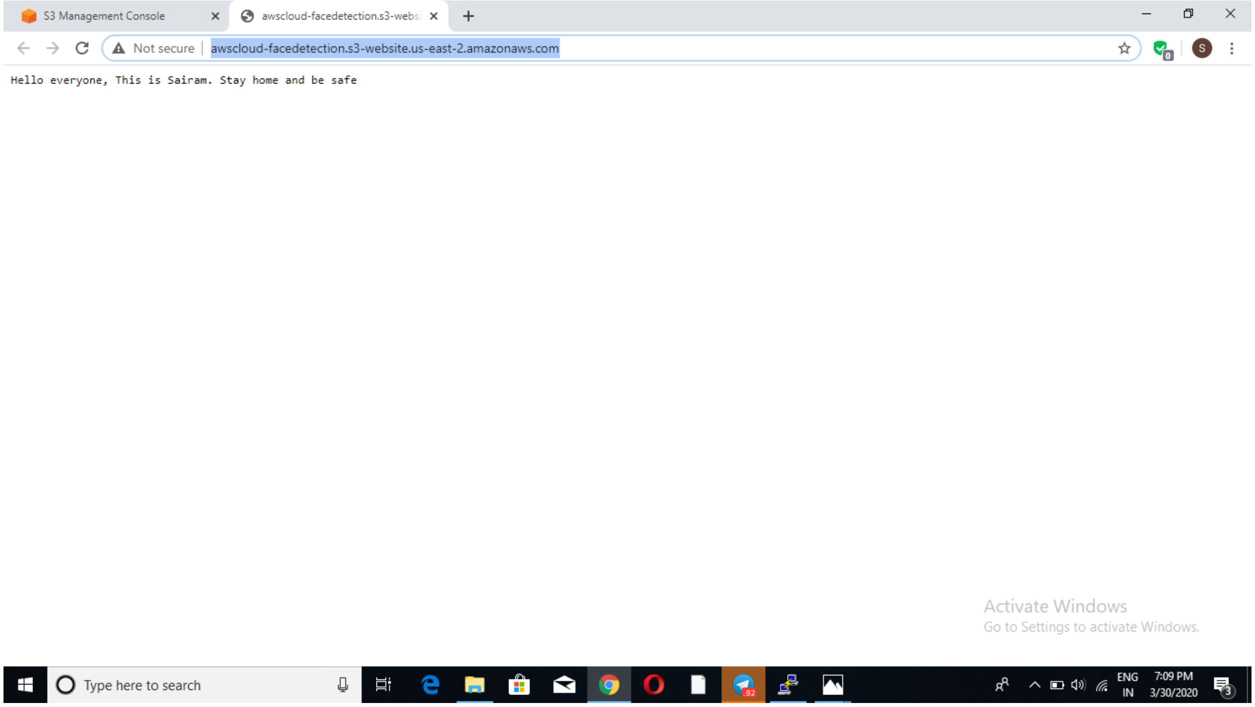
Storage class
Standard

Server-side encryption
None

Size
53.0 B

Operations 0 In progress 2 Success 0 Error

16. Checking the S3 link on the browser:

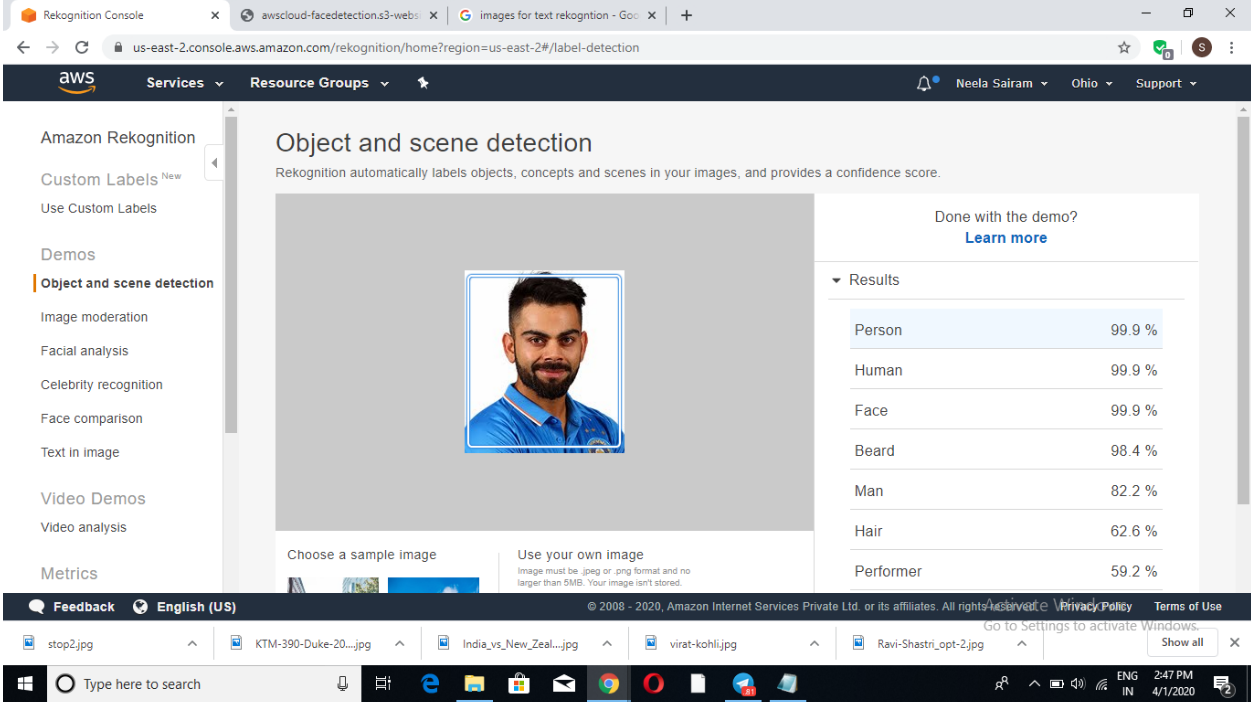


awscloud-facedetection.s3-website.us-east-2.amazonaws.com

```
Hello everyone, This is Sairam. Stay home and be safe
```

Rekognition:

17. Face Detect:



us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/label-detection

Object and scene detection

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

Done with the demo?
Learn more

Results

Person	99.9 %
Human	99.9 %
Face	99.9 %
Beard	98.4 %
Man	82.2 %
Hair	62.6 %
Performer	59.2 %

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.

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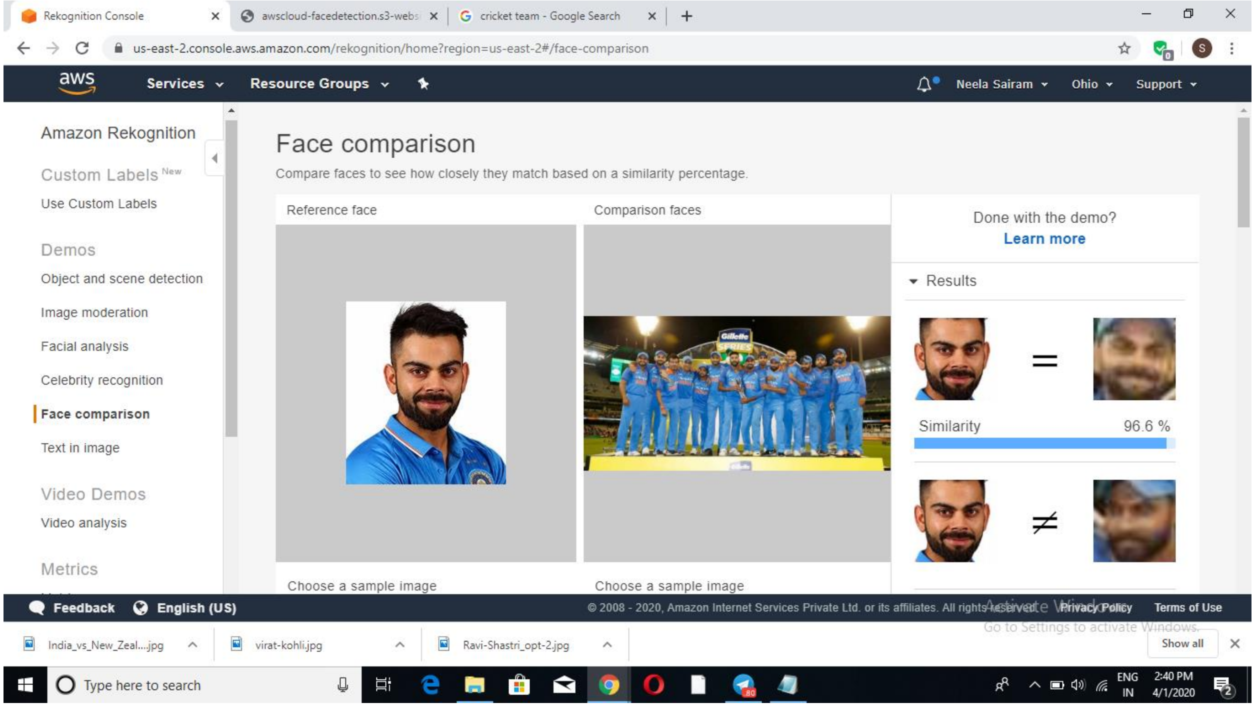
18. Face Compare:



us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/face-comparison

Face comparison

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

Reference face

Comparison faces

Done with the demo?
Learn more

Results

Similarity 96.6 %

Choose a sample image

Choose a sample image

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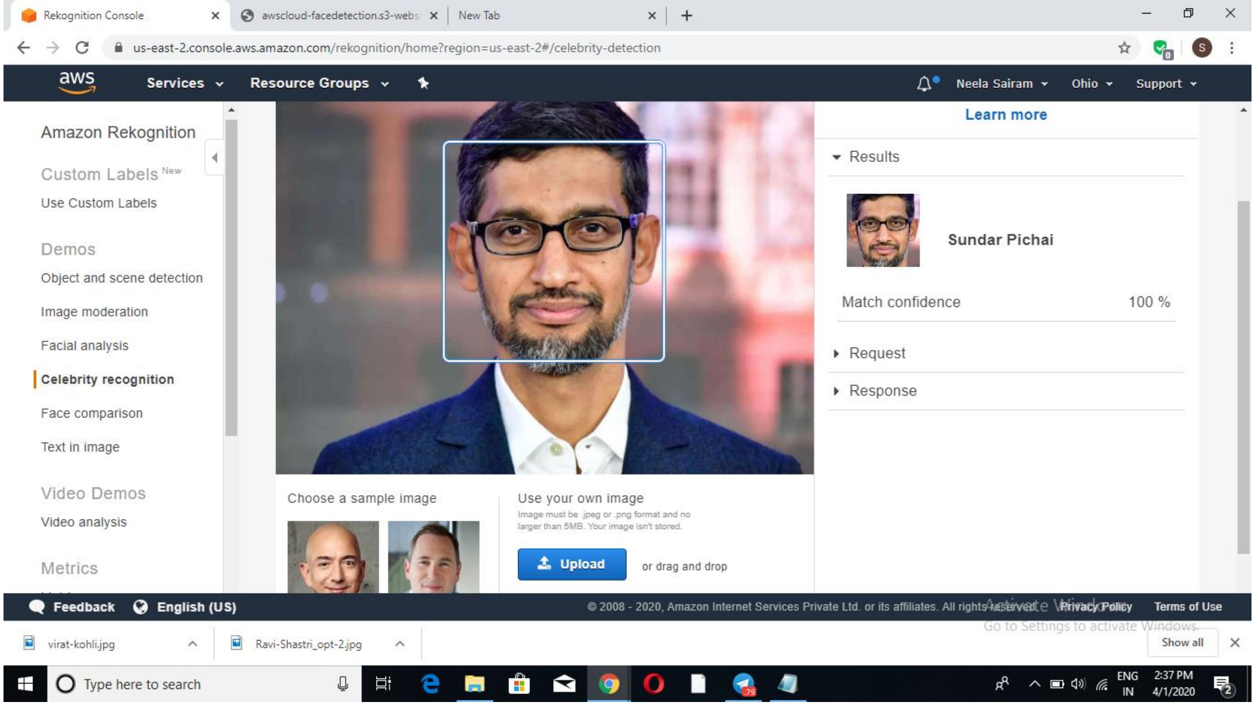
19. Celebrity Recognition:



us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/celebrity-detection

Learn more

Results

Sundar Pichai

Match confidence 100 %

Request

Response

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.

Upload or drag and drop

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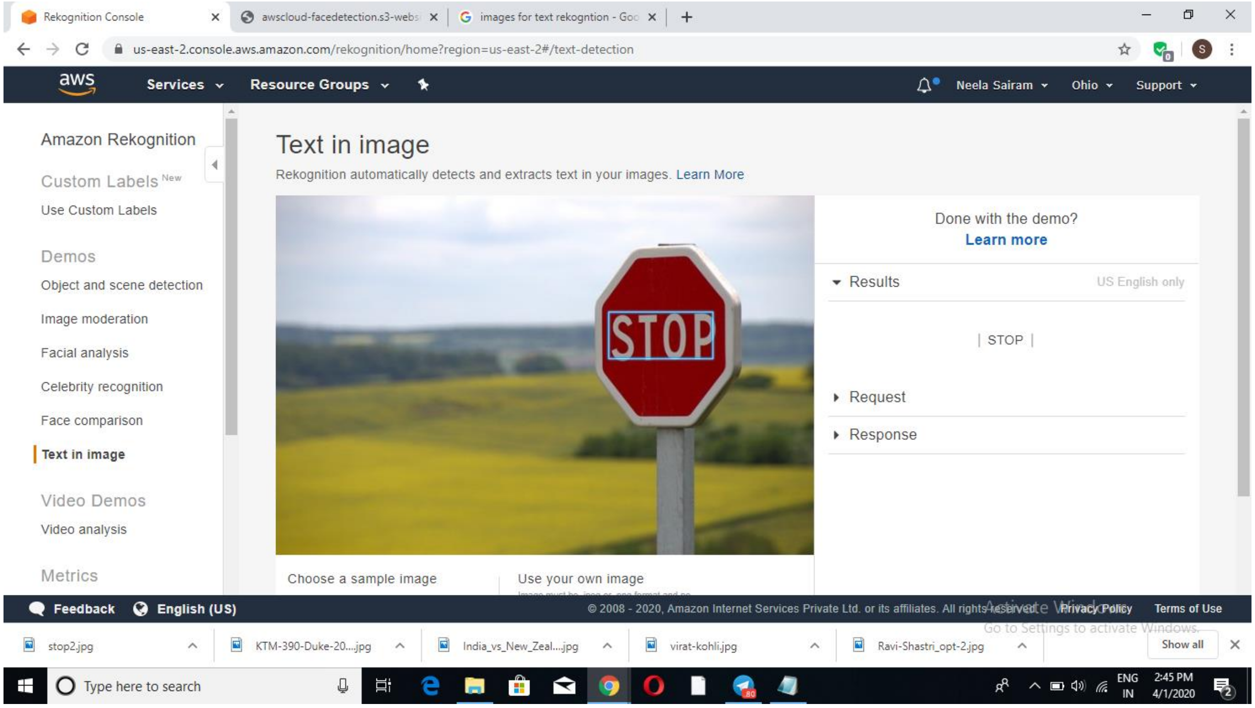
20. Text in Image:



Text in image

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

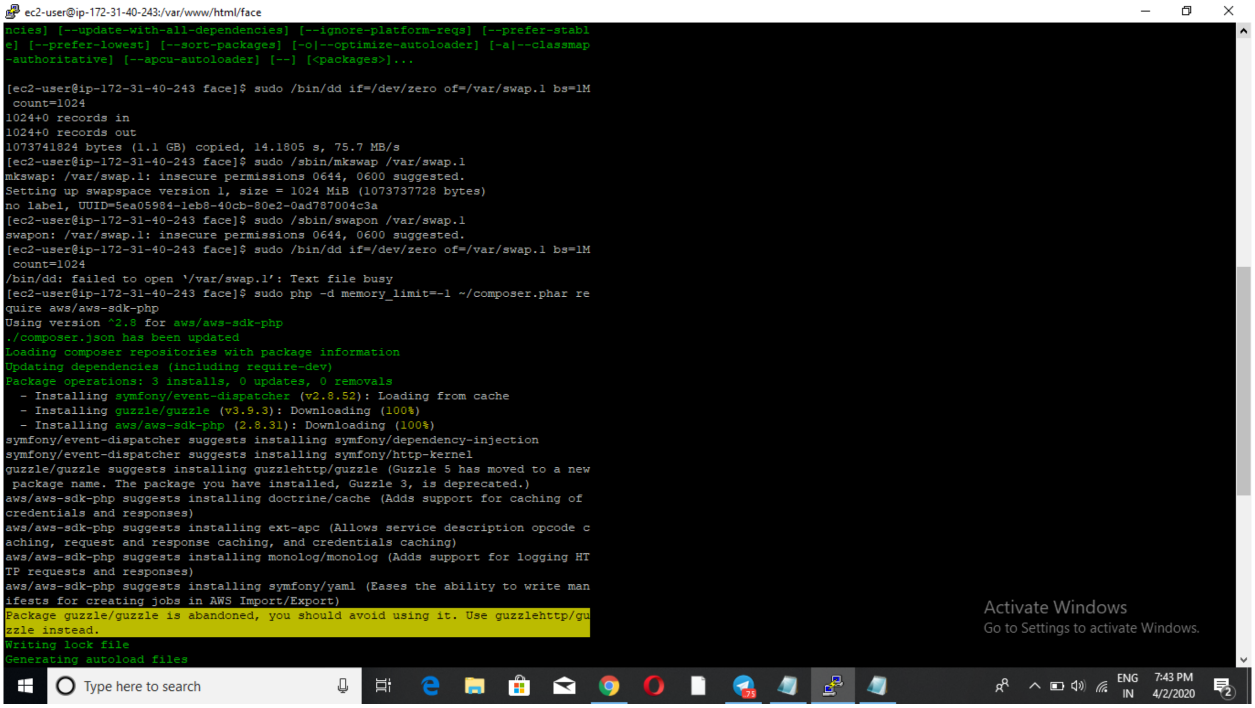
Done with the demo?
Learn more

Results — US English only

| STOP |

EC2 & S3:

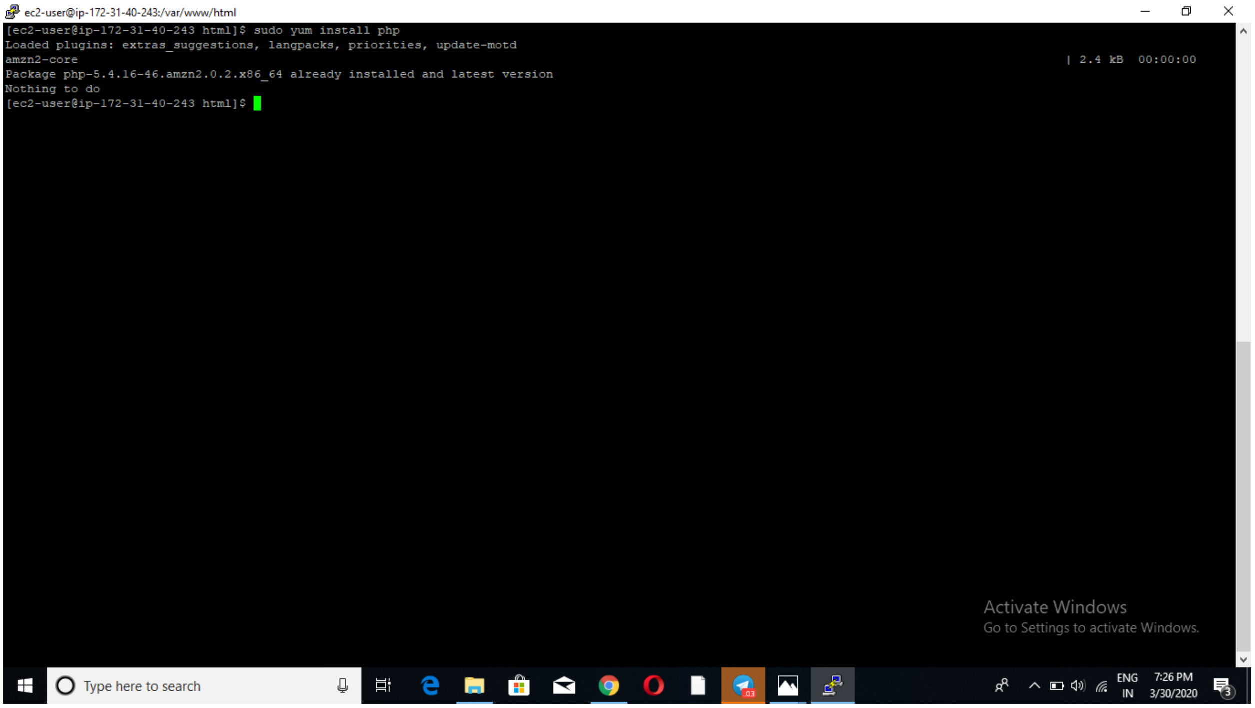
21. Installing aws-sdk:



ec2-user@ip-172-31-40-243:/var/www/html/face

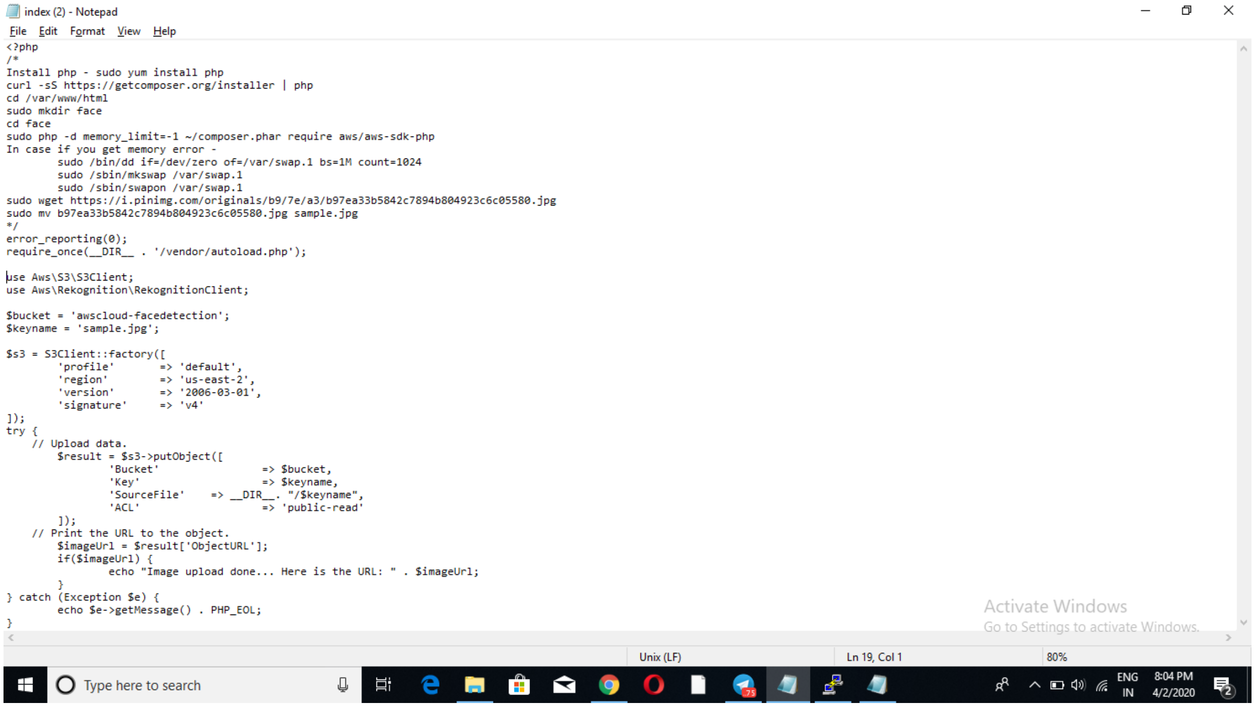
```
ncies] [--update-with-all-dependencies] [--ignore-platform-reqs] [--prefer-stabl
e] [--prefer-lowest] [--sort-packages] [-o|--optimize-autoloader] [-a|--classmap
-authoritative] [--apcu-autoloader] [--] [<packages>]...

[ec2-user@ip-172-31-40-243 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, 14.1805 s, 75.7 MB/s
[ec2-user@ip-172-31-40-243 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=5ea05984-1eb8-40cb-80e2-0ad787004c3a
[ec2-user@ip-172-31-40-243 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-40-243 face]$ sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M
 count=1024
/bin/dd: failed to open '/var/swap.1': Text file busy
[ec2-user@ip-172-31-40-243 face]$ sudo php -d memory_limit=-1 ~/composer.phar re
quire 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)
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 c
aching, request and response caching, and credentials caching)
aws/aws-sdk-php suggests installing monolog/monolog (Adds support for logging HT
TP requests and responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write man
ifests for creating jobs in AWS Import/Export)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/gu
zzle instead.
Writing lock file
Generating autoload files
```

22. Installing php:


ec2-user@ip-172-31-40-243:/var/www/html
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
7:26 PM
3/30/2020

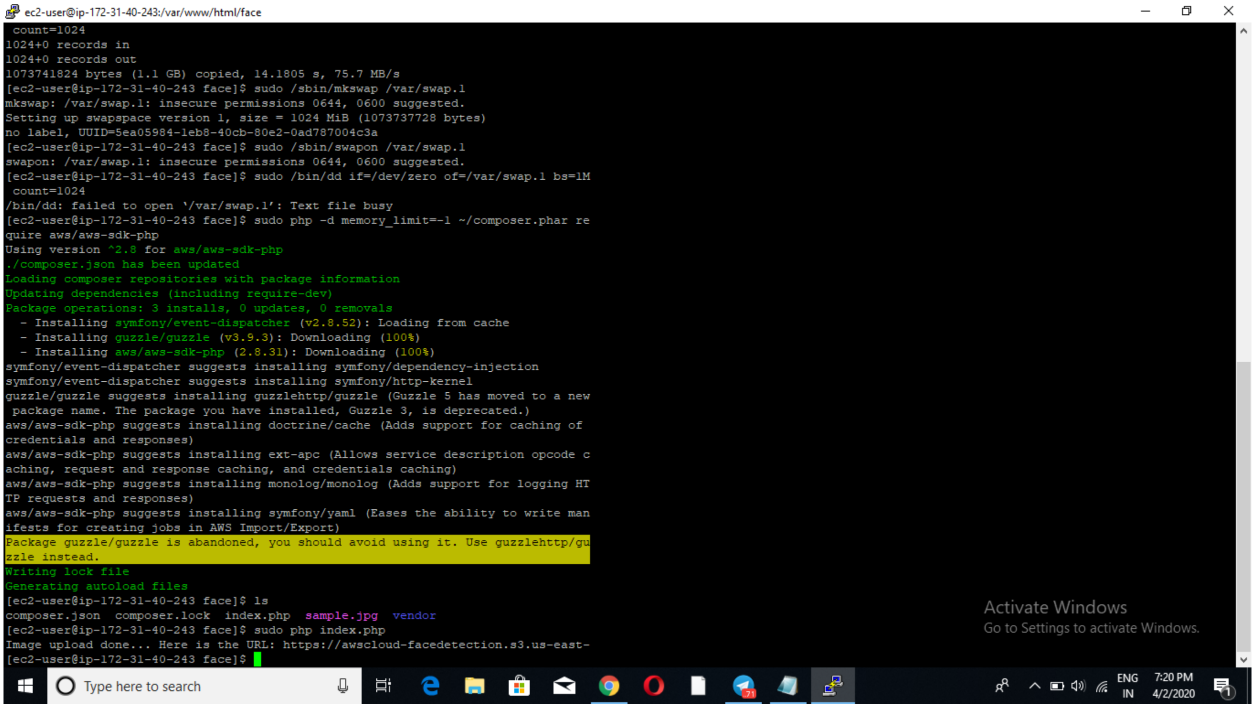
```
[ec2-user@ip-172-31-40-243 html]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                                                                    | 2.4 kB  00:00:00
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-40-243 html]$
```

23. Index.php file code:



```
<?php
/*
Install php - sudo yum install php
curl -sS https://getcomposer.org/installer | php
cd /var/www/html
sudo mkdir face
cd face
sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
In case if you get memory error -
        sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
        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 = 'awscloud-facedetection';
$keyname = 'sample.jpg';

$s3 = S3Client::factory([
        'profile'       => 'default',
        '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'
        ]);
    // Print the URL to the object.
        $imageUrl = $result['ObjectURL'];
        if($imageUrl) {
                echo "Image upload done... Here is the URL: " . $imageUrl;
        }
} catch (Exception $e) {
        echo $e->getMessage() . PHP_EOL;
}
```

24. Upload success:

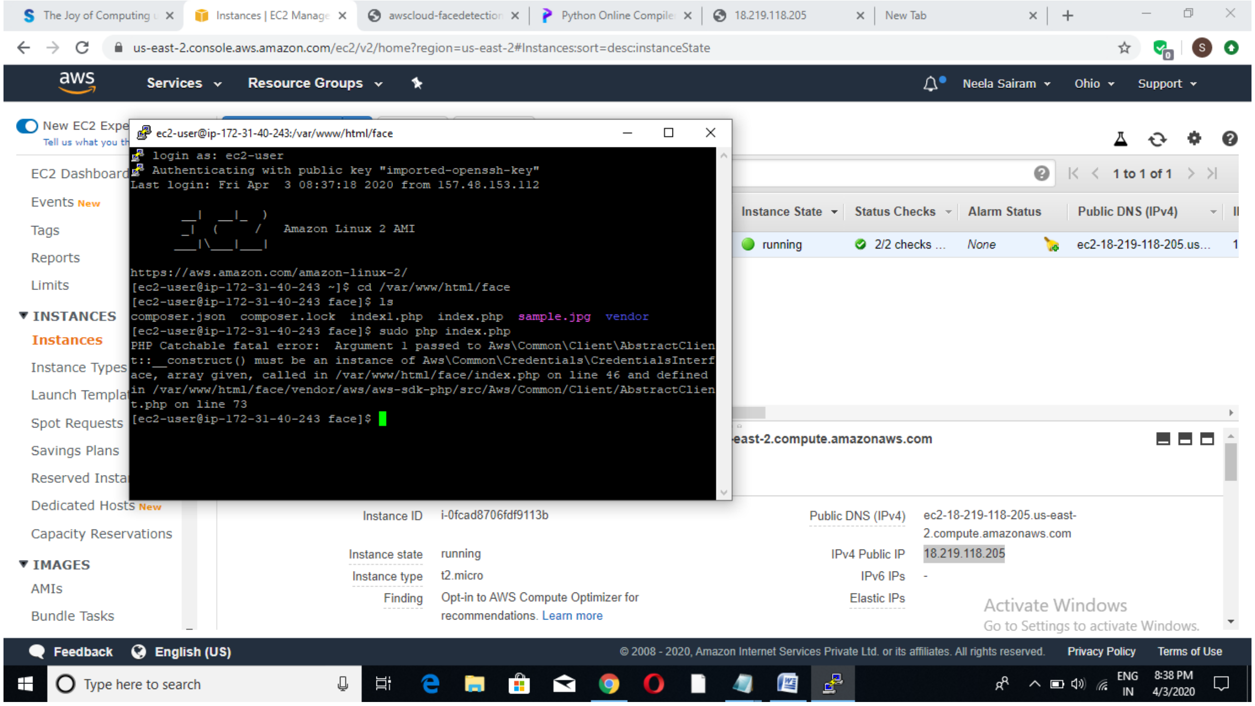


```
 count=1024
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GB) copied, 14.1805 s, 75.7 MB/s
[ec2-user@ip-172-31-40-243 face]$ sudo /sbin/mkswap /var/swap.1
mkswap: /var/swap.1: insecure permissions 0644, 0600 suggested.
Setting up swapspace version 1, size = 1024 MiB (1073737728 bytes)
no label, UUID=5ea05984-1eb8-40cb-80e2-0ad787004c3a
[ec2-user@ip-172-31-40-243 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-40-243 face]$ sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M
 count=1024
/bin/dd: failed to open '/var/swap.1': Text file busy
[ec2-user@ip-172-31-40-243 face]$ sudo php -d memory_limit=-1 ~/composer.phar re
quire 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)
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 c
aching, request and response caching, and credentials caching)
aws/aws-sdk-php suggests installing monolog/monolog (Adds support for logging HT
TP requests and responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write man
ifests for creating jobs in AWS Import/Export)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/gu
zzle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-40-243 face]$ ls
composer.json  composer.lock  index.php  sample.jpg  vendor
[ec2-user@ip-172-31-40-243 face]$ sudo php index.php
Image upload done... Here is the URL: https://awscloud-facedetection.s3.us-east-
[ec2-user@ip-172-31-40-243 face]$
```

ec2-user@ip-172-31-40-243:/var/www/html/face
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
7:20 PM
4/2/2020

EC2 & Rekognition:

25. Face Detect success:



```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Fri Apr  3 08:37:18 2020 from 157.48.153.112

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-40-243 ~]$ cd /var/www/html/face
[ec2-user@ip-172-31-40-243 face]$ ls
composer.json  composer.lock  index1.php  index.php  sample.jpg  vendor
[ec2-user@ip-172-31-40-243 face]$ sudo php index.php
PHP Catchable fatal error:  Argument 1 passed to Aws\Common\Client\AbstractClien
t::__construct() must be an instance of Aws\Common\Credentials\CredentialsInterf
ace, array given, called in /var/www/html/face/index.php on line 46 and defined
in /var/www/html/face/vendor/aws/aws-sdk-php/src/Aws/Common/Client/AbstractClien
t.php on line 73
[ec2-user@ip-172-31-40-243 face]$
```

Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
running	2/2 checks ...	None	ec2-18-219-118-205.us...

Instance ID i-0fcad8706fdf9113b

Instance state running

Instance type t2.micro

Finding Opt-in to AWS Compute Optimizer for recommendations. Learn more

Public DNS (IPv4) ec2-18-219-118-205.us-east-2.compute.amazonaws.com

IPv4 Public IP 18.219.118.205

IPv6 IPs -

Elastic IPs