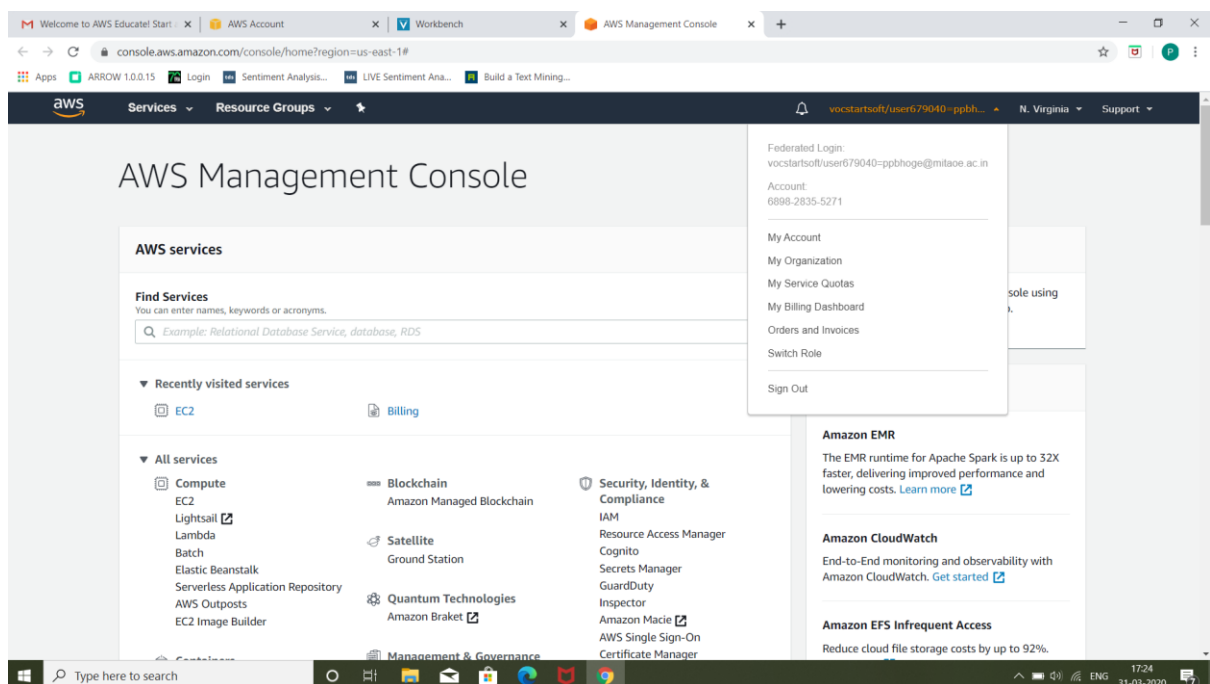
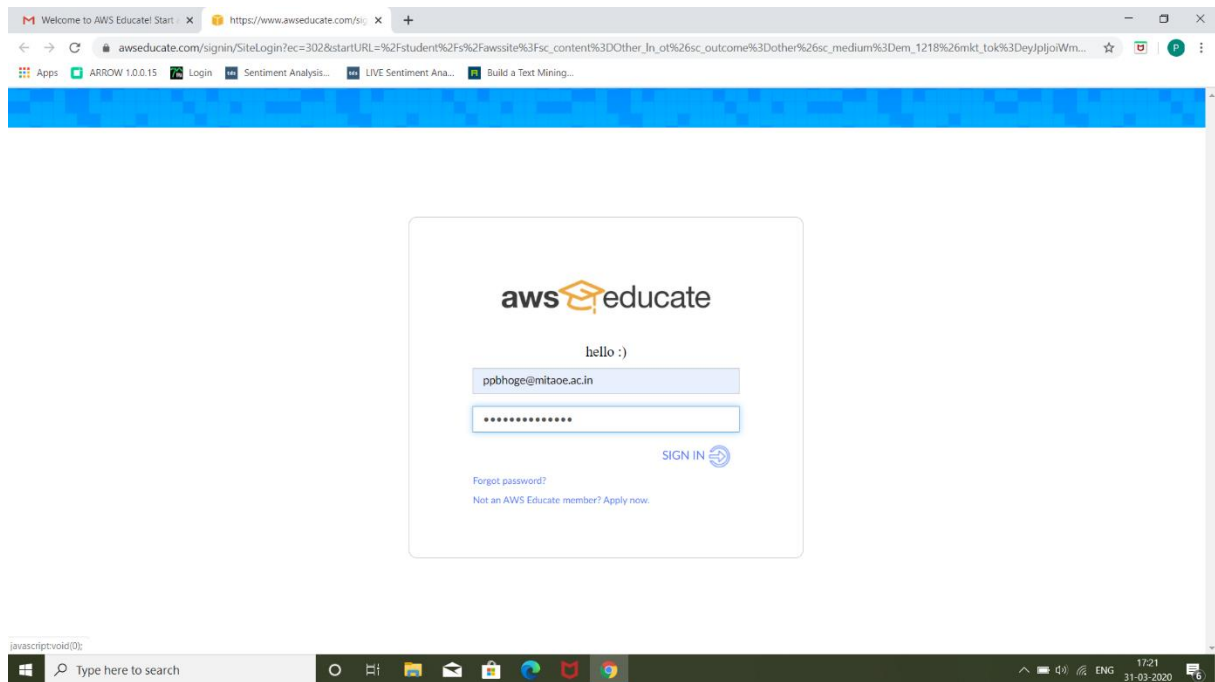


AWS Project

Used AWS Educate account

Screenshots for Dashboard:

1. AWS login



2. EC2

The screenshot displays the AWS Management Console for the EC2 service. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile. The left sidebar contains a navigation menu with options like 'New EC2 Experience', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES', 'Images', 'Elastic Block Store', and 'Snapshots'. The main content area is titled 'EC2' and features a 'Resources' section showing a summary of EC2 resources in the US East (N. Virginia) Region. A 'Launch instance' section provides instructions on how to get started. A 'Service health' section includes a 'Service Health Dashboard' link. On the right, there are 'Account attributes' and 'Explore AWS' sections with various links and recommendations.

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

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Service health

Region: Status: [Service Health Dashboard](#)

3. S3

The screenshot displays the AWS Management Console for the Amazon S3 service. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile. The left sidebar contains a navigation menu with options like 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area is titled 'Amazon S3' and features a 'Buckets (0)' section. A search bar is present, and a table shows the status of buckets. A message indicates that there are no buckets and provides a 'Create bucket' button.

Name	Region	Access	Bucket created
No buckets			

You don't have any buckets.

[Create bucket](#)

4. Rekognition

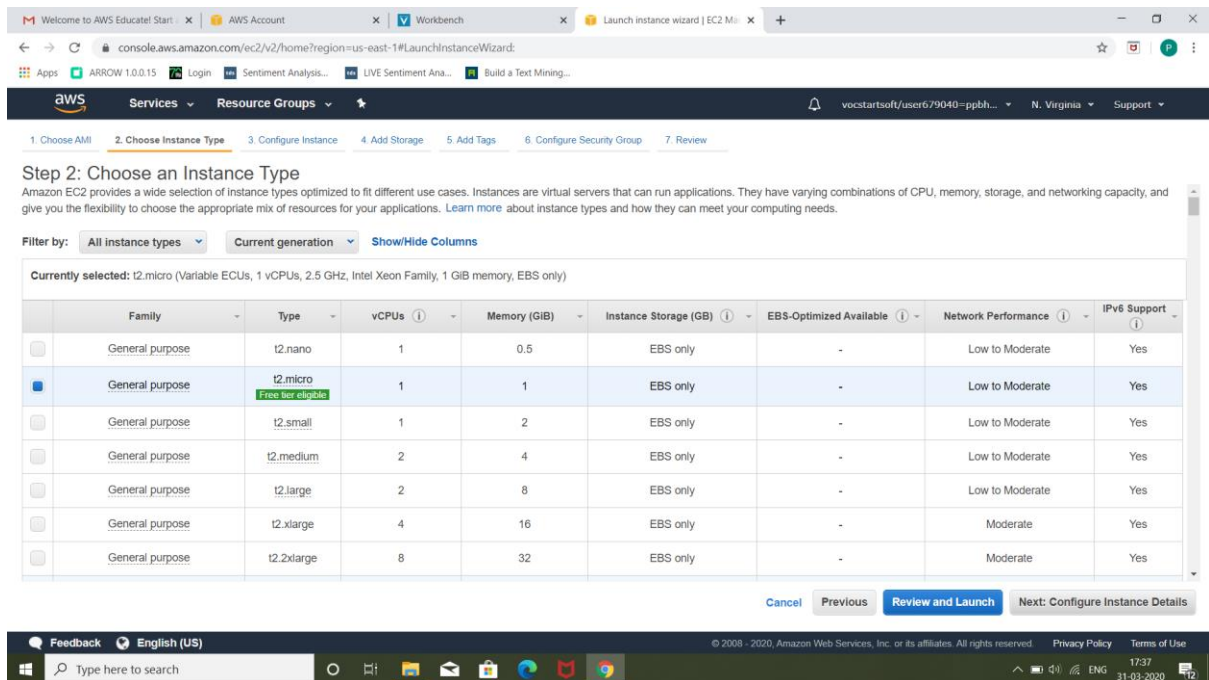
The screenshot shows the Amazon Rekognition console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile. The main header area features the 'Amazon Rekognition' logo and the tagline 'Deep learning-based visual analysis service'. Below this, there are three columns of content: 'Easily Integrate Powerful Visual Analysis into Your App', 'Continuously Learning', and 'Integrated with AWS Services'. The left sidebar contains a list of services and demos, including 'Custom Labels', 'Demos', 'Metrics', and 'Additional Resources'. The bottom of the page shows a Windows taskbar with various application icons and a system clock.

Screenshots for EC2:

1. Choosing AMI

The screenshot displays the 'Step 1: Choose an Amazon Machine Image (AMI)' page in the AWS Management Console. The page is divided into a left sidebar with 'Quick Start' and 'My AMIs' sections, and a main content area. The main content area lists three AMIs: 'Amazon Linux 2 AMI (HVM), SSD Volume Type', 'Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type', and 'Red Hat Enterprise Linux 8 (HVM), SSD Volume Type'. Each AMI entry includes a description, the root device type, virtualization type, and ENA status. The 'Select' button is visible for each AMI. The bottom of the page shows a Windows taskbar with various application icons and a system clock.

2. Choosing 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.

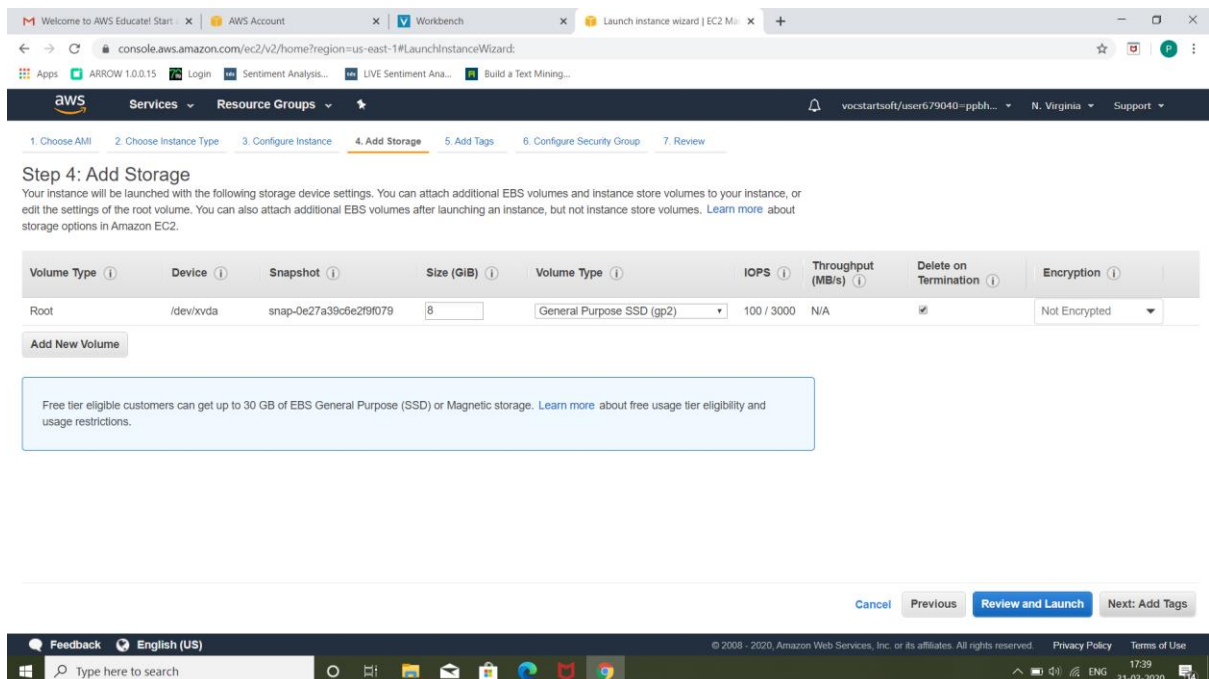
Filter by: All instance types Current generation Show/Hide Columns

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
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro	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
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes

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

3. Adding Storage



Step 4: Add Storage

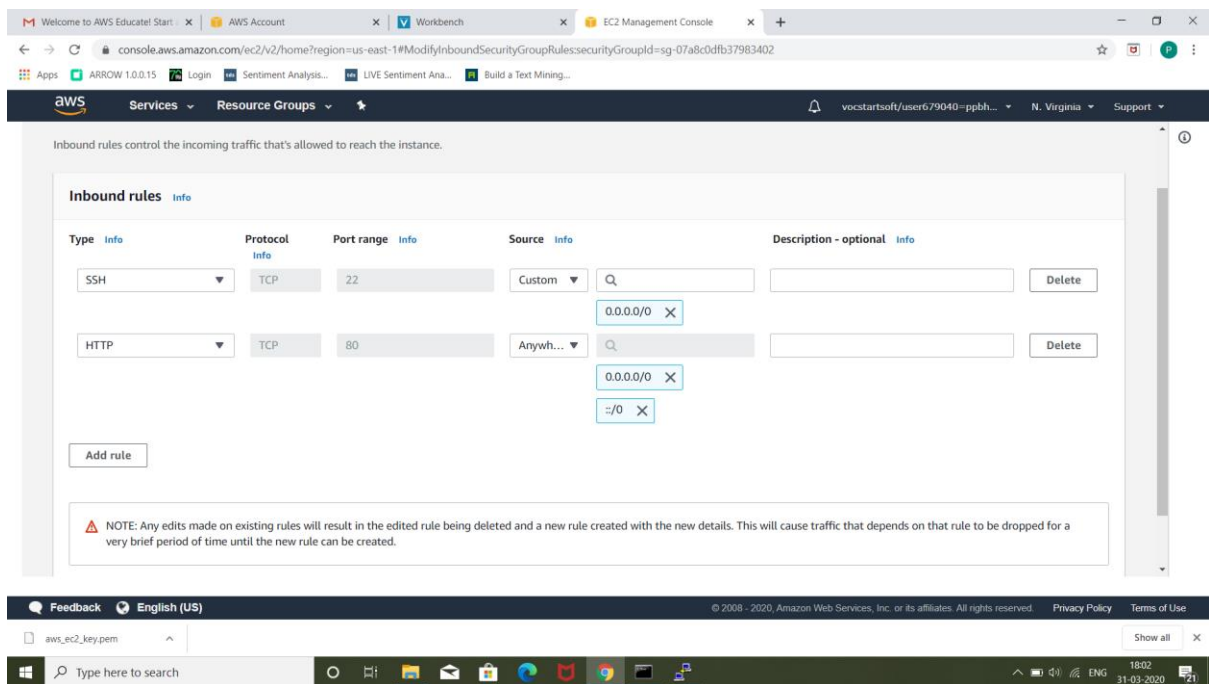
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [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-0e27a39c6e2f9f079	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

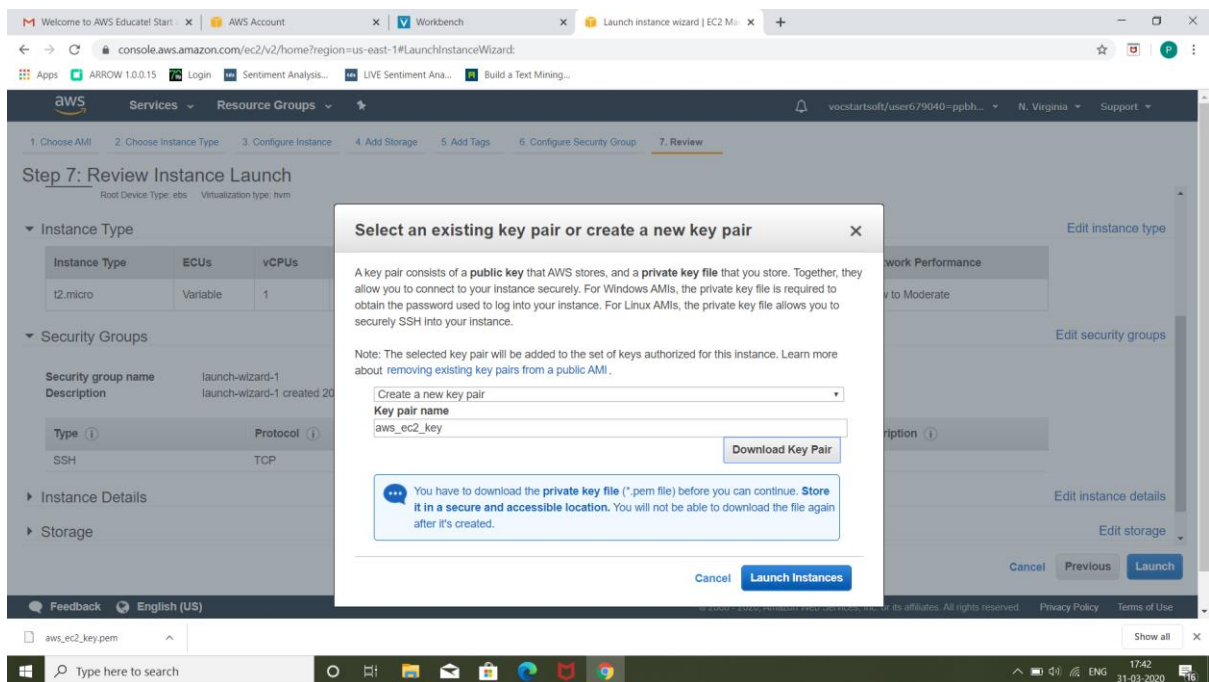
Buttons: Add New Volume Cancel Previous Review and Launch Next: Add Tags

Note: 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.

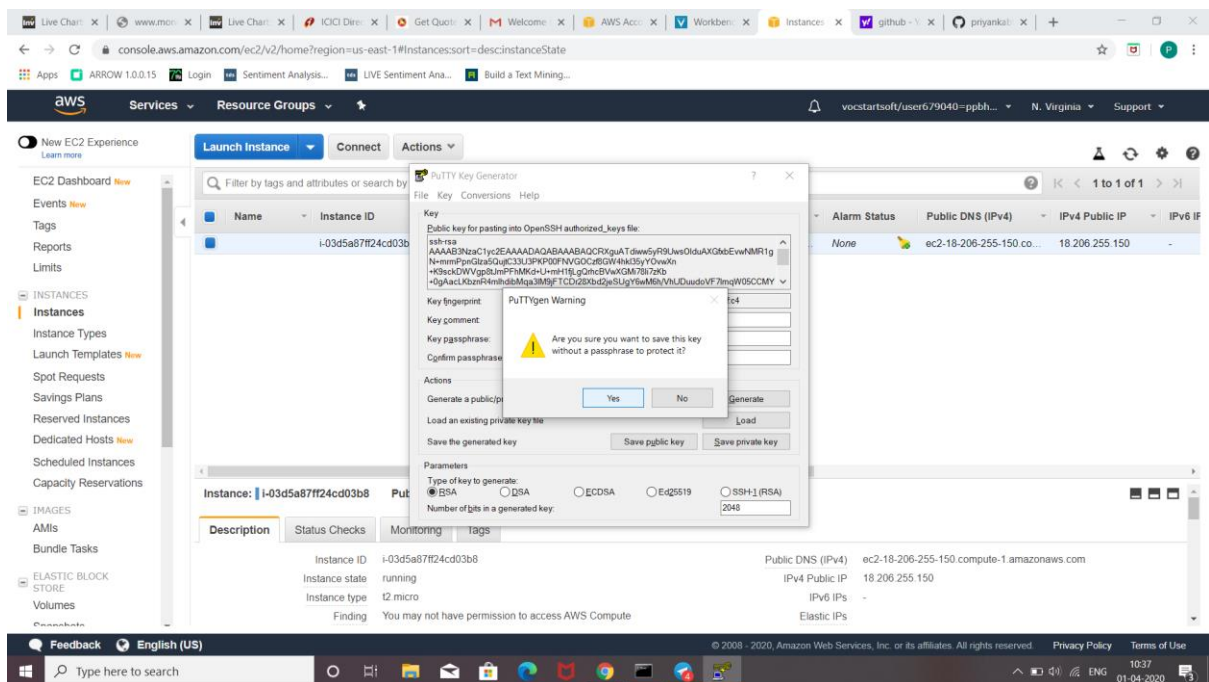
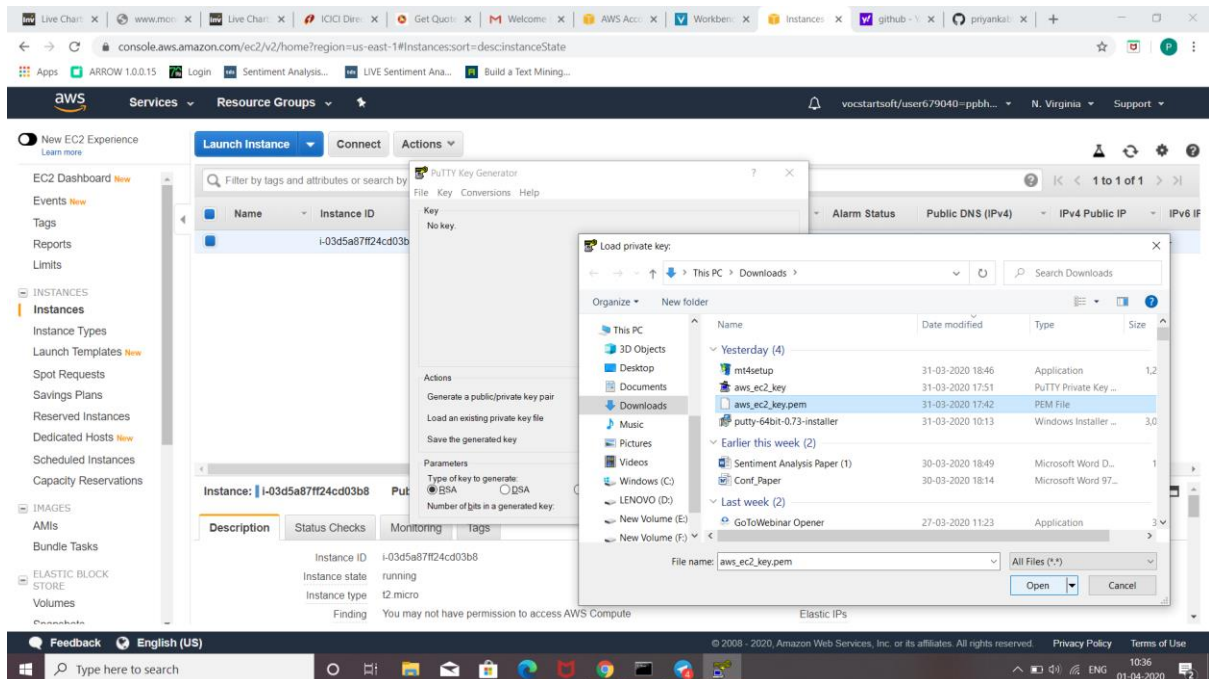
4. Configuring Security Group

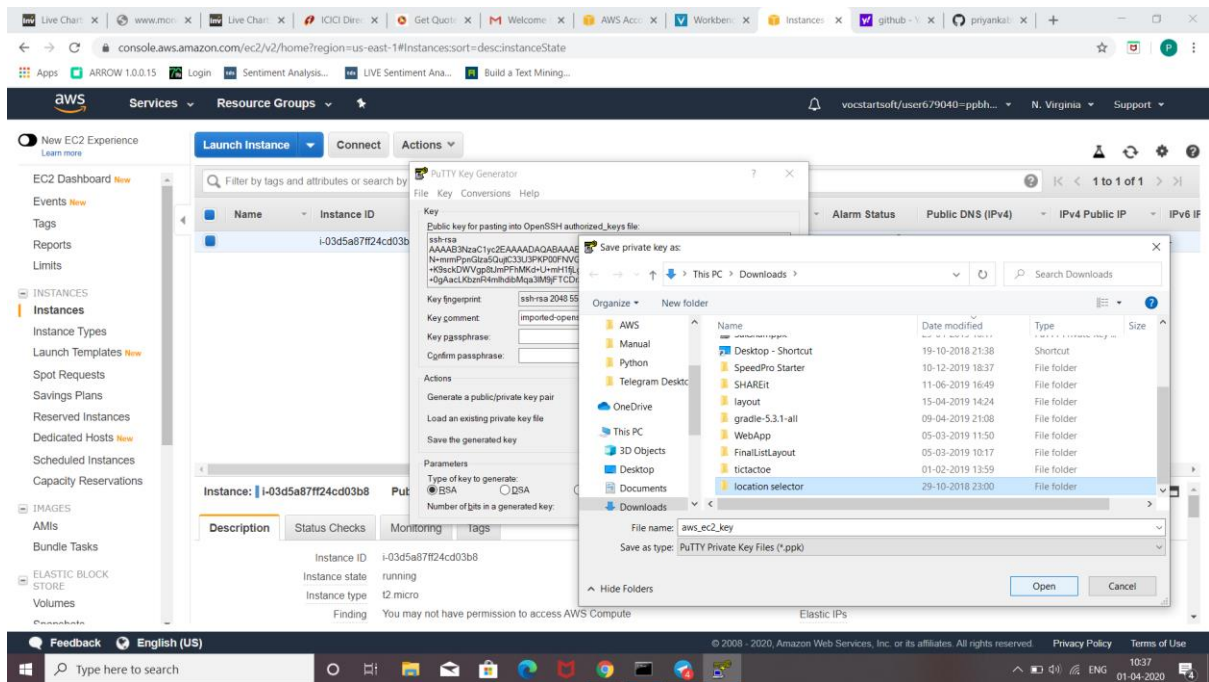


5. Key pair download

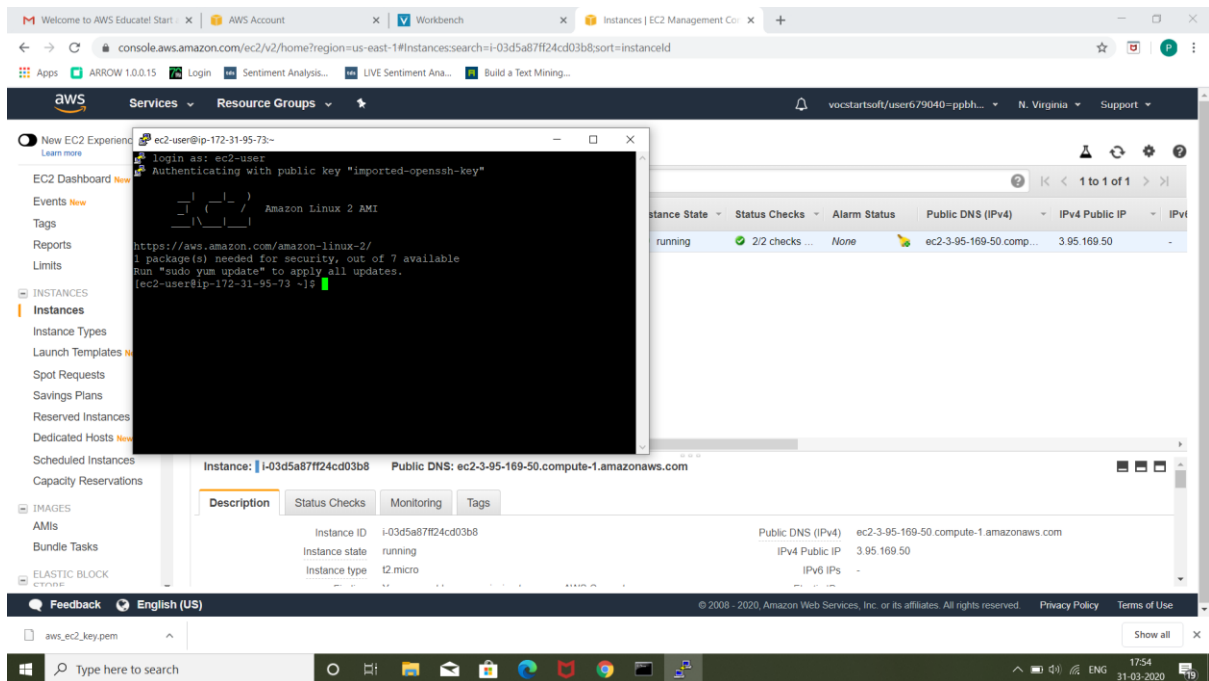


6. Puttygen conversion from pem to ppk



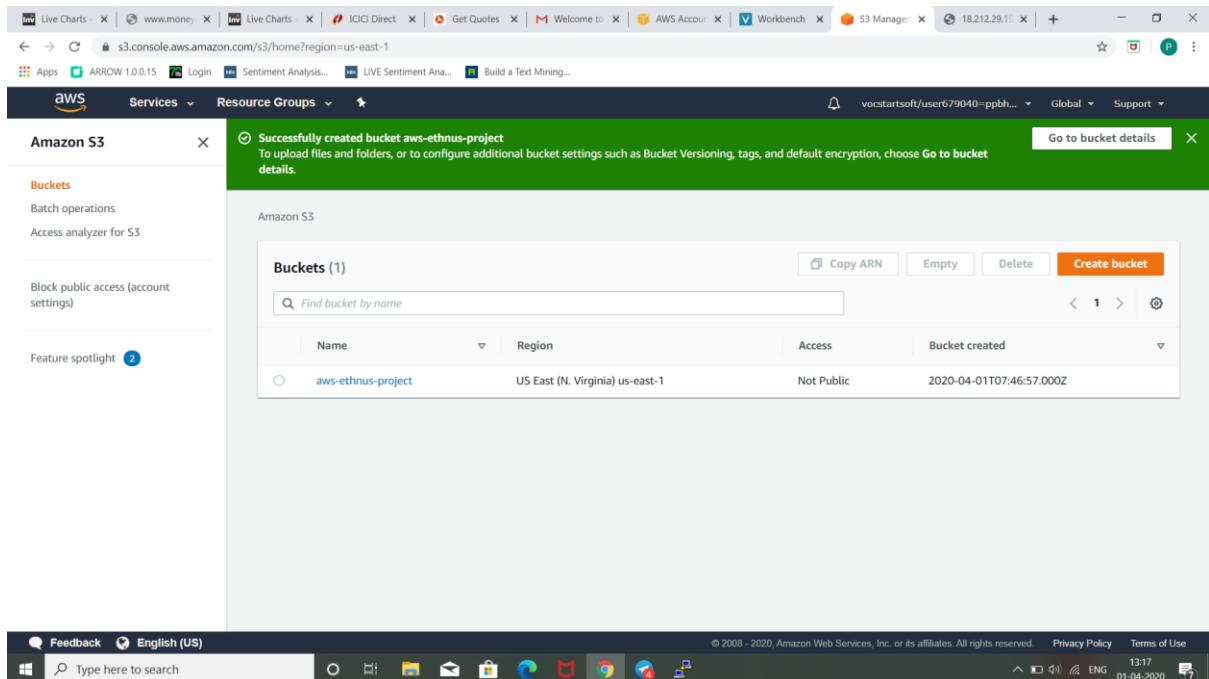


7. Logged in Putty

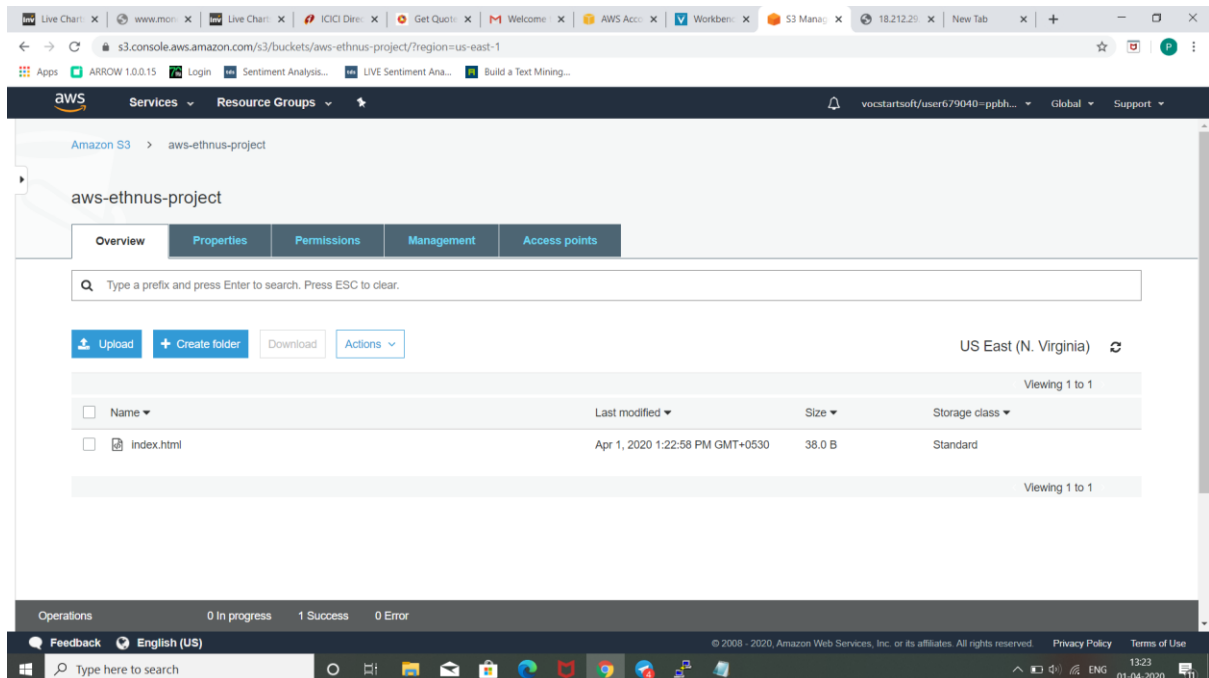


Screenshots for S3:

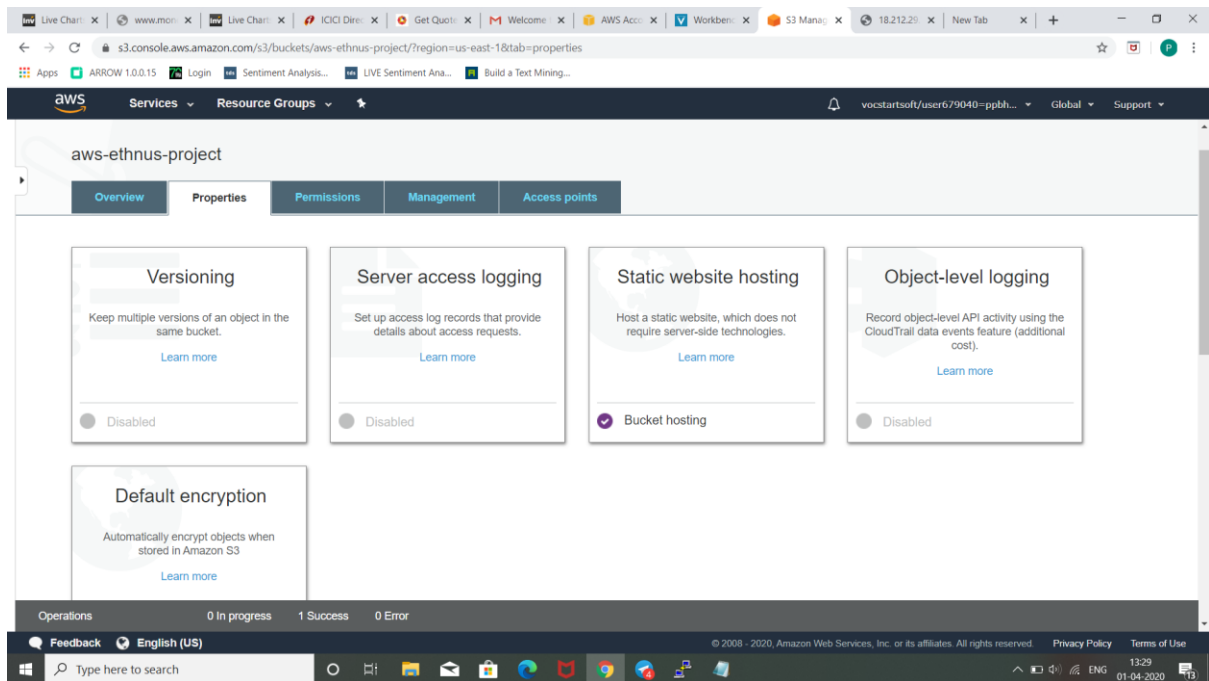
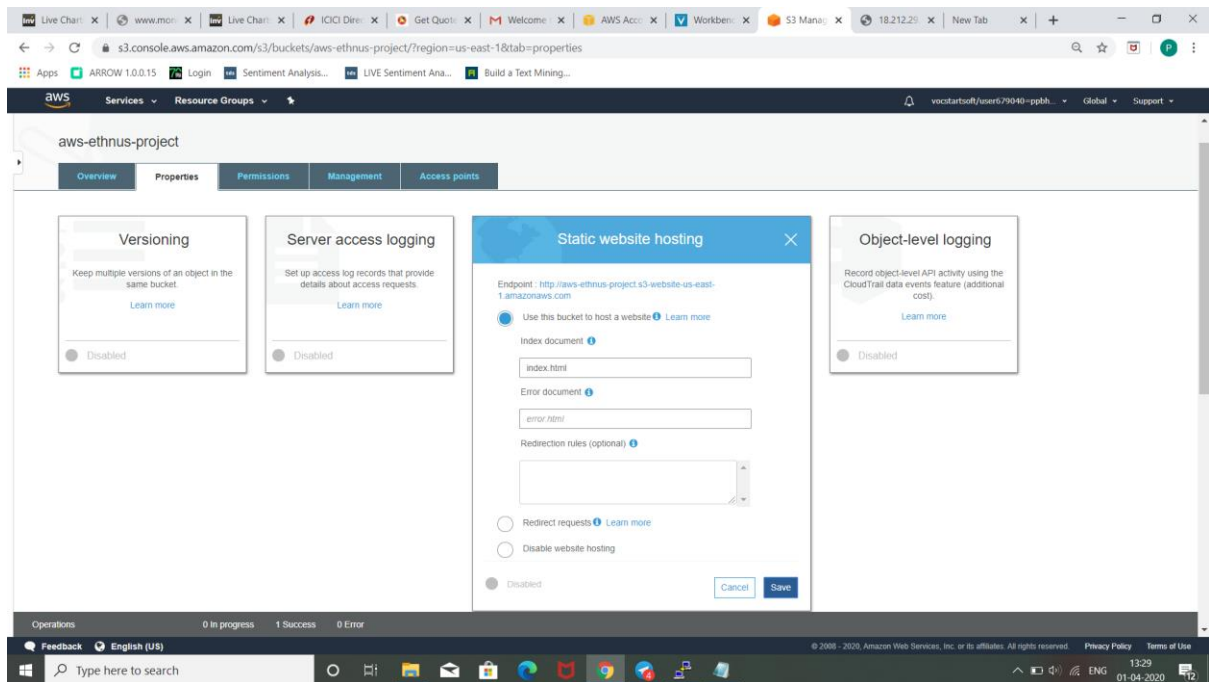
1. Creating a bucket



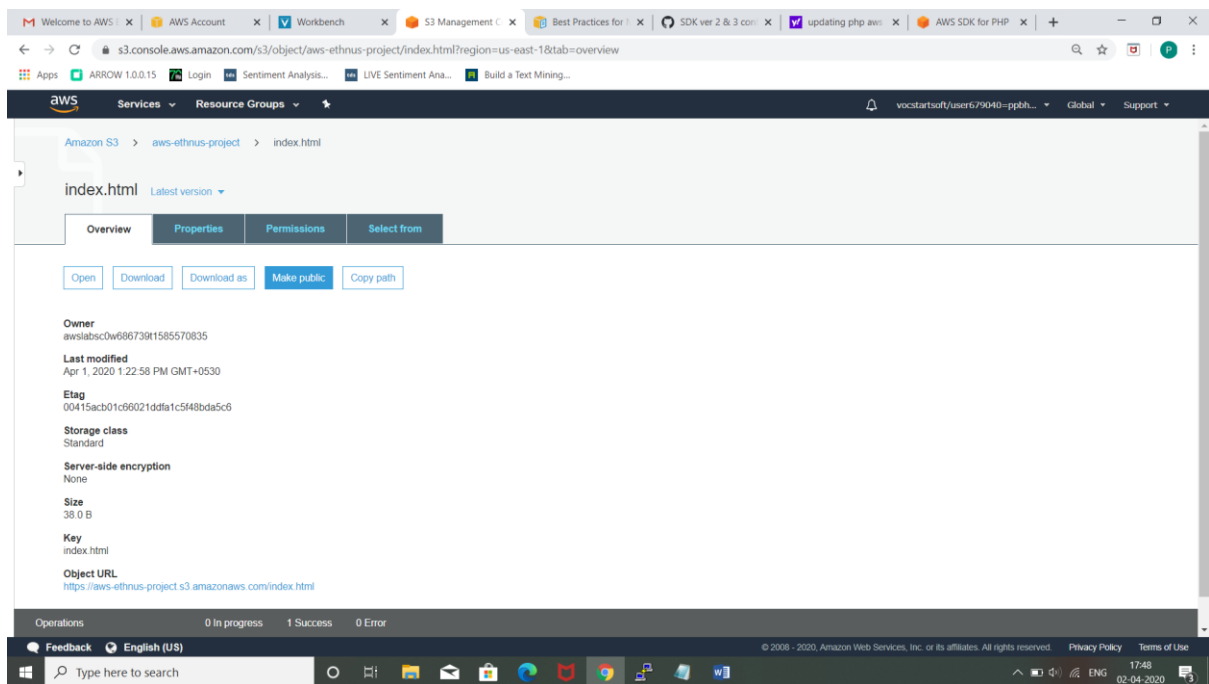
2. Uploading object



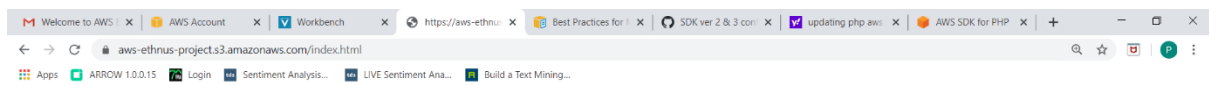
3. Enabling Static Website



4. Make Object Public



5. S3 link on Browser

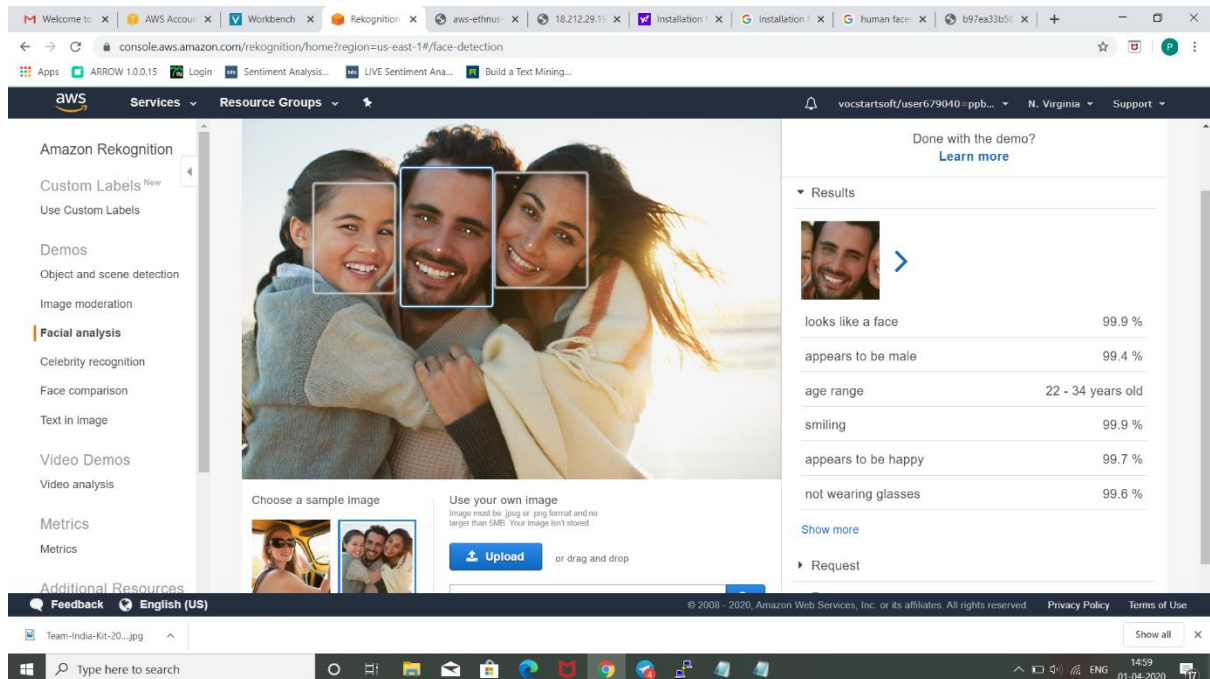


Hello I am Priyanka. Nice to meet you.

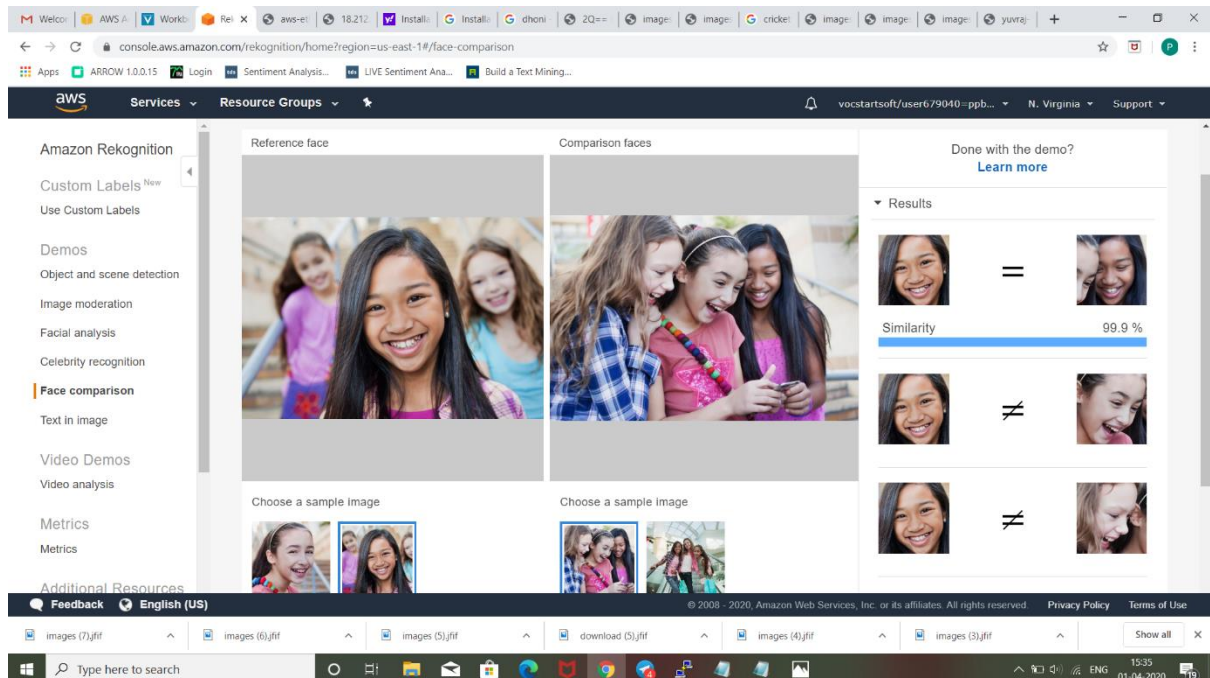


Screenshots for Rekognition:

1. Face Detect



2. Face Compare



3. Celebrity Recognition

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

Metrics

Additional Resources

Feedback English (US)

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Yuvraj-singh.jpg download (2).jiff download (1).jiff download.jiff deepika.jiff deepika.jiff Show all X

Type here to search


15:22 01-04-2020

Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.

Done with the demo? [Learn more](#)

▼ Results

 **Yuvraj Singh**

Match confidence 100 %

► Request

► Response

Choose a sample image

Use your own image
Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.

4. Text in Image

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

Metrics

Additional Resources

Feedback English (US)

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images (7).jiff images (6).jiff images (5).jiff download (3).jiff images (4).jiff images (3).jiff Show all X

Type here to search

15:36 01-04-2020

Text in image

Rekognition automatically detects and extracts text in your images. [Learn More](#)

Done with the demo? [Learn more](#)

▼ Results

US English only

| C |
| J389 | NLT |

► Request

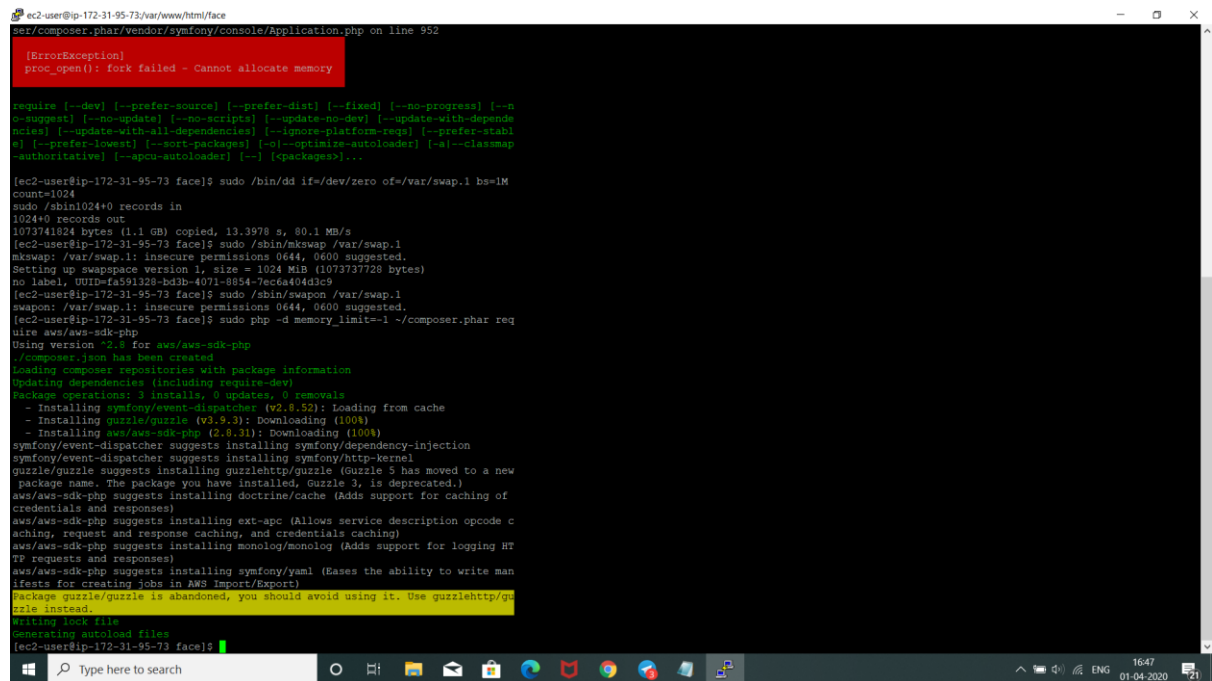
► Response

Choose a sample image

Use your own image
Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.

Screenshots for EC2 and S3:

1. Installing aws-sdk



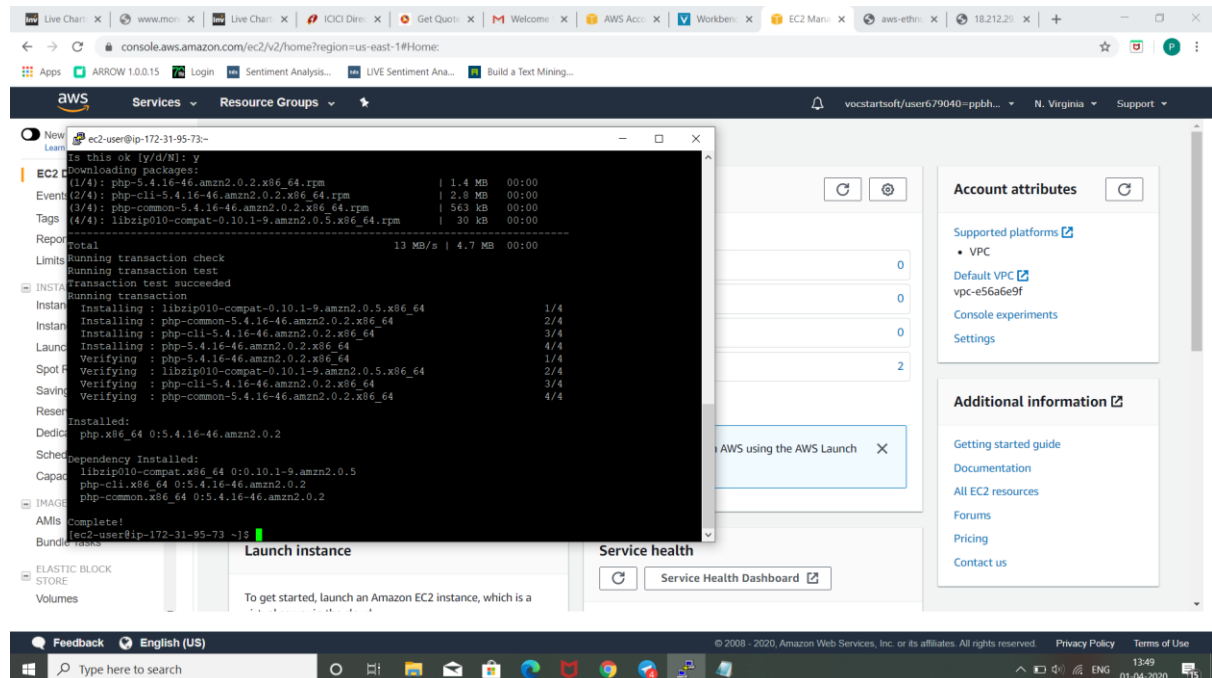
```
ec2-user@ip-172-31-95-73:~$ cd /var/www/html/face
set/composer.phar/vendor/symfony/console/Application.php on line 952

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

require [--dev] [--prefer-source] [--prefer-dist] [--fixed] [--no-progress] [--n
o-suggest] [--no-update] [--no-scripts] [--update-no-dev] [--update-with-depende
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-172-31-95-73 face]$ sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M
count=1024
sudo /sbin/mkswap -v /var/swap.1
10240 records in
10240 records out
1073741024 bytes (1.1 GB) copied, 13.3978 s, 80.1 MB/s
[ec2-user@ip-172-31-95-73 face]$ sudo /sbin/mkswap /var/swap.1
mkswap: /var/swap.1: insecure permissions 0644, 0600 suggested.
Setting up swapspace version 1, size = 1024 MB (1073737728 bytes)
no label, UUID=fa591328-bd3b-4071-8854-7ec6a404d3c9
[ec2-user@ip-172-31-95-73 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-95-73 face]$ sudo php -d memory_limit=1 ~/composer.phar req
uire 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
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/g
uzzle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-95-73 face]$
```

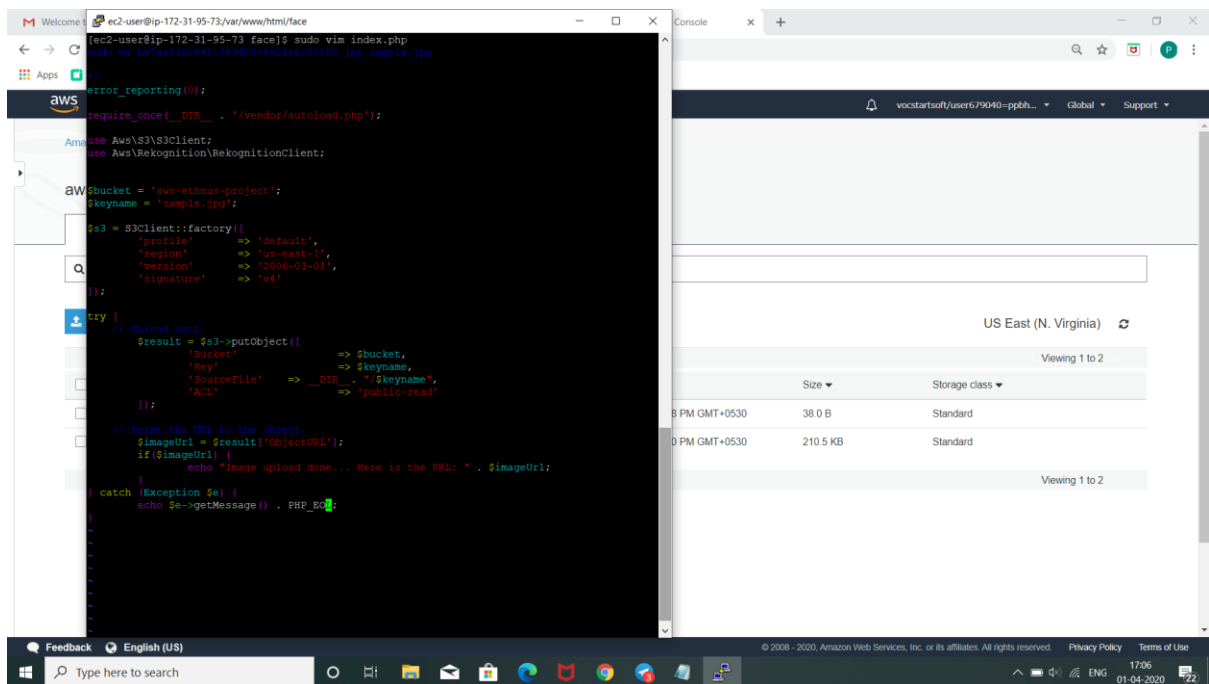
2. Installing php



The screenshot shows the AWS Management Console with a terminal window open. The terminal displays the following commands and output:

```
ec2-user@ip-172-31-95-73:~$ sudo yum install php php-common php-cli php-devel php-gd php-mbstring php-xml php-zlib
...
Installing : php-common-5.4.16-46.amzn2.0.2.x86_64
Installing : php-cli-5.4.16-46.amzn2.0.2.x86_64
Installing : php-5.4.16-46.amzn2.0.2.x86_64
Verifying : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64
Verifying : php-cli-5.4.16-46.amzn2.0.2.x86_64
Verifying : php-common-5.4.16-46.amzn2.0.2.x86_64
Verifying : php-5.4.16-46.amzn2.0.2.x86_64
Total download size: 13 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 : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64 1/4
Verifying : php-cli-5.4.16-46.amzn2.0.2.x86_64 2/4
Verifying : php-common-5.4.16-46.amzn2.0.2.x86_64 3/4
Verifying : php-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
```


3. Index.php code



```
[ec2-user@ip-172-31-95-73 /var/www/html/face]$ sudo vim index.php
sudo mv b97ea33b5842c7894b804923c6c035580.jpg sample.jpg

error_reporting(0);
require_once(__DIR__ . '/vendor/autoload.php');

use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;

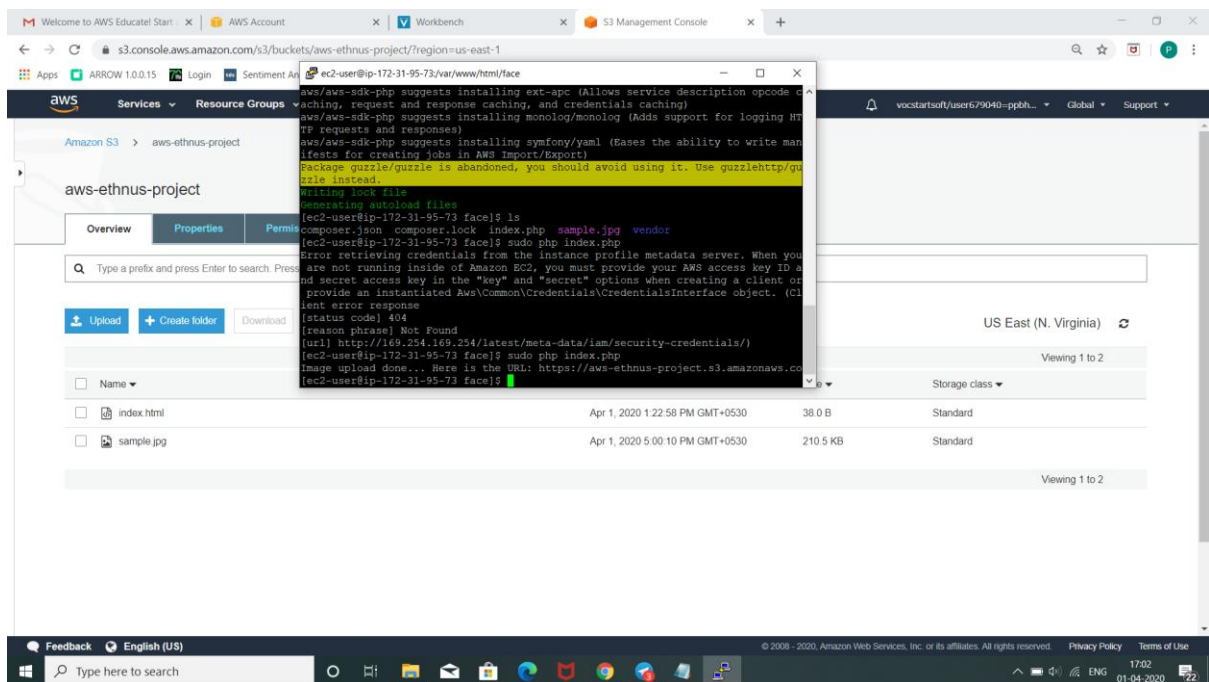
$bucket = 'aws-ethnus-project';
$keyname = 'sample.jpg';

$s3 = S3Client::factory([
    'profile' => 'default',
    'region' => 'us-east-1',
    '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;
}
```

4. Upload success



The screenshot shows the AWS S3 Management Console for the bucket 'aws-ethnus-project' in the 'us-east-1' region. The 'Properties' tab is selected, and the 'Permissions' section is visible. The console shows two files uploaded to the bucket:

Name	Size	Storage class
index.html	38.0 B	Standard
sample.jpg	210.5 KB	Standard

Screenshot for EC2 and Rekognition:

1. Face Detect Success

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes sections for EC2 Dashboard, INSTANCES, IMAGES, and ELASTIC BLOCK STORE. The main content area shows the details for an EC2 instance with ID i-03d5a87f024cd03b8. The instance is in a 'running' state and has a public IP address of 18.212.10.240. A terminal window is open on the instance, showing the execution of a PHP script that successfully detected 9 faces in an image. The terminal output is as follows:

```
ec2-user@ip-172-31-95-73:~$ sudo vim index.php
ec2-user@ip-172-31-95-73:~$ sudo php index.php
Image upload done... Here is the URL: https://aws-ethnus-project.s3.amazonaws.com/sample1.jpg
totally there are 9 faces[ec2-user@ip-172-31-95-73:~$]
```

The terminal window also shows the output of the 'face' command, which returns '9'.