

# AWS PROJECT ON FACE DETECTION

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**VIT, Vellore**

I've used my aws educate account last year for my cloud project. So, I'm using a friend's account for this project.

Screenshots needed for Dashboards

## 1. AWS Login screen with username

The screenshot shows a web browser window with the URL `labs.vocareum.com/main/main.php?m=editor&nav=1&asid=14334&stepid=14335`. The browser tabs include Google, AWS Account, and Workbench. The page header for Vocareum includes a home icon, 'My Classes', 'Help', and the user name 'parvatam.srikanth2...'. The main content area is divided into two sections: 'Welcome to your AWS Educate Account' and 'Your AWS Account Status'.

**Welcome to your AWS Educate Account**

AWS Educate provides you with access to a wide variety of AWS Services for you to get your hands on and build on AWS! To get started, click on the AWS Console button to log in to your AWS console.

Please read the FAQ below to help you get started on your Starter Account.

- What are the list of services supported?
- What regions are supported with Starter Accounts or Classroom Accounts?
- I can't start any resources. What happened?
- Can I create users within my Starter or Classroom Account for others to access?
- Can I create my own IAM policy within Starter Account or Classroom?

**Your AWS Account Status**

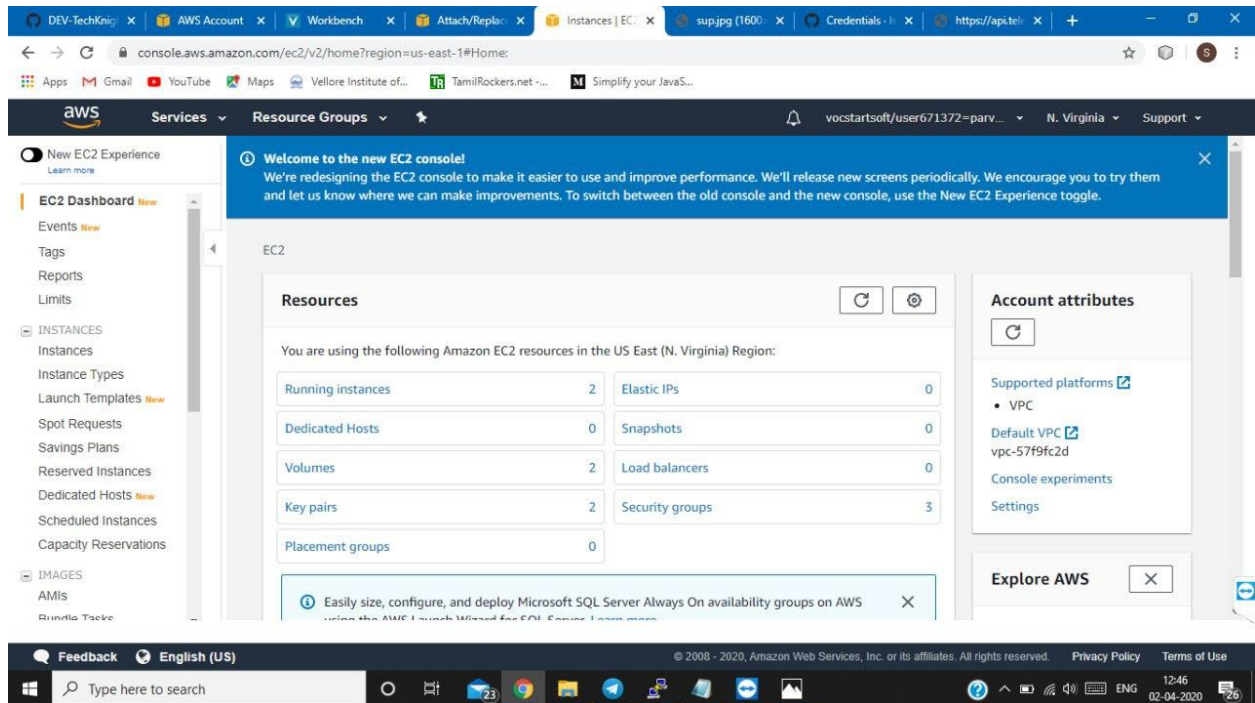
Active	full access ( parvatam.srikanth2016@vitstudent.ac.in )
\$98.93	remaining credits (estimated)
2:60	session time

[Account Details](#) [AWS Console](#)

Please use AWS Educate Account responsibly. Remember to shut down your instances when not in use to make the best use of your credits. And, don't forget to logout once you are done with your work!

The Windows taskbar at the bottom shows the search bar, task view, and several open applications including Chrome, File Explorer, and a terminal. The system clock indicates 15:51 on 01-04-2020.

## 2. EC2 Dashboard



The screenshot shows the AWS Management Console for the EC2 service. The top navigation bar includes the AWS logo, a menu with 'Services' and 'Resource Groups', and user information for 'vocstartsoft/user671372=parv...' in the 'N. Virginia' region. A blue banner at the top reads: '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 where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.'

The left sidebar contains a navigation menu with categories: 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Scheduled Instances', 'Capacity Reservations', 'IMAGES', 'AMIs', and 'Runable Taskset'.

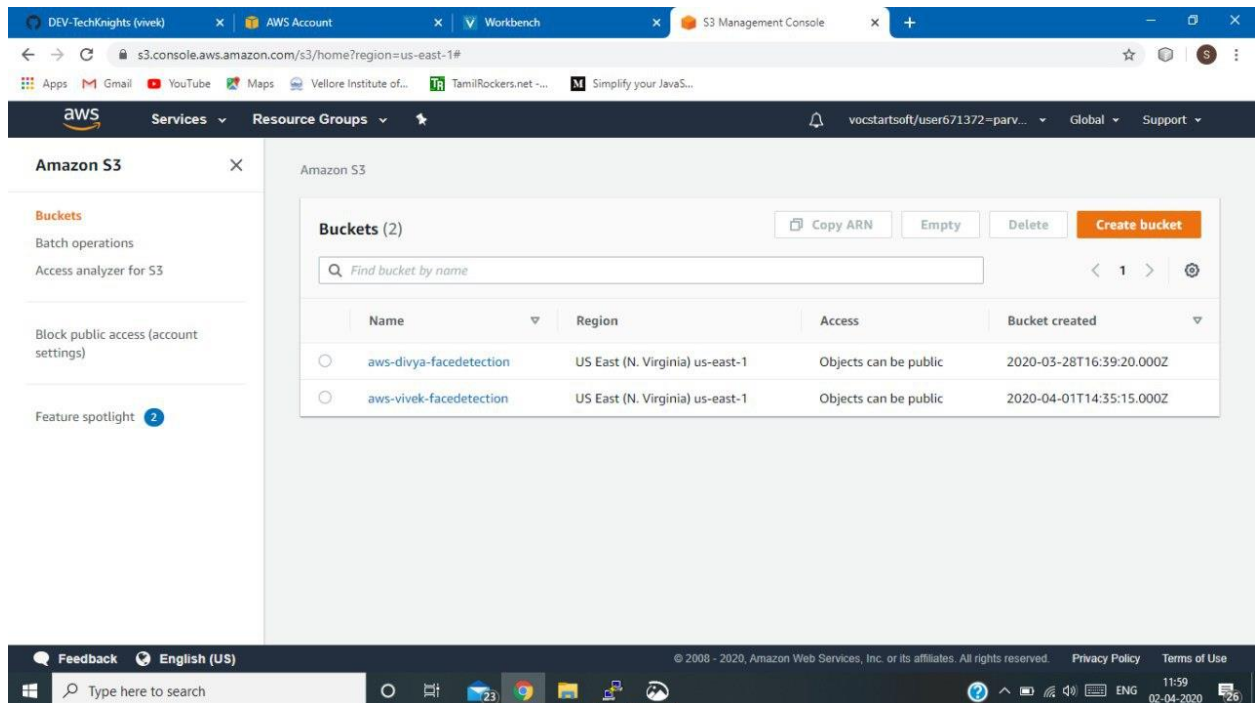
The main content area is titled 'EC2' and features a 'Resources' section. It states: 'You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:'. Below this is a table of resources:

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

On the right, the 'Account attributes' section shows 'Supported platforms' with a 'VPC' entry, 'Default VPC' with ID 'vpc-57f9fc2d', 'Console experiments', and 'Settings'. An 'Explore AWS' button is also present.

The bottom of the console shows a footer with 'Feedback', 'English (US)', and copyright information: '© 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved.' The Windows taskbar at the very bottom shows the time as 12:46 on 02-04-2020.

## 3. S3 Dashboard



The screenshot shows the AWS Management Console for the S3 service. The top navigation bar is similar to the EC2 dashboard, with the user 'vocstartsoft/user671372=parv...' in the 'Global' region.

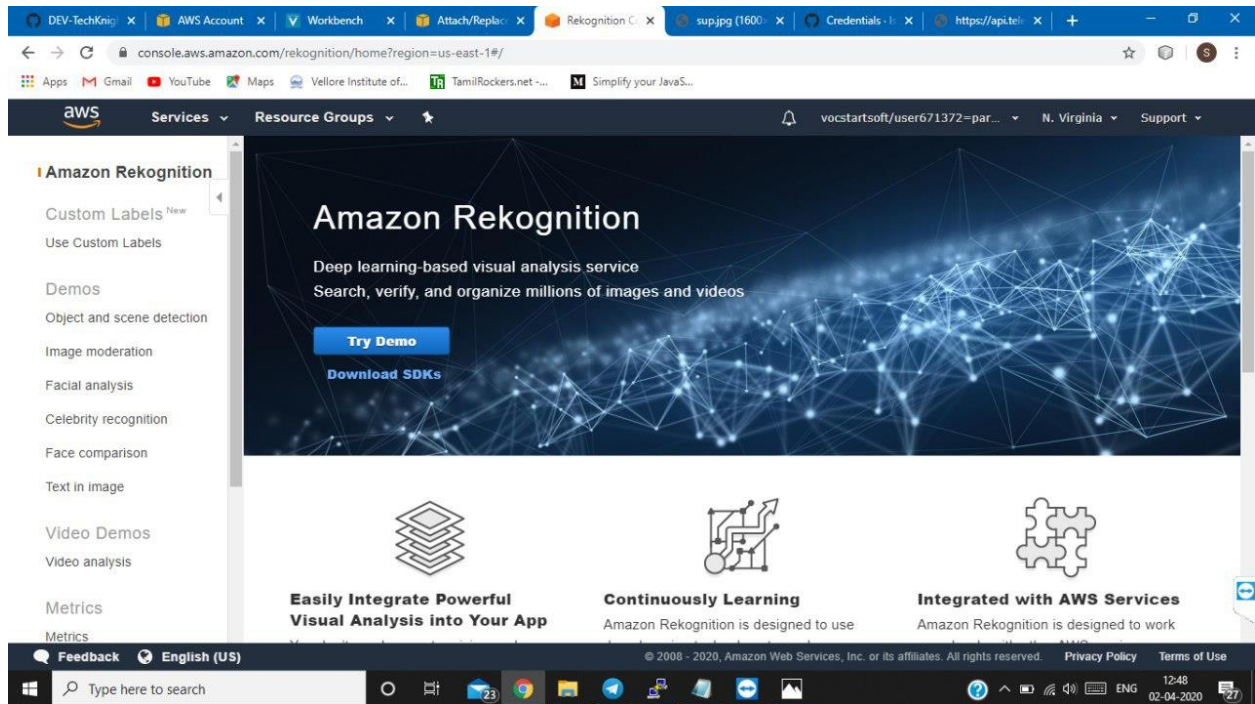
The left sidebar for 'Amazon S3' includes links for 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight' (with a blue badge showing '2').

The main content area is titled 'Amazon S3' and displays 'Buckets (2)'. It includes a search bar 'Find bucket by name', a pagination control showing '1', and a 'Create bucket' button. Below is a table of buckets:

Name	Region	Access	Bucket created
aws-divya-facedetection	US East (N. Virginia) us-east-1	Objects can be public	2020-03-28T16:39:20.000Z
aws-vivek-facedetection	US East (N. Virginia) us-east-1	Objects can be public	2020-04-01T14:35:15.000Z

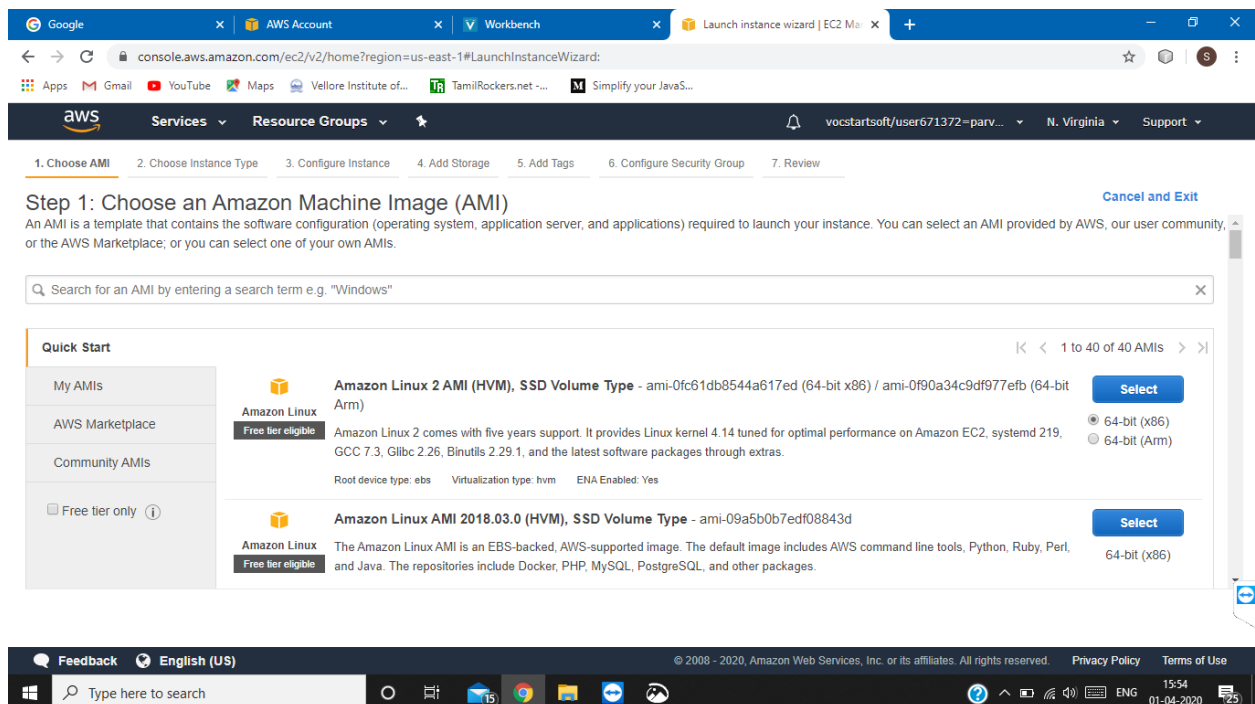
The bottom of the console shows the footer with 'Feedback', 'English (US)', and copyright information: '© 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved.' The Windows taskbar at the very bottom shows the time as 11:59 on 02-04-2020.

## 4. Rekognition Dashboard



Screenshots needed for EC2

## 1. Choosing an AMI



## 2. 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, 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 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
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

[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 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](#)

## 4. Configuring 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**

## 5. Key Pair Download

**Step 7: Review Instance Launch**

Please review your instance launch details. You can edit details before launching your instance.

**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), S...  
Free tier eligible  
Amazon Linux 2 comes with five years of security updates and software packages through extras.  
Root Device Type: ebs Virtualization type: paravirt

**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

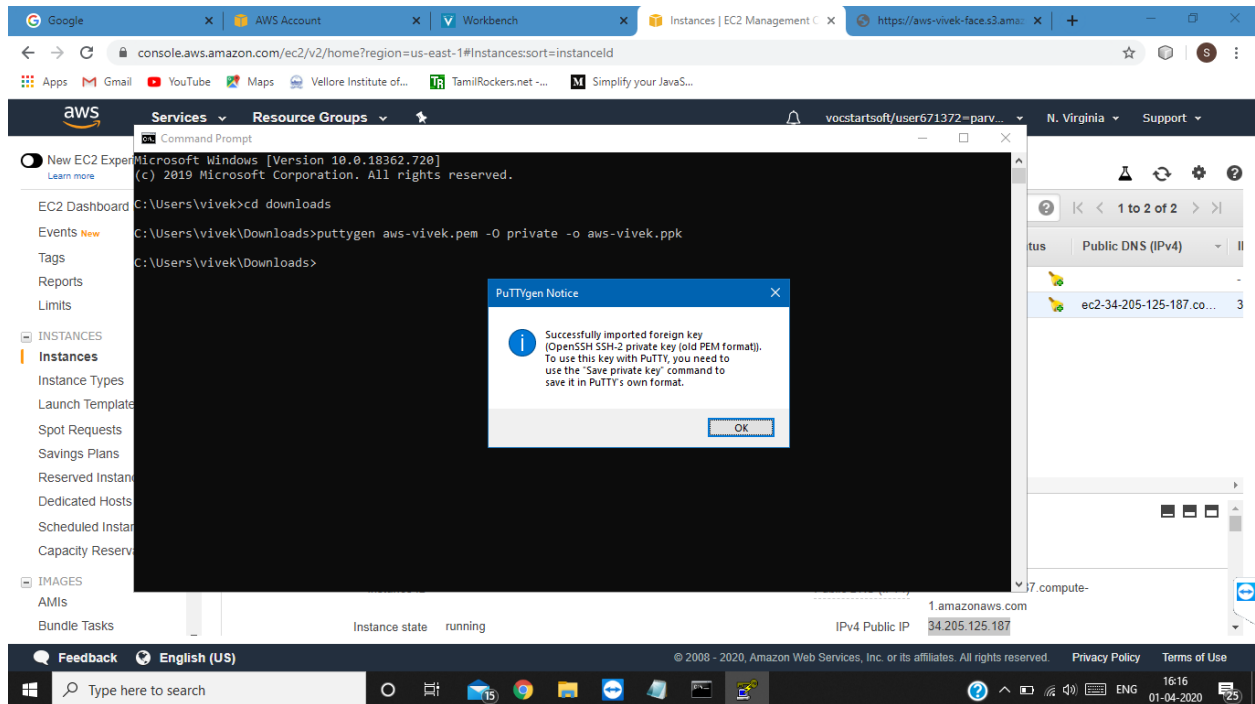
**Key pair name**

**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**

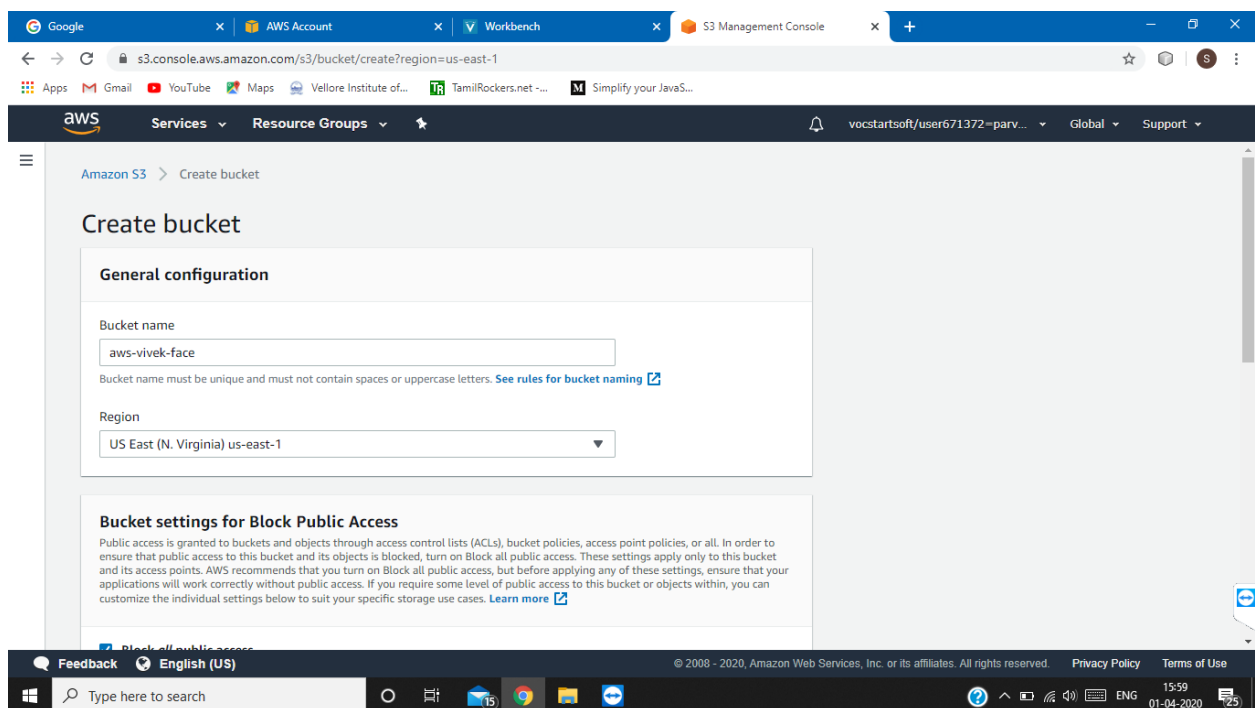
## 6. PuTTYgen conversion from pem to ppk



## 7. Logged in EC2 black screen

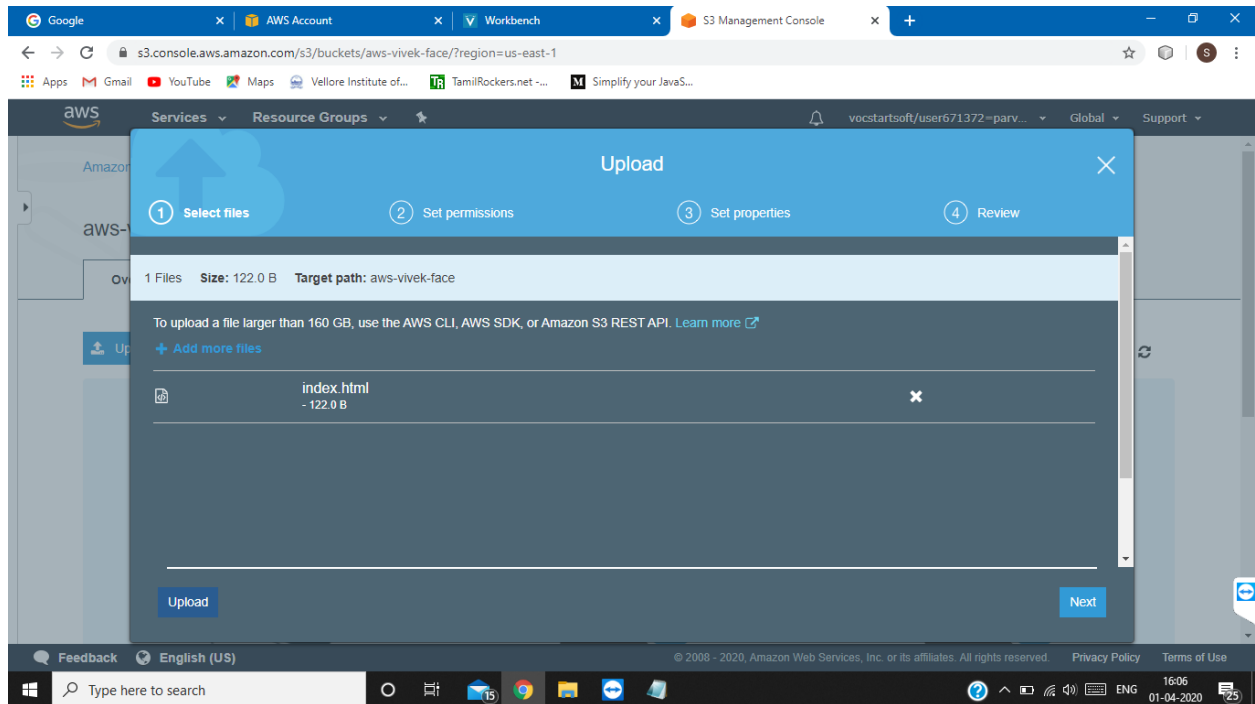
Screenshots needed for S3

### 1. Creating a bucket

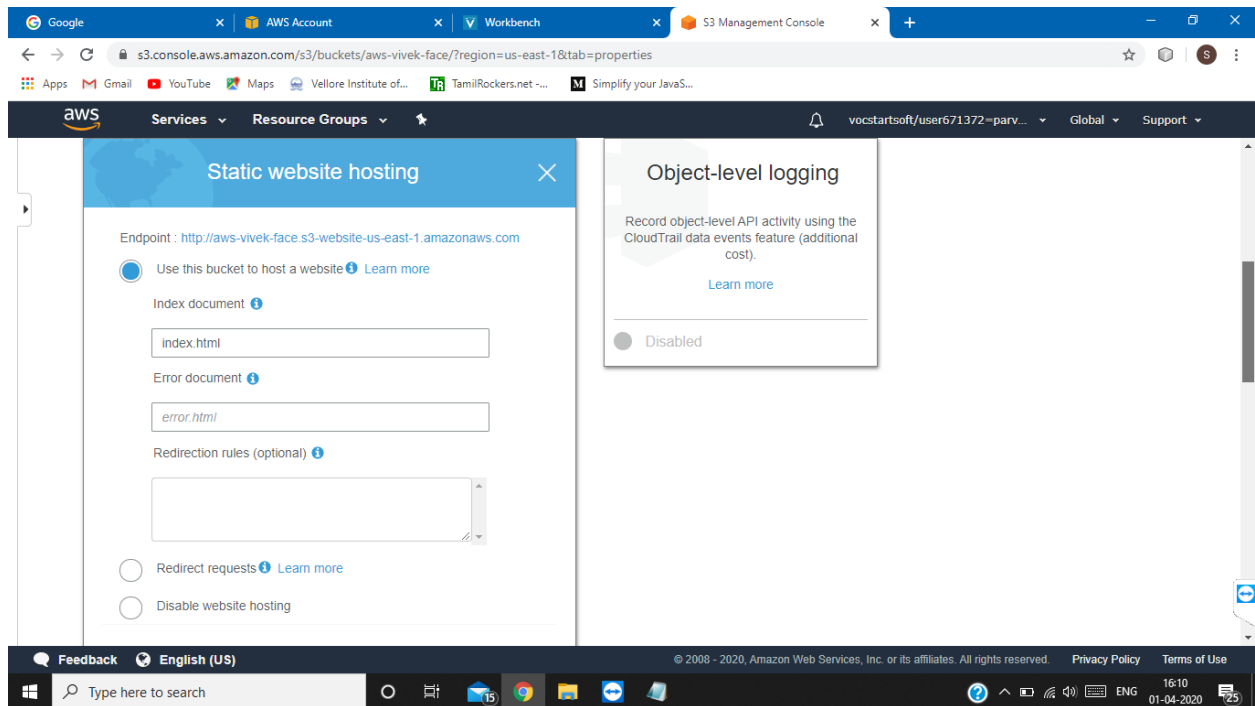




## 2. Uploading an Object



## 3. Enabling Static Website



## 4. Making the Object Public

The screenshot shows the AWS S3 Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile. The main content area is titled 'Block public access (bucket settings)'. It contains a paragraph explaining that public access is granted through ACLs, bucket policies, access point policies, or all. Below this, there are five checkboxes for configuring public access settings. The first checkbox, 'Block all public access', is selected. The other four checkboxes are unselected. A 'Cancel' button and a 'Save' button are located at the top right of the settings panel. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock.

Block public access (bucket settings)

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 all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

- ☒ **Block all public access**  
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
- ☐ **Block public access to buckets and objects granted through new access control lists (ACLs)**  
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☐ **Block public access to buckets and objects granted through any access control lists (ACLs)**  
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☐ **Block public access to buckets and objects granted through new public bucket or access point policies**  
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☐ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

## 5. Checking the S3 link on the browser

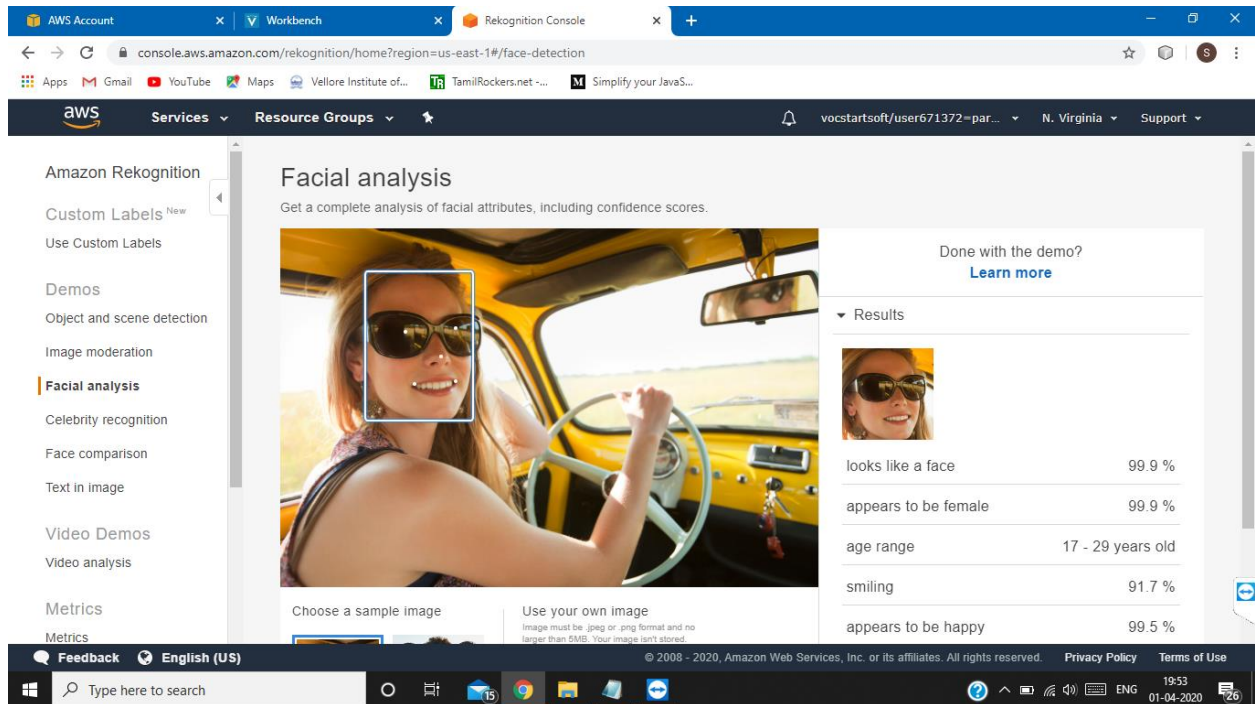
The screenshot shows a web browser window with the address bar displaying 'aws-vivex-face.s3.amazonaws.com/index.html'. The page content is a simple text message: 'This is vivex and hello everyone. This is a static website!'. The browser's address bar also shows the full URL 'https://aws-vivex-face.s3.amazonaws.com/index.html'. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock.

This is vivex and hello everyone. This is a static website!

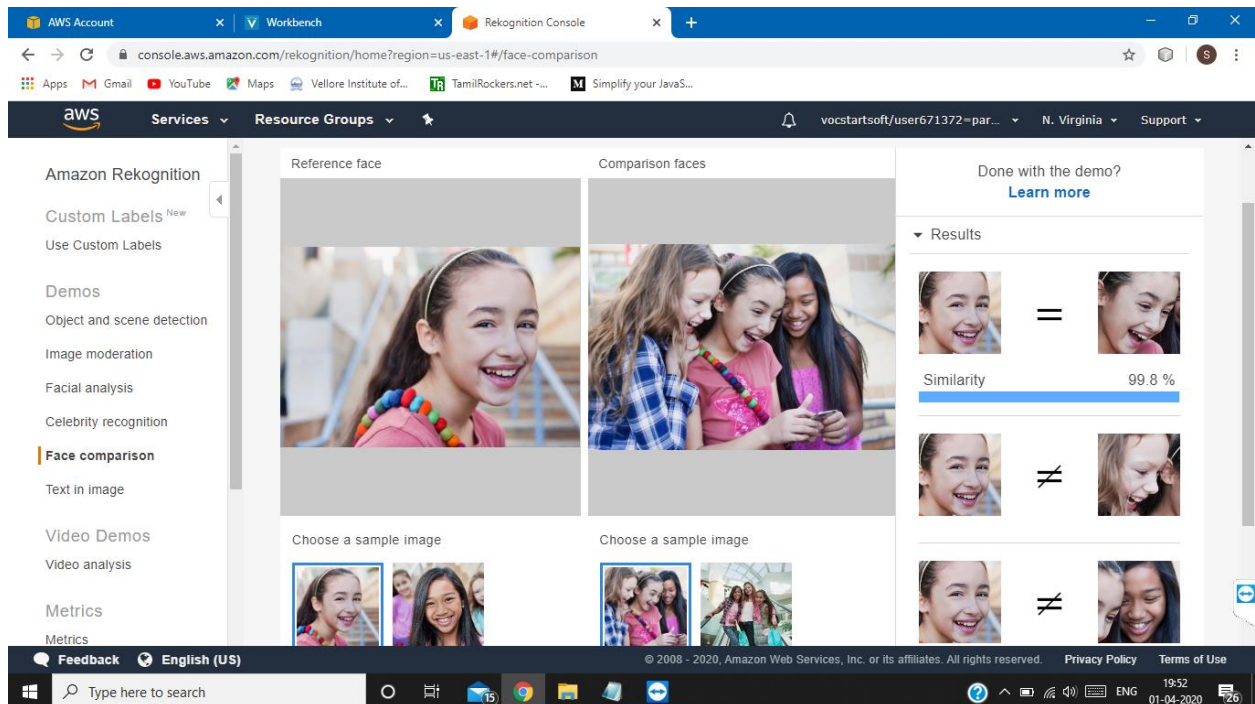


## Screenshots needed for Rekognition

### 1. Face Detect



### 2. Face Compare



### 3. Celebrity Recognition

The screenshot displays the AWS Rekognition Console interface. The left sidebar lists various services, with 'Celebrity recognition' highlighted. The main content area shows a demo where a photo of Jeff Bezos is uploaded. The results panel on the right identifies him with a 100% match confidence. Below the main image, there are options to 'Choose a sample image' or 'Use your own image' with an 'Upload' button. The bottom of the screen shows the Windows taskbar and the AWS footer with copyright information.

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

Feedback English (US)

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

Results

 **Jeff Bezos** [Learn More](#)

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

Use image URL

### 4. Text in Image

The screenshot displays the AWS Rekognition Console interface for the 'Text in image' demo. The left sidebar shows 'Text in image' highlighted. The main content area shows a photo of a coffee cup with the text 'IT'S MONDAY but keep Smiling' overlaid. The results panel on the right lists the detected text: 'IT'S', 'MONDAY', 'but keep', and 'Smiling'. Below the main image, there are options to 'Choose a sample image' or 'Use your own image' with an 'Upload' button. The bottom of the screen shows the Windows taskbar and the AWS footer with copyright information.

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

Feedback English (US)

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Text in image

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



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

Results

US English only

| IT'S |  
| MONDAY |  
| but | keep |  
| Smiling |

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

## Screenshots needed for EC2 & S3

### 1. Installing aws-sdk

The screenshot shows the AWS Management Console for an EC2 instance. The terminal window displays the following output:

```
ec2-user@ip-172-31-85-25:/var/www/html/face$ composer install
./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
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
zle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-85-25 face]$
```

The instance details show the instance is running with the following information:

Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
us-east-1a	stopped	2/2 checks passed	None	ec2-34-205-125-187.compute-1.amazonaws.com
us-east-1a	running	2/2 checks passed	None	ec2-34-205-125-187.compute-1.amazonaws.com

### 2. Installing php

The screenshot shows the AWS Management Console for an EC2 instance. The terminal window displays the following output:

```
ec2-user@ip-172-31-85-25~$ sudo yum install php
Verifying : mailcap-2.1.41-2.amzn2.0.noarch 10/13
Verifying : httpdfilesystem-2.4.41-1.amzn2.0.1.noarch 11/13
Verifying : httpd-tools-2.4.41-1.amzn2.0.1.x86_64 12/13
Verifying : php-common-5.4.16-46.amzn2.0.2.x86_64 13/13

Installed:
  php.x86_64 0:5.4.16-46.amzn2.0.2

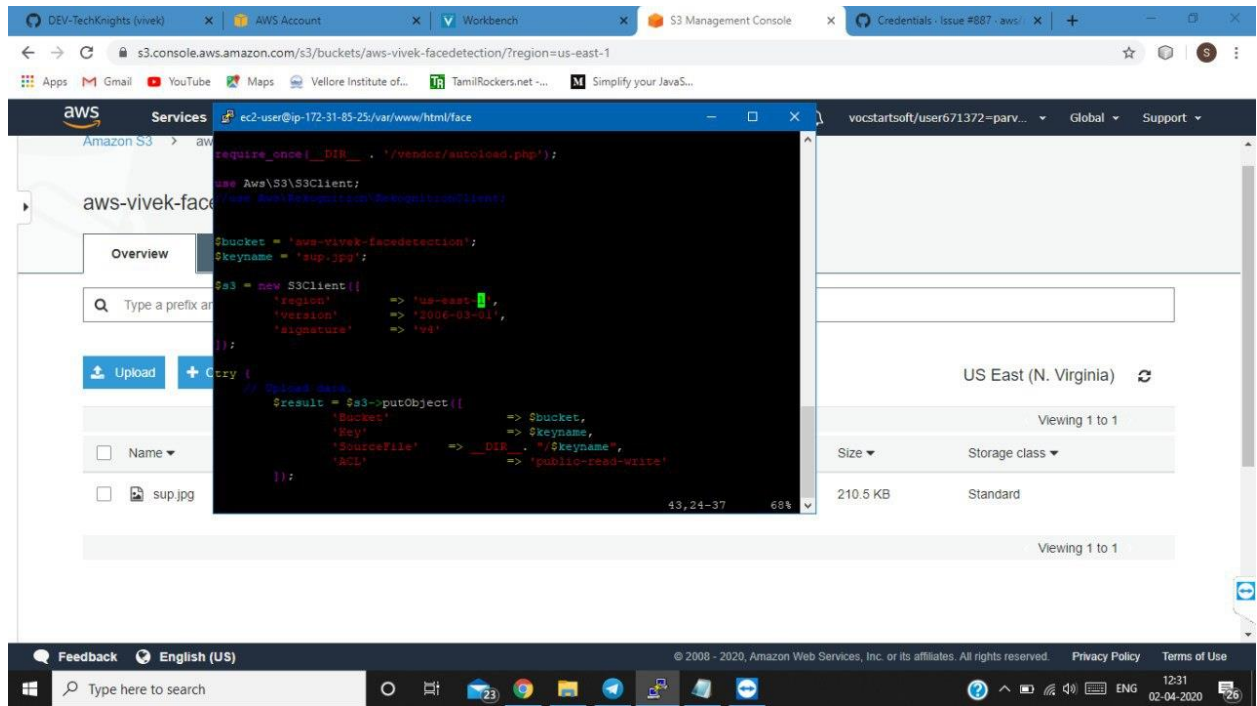
Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2
  apr-util.x86_64 0:1.6.1-5.amzn2.0.2
  apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd.x86_64 0:2.4.41-1.amzn2.0.1
  httpd-filesystem.noarch 0:2.4.41-1.amzn2.0.1
  httpd-tools.x86_64 0:2.4.41-1.amzn2.0.1
  libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5
  mailcap.noarch 0:2.1.41-2.amzn2
  mod_http2.x86_64 0:1.15.3-2.amzn2
  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-172-31-85-25 ~]$
```

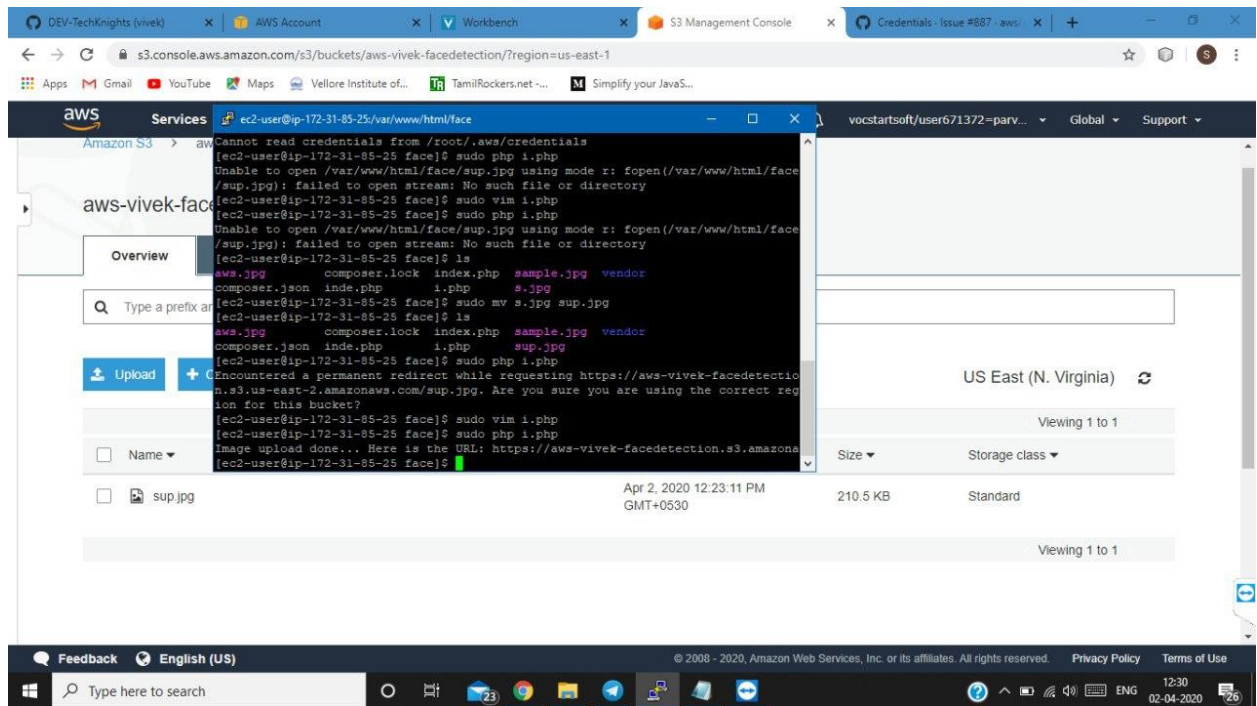
The instance details show the instance is running with the following information:

Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
us-east-1a	stopped	2/2 checks passed	None	ec2-34-205-125-187.compute-1.amazonaws.com
us-east-1a	running	2/2 checks passed	None	ec2-34-205-125-187.compute-1.amazonaws.com

### 3. index.php file code



#### 4. Upload success screenshot





### 1. Face Detect success screenshot

