

# **AMAZON WEB SERVICE(AWS) MASTER CLASS**

## **(ETHNUS)**

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### **TOPICS:**

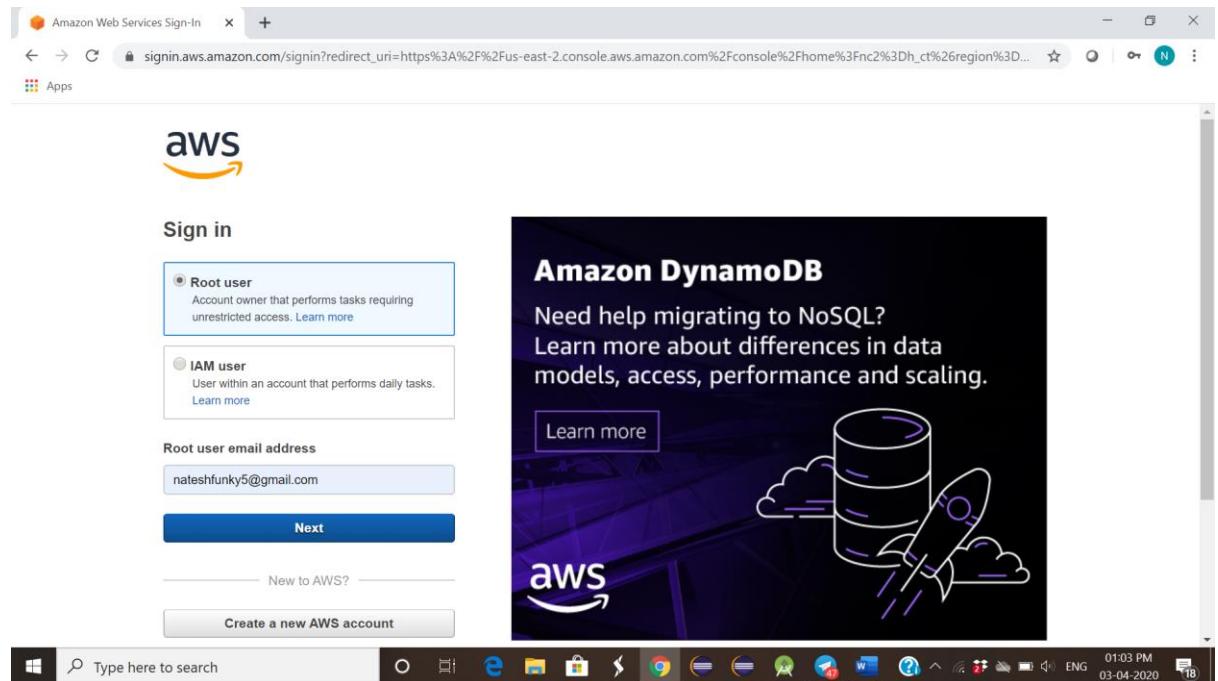
- EC2
- S3
- AMAZON RECOGNITION
- FACE DETECT

### **ARCHITECTURE:**

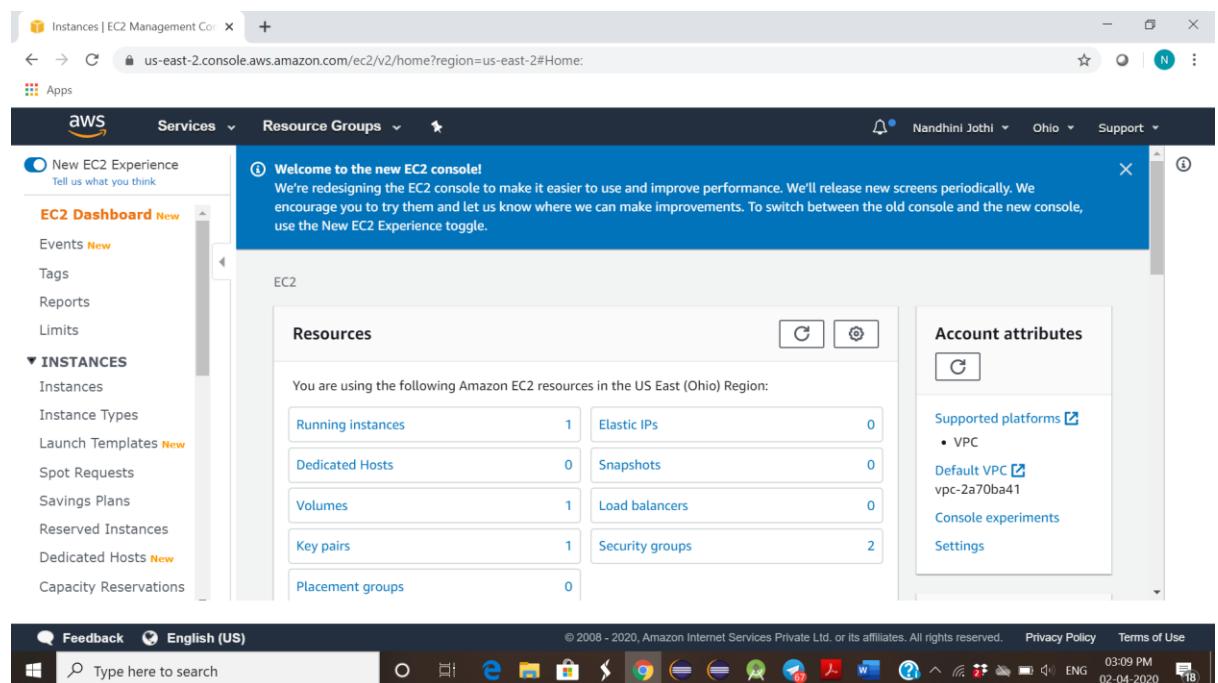
- Upload an image in telegram bot. It directly comes to EC2.
- EC2(compute service) uploads or sends the image to S3.
- In S3 the image gets stored.
- Now EC2 invokes Rekognition service to understand the features of the given image.
- Rekognition takes the image from S3, recognises that particular image and understands and interprets certain results
- Rekognition passes those results to EC2.
- EC2 directly interprets those results and sends the result to the telegram Bot.

## SCREENSHOTS NEEDED FOR DASHBOARDS

### 1. AWS Login screen with username



### 2. EC2 Dashboard



### 3. S3 Dashboard

The screenshot shows the AWS S3 Management Console. On the left, there's a sidebar with options like 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main area displays a table titled 'Buckets (1)'. The table has columns for Name, Region, Access, and Bucket created. One row is shown for 'funky-aws-bucket' located in 'US East (Ohio) us-east-2' with 'Objects can be public' access and created on '2020-04-02T13:29:25.000Z'. There are buttons for 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'.

### 4. Rekognition Dashboard

The screenshot shows the AWS Rekognition Console. On the left, there's a sidebar with options like 'Custom Labels', 'Demos', 'Image moderation', 'Facial analysis', 'Celebrity recognition', 'Face comparison', 'Text in image', 'Video Demos', and 'Video analysis'. The main area features a large banner with the text 'Amazon Rekognition' and 'Deep learning-based visual analysis service'. It also includes a 'Try Demo' button and 'Download SDKs'. Below the banner, there are three icons: a stack of layers labeled 'Easily Integrate Powerful', a brain-like icon labeled 'Continuously Learning', and a puzzle piece labeled 'Integrated with AWS'. The bottom of the screen shows a taskbar with various application icons and system status.

## SCREENSHOTS NEEDED FOR EC2

### 1. Choosing an AMI

Step 1: Choose an Amazon Machine Image (AMI)

Search for an AMI by entering a search term e.g. "Windows"

Quick Start

My AMIs
Amazon Linux Free tier eligible
AWS Marketplace
Community AMIs
Free tier only ⓘ

**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

**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

Cancel and Exit

### 2. Choosing an Instance Type

Step 2: Choose an Instance Type

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	<b>t2.micro</b> 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
General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

The screenshot shows the 'Step 3: Configure Instance Details' page of the AWS Launch Instance Wizard. The URL is [us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard](https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard). The page has tabs at the top: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance (which is selected), 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review.

**Step 3: Configure Instance Details**

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1

Purchasing option: Request Spot instances

Network: vpc-2a70ba41 (default)

Subnet: No preference (default subnet in any Availability Zone)

Auto-assign Public IP: Use subnet setting (Enable)

Placement group:  Add instance to placement group

Capacity Reservation: Open

IAM role: None

Buttons at the bottom: Cancel, Previous, **Review and Launch**, Next: Add Storage

Windows taskbar at the bottom: Feedback, English (US), Type here to search, various icons, ENG, 09:47 AM, 27-03-2020.

### 3. Adding Storage

The screenshot shows the 'Step 4: Add Storage' page of the AWS Launch Instance Wizard. The URL is [us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard](https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard). The page has tabs at the top: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (which is selected), 5. Add Tags, 6. Configure Security Group, and 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.

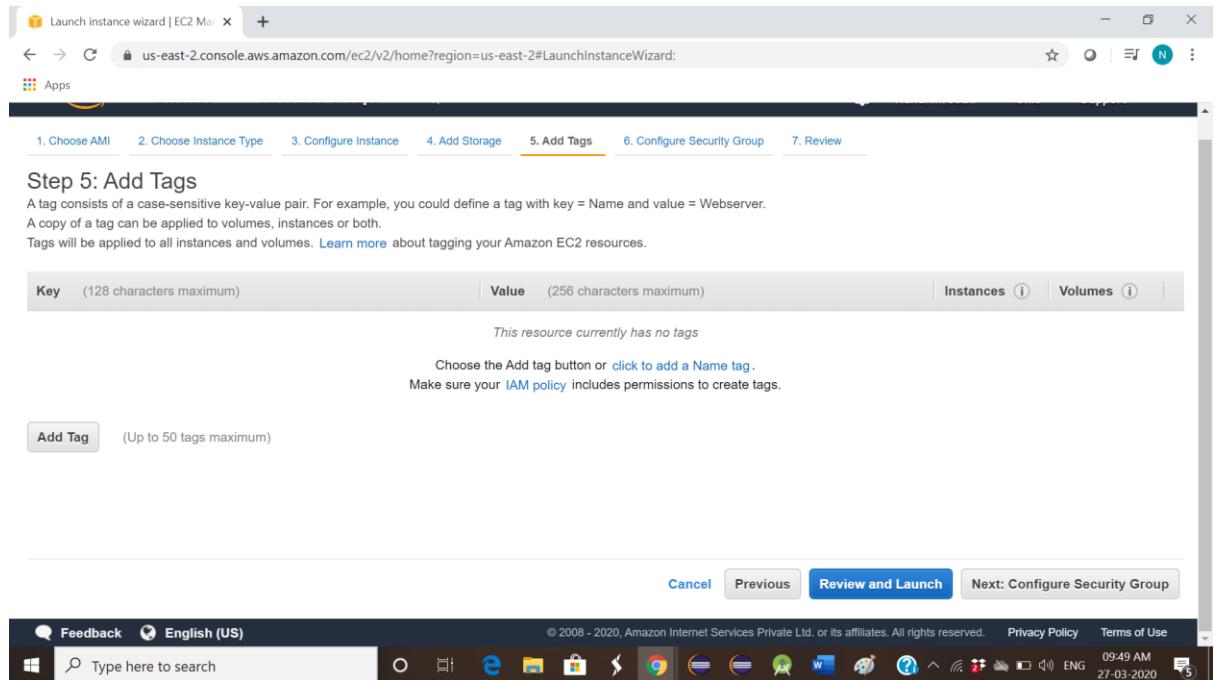
Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-0f54692056aaa4c20	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	<input type="button" value="Not Encrypt"/>

Add New Volume

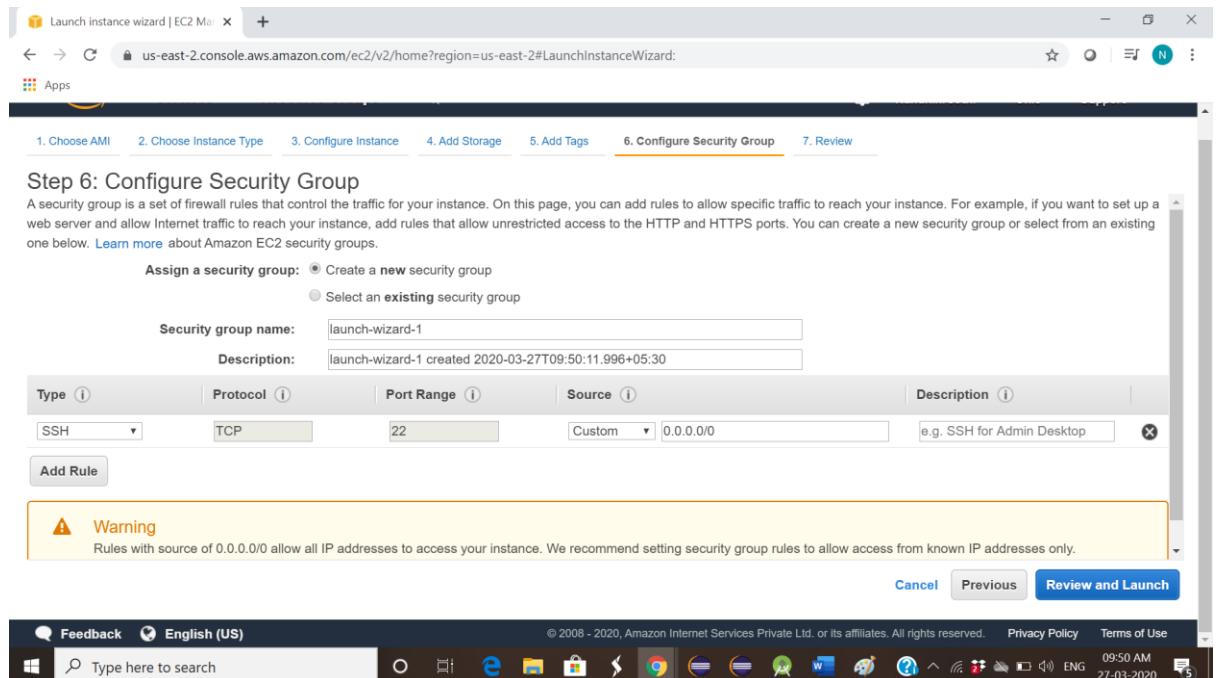
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Buttons at the bottom: Cancel, Previous, **Review and Launch**, Next: Add Tags

Windows taskbar at the bottom: Feedback, English (US), Type here to search, various icons, ENG, 09:48 AM, 27-03-2020.



## 4. Configuring Security Group



Your instances are now launching  
The following instance launches have been initiated: i-0f367ef11a3f8ce3b [View launch log](#)

Get notified of estimated charges  
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances  
Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.  
Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can [connect](#) to them from the Instances screen. [Find out](#) how to connect to your instances.

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## 5. Key Pair Download

Step 7: Review Instance

t2.micro Variable

Security Groups

Security group name: launc...  
Description: launc...

Type: SSH

Instance Details

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: funky-aws-key

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

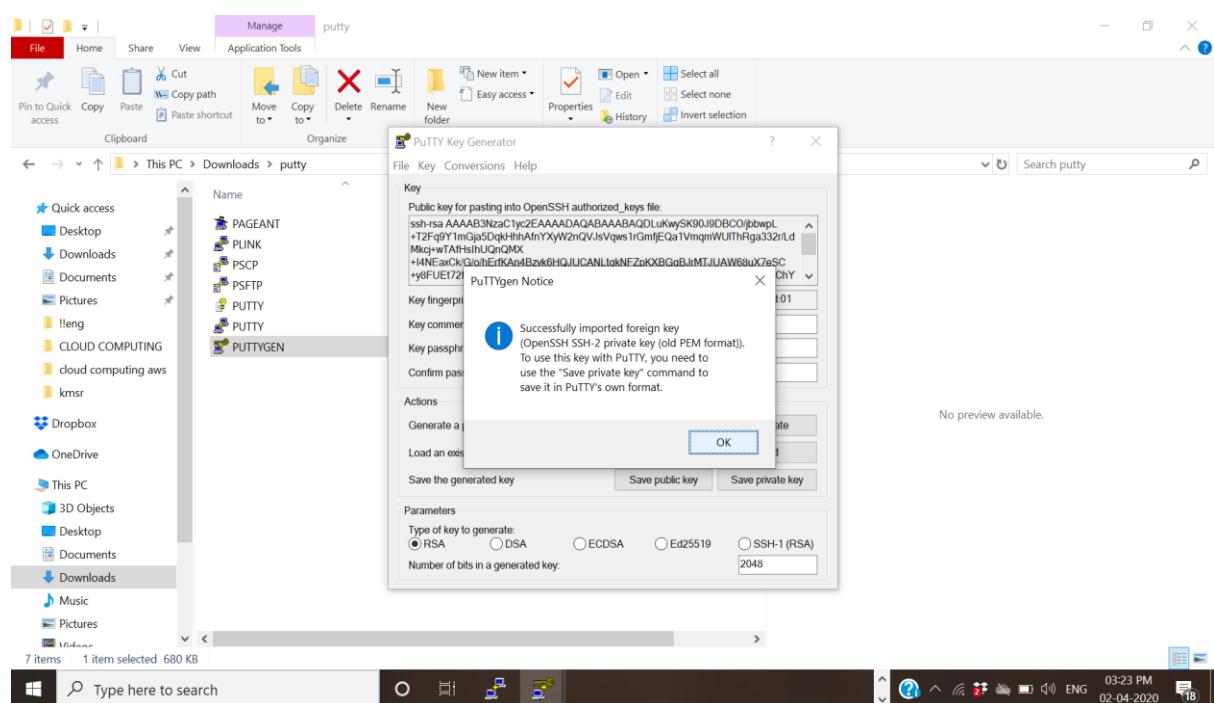
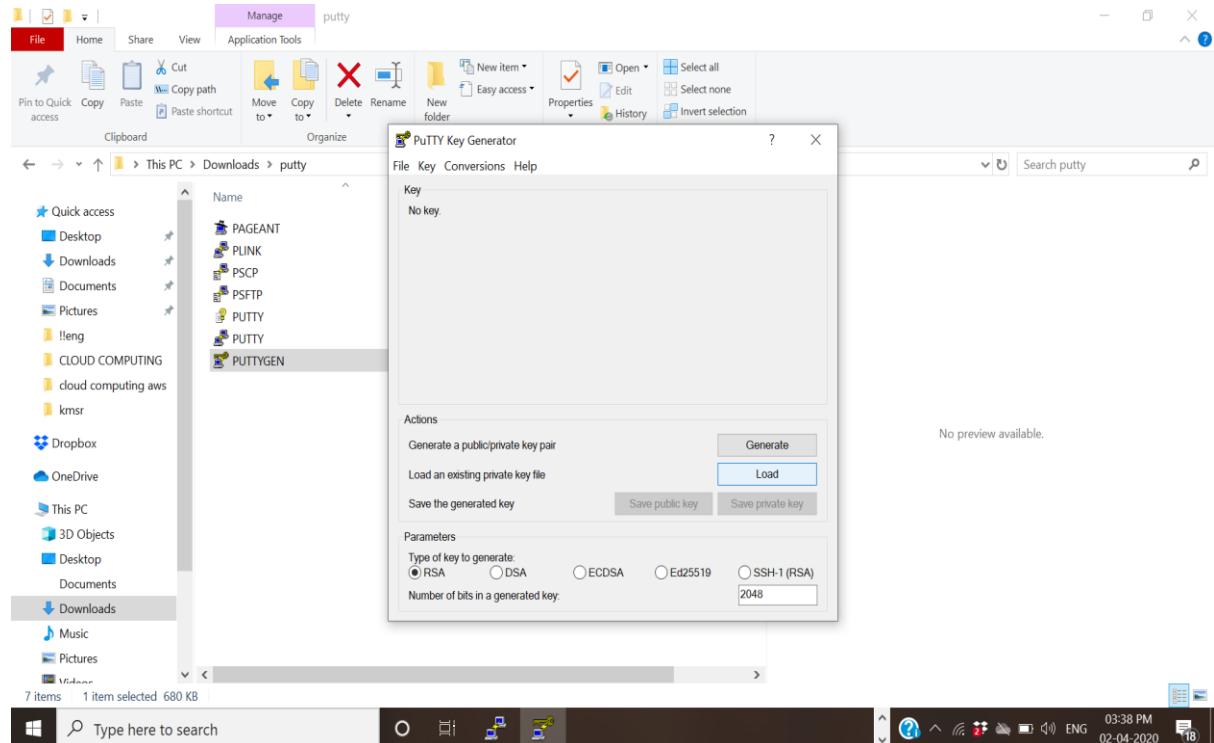
funky-aws-key.pem

Show all

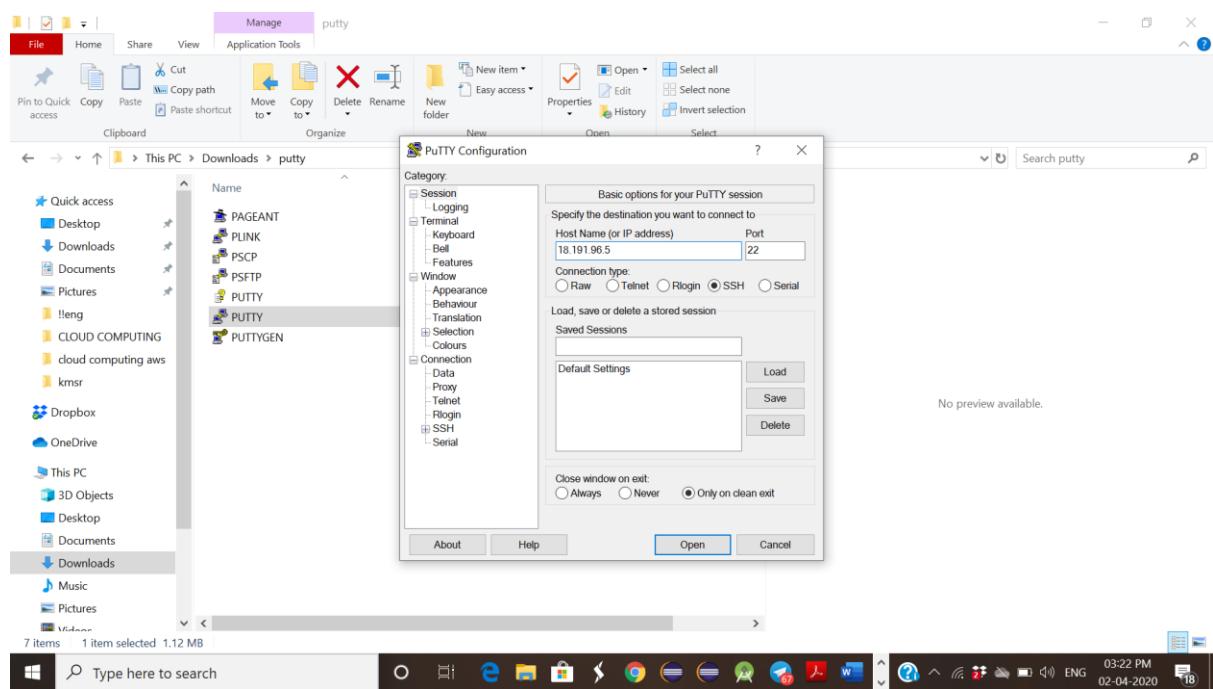
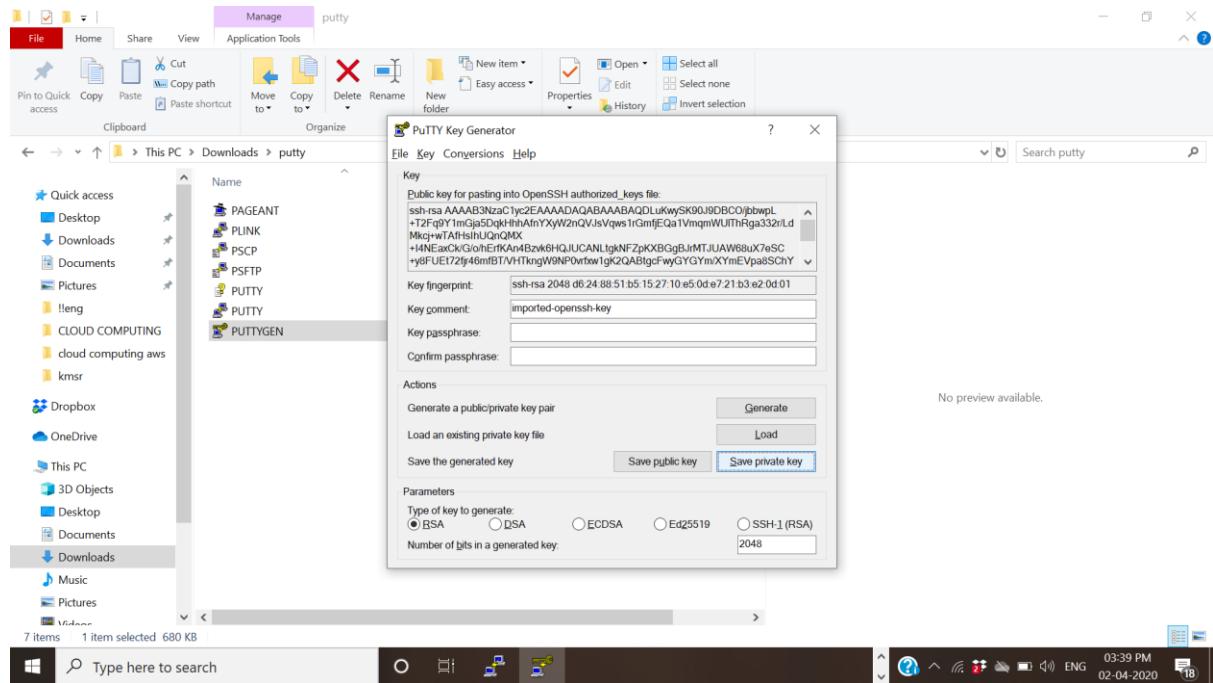
## 6. PuTTYgen conversion from pem to ppk

## Converted from .pem to .ppk file through the Putty key generator

### 1) Load the already available(downloaded) private key.



## 2) Save the private key in the .ppk format.



## 7. Logged in EC2 black screen

```
ec2-user@ip-172-31-47-254:~$  
[ec2-user@ip-172-31-47-254 ~]$
```

Inbound rules control the incoming traffic that's allowed to reach the instance.

Type	Protocol	Port range	Source	Description - optional	Action
HTTP	TCP	80	Custom 0.0.0.0/0		Delete
HTTP	TCP	80	Custom ::/0		Delete
SSH	TCP	22	Custom 0.0.0.0/0		Delete

Add rule

New EC2 Experience  
Tell us what you think  
**EC2 Dashboard** New

Events New  
Tags  
Reports  
Limits

**INSTANCES**  
Instances  
Instance Types  
Launch Templates New  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts New  
Capacity Reservations

Owner 404298379758  
Inbound rules count 3 Permission entries  
Outbound rules count 1 Permission entry

**Inbound rules**

Type	Protocol	Port range	Source	Description - optional
HTTP	TCP	80	0.0.0.0/0	-
HTTP	TCP	80	::/0	-
SSH	TCP	22	0.0.0.0/0	-

Instances | EC2 Management Con... | 7-Day Free Masterclass | Day 0 | 18.191.96.5

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:sort=instanceId

New EC2 Experience  
Tell us what you think

Services Resource Groups

Launch Instance Connect Actions

EC2 Dashboard New

Events New

Tags

Reports

Limits

INSTANCES

Instances

Instance Types

Launch Templates New

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Feedback English (US)

Type here to search

Private IPs: 172.31.47.254

Secondary private IPs: VPC ID: vpc-2a70ba41

Subnet ID: subnet-d64bd89a

Network interfaces: eth0

IAM role: -

Key pair name: funky-aws-key

Owner: 404298379758

Security groups: launch-wizard-1, view inbound rules

Ports	Protocol	Source	Security Group
80	tcp	0.0.0.0/0, ::/0	✓
22	tcp	0.0.0.0/0	✓

Source/dest. check: True

T2/T3 Unlimited: Disabled

EBS-optimized: False

03:49 PM 02-04-2020 18

EC2 Management Console | Not secure | 18.191.96.5

Corona sucks man...

Type here to search

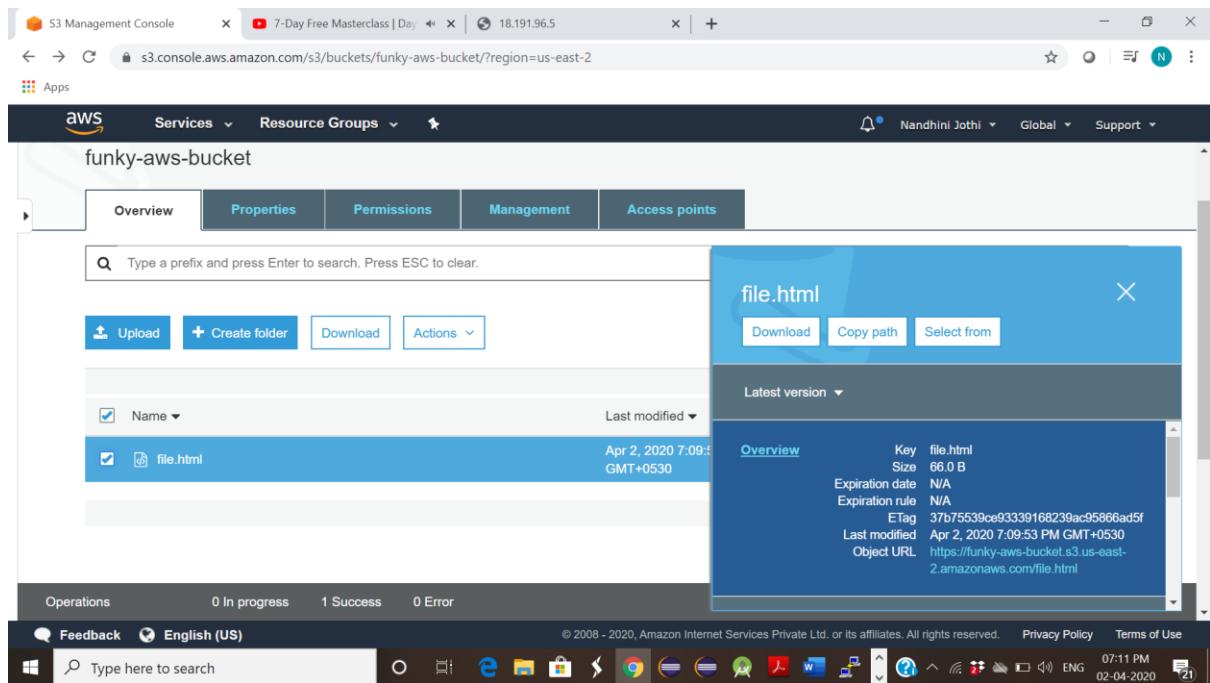
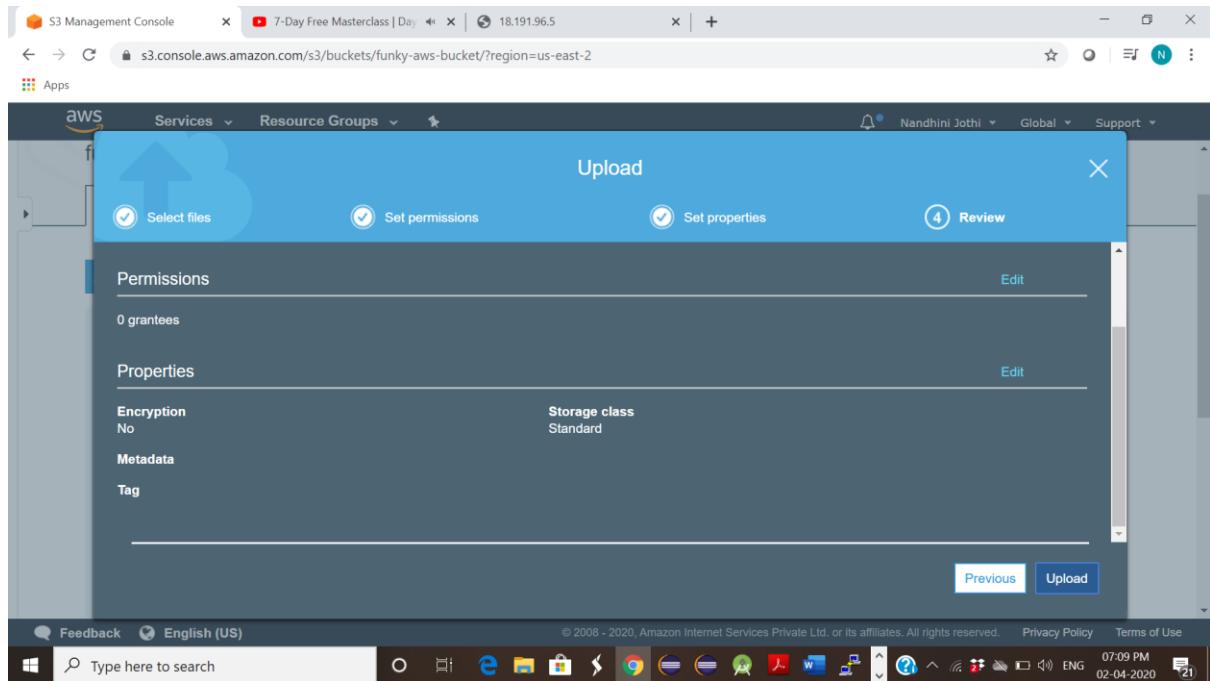
## SCREENSHOTS NEEDED FOR S3

### 1. Creating a bucket

The screenshot shows the 'Create bucket' page in the AWS S3 Management Console. The 'General configuration' section is visible, with the 'Bucket name' field containing 'funky-aws-bucket'. The 'Region' dropdown is set to 'US East (Ohio) us-east-2'. Below this, the 'Bucket settings for Block Public Access' section is partially visible. The browser's address bar shows the URL `s3.console.aws.amazon.com/s3/bucket/create?region=us-east-2`. The taskbar at the bottom of the screen shows various open windows and system icons.

The screenshot shows the 'Amazon S3' home page in the AWS Management Console. A green success message states: 'Successfully created bucket funky-aws-bucket. To upload files and folders, or to configure additional bucket settings such as Bucket Versioning, tags, and default encryption, choose Go to bucket details.' Below this, the 'Buckets' section displays a table with one item: 'funky-aws-bucket' (Name), 'US East (Ohio) us-east-2' (Region), 'Not Public' (Access), and '2020-04-02T13:29:25.000Z' (Bucket created). The browser's address bar shows the URL `s3.console.aws.amazon.com/s3/home?region=us-east-2`. The taskbar at the bottom of the screen shows various open windows and system icons.

## 2. Uploading an Object



### 3. Enabling Static Website

The screenshot shows the AWS S3 Management Console with the 'Static website hosting' tab selected for the 'funky-aws-bucket'. The 'Endpoint' is listed as <http://funky-aws-bucket.s3-website.us-east-2.amazonaws.com>. Under 'Index document', 'file.html' is selected. Under 'Error document', 'error.html' is selected. A section for 'Redirection rules (optional)' is present but empty. On the right, there is a panel for 'Object-level logging' which is currently disabled. The bottom navigation bar shows 'Operations' with 0 In progress, 1 Success, and 0 Error.

The screenshot shows the AWS S3 Management Console with the 'Properties' tab selected for the 'funky-aws-bucket'. The 'Static website hosting' feature is enabled, indicated by a checked checkbox. Other features shown include 'Versioning' (disabled), 'Server access logging' (disabled), and 'Object-level logging' (disabled). The bottom navigation bar shows 'Operations' with 0 In progress, 1 Success, and 0 Error.

## 4. Making the Object Public

The screenshot shows the AWS S3 Management Console interface. The URL in the address bar is `s3.console.aws.amazon.com/s3/buckets/funky-aws-bucket/?region=us-east-2&tab=permissions`. The main navigation bar includes 'Services' (selected), 'Resource Groups', and 'Support'. On the left, the 'funky-aws-bucket' is selected. The top navigation bar for the bucket shows tabs: 'Overview' (selected), 'Properties', 'Permissions', 'Management', and 'Access points'. Below these are buttons for 'Block public access', 'Access Control List', 'Bucket Policy', and 'CORS configuration'. A modal window titled 'Block public access (bucket settings)' is open, containing a single checkbox labeled 'Block all public access'. A note below it states: 'Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.' At the bottom right of the modal are 'Cancel' and 'Save' buttons. The status bar at the bottom indicates 'Operations: 0 In progress, 1 Success, 0 Error'.

This screenshot shows the same AWS S3 Management Console interface as the previous one, but the 'Block all public access' checkbox is now checked. The modal window displays five additional options under the heading 'Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.' These options are: 'Block public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. The 'Save' button at the bottom right of the modal is highlighted. The status bar at the bottom indicates 'Operations: 0 In progress, 1 Success, 0 Error'.

S3 Management Console    403 Forbidden    7-Day Free Masterclass | Day 1    18.191.96.5

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Public access settings updated successfully

Block all public access Off

- Block public access to buckets and objects granted through *new* access control lists (ACLs) Off
- Block public access to buckets and objects granted through *any* access control lists (ACLs) Off
- Block public access to buckets and objects granted through *new* public bucket or access point policies Off
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies Off

Operations 0 In progress 1 Success 0 Error

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This screenshot shows the AWS S3 Management Console interface. A success message 'Public access settings updated successfully' is displayed. Under the 'Block all public access' section, the 'Off' option is selected. Below this, four specific options are listed: 'Block public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. The status for each of these is also 'Off'. At the bottom, the 'Edit' button is visible.

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Apps

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file.html Latest version

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

**Owner** c947a998cede5ec4750bfe91e807be8a839abf56328a9360b7babd449c89ce76

**Last modified** Apr 2, 2020 7:09:53 PM GMT+0530

**Etag** 37b75539ce93339168239ac95866ad5f

**Storage class** Standard

**Server-side encryption** None

**Size** 66.0 B.

Operations 0 In progress 1 Success 0 Error

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This screenshot shows the AWS S3 Management Console displaying file properties for 'file.html'. The 'Properties' tab is selected. The file is owned by 'c947a998cede5ec4750bfe91e807be8a839abf56328a9360b7babd449c89ce76'. It was last modified on Apr 2, 2020 at 7:09:53 PM GMT+0530. The Etag is '37b75539ce93339168239ac95866ad5f'. The storage class is 'Standard'. Server-side encryption is set to 'None'. The size of the file is 66.0 B. At the bottom, there are buttons for 'Open', 'Download', 'Download as', 'Make public', and 'Copy path'.

S3 Management Console    403 Forbidden    7-Day Free Masterclass | Day 1    18.191.96.5

Apps

aws Services Resource Groups Nandini Jothi Global Support

file.html Latest version

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

**Owner** c947a998cede5ec4750bfe91e807be8a839abf56328a9360b7babd449c89ce76

**Last modified** Apr 2, 2020 7:09:53 PM GMT+0530

**Etag** 37b75539ce93339168239ac95866ad5f

**Storage class** Standard

**Upload** View details 100% Successful

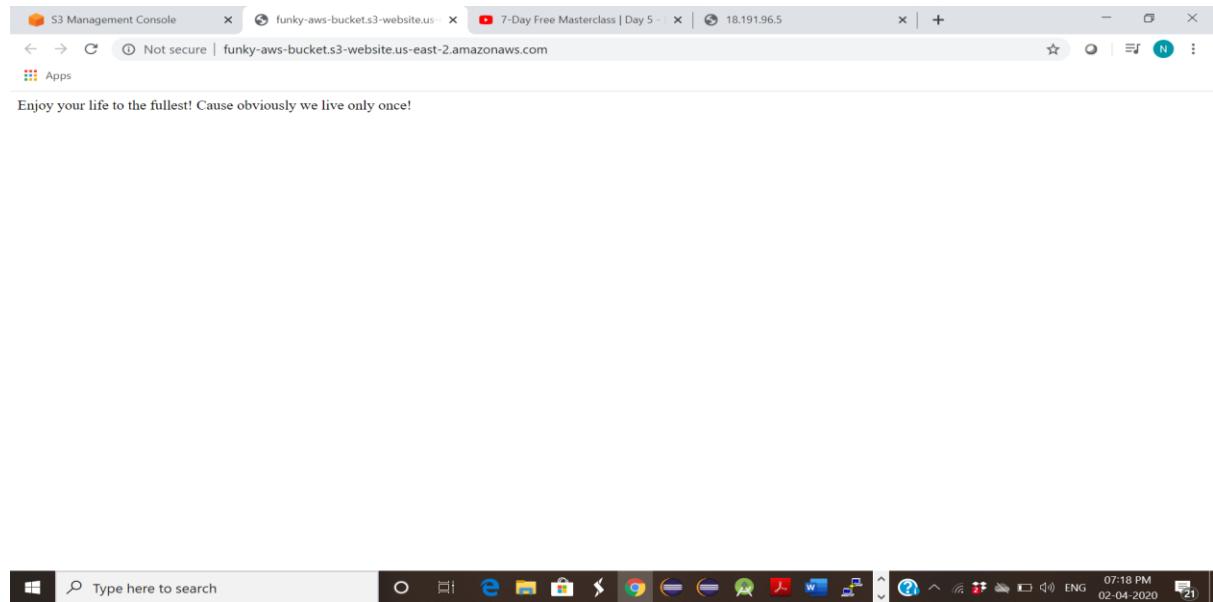
**Make public** View details 100% Successful

Operations 0 In progress 2 Success 0 Error

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This screenshot shows the AWS S3 Management Console after performing two actions: 'Upload' and 'Make public'. Both operations are shown as 100% successful. The 'Upload' operation was performed 'View details' and the 'Make public' operation was also performed 'View details'. The 'Properties' tab is selected, showing the file's properties: owner (c947a998cede5ec4750bfe91e807be8a839abf56328a9360b7babd449c89ce76), last modified (Apr 2, 2020 7:09:53 PM GMT+0530), etag (37b75539ce93339168239ac95866ad5f), and storage class (Standard). At the bottom, the 'Upload' and 'Make public' buttons are shown again with their respective success messages.

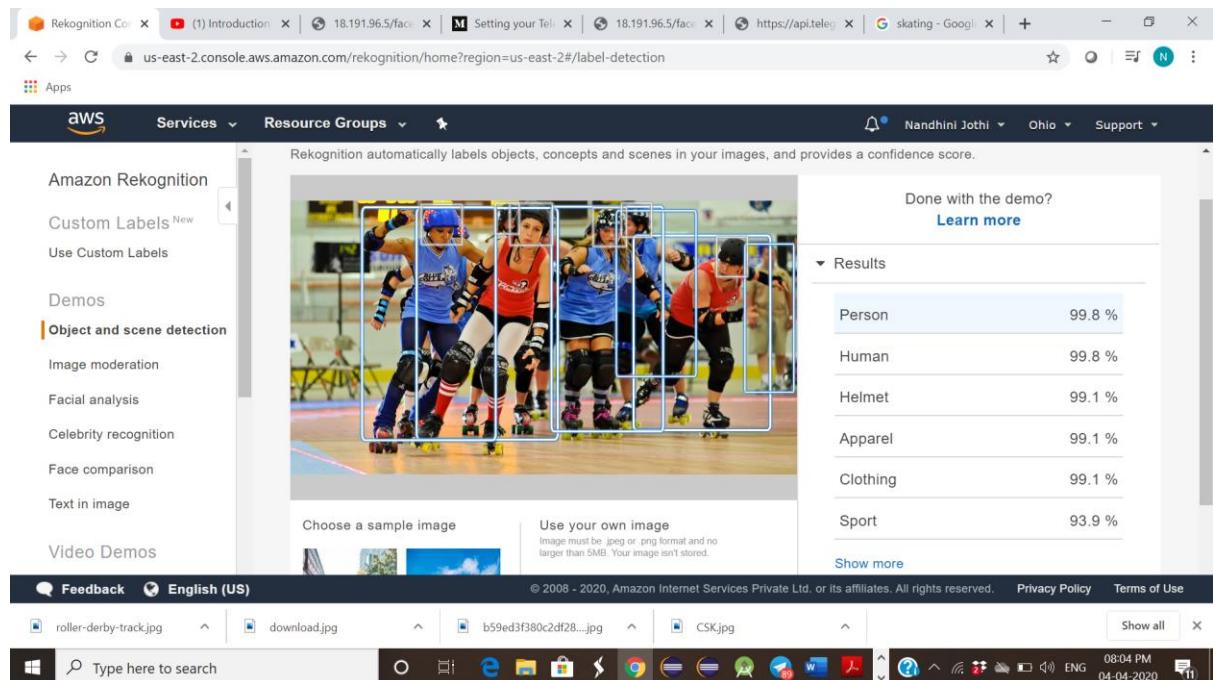
## 5. Checking the S3 link on the browser



### STATIC WEBSITE LINK:

<http://funky-aws-bucket.s3-website.us-east-2.amazonaws.com/>

### SCREENSHOTS NEEDED FOR REKOGNITION



## 1. Face Detect

The screenshot shows the AWS Rekognition console's Face Detection interface. On the left, a sidebar lists various services like Custom Labels, Demos, Facial analysis (selected), and Face comparison. The main area displays a portrait of A.P.J. Abdul Kalam with a blue bounding box around his face. Below the image are options to "Choose a sample image" or "Use your own image" with an "Upload" button. To the right, the "Results" panel lists the following attributes and their confidence levels:

Attribute	Confidence (%)
looks like a face	100 %
appears to be male	79.6 %
age range	45 - 63 years old
smiling	99.8 %
appears to be happy	98.4 %
not wearing glasses	52.8 %

## 2. Face Compare

The screenshot shows the AWS Rekognition console's Face Comparison interface. The sidebar includes options like Custom Labels, Demos, Facial analysis (selected), and Face comparison. The main area features two images for comparison: a reference face (Vijay in a red shirt) and a comparison face (Vijay in a black shirt). Below the images are "Choose a sample image" buttons. To the right, the "Results" panel displays the comparison outcome:

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

Similarity
98.8 %

Request Response

### 3. Celebrity Recognition

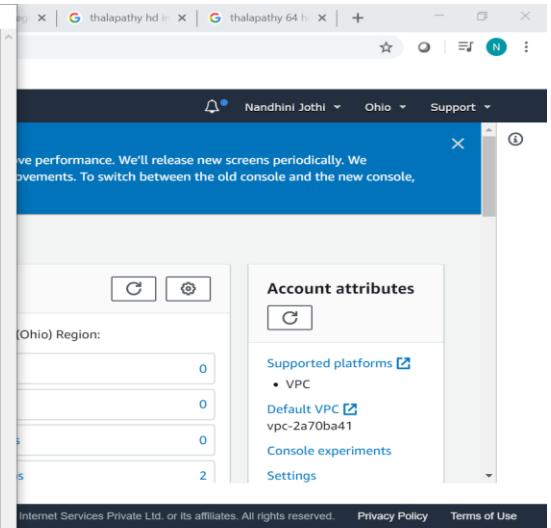
The screenshot shows the AWS Rekognition console under the 'Celebrity recognition' tab. On the left sidebar, 'Celebrity recognition' is selected. In the main area, a photo of two men is displayed with a blue bounding box around the man on the left, identified as 'Vijay Sethupathi'. The confidence score is 100%. Below the image, there are sections for 'Request' and 'Response'.

### 4. Text in Image

The screenshot shows the AWS Rekognition console under the 'Text in image' tab. On the left sidebar, 'Text in image' is selected. A photo of a man with a mustache is shown with several lines of text overlaid on it, including 'MASTER', 'B', '1LAATIEY', 'VUAY', 'MAEXAL', 'STEVAN', 'VUJAY', 'SETHUPATHI', 'MASTE', 'WAITTEN', 'DIRECTED', 'Y', 'LOKESH', 'XAMAGARA', 'ANIREDE', 'MUSICAL', 'SCONAN', 'LATHE', 'SNH', 'CIKUMCALA', 'LeLS', 'AADISH', 'ut', 'ARITTO', and 'APRIL'. The confidence score is 202.

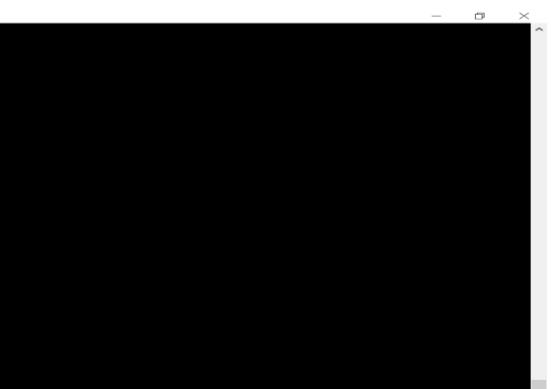
## SCREENSHOTS NEEDED FOR EC2 & S3

### 1. Installing aws-sdk



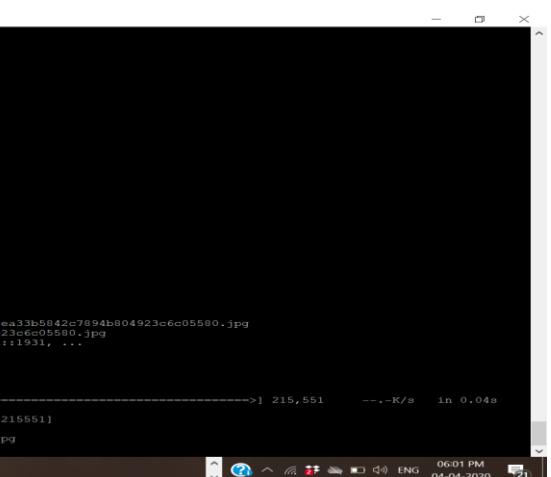
A screenshot of an AWS Lambda function configuration page. On the right, there's a sidebar titled "Account attributes" with sections for "(Ohio) Region", "Supported platforms" (VPC), "Default VPC" (vpc-2a70ba41), "Console experiments", and "Settings". The main area shows the function's code and configuration.

```
ec2-user@ip-172-31-47-254:~/var/www/html/face
$ login as: ee2-user
Authenticating with public key "imported-openssh-key"
Last login: Sat Apr 4 13:49:56 2020 from 106.197.184.37
[ee2-user@ip-172-31-47-254 ~]$ cd /var/www/html/face
[ee2-user@ip-172-31-47-254 face]$ sudo vim index.php
[ee2-user@ip-172-31-47-254 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^3.134 for aws/aws-sdk-php
Even composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Generating autoload files
Rep 1 package you are using is looking for funding.
Use the 'composer fund' command to find out more!
[ee2-user@ip-172-31-47-254 face]$ [REDACTED]
```



A screenshot of an AWS Lambda function configuration page. On the right, there's a sidebar titled "Account attributes" with sections for "(Ohio) Region", "Supported platforms" (VPC), "Default VPC" (vpc-2a70ba41), "Console experiments", and "Settings". The main area shows the function's code and configuration.

```
ec2-user@ip-172-31-47-254:~/var/www/html/face
$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
The installation directory "/var/www/html/face" is not writable
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
total 4
drwxr-x 2 root root 49 Apr  4 12:15 face
rw-r--r-- 1 root root 20 Mar 27 12:51 index.html
[ee2-user@ip-172-31-47-254 face]$ sudo chmod 775 ./index.html
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
total 4
drwxr-x 2 root root 49 Apr  4 12:15 face
rw-r--r-- 1 root root 20 Mar 27 12:51 index.html
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
The installation directory "/var/www/html/face" is not writable
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
downloading...
Composer (version 1.10.1) successfully installed to: /var/www/html/face/composer.phar
Use it: php composer.phar
[ee2-user@ip-172-31-47-254 face]$ cd /var/www/html
[ee2-user@ip-172-31-47-254 html]$ sudo mkdir face
[ee2-user@ip-172-31-47-254 html]$ cd face
[ee2-user@ip-172-31-47-254 html]$ sudo composer create-project aws/aws-sdk-php face
[ee2-user@ip-172-31-47-254 face]$ cd face
[ee2-user@ip-172-31-47-254 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^3.134 for aws/aws-sdk-php
composer.json has been created
```



A screenshot of an AWS Lambda function configuration page. On the right, there's a sidebar titled "Account attributes" with sections for "(Ohio) Region", "Supported platforms" (VPC), "Default VPC" (vpc-2a70ba41), "Console experiments", and "Settings". The main area shows the function's code and configuration.

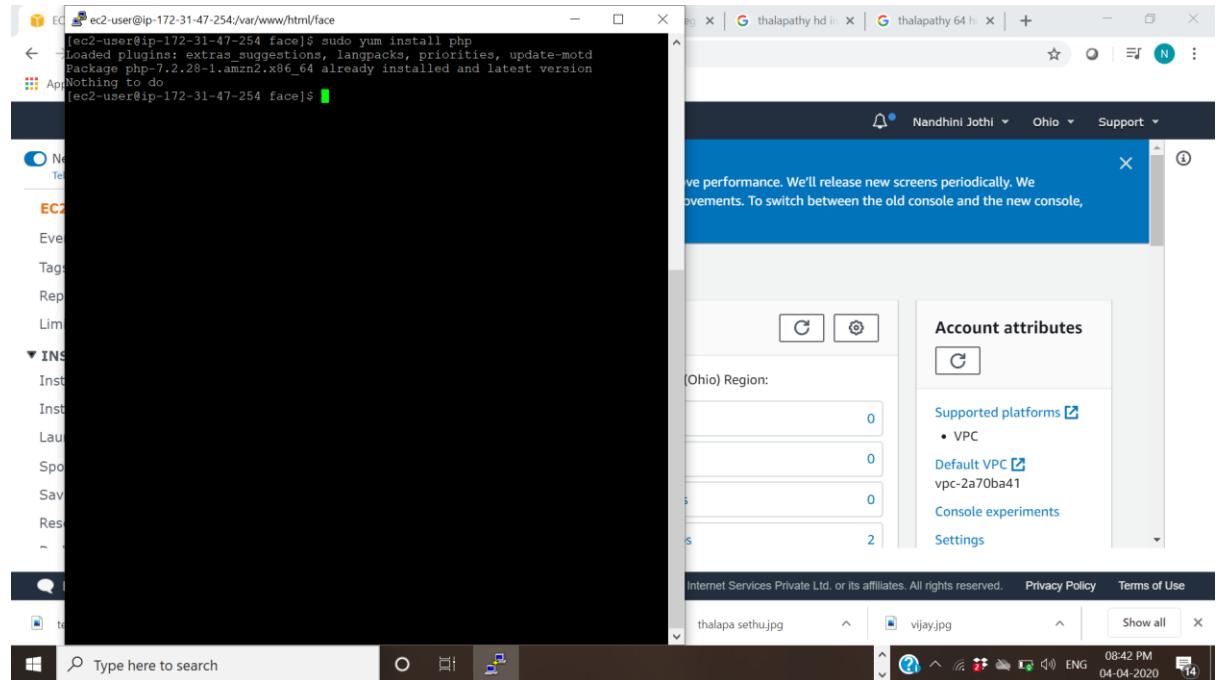
```
ec2-user@ip-172-31-47-254:~/var/www/html/face
$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
The installation directory "/var/www/html/face" is not writable
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
total 4
drwxr-x 2 root root 49 Apr  4 12:15 face
rw-r--r-- 1 root root 20 Mar 27 12:51 index.html
[ee2-user@ip-172-31-47-254 face]$ sudo chmod 775 ./index.html
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
total 4
drwxr-x 2 root root 49 Apr  4 12:15 face
rw-r--r-- 1 root root 20 Mar 27 12:51 index.html
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
The installation directory "/var/www/html/face" is not writable
[ee2-user@ip-172-31-47-254 face]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
downloading...
Composer (version 1.10.1) successfully installed to: /var/www/html/face/composer.phar
Use it: php composer.phar
[ee2-user@ip-172-31-47-254 face]$ cd /var/www/html
[ee2-user@ip-172-31-47-254 html]$ sudo mkdir face
[ee2-user@ip-172-31-47-254 html]$ cd face
[ee2-user@ip-172-31-47-254 html]$ sudo composer create-project aws/aws-sdk-php face
[ee2-user@ip-172-31-47-254 face]$ cd face
[ee2-user@ip-172-31-47-254 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^3.134 for aws/aws-sdk-php
composer.json has been created
```

Generating autoload files
1 package you are using is looking for funding.
Use the 'composer fund' command to find out more!

```
[ee2-user@ip-172-31-47-254 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
2020-04-04 12:30:06 -> https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-04-04 12:30:06 -> https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Connecting to i.pinimg.com (i.pinimg.com)|104.16.14.176|:2600:1408:20:a9at:1931... connected.
HTTP request sent, awaiting response... 200 OK
Length: 21551 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

100%[=] 215,551 --.-K/s in 0.04s
2020-04-04 12:30:06 (5.86 MB/s) -> b97ea33b5842c7894b804923c6c05580.jpg saved [21551/21551]
[ee2-user@ip-172-31-47-254 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
[ee2-user@ip-172-31-47-254 face]$ sudo vim index.php
```

## 2. Installing php



```
ec2-user@ip-172-31-47-254:~$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package php-7.2.28-1.amzn2.x86_64 already installed and latest version
Nothing to do
ec2-user@ip-172-31-47-254:~$
```

```
(2/4): php-7.2.28-1.amzn2.x86_64.rpm | 2.9 MB 00:00
(3/4): php-json-7.2.28-1.amzn2.x86_64.rpm | 71 kB 00:00
(4/4): php-common-7.2.28-1.amzn2.x86_64.rpm | 1.1 MB 00:00
Total 24 MB/s | 8.4 MB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : php-common-7.2.28-1.amzn2.x86_64 1/4
  Installing : php-json-7.2.28-1.amzn2.x86_64 2/4
  Installing : php-cli-7.2.28-1.amzn2.x86_64 3/4
  Installing : php-7.2.28-1.amzn2.x86_64 4/4
  Verifying : php-cli-7.2.28-1.amzn2.x86_64 1/4
  Verifying : php-json-7.2.28-1.amzn2.x86_64 2/4
  Verifying : php-common-7.2.28-1.amzn2.x86_64 3/4
  Verifying : php-7.2.28-1.amzn2.x86_64 4/4
Installed:
  php.x86_64 0:7.2.28-1.amzn2
Dependency Installed:
  php-cli.x86_64 0:7.2.28-1.amzn2      php-common.x86_64 0:7.2.28-1.amzn2
  php-json.x86_64 0:7.2.28-1.amzn2
Complete!
[ec2-user@ip-172-31-47-254:~]$ curl -sS https://getcomposer.org/installer | p
hp
All settings correct for using Composer
The installation directory "/var/www/html/face" is not writable
[ec2-user@ip-172-31-47-254:~]$ sudo yum remove php*
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package php.x86_64 0:7.2.28-1.amzn2 will be erased
--> Package php-cli.x86_64 0:7.2.28-1.amzn2 will be erased
--> Package php-common.x86_64 0:7.2.28-1.amzn2 will be erased
--> Package php-json.x86_64 0:7.2.28-1.amzn2 will be erased
--> Finished Dependency Resolution

Dependencies Resolved

Package          Arch      Version       Repository      Size
[ec2-user@ip-172-31-47-254:~]$
```

### 3. index.php file code

The screenshot shows the AWS Lambda function editor interface. On the left, there is a code editor window containing PHP code for face detection. On the right, there is a sidebar titled "Account attributes" which lists various AWS services and their configurations.

```
EC2 ec2-user@ip-172-31-47-254:~/var/www/html/face
[ec2-user@ip-172-31-47-254 face]$ sudo amazon-linux-extras install php7.2
[ec2-user@ip-172-31-47-254 face]$ sudo yum install php-json php-xml php-cli php-mbstring sudo yum install httpd
[ec2-user@ip-172-31-47-254 face]$ cd /var/www/html/
[ec2-user@ip-172-31-47-254 face]$ nano index.php
-----[index.php code]-----
-----[Lambda function configuration]-----
[ec2-user@ip-172-31-47-254 face]$ ./index.php
[ec2-user@ip-172-31-47-254 face]$
```

### 4. Upload success screenshot

The screenshot shows the AWS Lambda function editor interface. On the left, there is a code editor window containing PHP code for face detection. On the right, there is a sidebar titled "Account attributes" which lists various AWS services and their configurations.

```
EC2 ec2-user@ip-172-31-47-254:~/var/www/html/face
[ec2-user@ip-172-31-47-254 face]$ sudo yum install php
[ec2-user@ip-172-31-47-254 face]$ sudo vim index.php
[ec2-user@ip-172-31-47-254 face]$ sudo php index.php
[ec2-user@ip-172-31-47-254 face]$ Image upload done.. Here is the URL: https://funky-aws-bucket.s3.us-east-2.amazonaws.com/s1.jpgtotally there are 2 faces[ec2-user@ip-172-31-47-254 face]$
```

S3 Manager 7-Day Free 7-Day Free Online Doc thalapath 4866098 thandora Basic SSH The chm N Apps

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

aws Services Resource Groups Overview Properties Permissions Management Access points Nandini Jothi Global Support

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

Upload Create folder Download Actions US East (Ohio)

Name	Last modified	Size	Storage class
file.html	Apr 2, 2020 6:09:53 PM GMT+0530	66.0 B	Standard
s.jpg	Apr 4, 2020 6:27:35 PM GMT+0530	210.5 KB	Standard
s1.jpg	Apr 4, 2020 6:38:40 PM GMT+0530	96.8 KB	Standard

Viewing 1 to 3

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index2.docx index2.pdf Show all

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s1.jpg (10) 7-Day Free 7-Day Free Online Doc thalapath 4866098 thandora Basic SSH The chm N Apps

funky-aws-bucket.s3.us-east-2.amazonaws.com/s1.jpg N

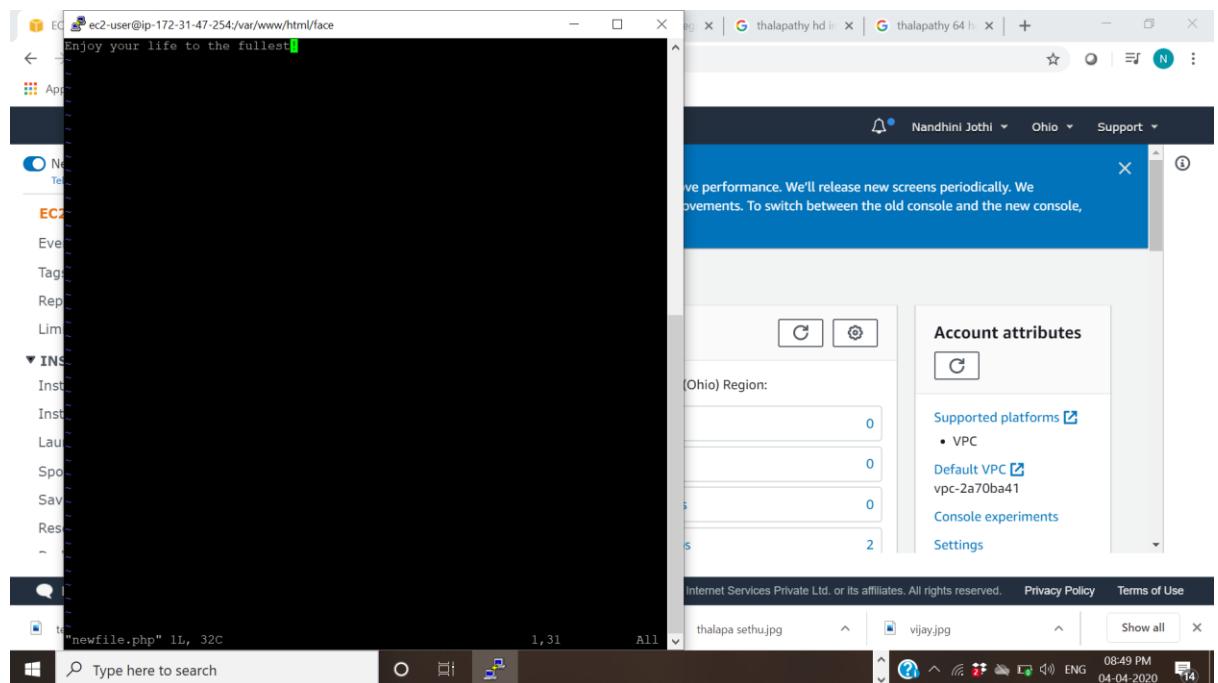
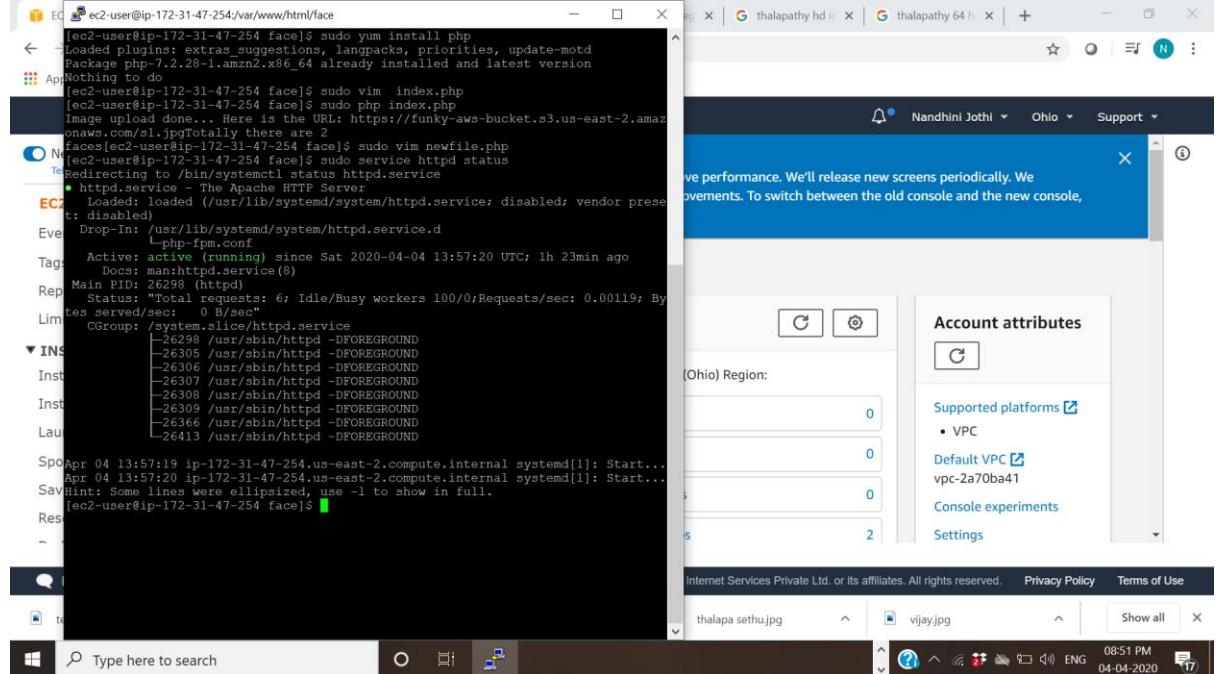


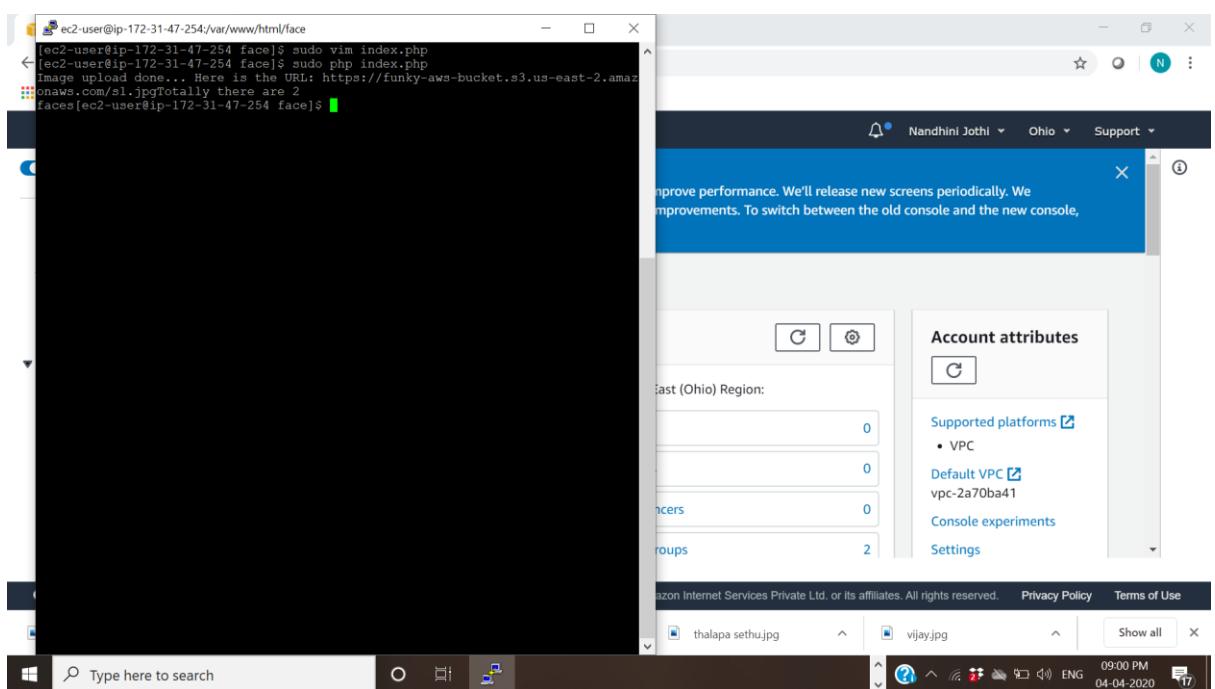
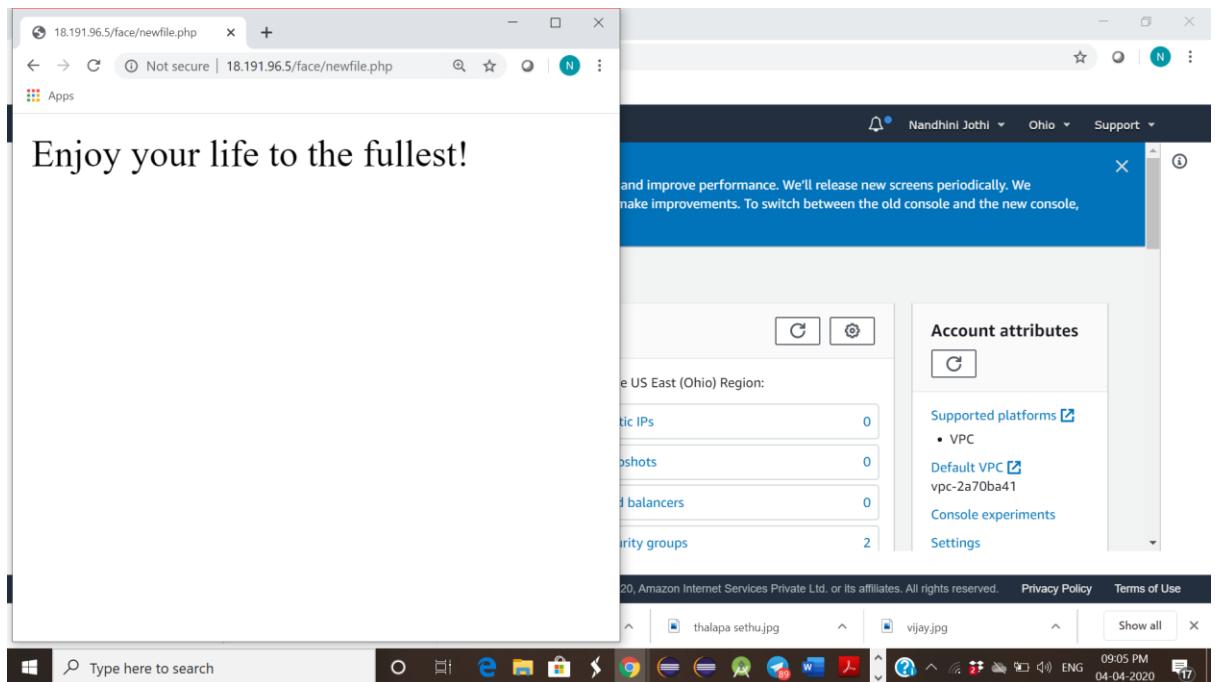
index2.docx index2.pdf Show all

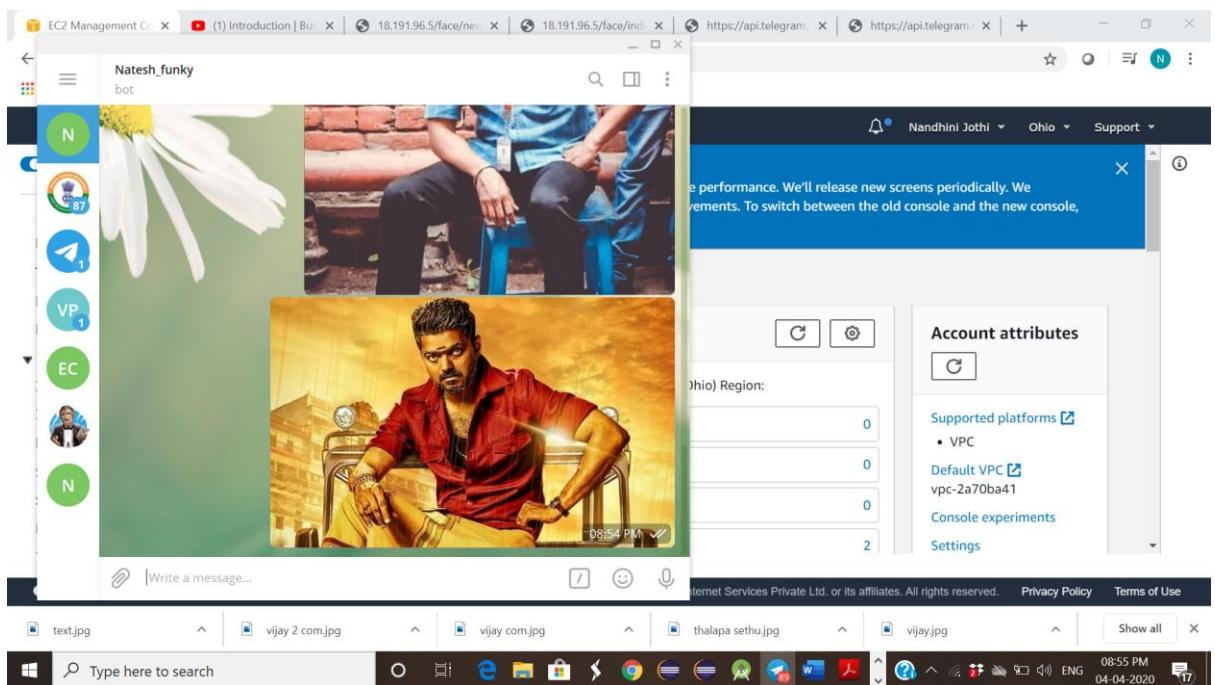
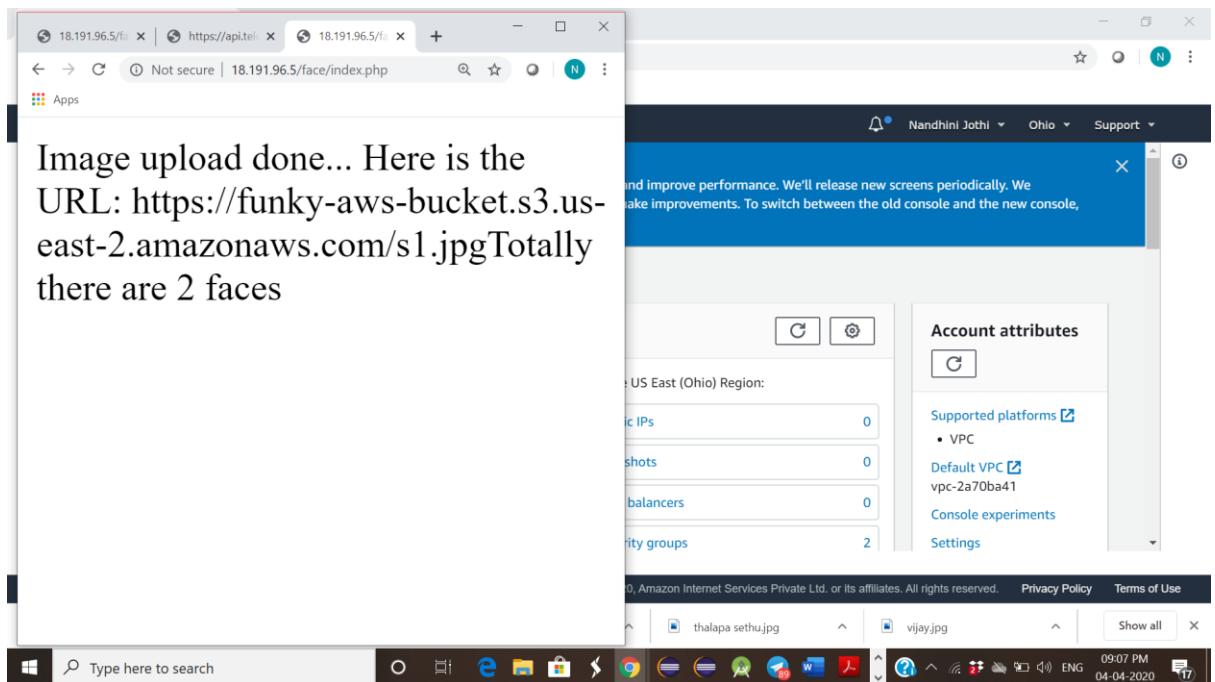
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## SCREENSHOTS NEEDED FOR EC2 & REKOGNITION

### 1. Face Detect success screenshot







**Thanks for guiding sir!**