

ETHNUS CODEMITHRA

FACE DETECTION

S.ANUPADMA

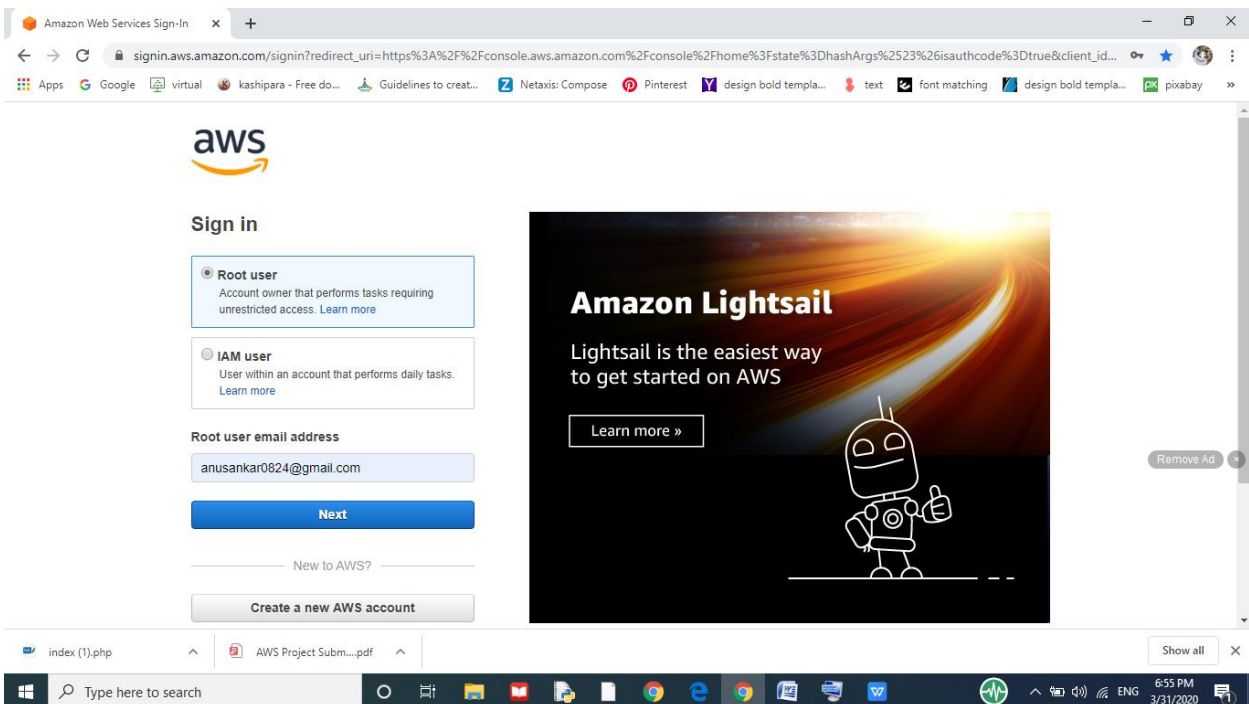
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VIT

M.Tech Software Engineering

AWS

1. AWS Login screen with username



2. EC2 Dashboard

The screenshot shows the AWS EC2 Management Console. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), and IMAGES (AMIs). The main content area displays a welcome message and a table of resources in the US East (Ohio) Region. The resources table includes Running instances (0), Elastic IPs (0), Dedicated Hosts (0), Snapshots (0), Volumes (0), Load balancers (0), Key pairs (1), Security groups (3), and Placement groups (0). The right sidebar shows account attributes like Supported platforms (VPC) and Default VPC (vpc-1a845171). The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

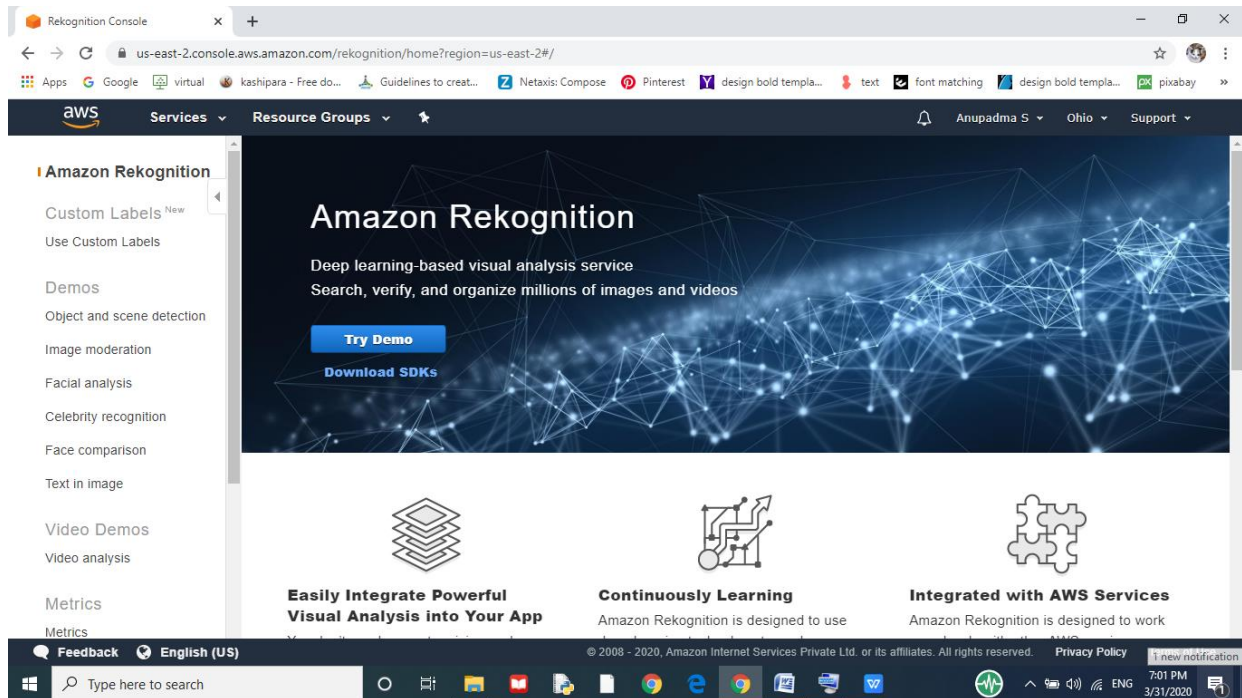
Resources	
Running instances	0
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	0
Load balancers	0
Key pairs	1
Security groups	3
Placement groups	0

3. S3 Dashboard

The screenshot shows the AWS S3 Management Console. The left sidebar contains navigation links for Amazon S3, Buckets, Batch operations, Access analyzer for S3, Block public access (account settings), and Feature spotlight. The main content area displays a message about the console update and a table of buckets in the US East (Ohio) Region. The buckets table includes a search bar and a table with columns for Name, Region, Access, and Bucket created. The table shows one bucket named aws-face-bucker1.

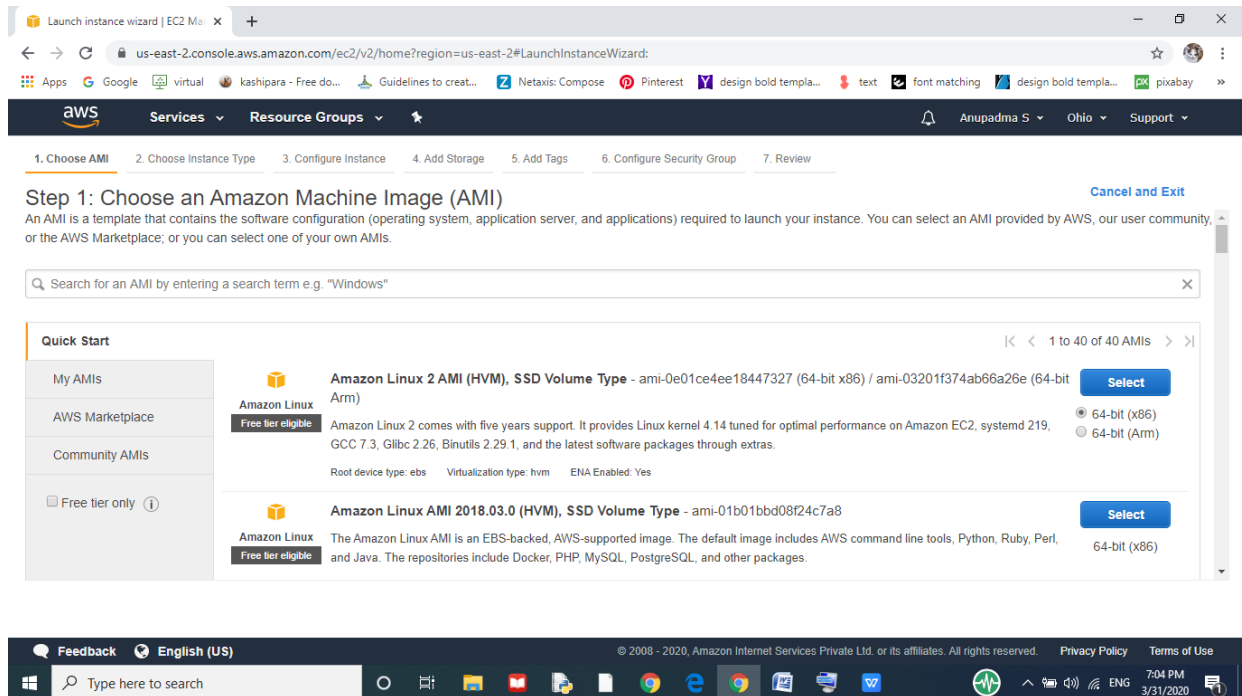
Buckets (1)			
Name	Region	Access	Bucket created
aws-face-bucker1	US East (Ohio) us-east-2	Objects can be public	2020-03-27T15:45:50.000Z

4. Rekognition Dashboard



EC2

1. AMI



2. Instance Type

The screenshot shows the AWS Launch Instance Wizard at Step 2: Choose an Instance Type. The breadcrumb trail at the top indicates the steps: 1. Choose AMI, 2. Choose Instance Type (current), 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. Below the breadcrumb, a paragraph explains that Amazon EC2 provides a wide selection of instance types optimized for different use cases, with varying combinations of CPU, memory, storage, and networking capacity. A link to 'Learn more' is provided. Below the text, there are filters: 'All Instance types' (selected), 'Current generation' (selected), and a 'Show/Hide Columns' link. A table lists several instance types, with 't2.micro' selected and highlighted in blue. The table columns are: Family, Type, vCPUs, Memory (GiB), Instance Storage (GB), EBS-Optimized Available, Network Performance, and IPv6 Support. The 't2.micro' row shows 1 vCPU, 1 GiB memory, and EBS only storage. Below the table are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Configure Instance Details'. At the bottom, there is a footer with 'Feedback', 'English (US)', copyright information, and links to 'Privacy Policy' and 'Terms of Use'. The Windows taskbar at the very bottom shows the search bar and several application icons.

Launch instance wizard | EC2 Ma x

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

Services Resource Groups

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
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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Type here to search

3. Storage

The screenshot shows the AWS Launch Instance Wizard at Step 4: Add Storage. The breadcrumb trail at the top indicates the steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (current), 5. Add Tags, 6. Configure Security Group, and 7. Review. Below the breadcrumb, a paragraph explains that the instance will be launched with the following storage device settings. It states that additional EBS volumes and instance store volumes can be attached to the instance, and that additional EBS volumes can be attached after launching an instance, but not instance store volumes. A link to 'Learn more' is provided. Below the text, there is a table with columns: Volume Type, Device, Snapshot, Size (GiB), Volume Type, IOPS, Throughput (MB/s), Delete on Termination, and Encryption. The table has one row for the 'Root' volume, which is a 'General Purpose SSD (gp2)' with a size of 8 GiB, 100 / 3000 IOPS, and N/A throughput. The 'Delete on Termination' checkbox is checked, and the 'Encryption' dropdown is set to 'Not Encrypt'. Below the table is a button for 'Add New Volume'. A blue box contains a 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.' At the bottom, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Tags'. The footer and Windows taskbar are identical to the previous screenshot.

Launch instance wizard | EC2 Ma x

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

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 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"/>	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

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Type here to search

4. Security Group

The screenshot shows the AWS Launch Instance Wizard at Step 6: Configure Security Group. The wizard is for an EC2 instance in the us-east-2 region. The steps are: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 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-4
Description: launch-wizard-4 created 2020-04-02T19:28:44.173+05:30

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

The screenshot shows the AWS Launch Instance Wizard at Step 7: Review Instance Launch. The wizard is for an EC2 instance in the us-east-2 region. The steps are: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review.

Step 7: Review Instance Launch

Security Groups
Security group name: launch-wizard-4
Description: launch-wizard-4

Instance Details
Type: SSH
Protocol: TCP
Port Range: 22
Source: Custom 0.0.0.0/0
Description: e.g. SSH for Admin Desktop

Storage
Type: EBS
Volume type: gp2
Size: 8 GB
IOPS: 300
Throughput: 125 MB/s

Tags
Key: Name
Value: launch-wizard-4

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.

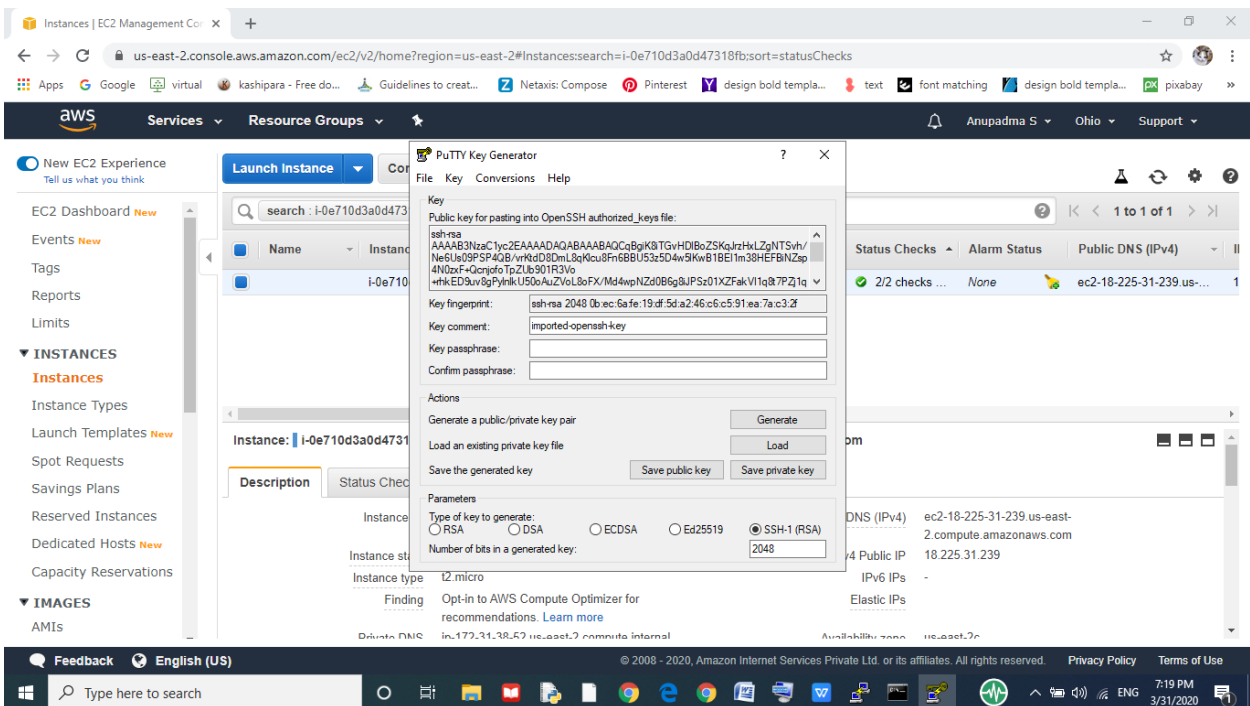
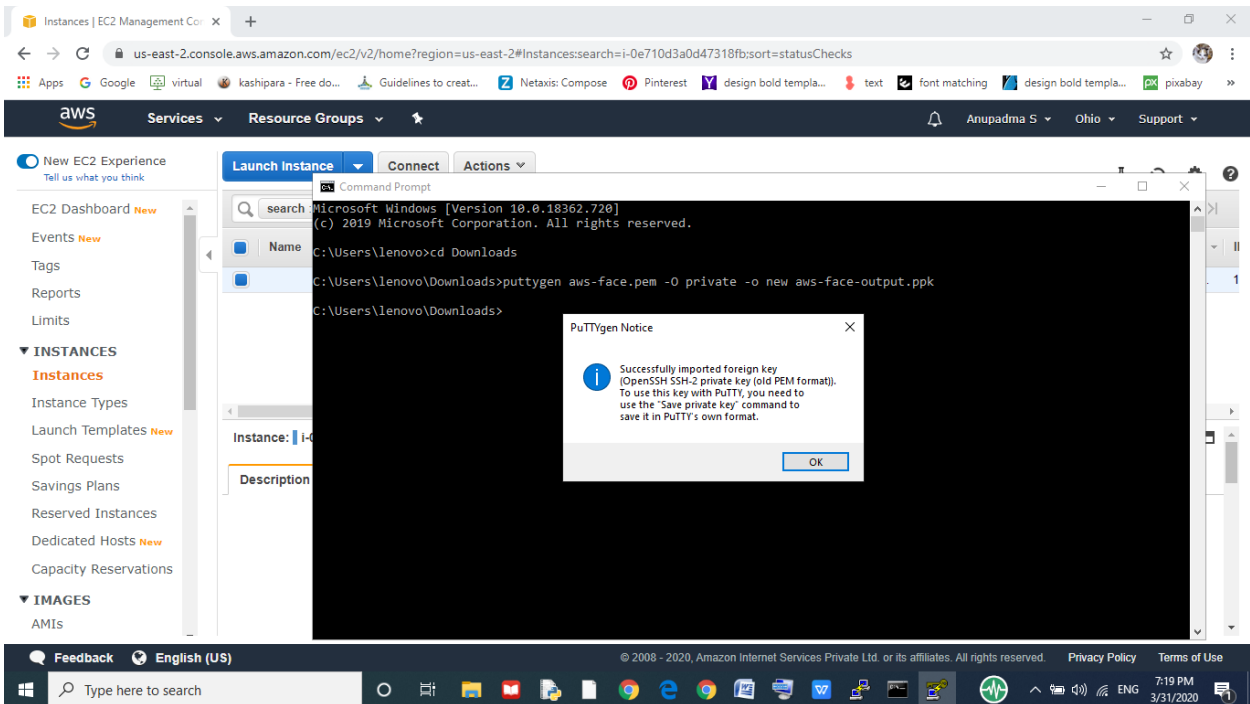
Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

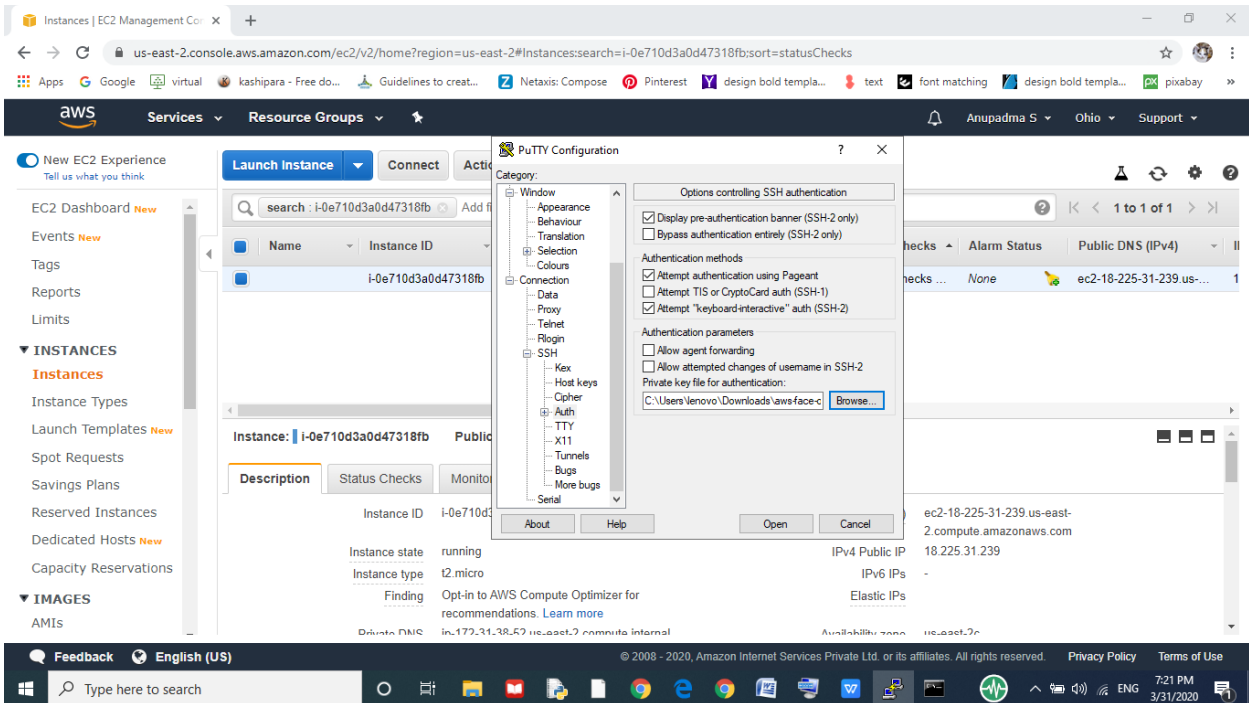
Choose an existing key pair
Select a key pair
aws-face

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

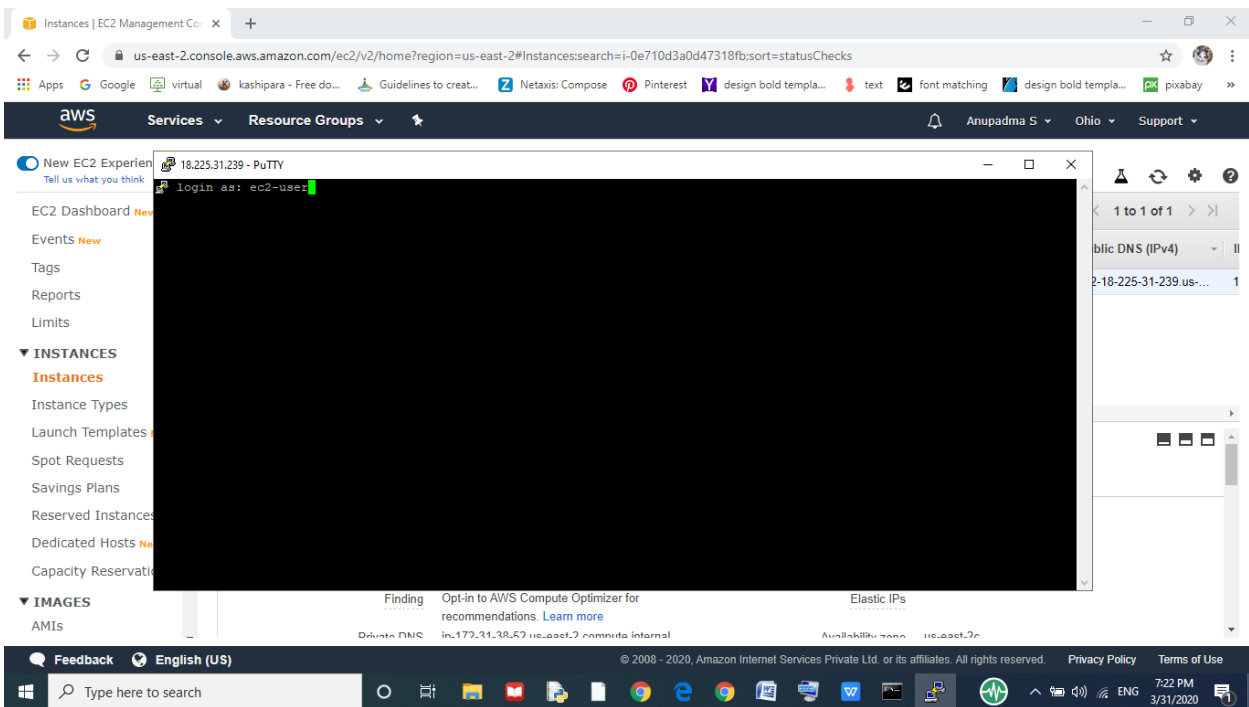
Cancel Launch Instances

6. PuTTYgen conversion from pem to ppk



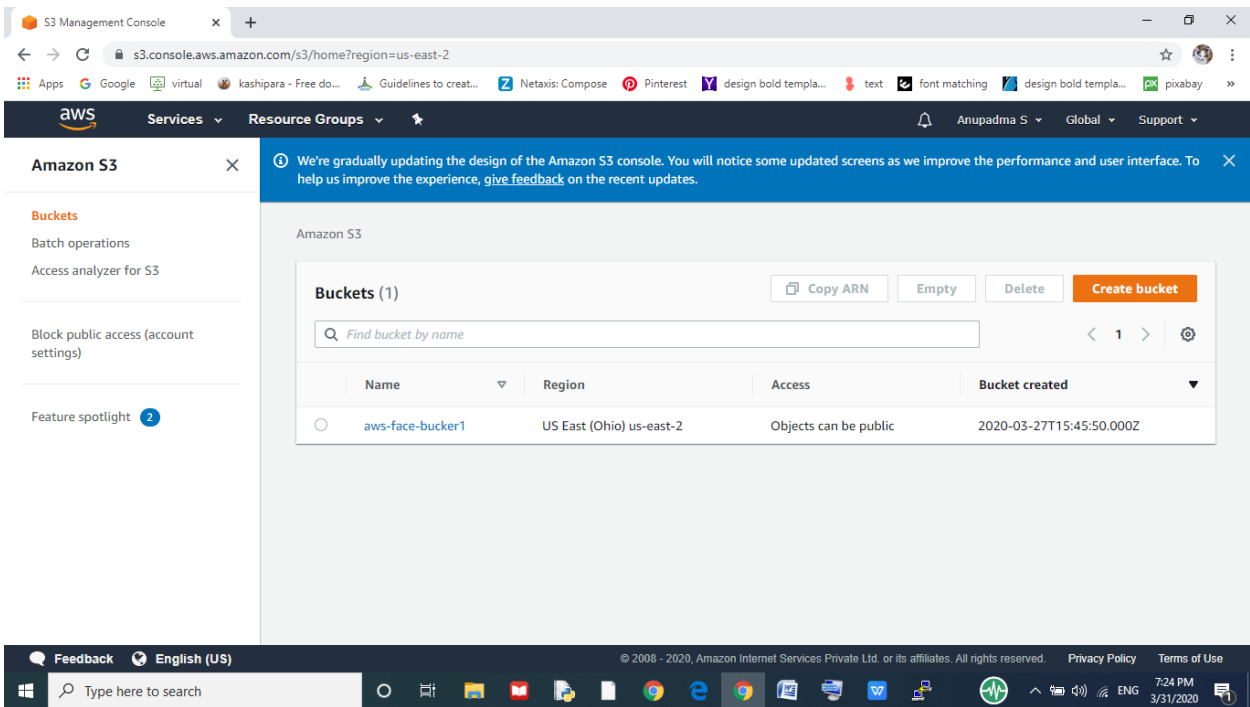


7. Logged in EC2 black screen

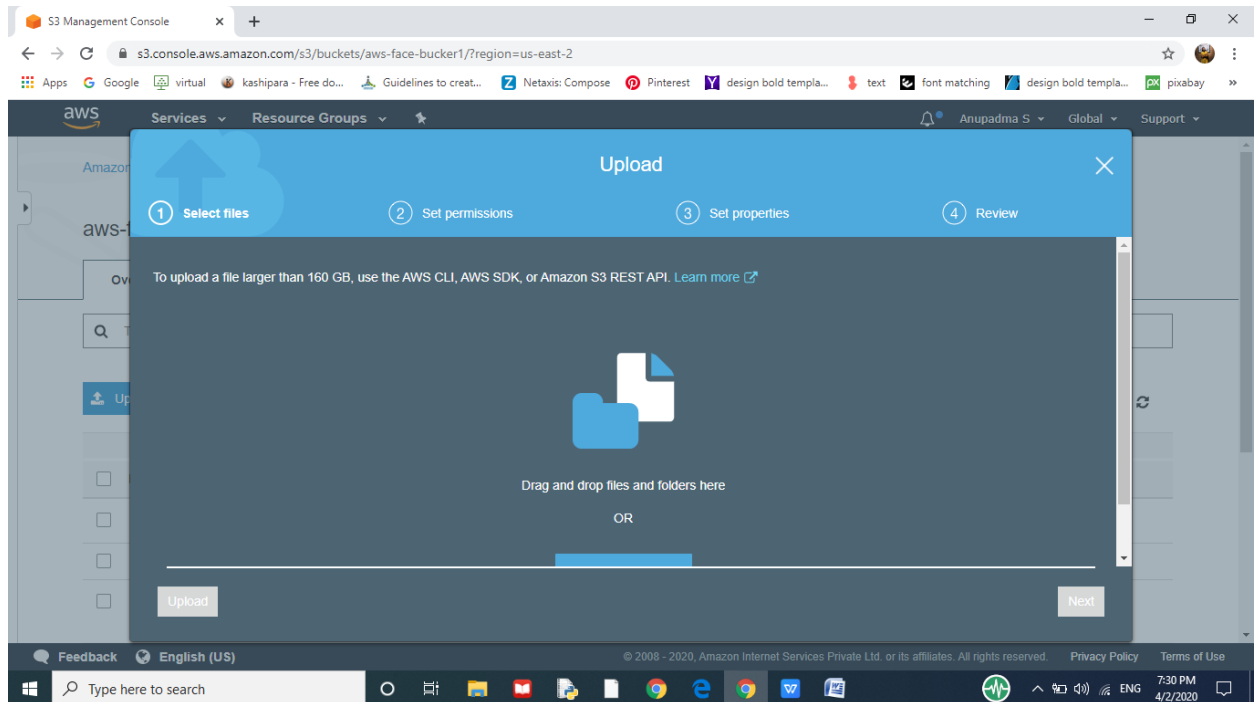


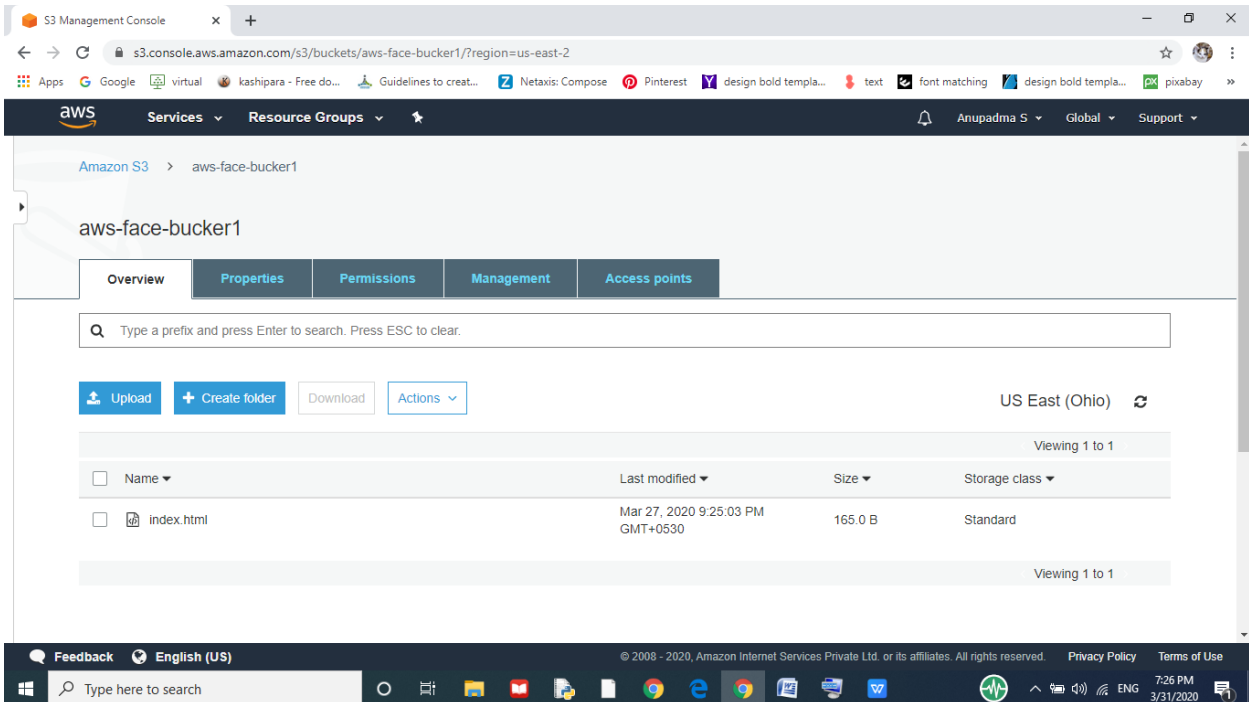
S3

1. Creating a bucket

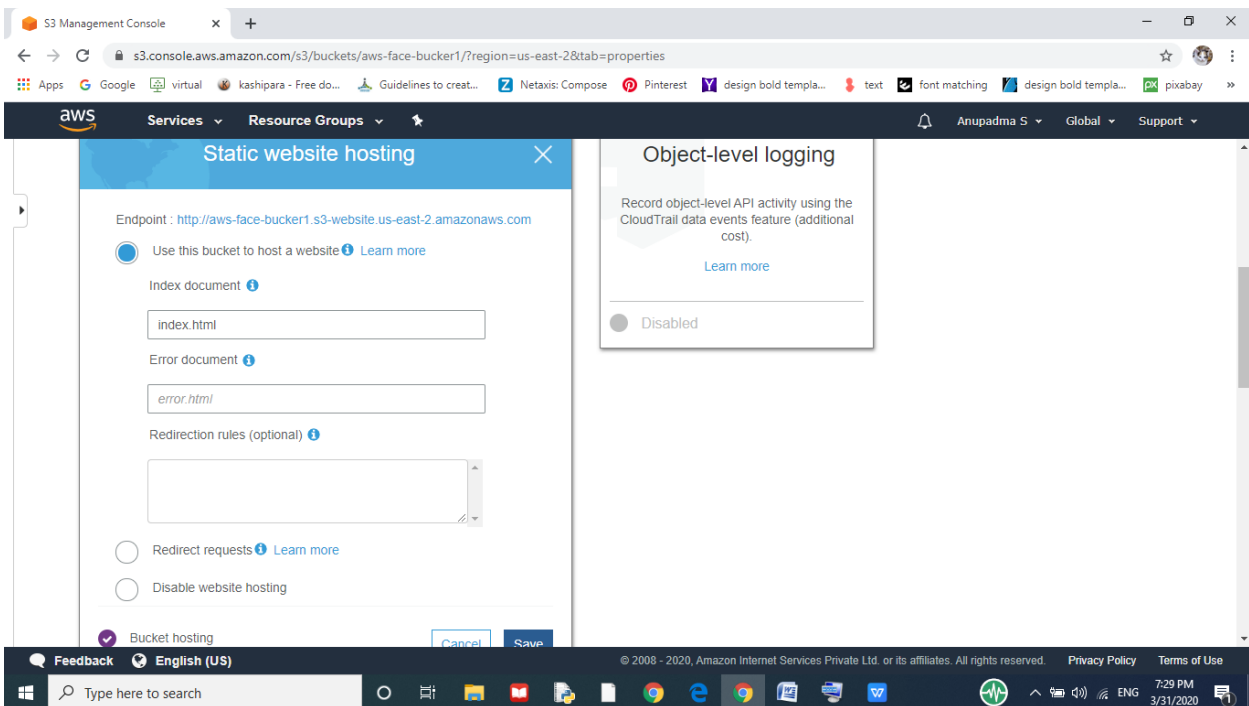


2. Uploading an Object

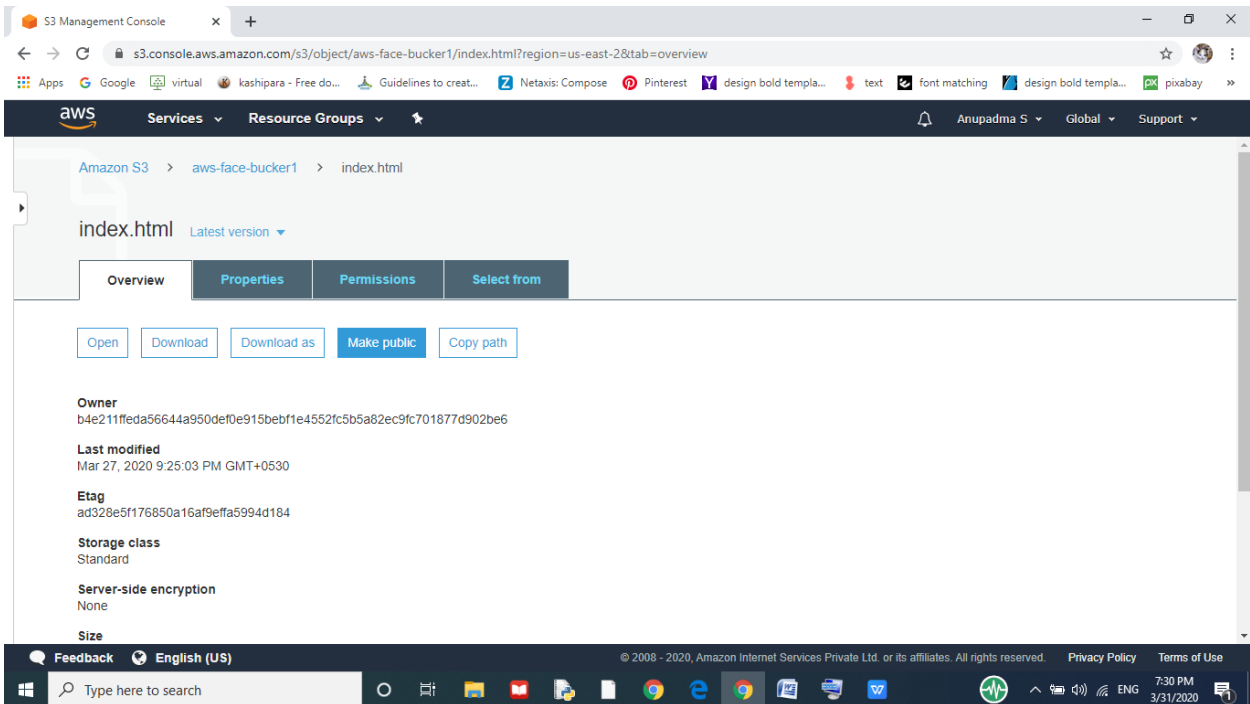




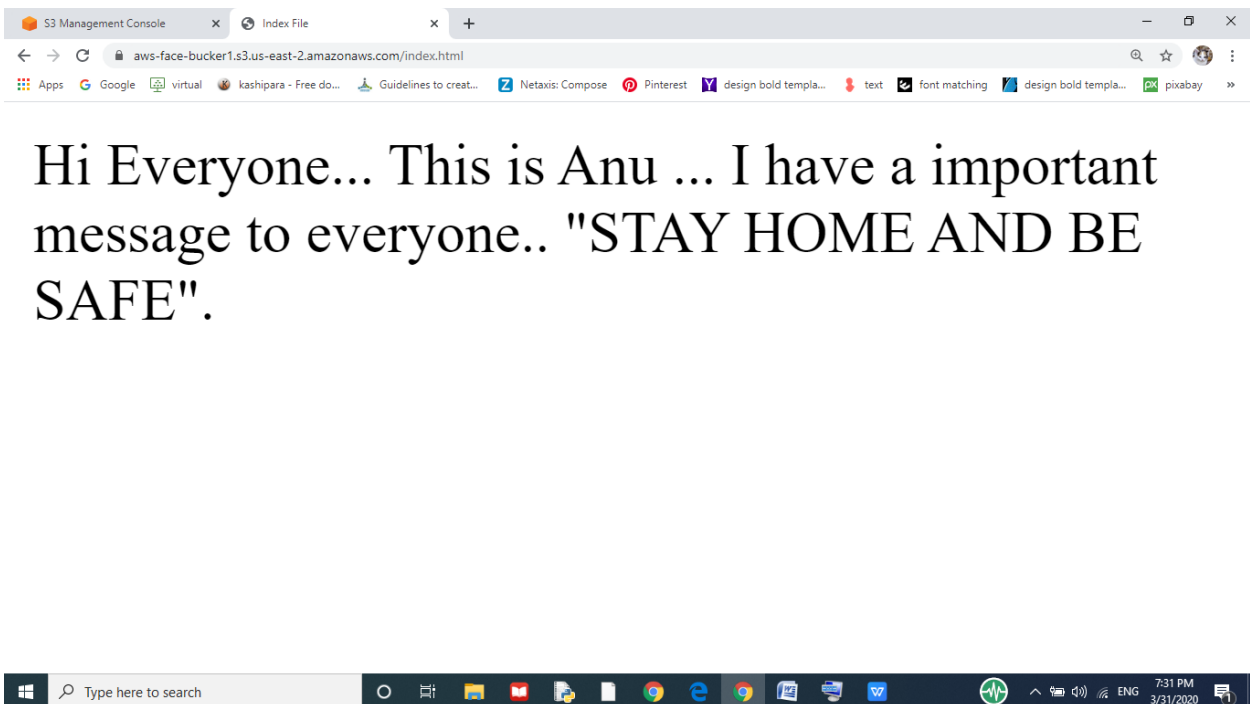
3. Enabling Static Website



4. Making the Object Public



5. Checking the S3 link on the browser



Rekognition

1. Face Detect

The screenshot shows the AWS Rekognition console interface. The left sidebar contains a navigation menu with options like 'Custom Labels', 'Demos', 'Facial analysis', 'Celebrity recognition', 'Face comparison', 'Text in image', 'Video Demos', 'Video analysis', 'Metrics', and 'Feedback'. The main content area is titled 'Facial analysis' and includes a description: 'Get a complete analysis of facial attributes, including confidence scores.' Below this is a large image of a baby sitting next to a dog, with a blue bounding box around the baby's face. To the right of the image is a 'Results' section with a table of facial attributes and their confidence scores.

Attribute	Confidence Score
looks like a face	100 %
appears to be female	77.3 %
age range	0 - 3 years old
smiling	97.1 %
appears to be happy	99.1 %

The bottom of the screenshot shows the Windows taskbar with the time 7:36 PM and date 4/2/2020.

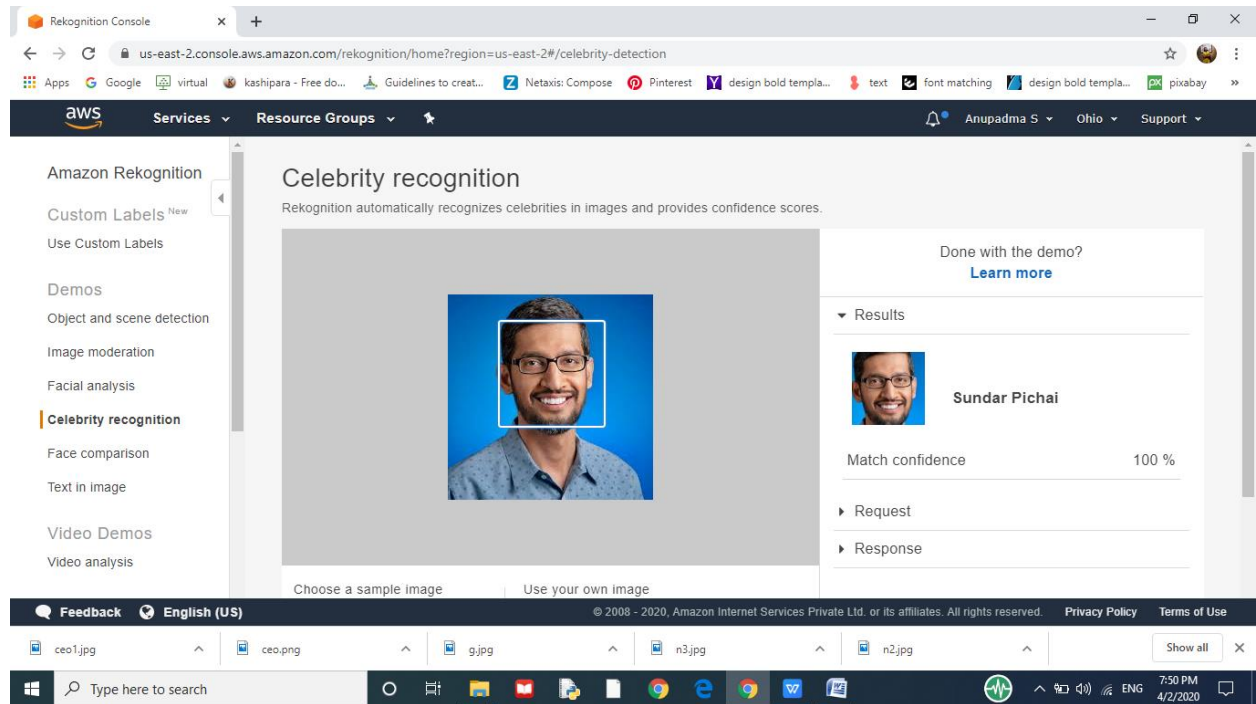
2. Face Compare

The screenshot shows the AWS Rekognition console interface for the 'Face comparison' demo. The left sidebar is similar to the first screenshot, but the 'Face comparison' option is highlighted. The main content area is titled 'Face comparison' and includes a description: 'Compare faces to see how closely they match based on a similarity percentage.' Below this are two image upload sections: 'Reference face' and 'Comparison faces'. The 'Reference face' section shows a photo of a woman. The 'Comparison faces' section shows a photo of a group of people. To the right of these images is a 'Results' section with a table showing the similarity percentage between the reference face and the comparison faces.

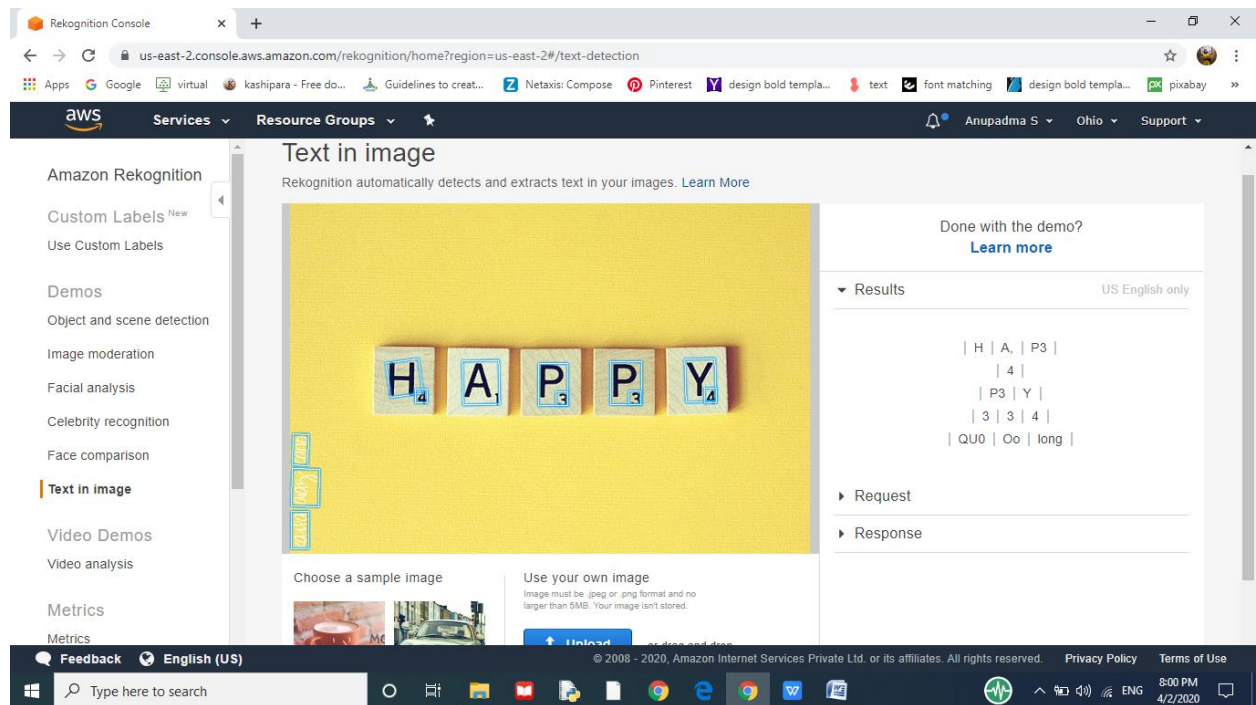
Comparison	Similarity
Reference face vs. Comparison faces (top)	98.9 %
Reference face vs. Comparison faces (bottom)	Not shown

The bottom of the screenshot shows the Windows taskbar with the time 7:46 PM and date 4/2/2020.

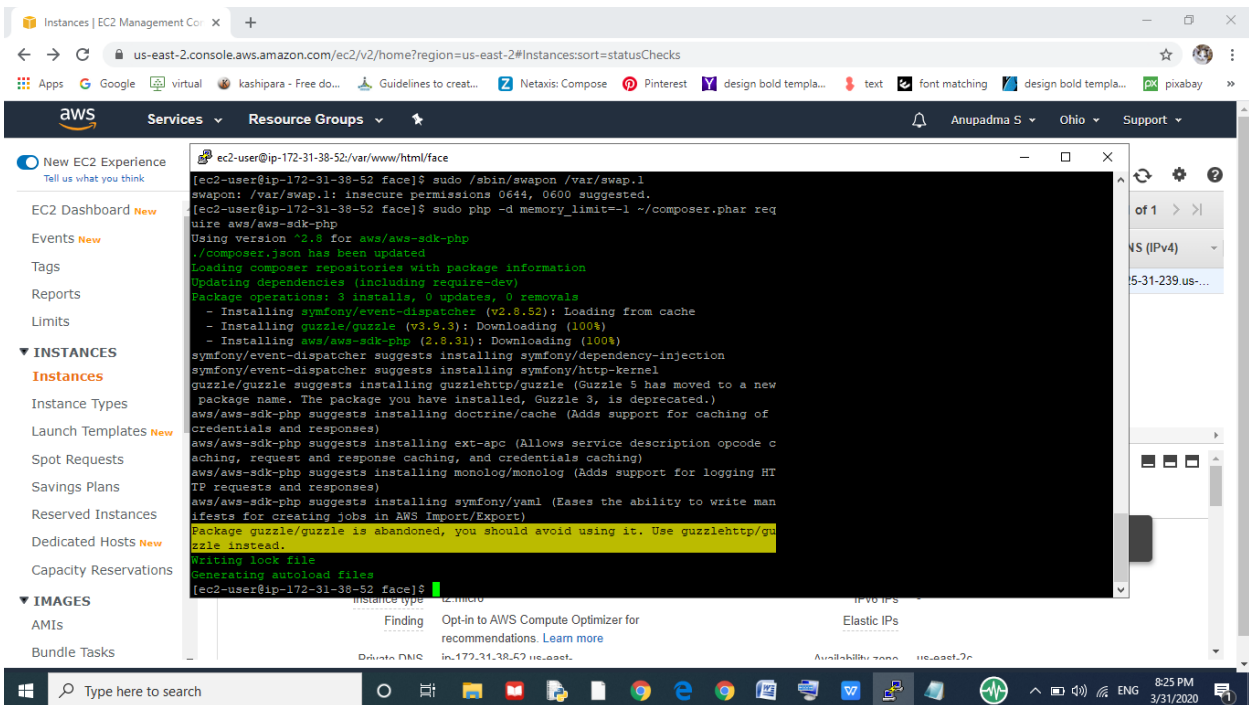
3. Celebrity Recognition



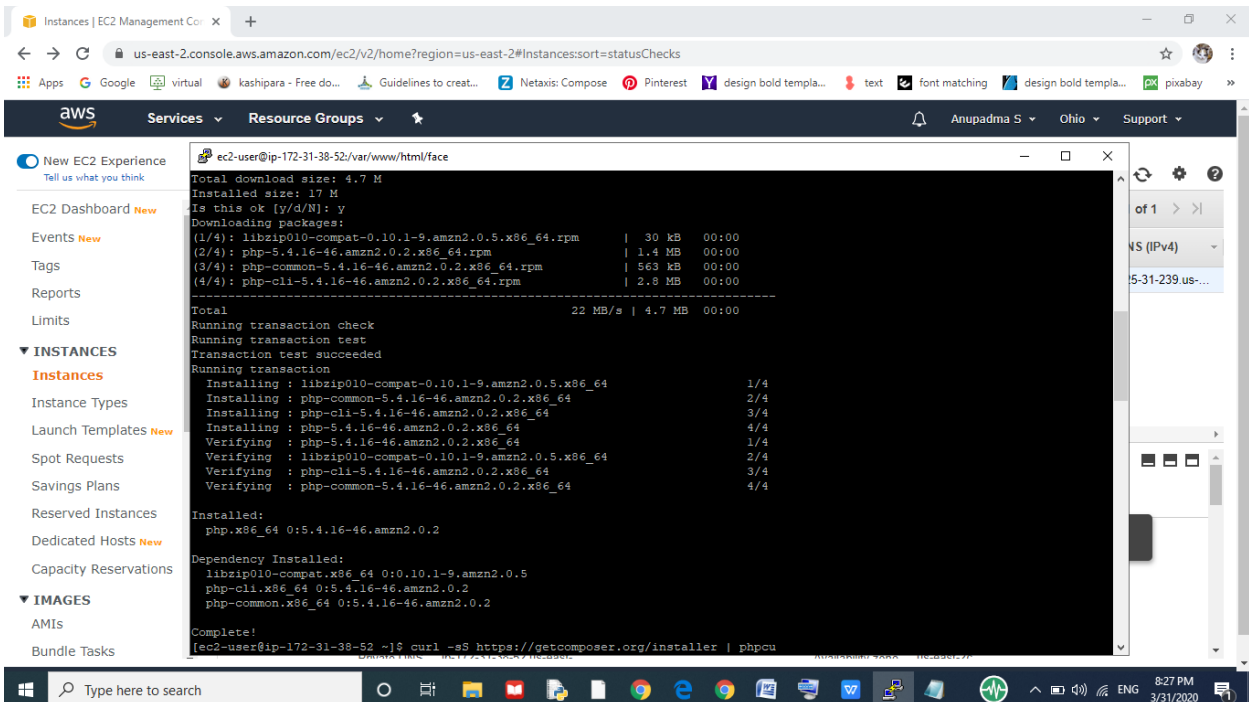
4. Text in Image



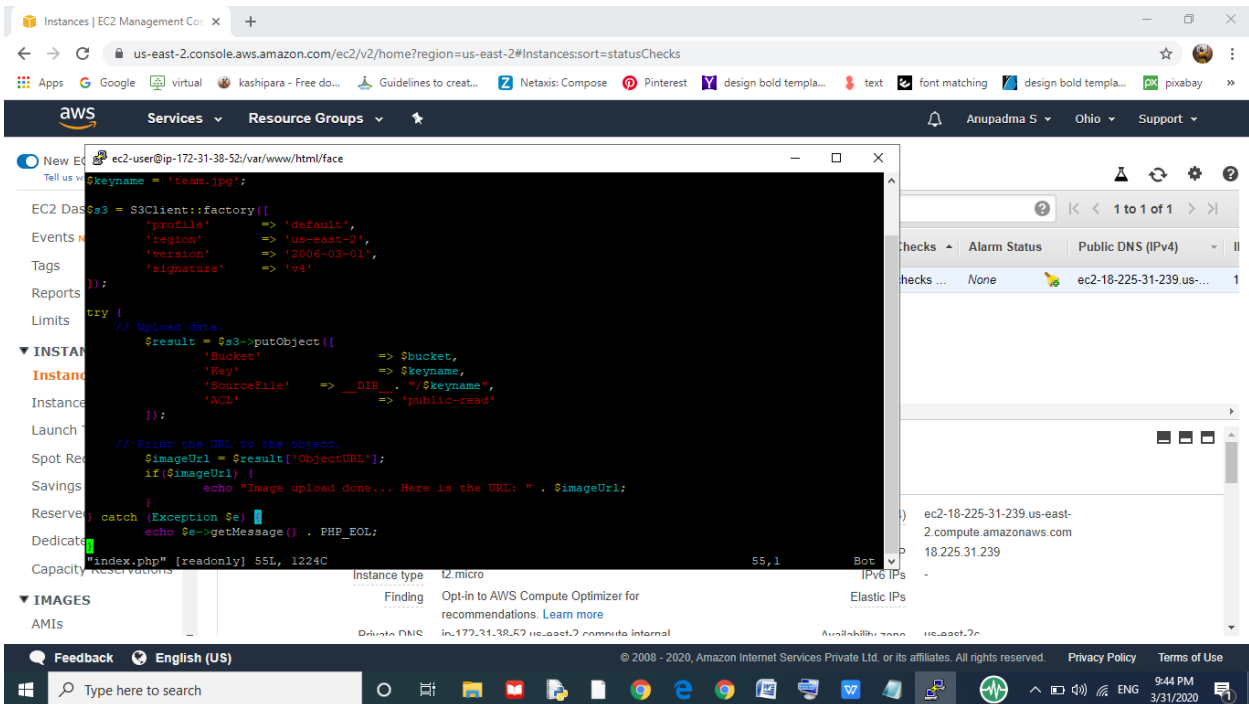
1. Installing aws-sdk



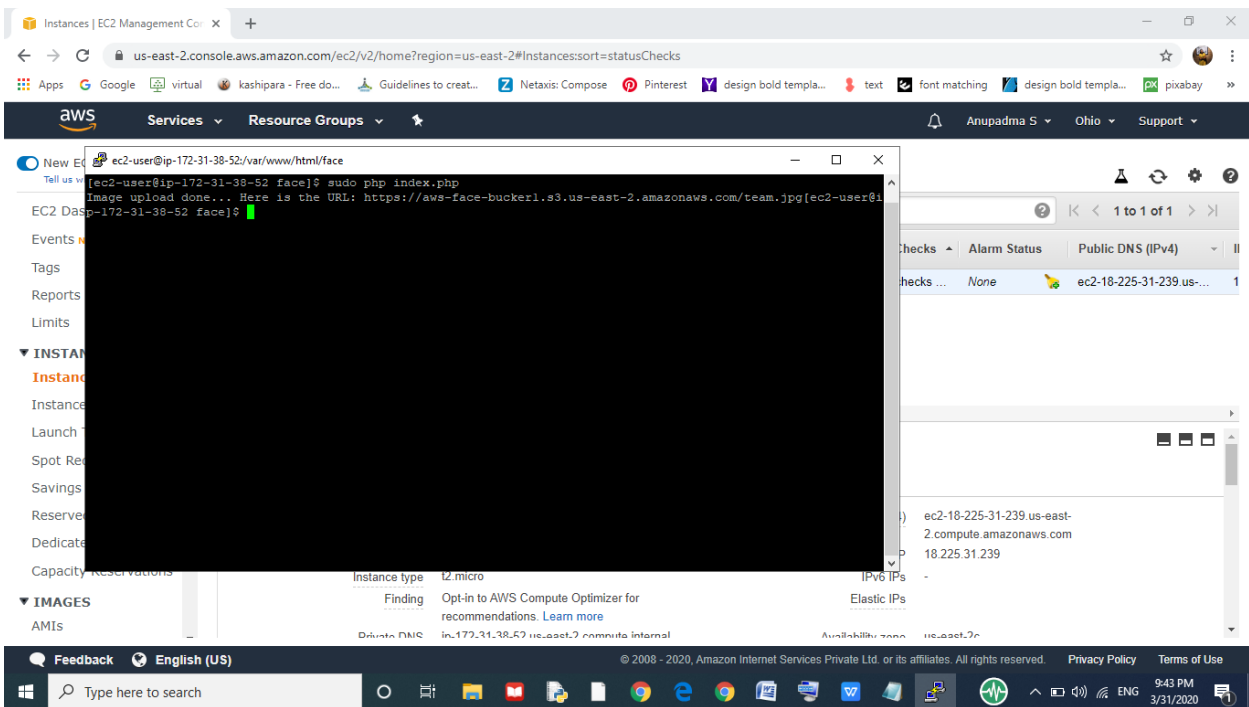
2. Installing php



3. index.php file code



4. Upload success



EC2 & Rekognition

1. Face Detect success

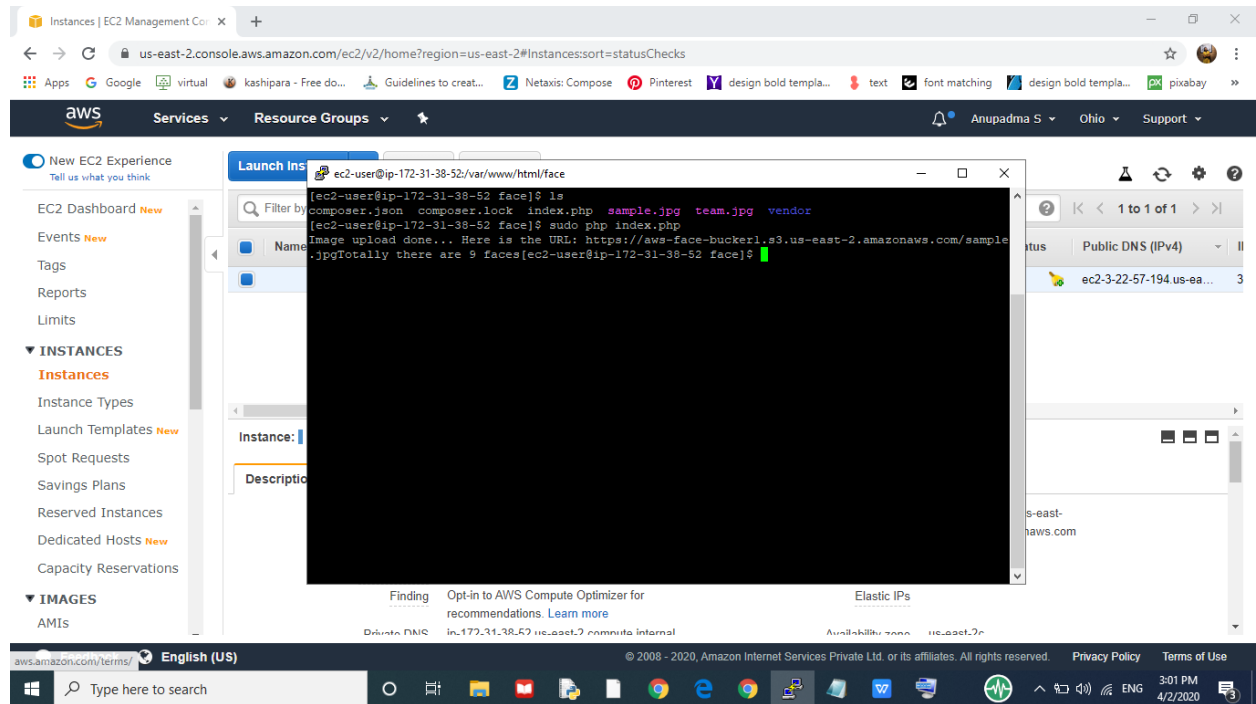


Image upload done... Here is the URL: <https://aws-face-bucker1.s3.us-east-2.amazonaws.com/sample.jpg> Totally there are 9 faces

