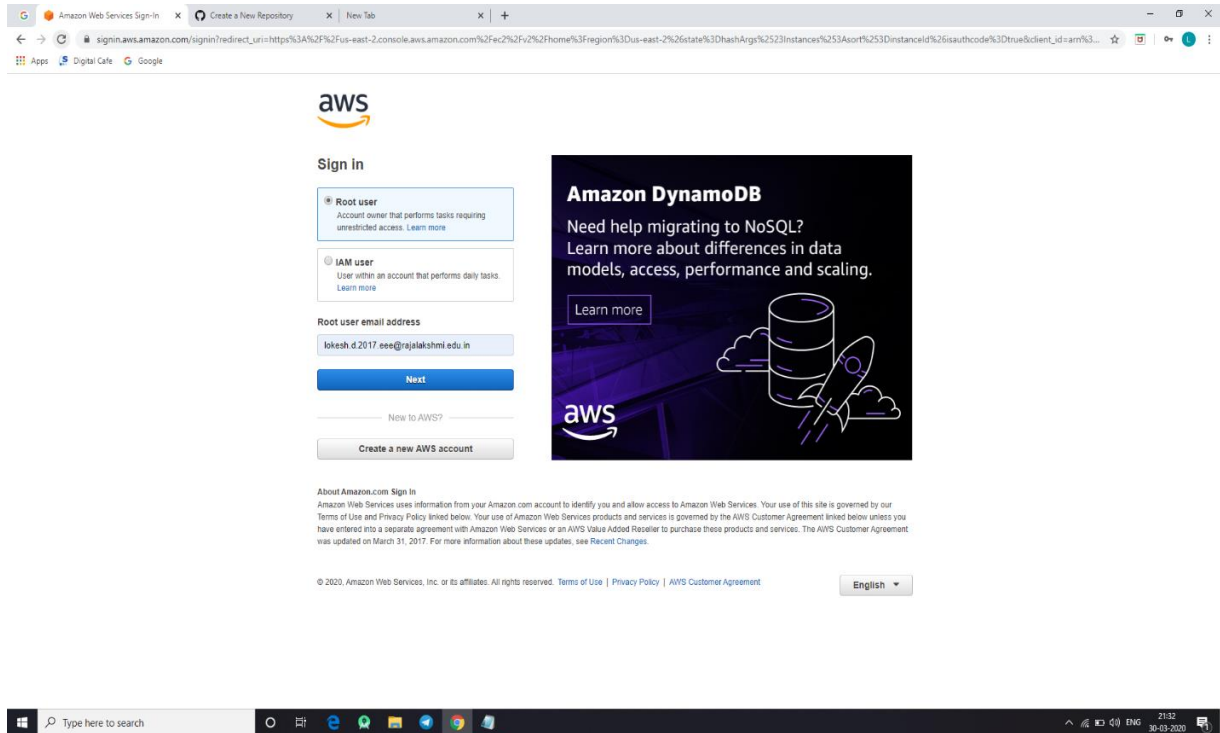
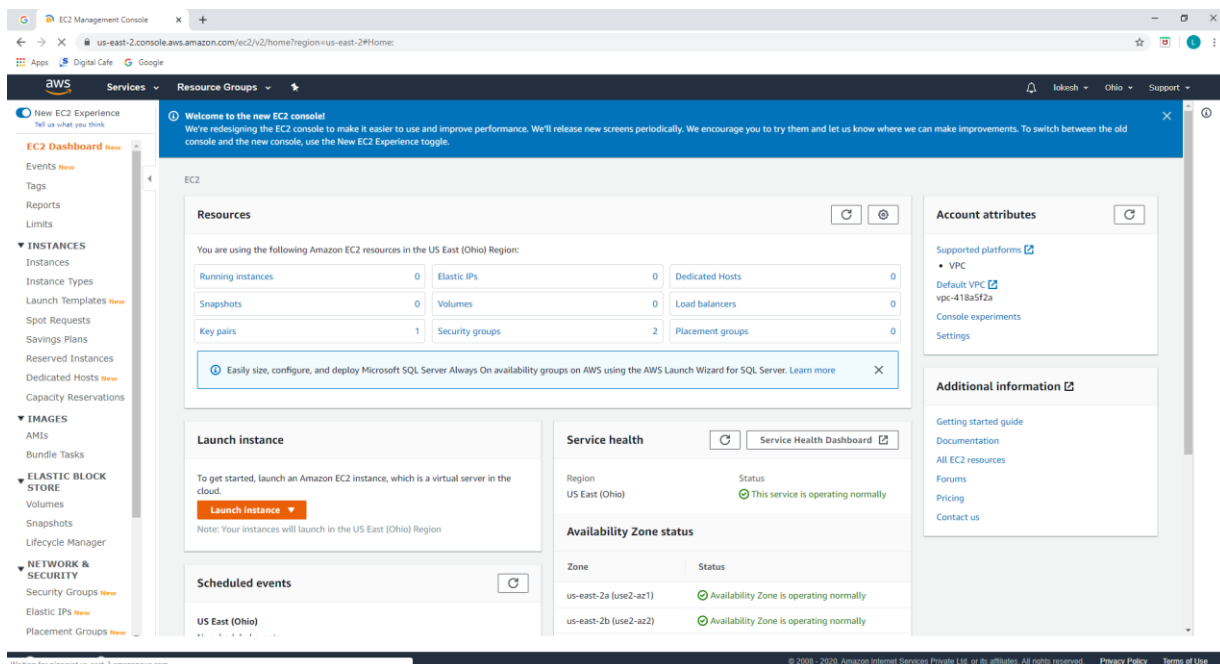


Building an face detection on Aws

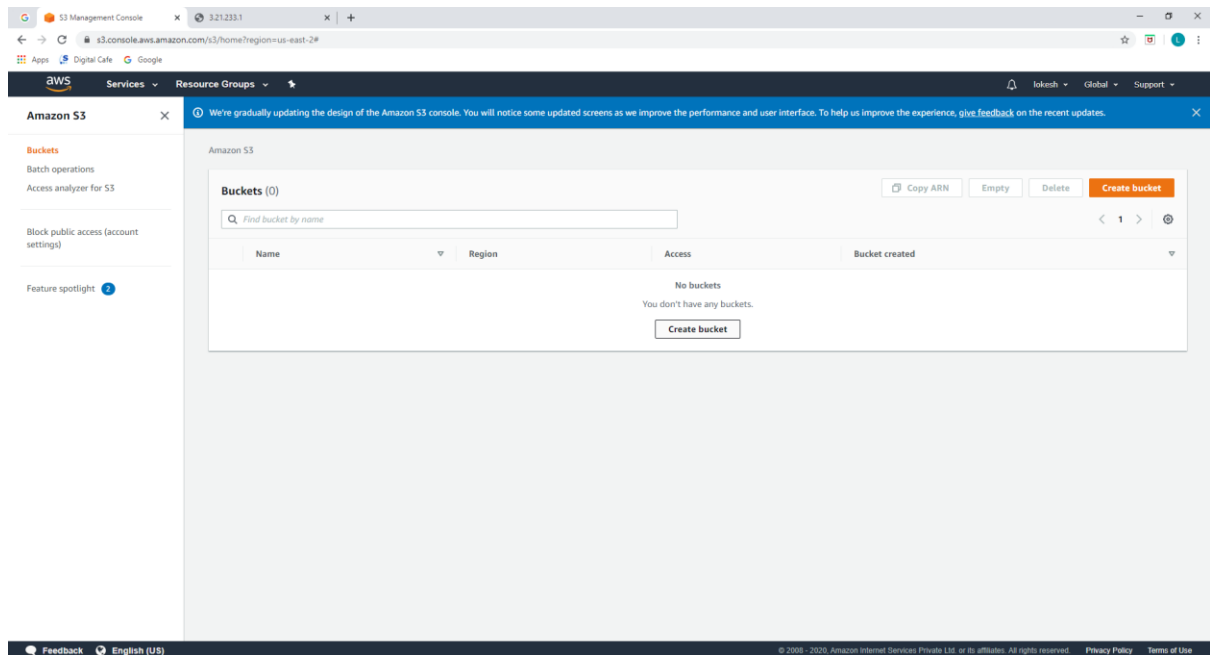
AWS Login screen with username :



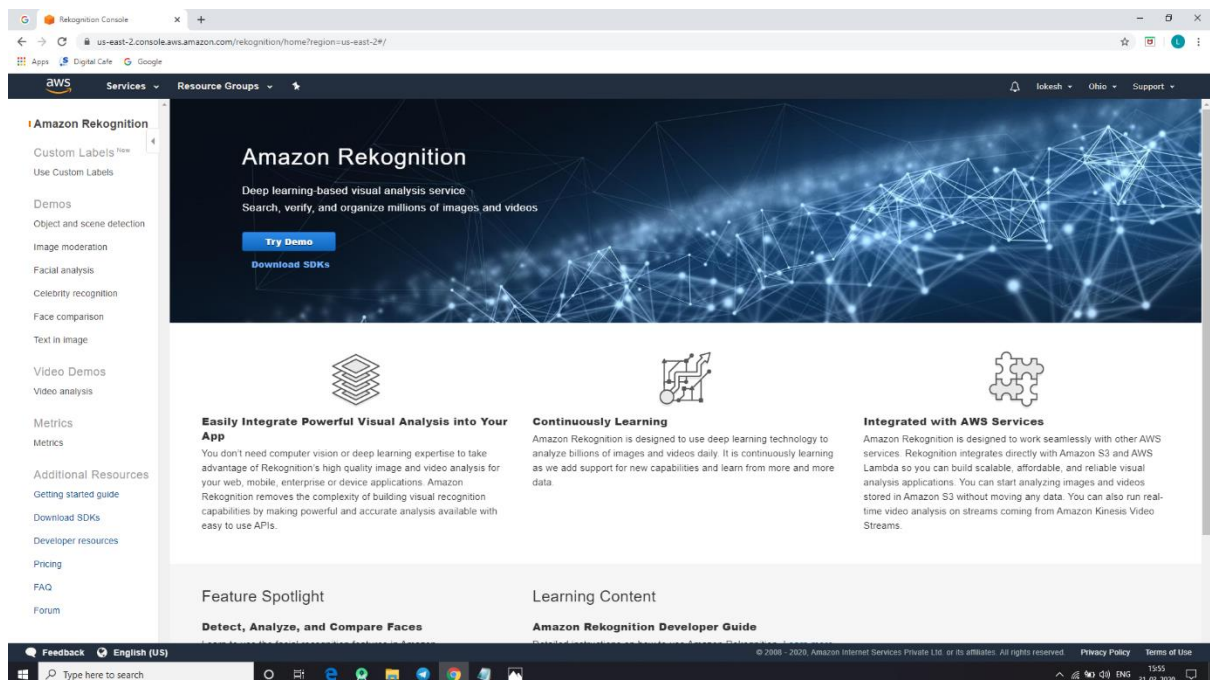
EC2 Dashboard :



S3 Dashboard :



Rekognition Dashboard :



EC2

a. Choosing an AMI :

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

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

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs
- ☐ Free tier only (1)

Image	Architecture	Root device type	Virtualization type	ENI Enabled	Actions
Amazon Linux 2 AMI (HVM, SSD Volume Type) - ami-0e01ce4ee18447327 (64-bit x86) / ami-03201f374ab66a26e (64-bit Arm)	x86_64	ebs	hvm	Yes	Select
Amazon Linux 2018.03.0 (HVM, SSD Volume Type) - ami-01b01bbd08f24c7a8	x86_64	ebs	hvm	Yes	Select
Red Hat Enterprise Linux 8 (HVM, SSD Volume Type) - ami-0520e698dd500b1d1 (64-bit x86) / ami-0099847d500887c9f (64-bit Arm)	x86_64	ebs	hvm	Yes	Select
SUSE Linux Enterprise Server 15 SP1 (HVM, SSD Volume Type) - ami-04c5bab51cc146925 (64-bit x86) / ami-02e73902018018171 (64-bit Arm)	x86_64	ebs	hvm	Yes	Select
Ubuntu Server 18.04 LTS (HVM, EBS General Purpose (SSD) Volume Type) - ami-0fc20d41da406780b (64-bit x86) / ami-0959e8feedaf156bf (64-bit Arm)	x86_64	ebs	hvm	Yes	Select

Are you launching a database instance? Try Amazon RDS.

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy Amazon Aurora, MariaDB,

b. 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, 2.5 GHz, Intel Xeon Family, 1 GB memory, EBS only)

	Family	Type	vCPUs (1)	Memory (GiB)	Instance Storage (GiB) (1)	EBS-Optimized Available (1)	Network Performance (1)	IPv6 Support (1)
<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
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

c. Adding Storage :

The screenshot shows the 'Step 4: Add Storage' page in the AWS Launch Instance Wizard. The page title is 'Step 4: Add Storage'. Below the title, there is a paragraph explaining that the instance will be launched with the following storage device settings and that additional EBS volumes can be attached after launch. The main part of the page 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)' of size '8' GiB, with IOPS of '100 / 3000', Throughput of 'N/A', 'Delete on Termination' checked, and 'Not Encrypted'. Below the table is a button 'Add New Volume'. At the bottom of the page, there are navigation buttons: 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Tags'. The footer contains 'Feedback', 'English (US)', and copyright information.

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 Encrypted

[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](#)

[Feedback](#) [English \(US\)](#) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

d. Configuring Security Group :

The screenshot shows the 'Step 6: Configure Security Group' page in the AWS Launch Instance Wizard. The page title is 'Step 6: Configure Security Group'. Below the title, there is a paragraph explaining that a security group is a set of firewall rules that control the traffic for your instance. The main part of the page is a form for 'Assign a security group'. It has two radio buttons: 'Create a new security group' (selected) and 'Select an existing security group'. Below the radio buttons, there is a text input for 'Security group name' with the value 'launch-wizard-2' and a text input for 'Description' with the value 'launch-wizard-2 created 2020-03-29T14:26:51.004+05:30'. Below the form is a table with columns: Type, Protocol, Port Range, Source, and Description. The table has two rows: one for 'SSH' with 'TCP' protocol, 'Port Range' '22', 'Source' 'Custom 0.0.0.0/0', and 'Description' 'e.g. SSH for Admin Desktop'; and one for 'HTTP' with 'TCP' protocol, 'Port Range' '80', 'Source' 'Custom 0.0.0.0/0', and 'Description' 'e.g. SSH for Admin Desktop'. Below the table is a button 'Add Rule'. At the bottom of the page, there is a warning box with a yellow background and a warning icon. The warning text says: '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.' Below the warning box are navigation buttons: 'Cancel', 'Previous', and 'Review and Launch'. The footer contains 'Feedback', 'English (US)', and copyright information.

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
HTTP	TCP	80	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

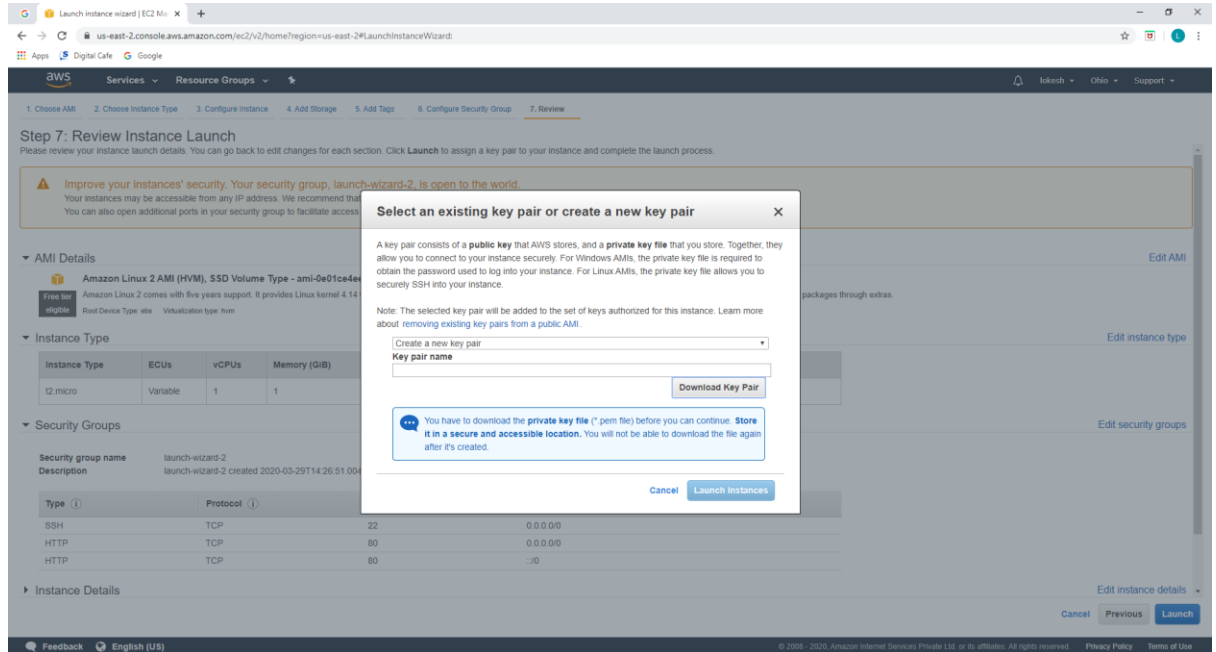
[Add Rule](#)

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.

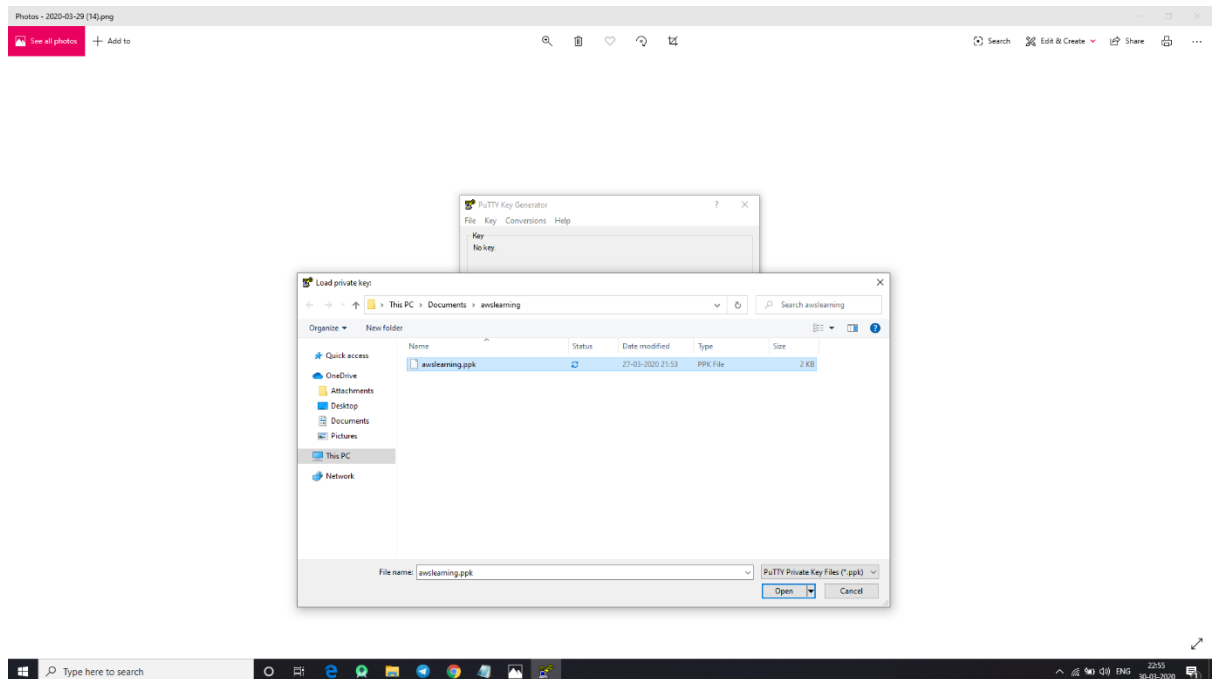
[Cancel](#) [Previous](#) [Review and Launch](#)

[Feedback](#) [English \(US\)](#) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

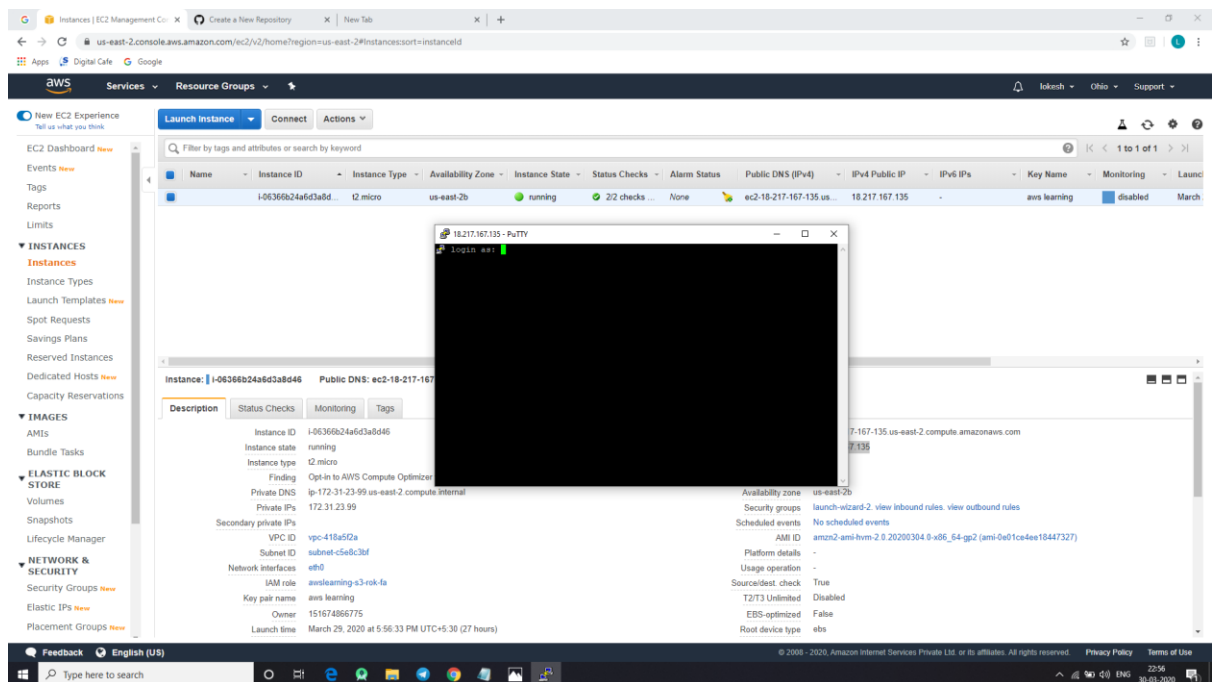
e. Key Pair Download :



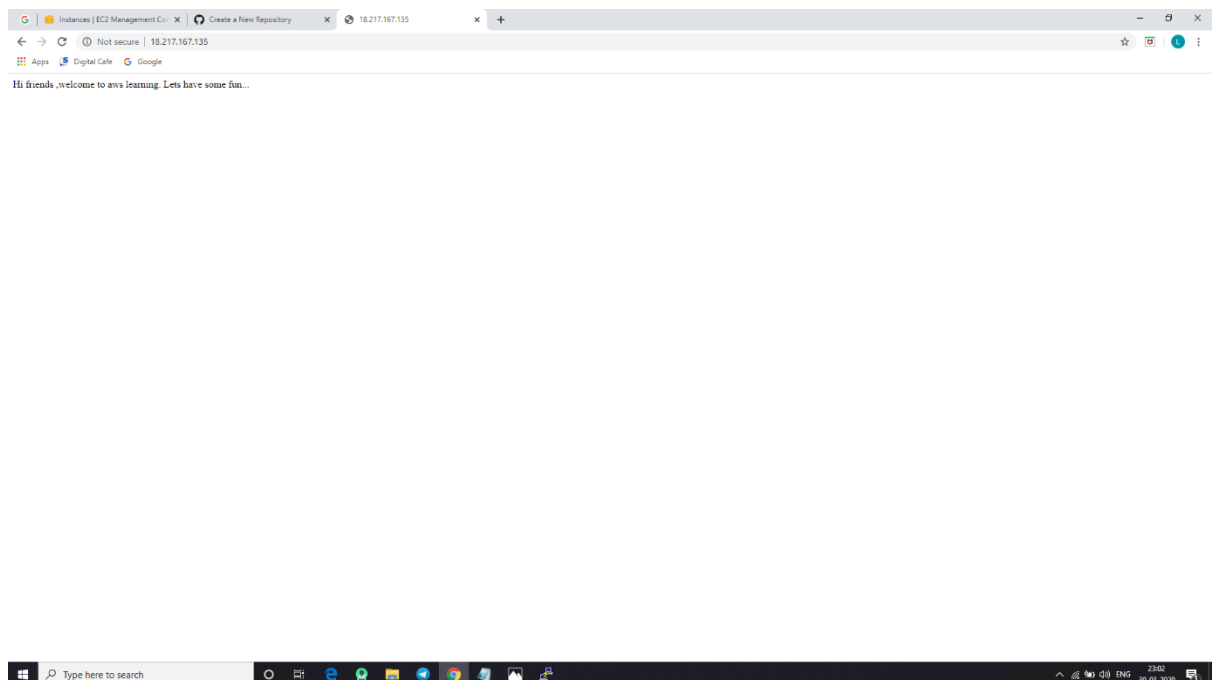
f. PuTTYgen conversion from pem to ppk :



g. Logged in EC2 black screen ;



h. Output in web browser :



S3

a. Creating a bucket :

The screenshot shows the 'Create bucket' page in the AWS Management Console. The 'General configuration' section has 'Bucket name' set to 'loki-awslearning' and 'Region' set to 'US East (Ohio) us-east-2'. The 'Bucket settings for Block Public Access' section has four checkboxes, all of which are unchecked. A warning message at the bottom states: 'Turning off block all public access might result in this bucket and the objects within becoming public'.

General configuration

Bucket name
loki-awslearning
Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

Region
US East (Ohio) us-east-2

Bucket settings for Block Public Access

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket 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 this bucket 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.

Turning off block all public access might result in this bucket and the objects within becoming public

The screenshot shows the 'Amazon S3 Buckets' page in the AWS Management Console. A blue banner at the top states: 'We're gradually updating the design of the Amazon S3 console. You will notice some updated screens as we improve the performance and user interface. To help us improve the experience, give feedback on the recent updates.' The left sidebar shows 'Buckets' as the selected option. The main content area shows a table with one bucket listed.

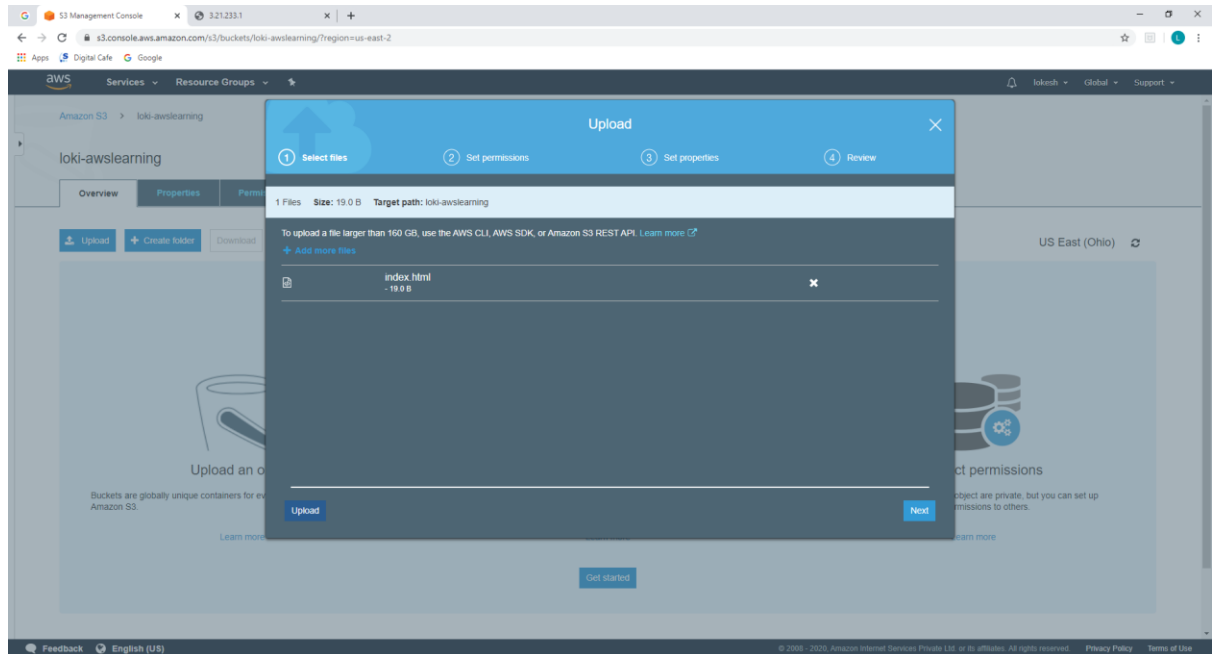
Amazon S3

Buckets (1)

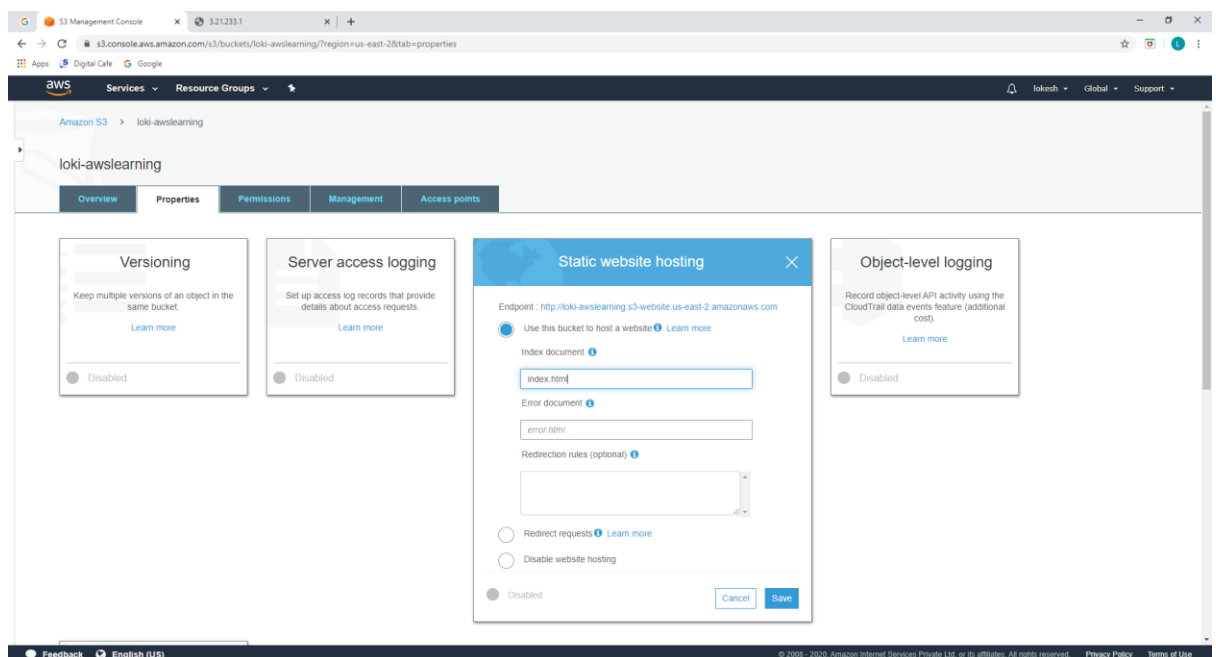
[Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Name	Region	Access	Bucket created
loki-awslearning	US East (Ohio) us-east-2	Objects can be public	2020-03-29T09:24:17.000Z

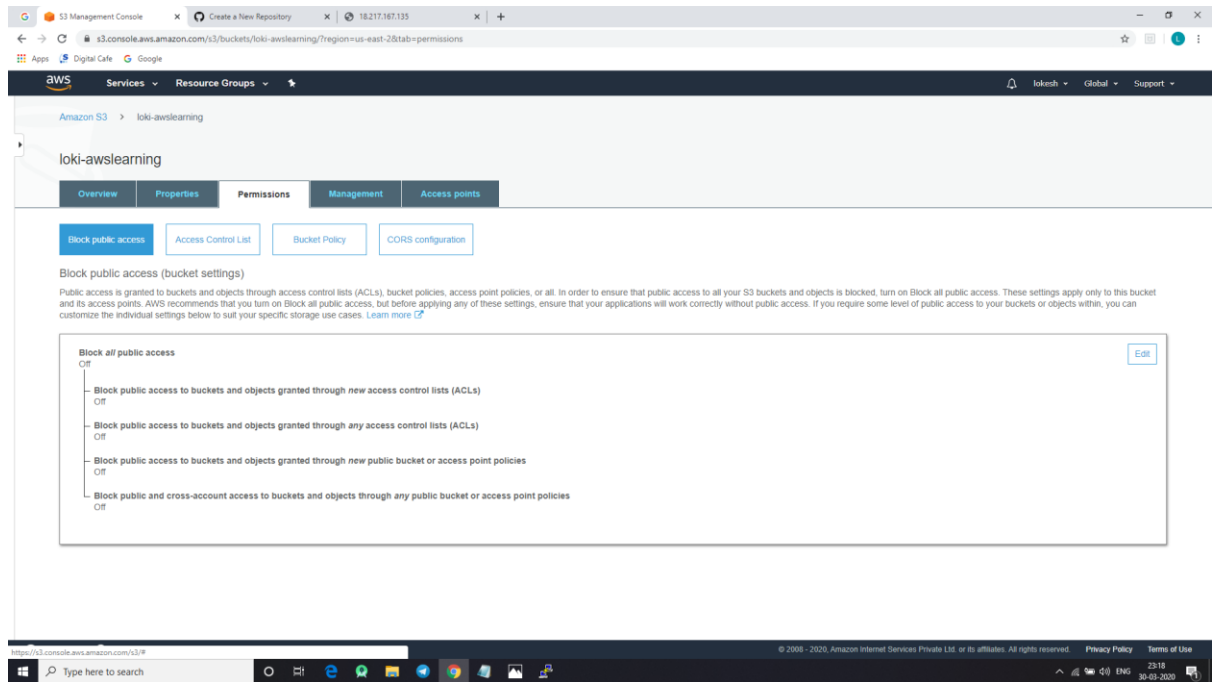
b. Uploading an Object :



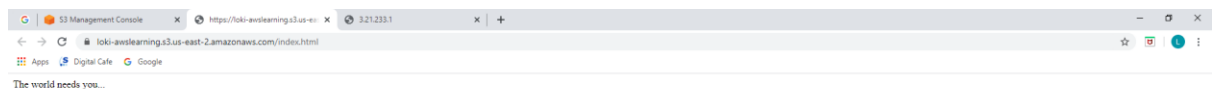
c. Enabling Static Website :



d. Making the Object Public :



e. Checking the S3 link on the browser :



Rekognition

a. Face Detect :

The screenshot shows the Amazon Rekognition console interface. On the left, a sidebar lists various services: Custom Labels, Demos, Object and scene detection, Image moderation, Facial analysis (highlighted), Celebrity recognition, Face comparison, Text in image, Video Demos, Video analysis, Metrics, Additional Resources, Getting started guide, Download SDKs, Developer resources, Pricing, FAQ, and Forum. The main content area is titled 'Facial analysis' and includes a large image of three people with bounding boxes around their faces. Below this image, there are options to 'Choose a sample image' or 'Use your own image' with an 'Upload' button. On the right, a 'Results' panel displays the following data:

Attribute	Confidence Score
looks like a face	99.9 %
appears to be male	99.4 %
age range	22 - 34 years old
smiling	99.9 %
appears to be happy	99.7 %
not wearing glasses	99.6 %

Below the results, there are links for 'Show more', 'Request', and 'Response'. The bottom of the console shows a Windows taskbar with the search bar and system clock.

b. Face Compare :

The screenshot shows the Amazon Rekognition console interface for the 'Face comparison' demo. The sidebar on the left is similar to the previous screenshot, but 'Face comparison' is highlighted. The main content area displays two images side-by-side: a portrait of Chris Evans and a scene from the Avengers movie. Below each image, there are options to 'Choose a sample image' or 'Use your own image' with an 'Upload' button. On the right, a 'Results' panel shows the similarity score between the two images:

Image 1	Image 2	Similarity
		97.8 %
		Not similar
		Not similar

Below the results, there are links for 'Request' and 'Response'. The bottom of the console shows a Windows taskbar with the search bar and system clock.

c. Celebrity Recognition :

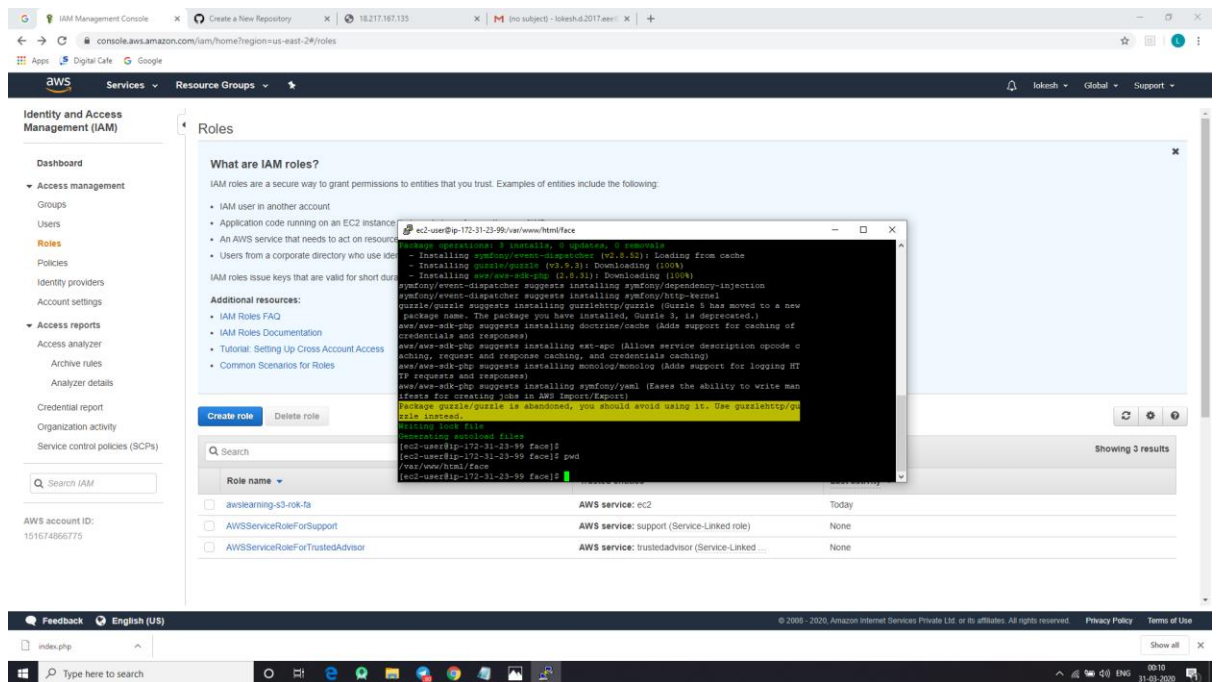
The screenshot shows the Amazon Rekognition console in a web browser. The left sidebar contains a navigation menu with options like Custom Labels, Demos, Object and scene detection, Image moderation, Facial analysis, **Celebrity recognition**, Face comparison, Text in image, Video Demos, Video analysis, Metrics, and Additional Resources. The main content area is titled "Celebrity recognition" and includes a description: "Rekognition automatically recognizes celebrities in images and provides confidence scores." A large image of Chris Evans is displayed with a bounding box around his face. To the right, the "Results" section shows a match for "Chris Evans" with a "Match confidence" of 99%. Below the image, there are options to "Choose a sample image" (with thumbnails of other celebrities) or "Use your own image" (with an "Upload" button and a text field for "Use image URL"). The bottom of the browser window shows the Windows taskbar with the search bar and several open applications.

d. Text in Image :

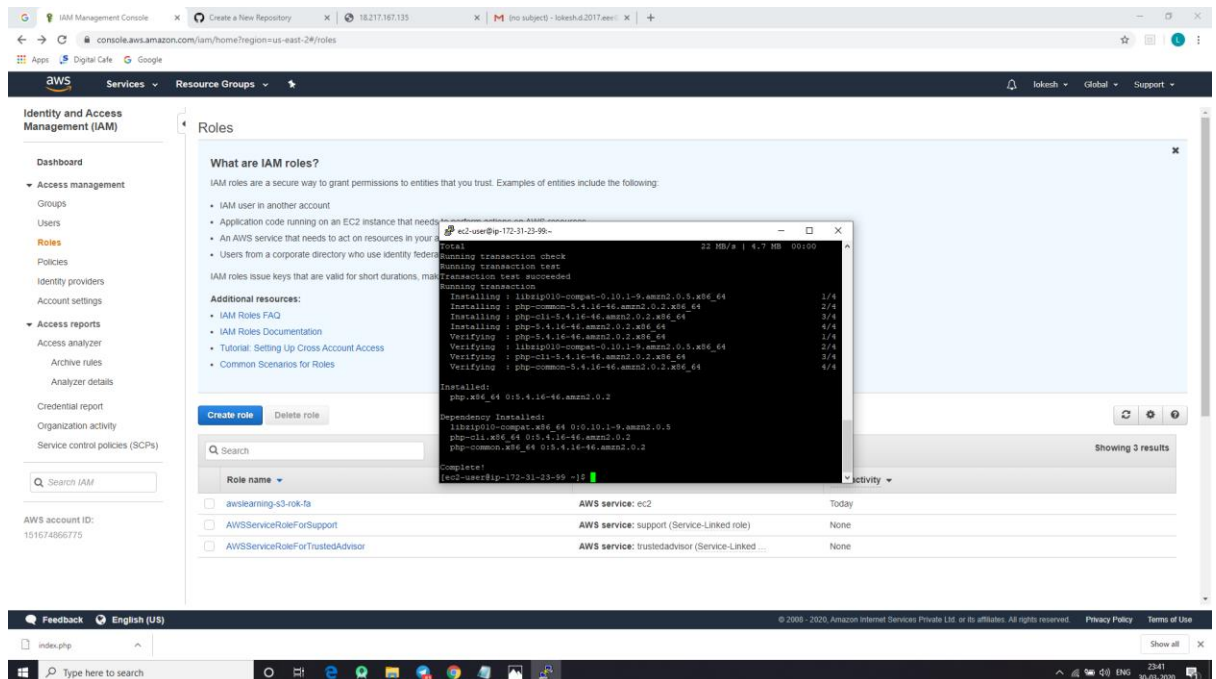
The screenshot shows the Amazon Rekognition console in a web browser, specifically the "Text in image" demo. The left sidebar is similar to the previous one, but "Text in image" is highlighted. The main content area is titled "Text in image" and includes a description: "Rekognition automatically detects and extracts text in your images. Learn More." A large image of two yellow smiley face plush toys sitting on a wooden bench is displayed. The toys have signs that say "Happy" and "Keep on Smiling!". To the right, the "Results" section shows the detected text: "Happy | Keep on | Smiling |". Below the image, there are options to "Choose a sample image" (with thumbnails of other images) or "Use your own image" (with an "Upload" button and a text field for "Use image URL"). The bottom of the browser window shows the Windows taskbar with the search bar and several open applications.

EC2 & S3

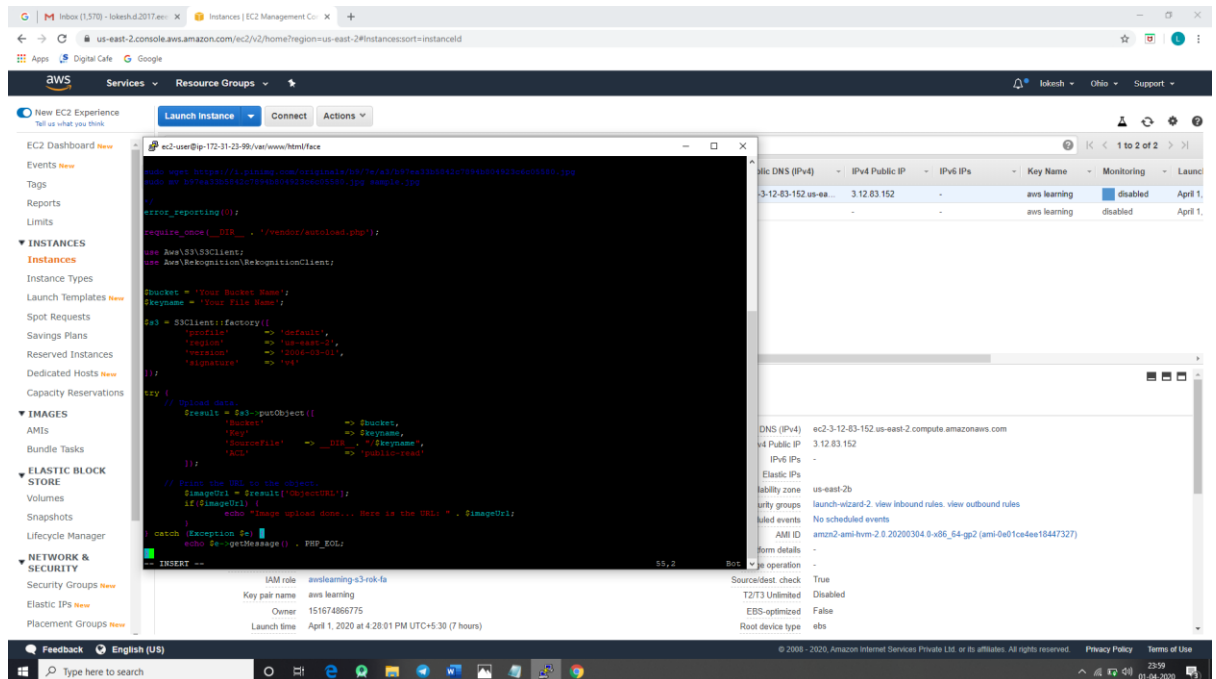
a. Installing aws-sdk :



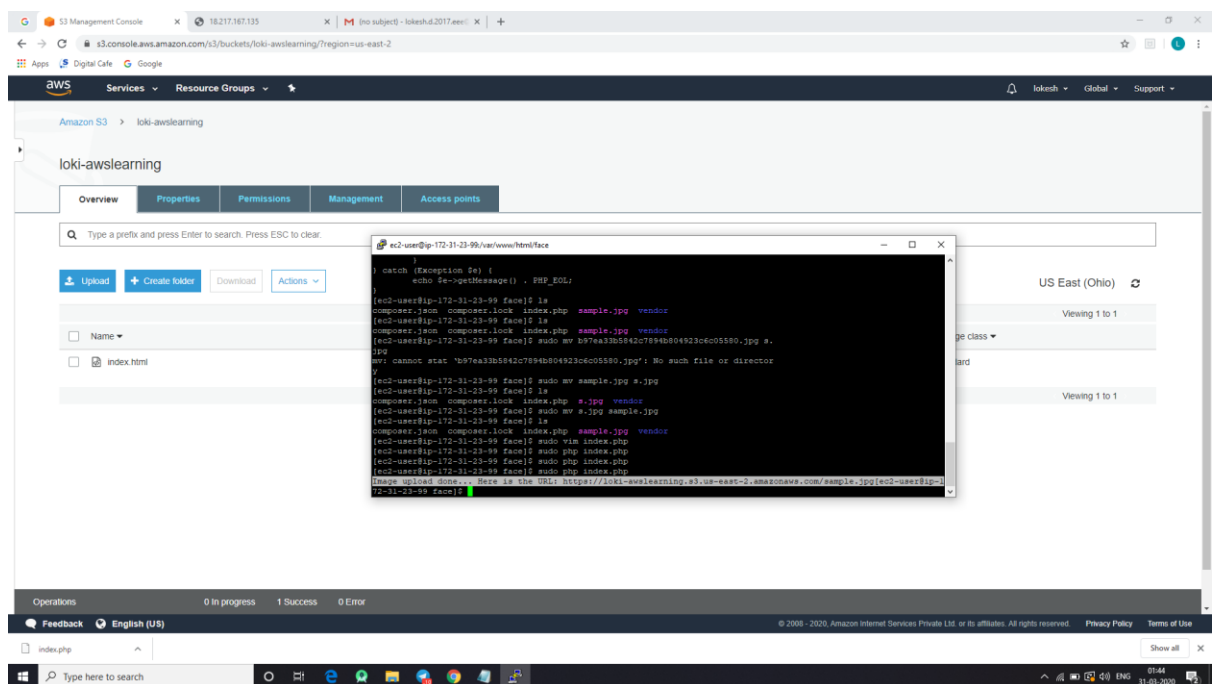
b. Installing php :



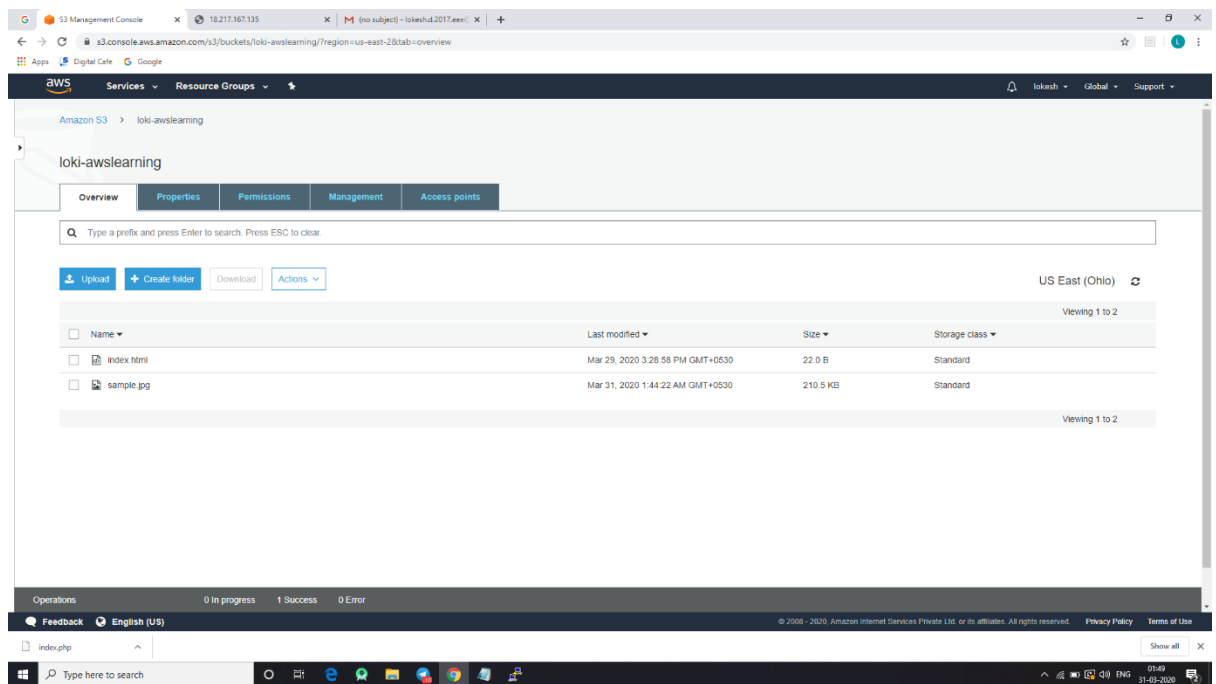
c. Index.php file code :



d. Upload success screenshot :



e. Photo uploaded :



EC2 & Rekognition :

a. Face detected successful :

