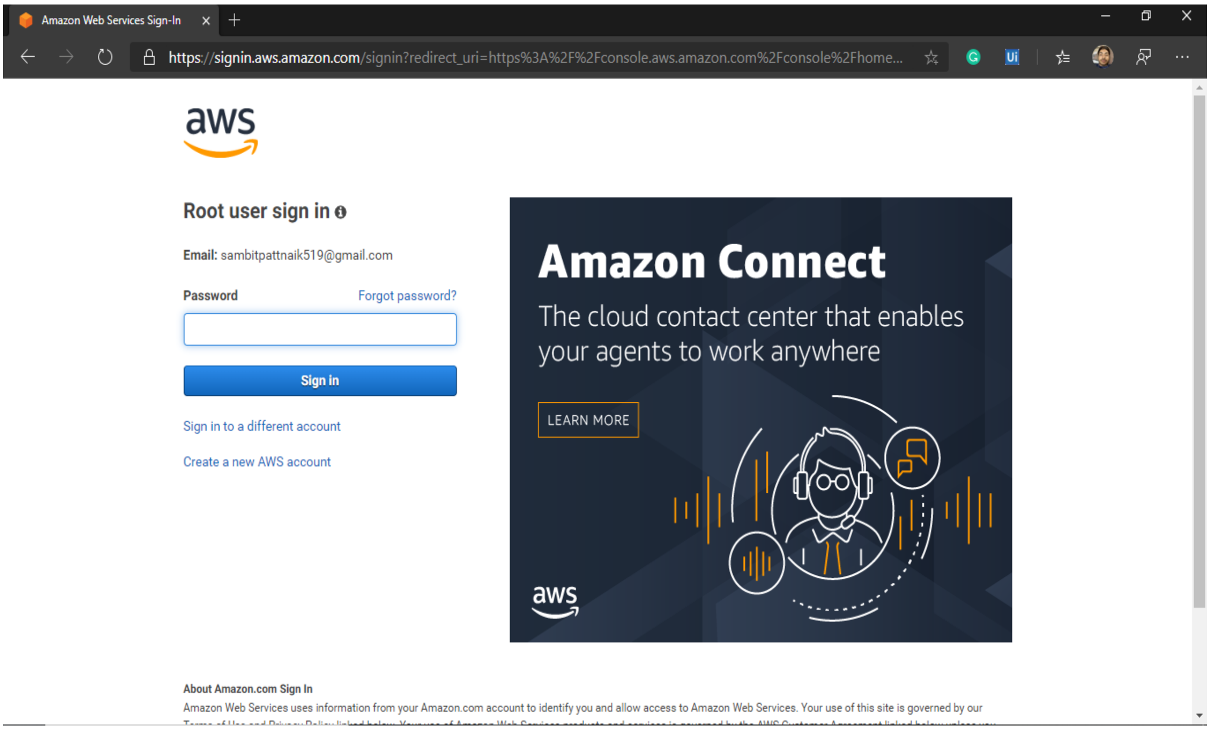
BUILD FACE DETECTION APP ON AWS

- The Projects uses the following services from AWS:-
  1.Elastic Cloud Compute (EC2)
  2.Simple Storage Service (S3)
  3.Rekognition

- User Service:
  1. Telegram

SCREENSHOTS FOR THE PROCESSES INVOLVED:-

- AWS LOGIN SCREEN WITH USERNAME:-


Amazon Web Services Sign-In
https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome...
aws
Forgot password?
Sign in
Sign in to a different account
Create a new AWS account
Amazon Connect
The cloud contact center that enables your agents to work anywhere
LEARN MORE
aws

Root user sign in

Email: sambitpattnaik519@gmail.com

Password

About Amazon.com Sign In

Amazon Web Services uses information from your Amazon.com account to identify you and allow access to Amazon Web Services. Your use of this site is governed by our

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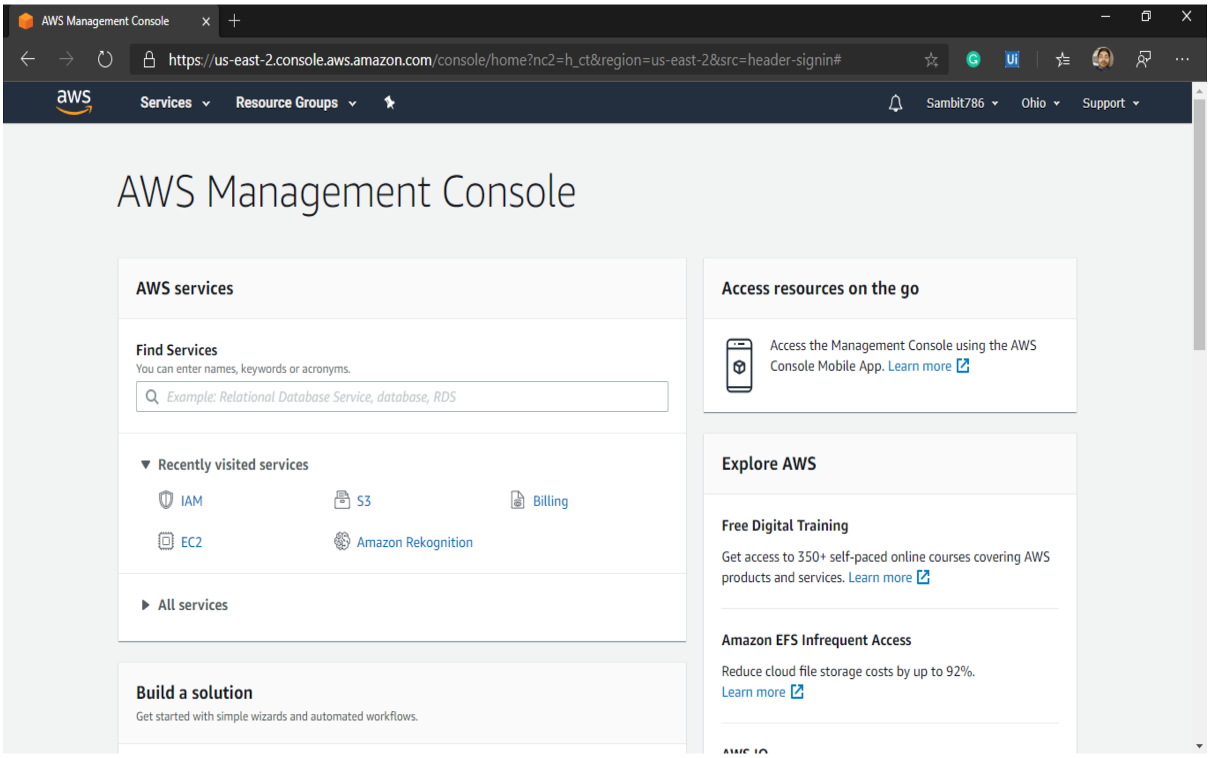

AWS Management Console
https://us-east-2.console.aws.amazon.com/console/home?nc2=h_ct&region=us-east-2&src=header-signin#
aws
Services
Resource Groups
Sambit786
Ohio
Support

AWS Management Console

AWS services

Find Services

You can enter names, keywords or acronyms.

Example: Relational Database Service, database, RDS

▼ Recently visited services

IAM S3 Billing

EC2 Amazon Rekognition

▶ All services

Build a solution

Get started with simple wizards and automated workflows.

Access resources on the go

Access the Management Console using the AWS Console Mobile App. Learn more

Explore AWS

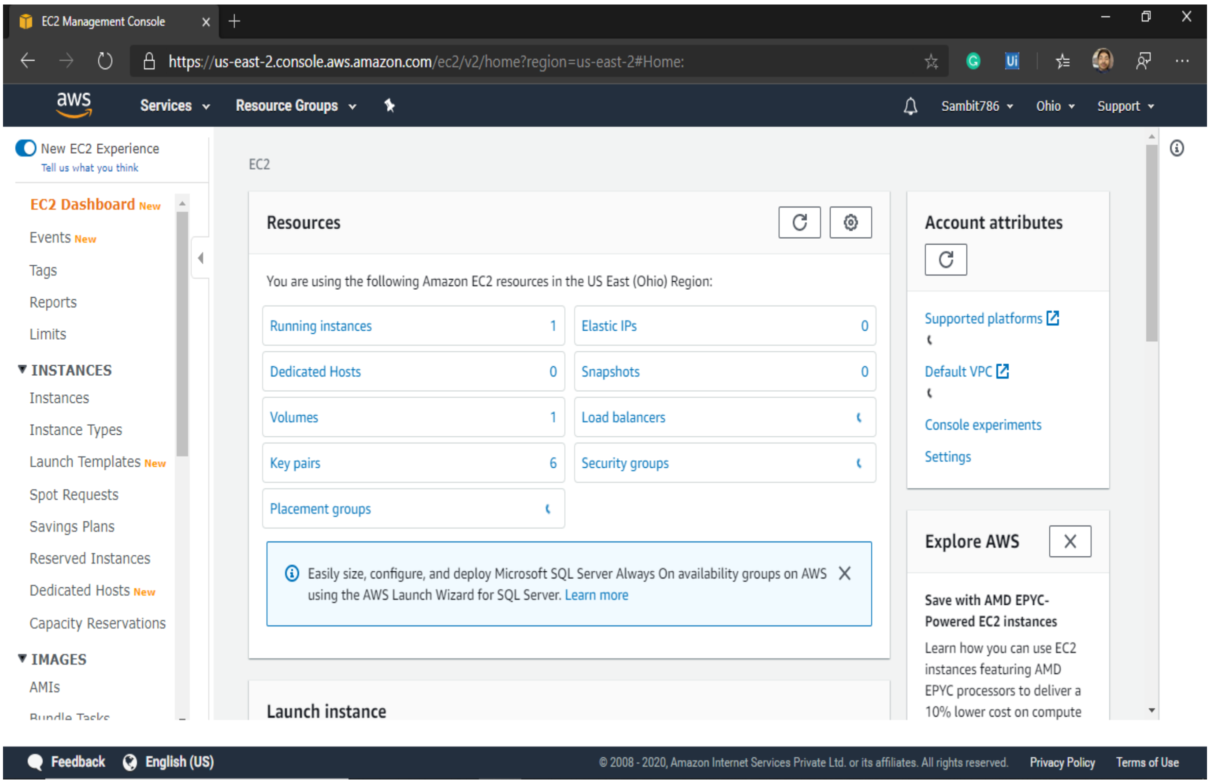
Free Digital Training

Get access to 350+ self-paced online courses covering AWS products and services. Learn more

Amazon EFS Infrequent Access

Reduce cloud file storage costs by up to 92%. Learn more

- **EC2 DASHBOARD:-**



EC2

Resources

You are using the following Amazon EC2 resources in the US East (Ohio) Region:

Running instances	1	Elastic IPs	0
Dedicated Hosts	0	Snapshots	0
Volumes	1	Load balancers	
Key pairs	6	Security groups	
Placement groups			

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more

Launch instance

Account attributes

Supported platforms

Default VPC

Console experiments

Settings

Explore AWS

Save with AMD EPYC-Powered EC2 instances

Learn how you can use EC2 instances featuring AMD EPYC processors to deliver a 10% lower cost on compute

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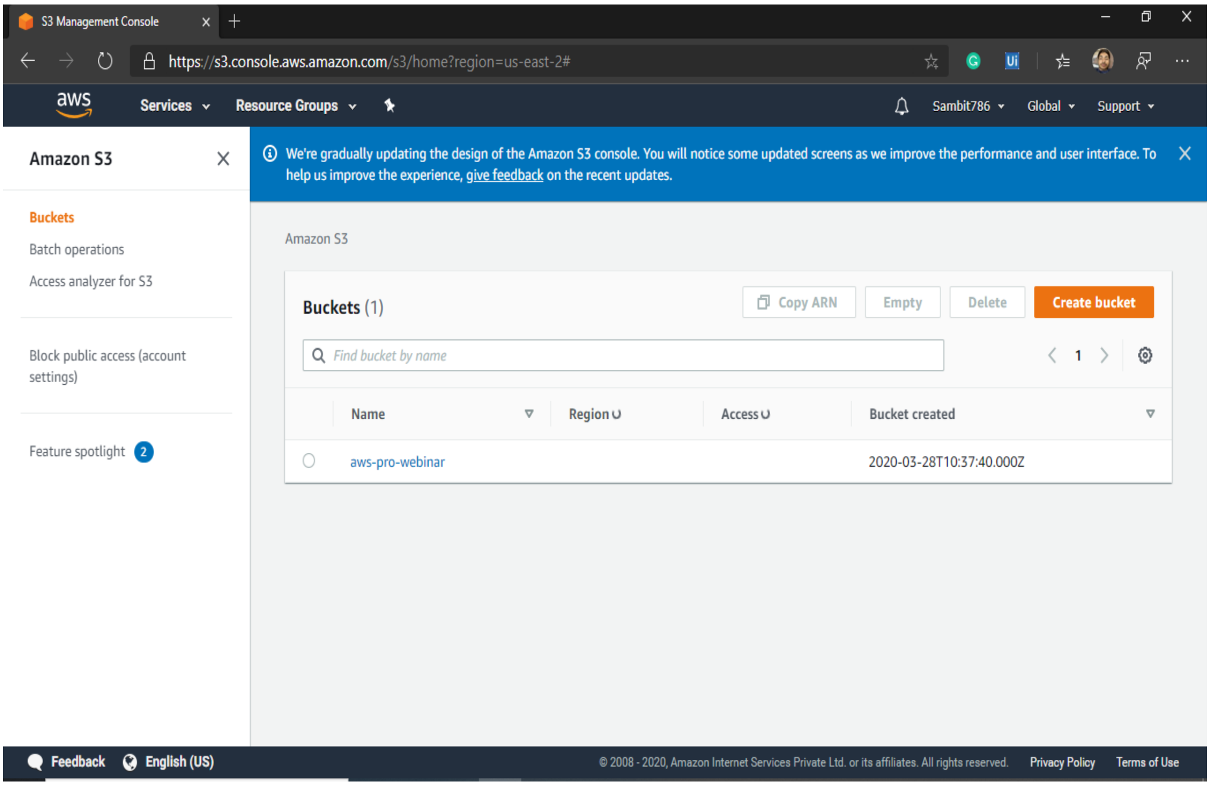
- ## S3 DASHBOARD:-



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.

Buckets (1)

Name	Region	Access	Bucket created
aws-pro-webinar			2020-03-28T10:37:40.000Z

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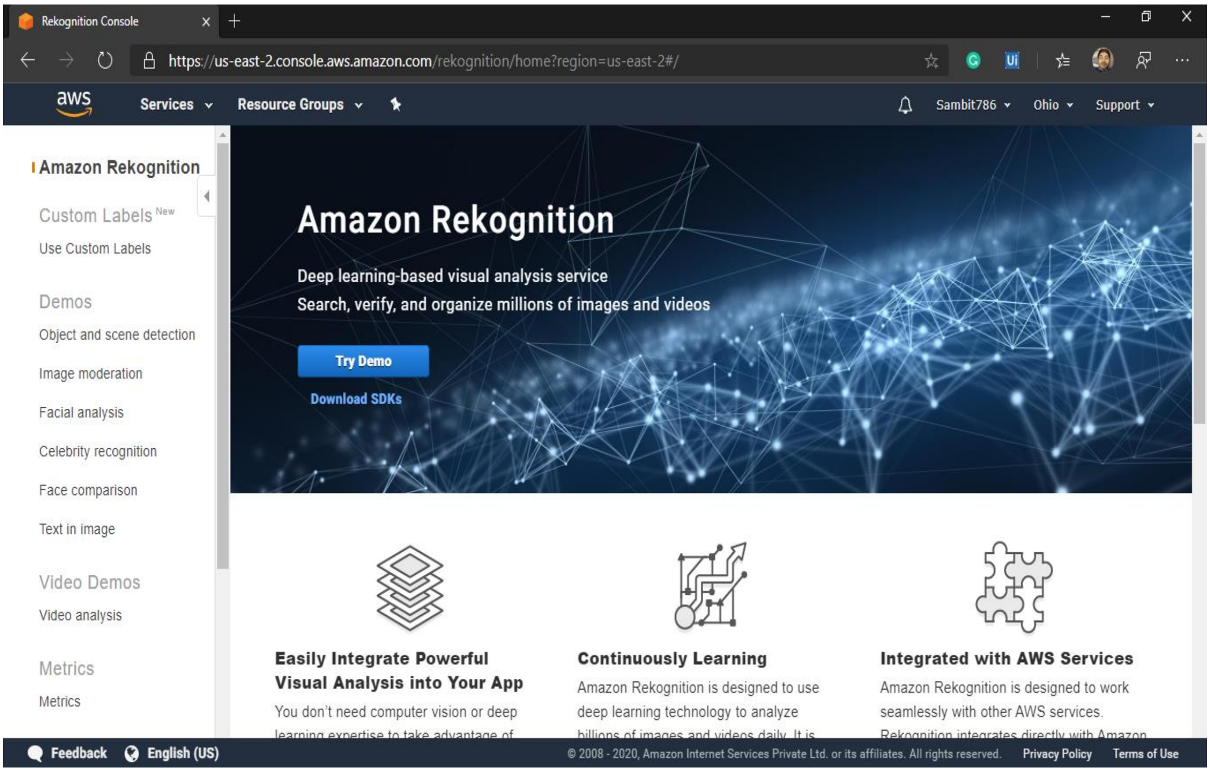
- ## REKOGNITION DASHBOARD:-



Amazon Rekognition

Deep learning-based visual analysis service

Search, verify, and organize millions of images and videos

Easily Integrate Powerful Visual Analysis into Your App

You don't need computer vision or deep learning expertise to take advantage of

Continuously Learning

Amazon Rekognition is designed to use deep learning technology to analyze billions of images and videos daily. It is

Integrated with AWS Services

Amazon Rekognition is designed to work seamlessly with other AWS services. Rekognition integrates directly with Amazon

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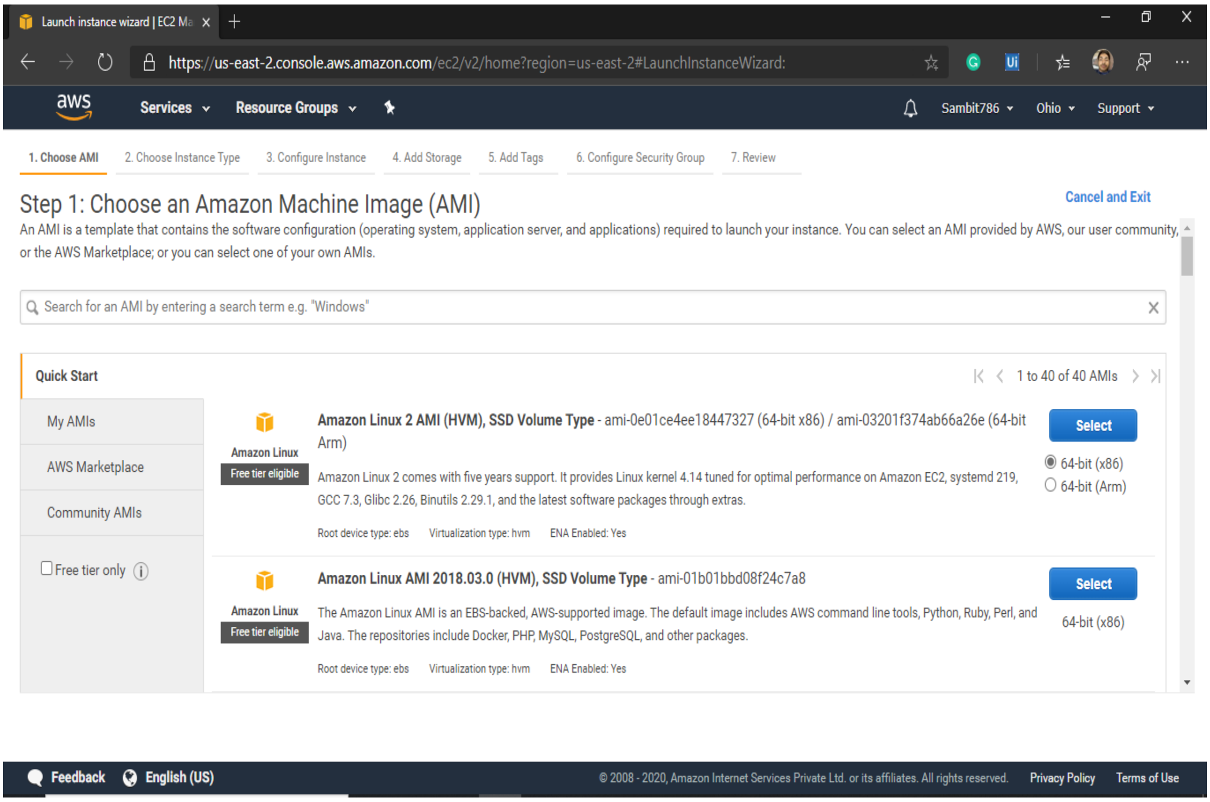
BUILD FACE DETECTION APP ON AWS

STEPS INVOLVED IN CREATING INSTANCES AND CONNECTING TO APACHE SERVER USING EC2:-

- **AMAZON MACHINE IMAGE (VIRTUAL O.S.):-**



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"

☐ 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

● 64-bit (x86)
○ 64-bit (Arm)

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

64-bit (x86)

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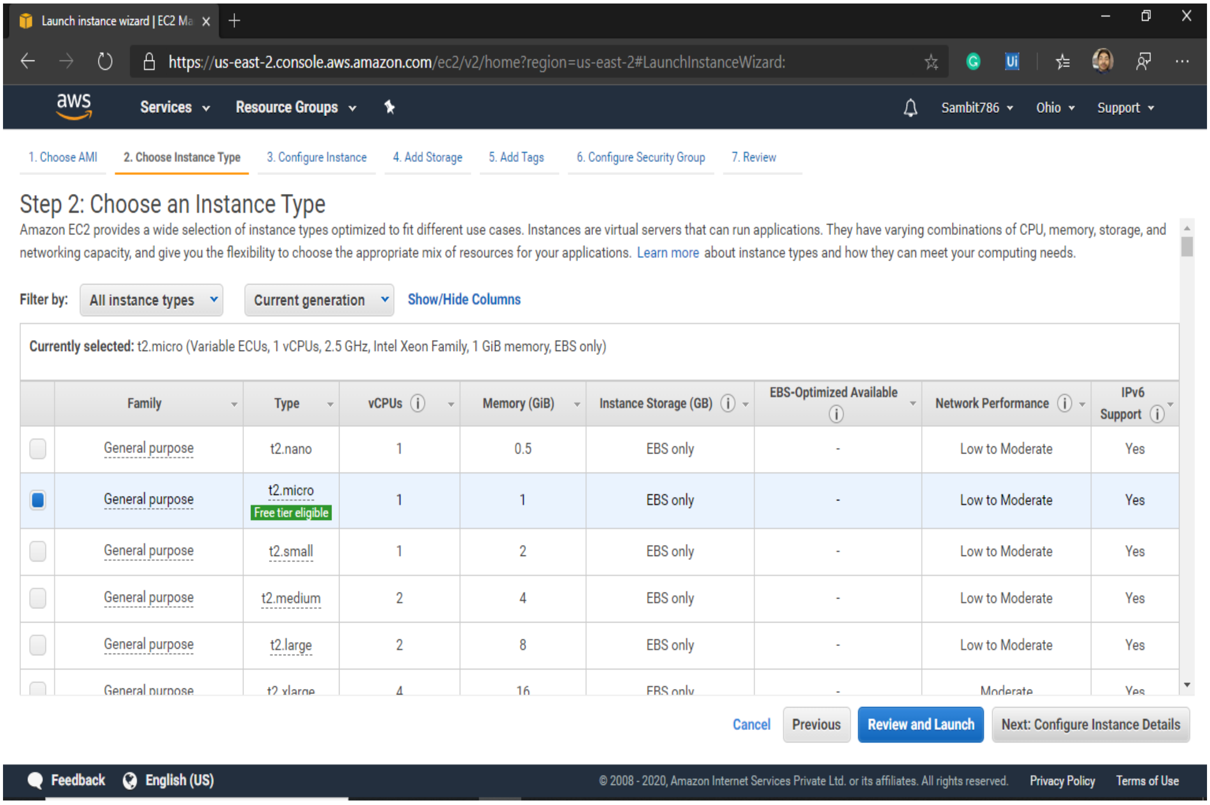
BUILD FACE DETECTION APP ON AWS

- **INSTANCE TYPE (USAGE OF no. of CPUs and Memory Space):-**


Launch instance wizard | EC2 Ma
https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
aws
Services
Resource Groups
Sambit786
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US)
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Privacy Policy
Terms of Use

Step 2: Choose an Instance Type

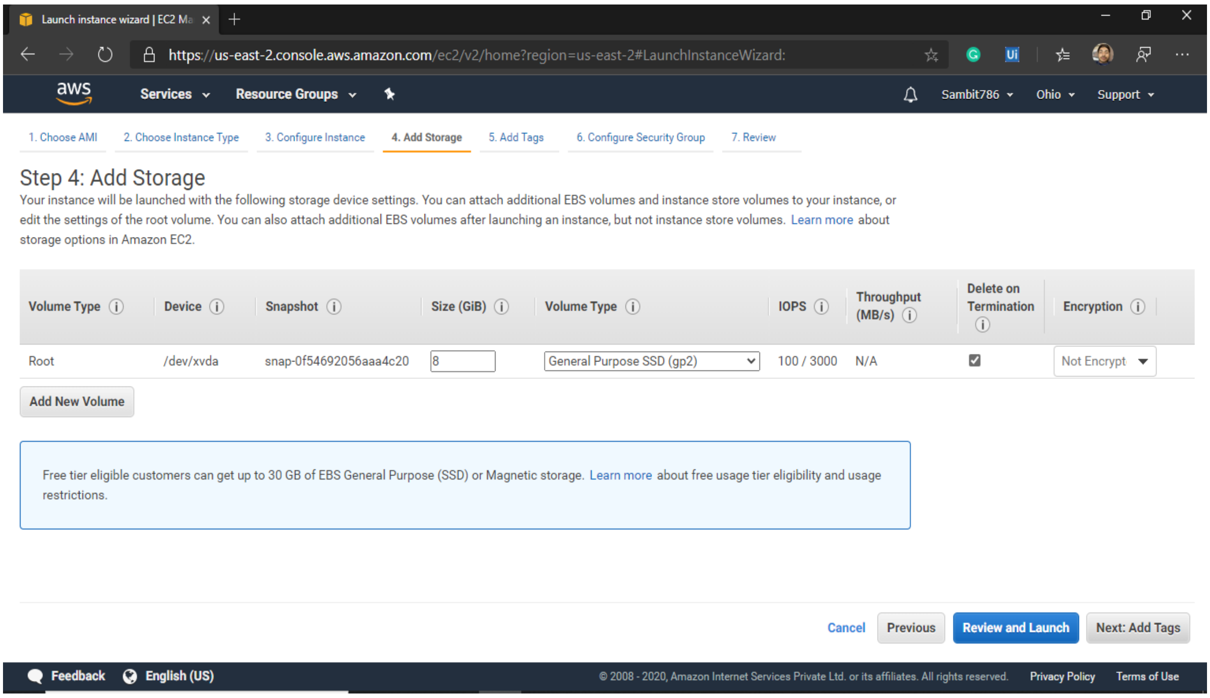
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources 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
□	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
■	General purpose	t2.micro 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

- **ADD STORAGE TO VIRTUAL MACHINE:-**



Step 4: Add Storage

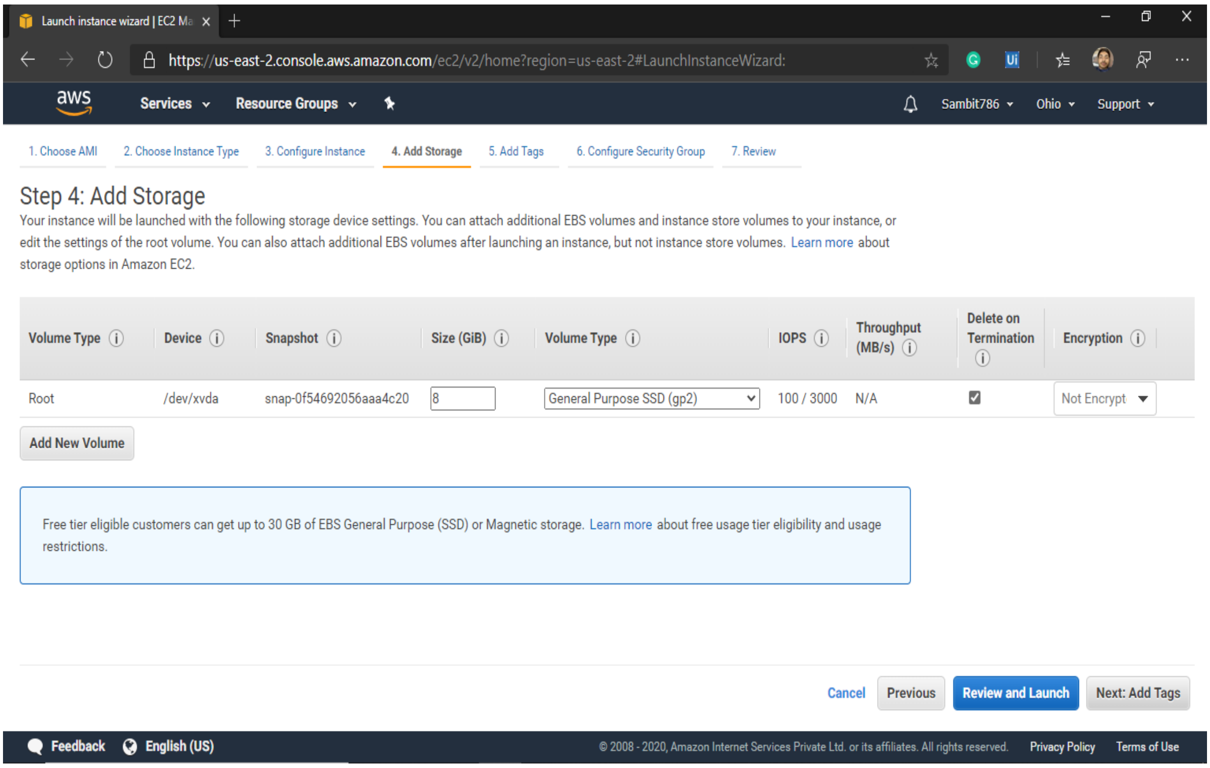
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. 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	☑	Not Encrypt

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.

BUILD FACE DETECTION APP ON AWS

- ## Configuring Security Groups:-



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

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	☑	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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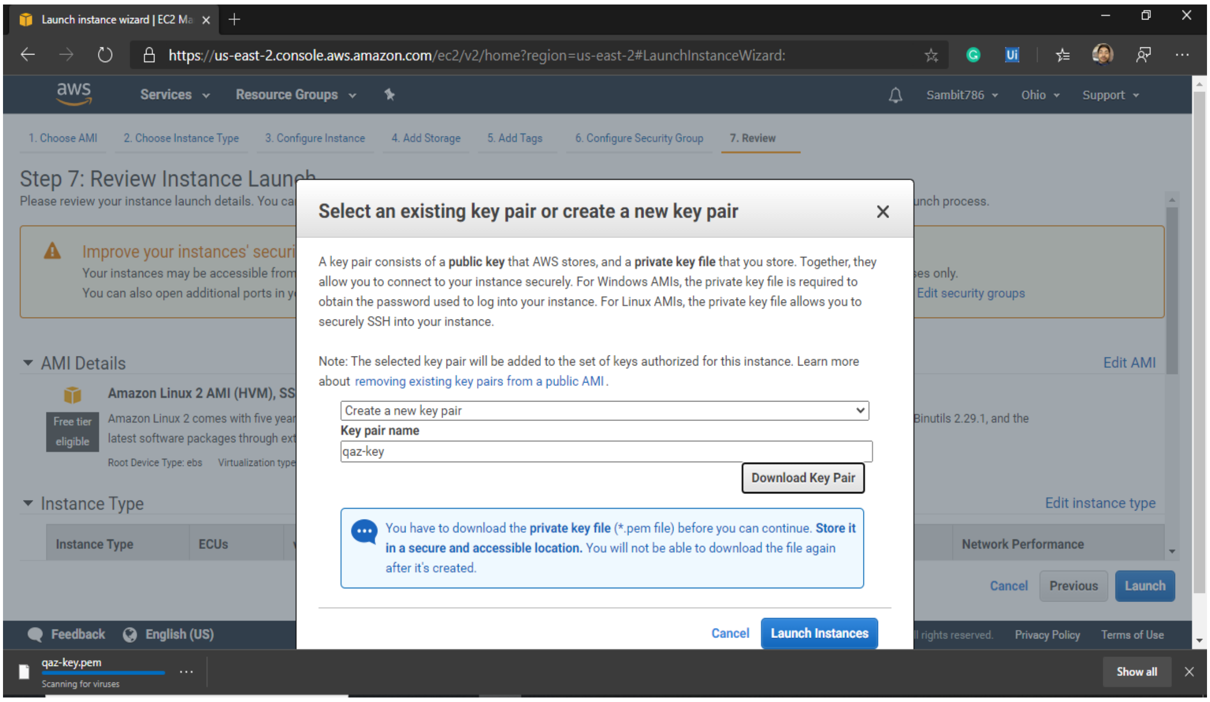
- ## KEY-PAIR DOWNLOAD:-



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

1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You ca … unch process.

Improve your instances' securi … Your instances may be accessible from … es only. You can also open additional ports in y … Edit security groups

AMI Details — Edit AMI

Amazon Linux 2 AMI (HVM), SS … Amazon Linux 2 comes with five year … Binutils 2.29.1, and the latest software packages through ext … Root Device Type: ebs Virtualization type

Instance Type — Edit instance type

Instance Type	ECUs	…	Network Performance

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

qaz-key

Download Key Pair

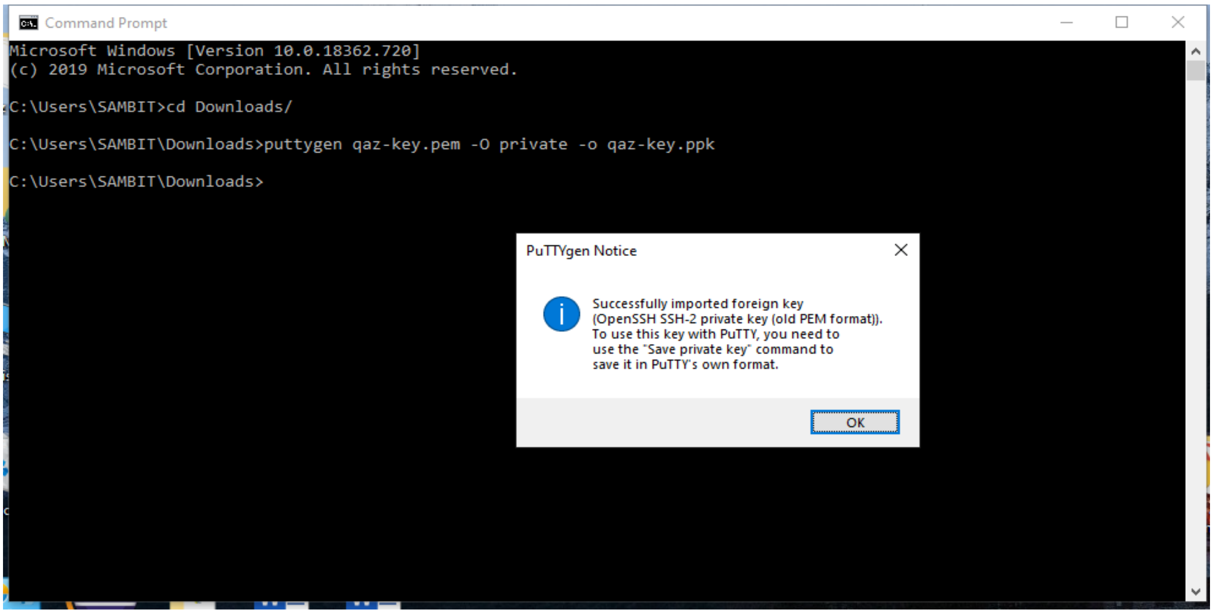
You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel | Launch Instances

qaz-key.pem — Scanning for viruses

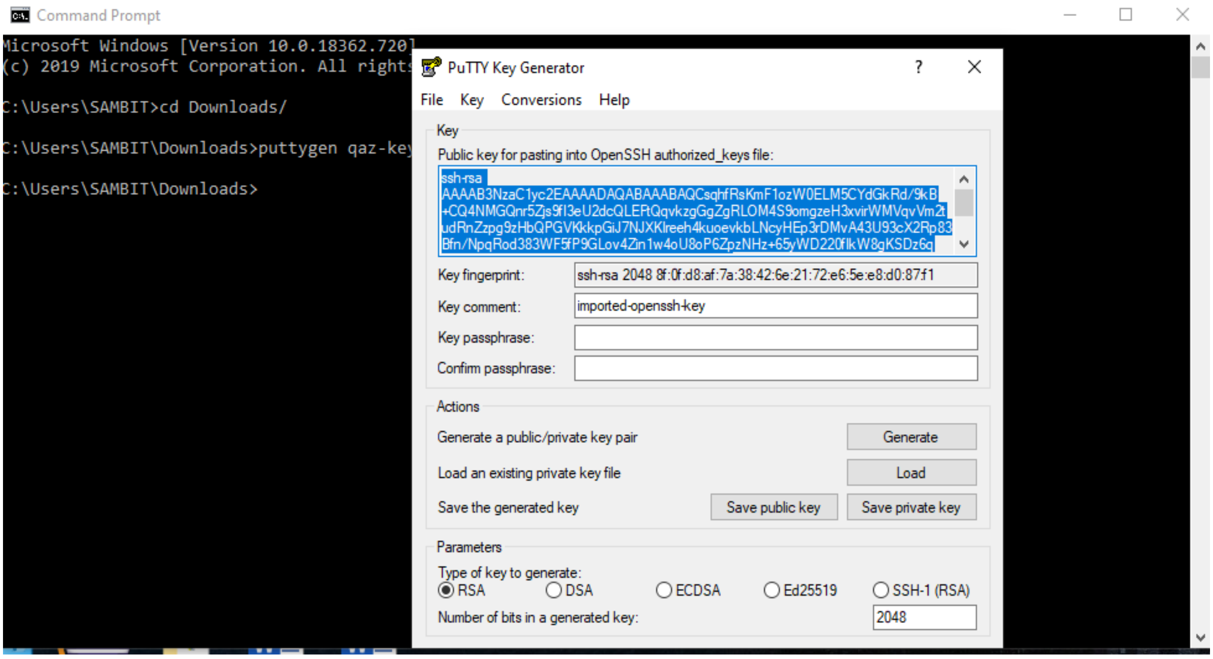
BUILD FACE DETECTION APP ON AWS

- **PUTTYGEN CONVERSION FROM .pem to .ppk:-**



```
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\SAMBIT>cd Downloads/

C:\Users\SAMBIT\Downloads>puttygen qaz-key.pem -O private -o qaz-key.ppk

C:\Users\SAMBIT\Downloads>
```

Successfully imported foreign key (OpenSSH SSH-2 private key (old PEM format)). To use this key with PuTTY, you need to use the "Save private key" command to save it in PuTTY's own format.



```
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights

C:\Users\SAMBIT>cd Downloads/

C:\Users\SAMBIT\Downloads>puttygen qaz-key

C:\Users\SAMBIT\Downloads>
```

Public key for pasting into OpenSSH authorized_keys file:

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQCsqhfRsKmF1ozW0ELM5CYdGkRd/9kB
+CQ4NMGQnr5Zjs9fI3eU2dcQLERtQqvkzgGgZgRLOM4S9omgzeH3xvirWMVqvVm2t
udRnZzpg9zHbQPGVKkkpGiJ7NJXKIreeh4kuoevkbLNcyHEp3rDMvA43U93cX2Rp83
Bfn/NpqRod383WF5fP9GLov4Zin1w4oU8oP6ZpzNHz+65yWD220fIkW8gKSDz6q
```

Key fingerprint: ssh-rsa 2048 8f:0f:d8:af:7a:38:42:6e:21:72:e6:5e:e8:d0:87f1

Key comment: imported-openssh-key

Key passphrase:

Confirm passphrase:

Generate a public/private key pair

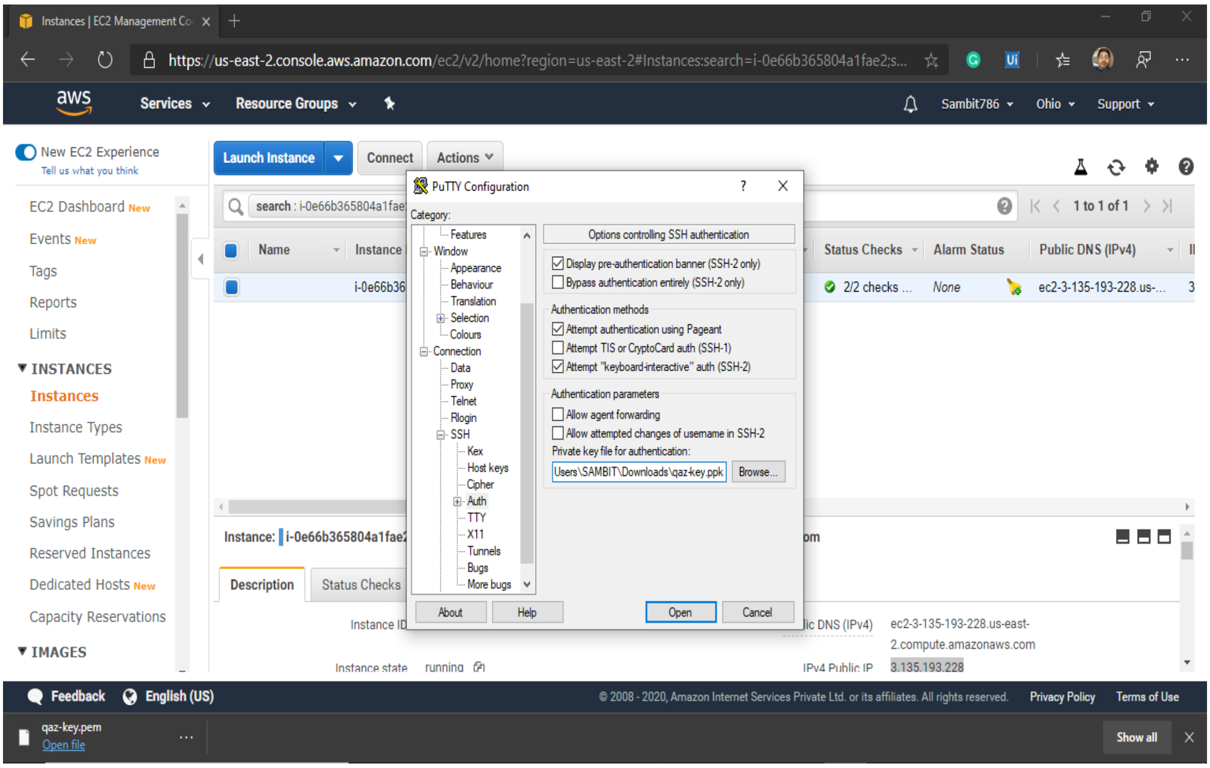
Load an existing private key file

Save the generated key

Type of key to generate:
● RSA ○ DSA ○ ECDSA ○ Ed25519 ○ SSH-1 (RSA)

Number of bits in a generated key: 2048

BUILD FACE DETECTION APP ON AWS



PuTTY Configuration

Category:

Options controlling SSH authentication

☑ Display pre-authentication banner (SSH-2 only)
□ Bypass authentication entirely (SSH-2 only)

Authentication methods

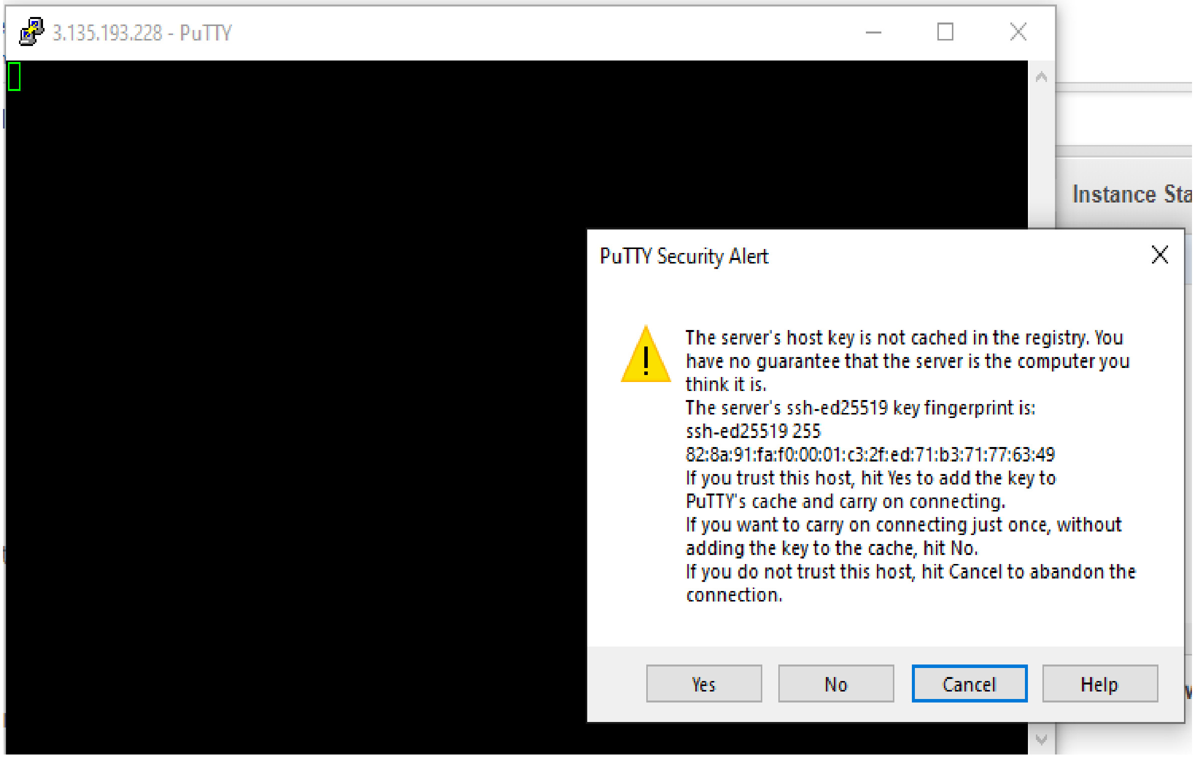
☑ Attempt authentication using Pageant
□ Attempt TIS or CryptoCard auth (SSH-1)
☑ Attempt "keyboard-interactive" auth (SSH-2)

Authentication parameters

□ Allow agent forwarding
□ Allow attempted changes of username in SSH-2

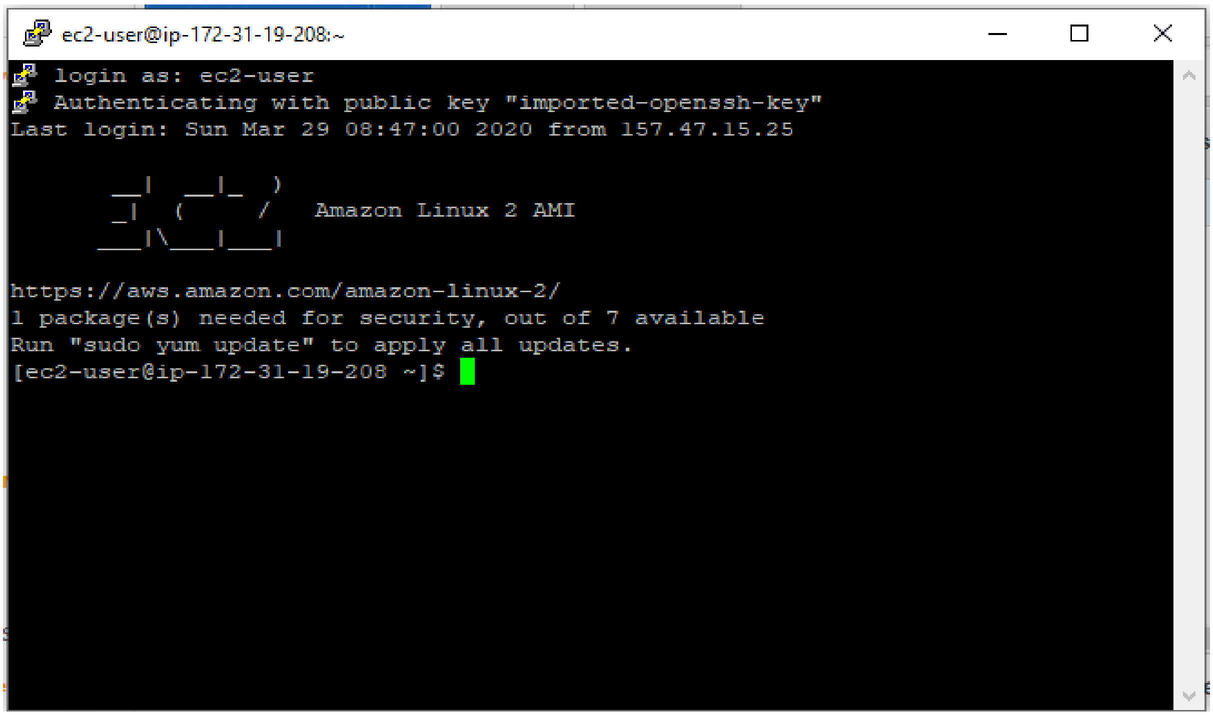
Private key file for authentication:
Users\SAMBIT\Downloads\qaz-key.ppk Browse...

- **LOGGED IN EC2 BLACK PUTTY SOFTWARE SCREEN:-**



The server's host key is not cached in the registry. You have no guarantee that the server is the computer you think it is.
The server's ssh-ed25519 key fingerprint is:
ssh-ed25519 255
82:8a:91:fa:f0:00:01:c3:2f:ed:71:b3:71:77:63:49
If you trust this host, hit Yes to add the key to PuTTY's cache and carry on connecting.
If you want to carry on connecting just once, without adding the key to the cache, hit No.
If you do not trust this host, hit Cancel to abandon the connection.

BUILD FACE DETECTION APP ON AWS

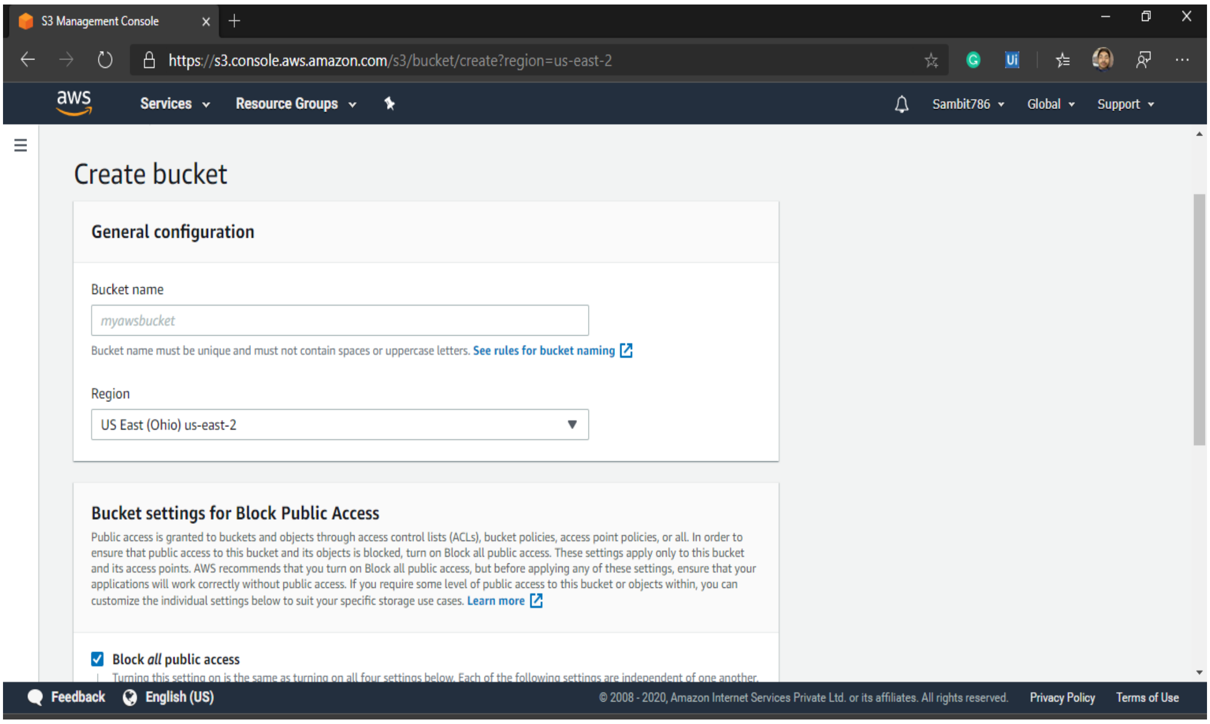


```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Mar 29 08:47:00 2020 from 157.47.15.25

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-19-208 ~]$
```

BUILD FACE DETECTION APP ON AWS

STEPS INVOLVED IN TASKING S3 AND ITS BUCKETS:-

- **CREATING A BUCKET:-**


S3 Management Console
https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-2
aws
Services
Resource Groups
Sambit786
Global
Support
Feedback
English (US)
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Terms of Use

Create bucket

General configuration

Bucket name

myawsbucket

Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming

Region

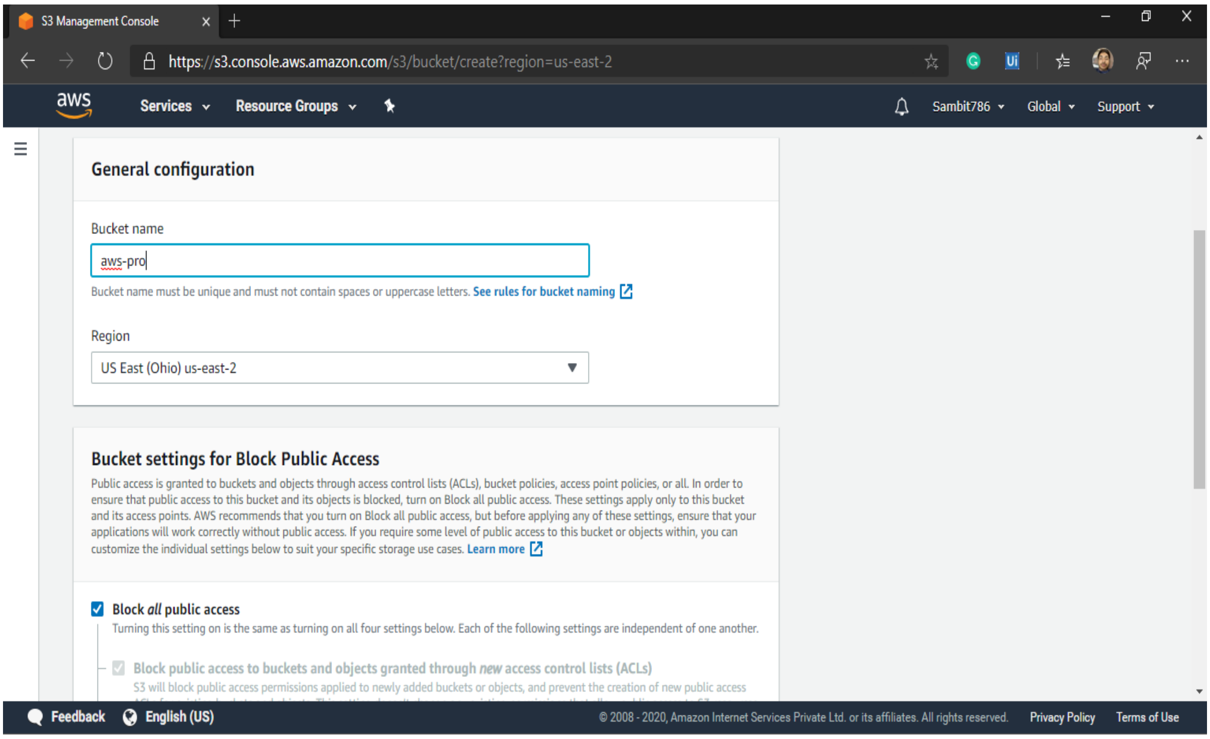
US East (Ohio) us-east-2

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.


S3 Management Console
https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-2
aws
Services
Resource Groups
Sambit786
Global
Support
Feedback
English (US)
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Privacy Policy
Terms of Use

General configuration

Bucket name

aws-pro

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

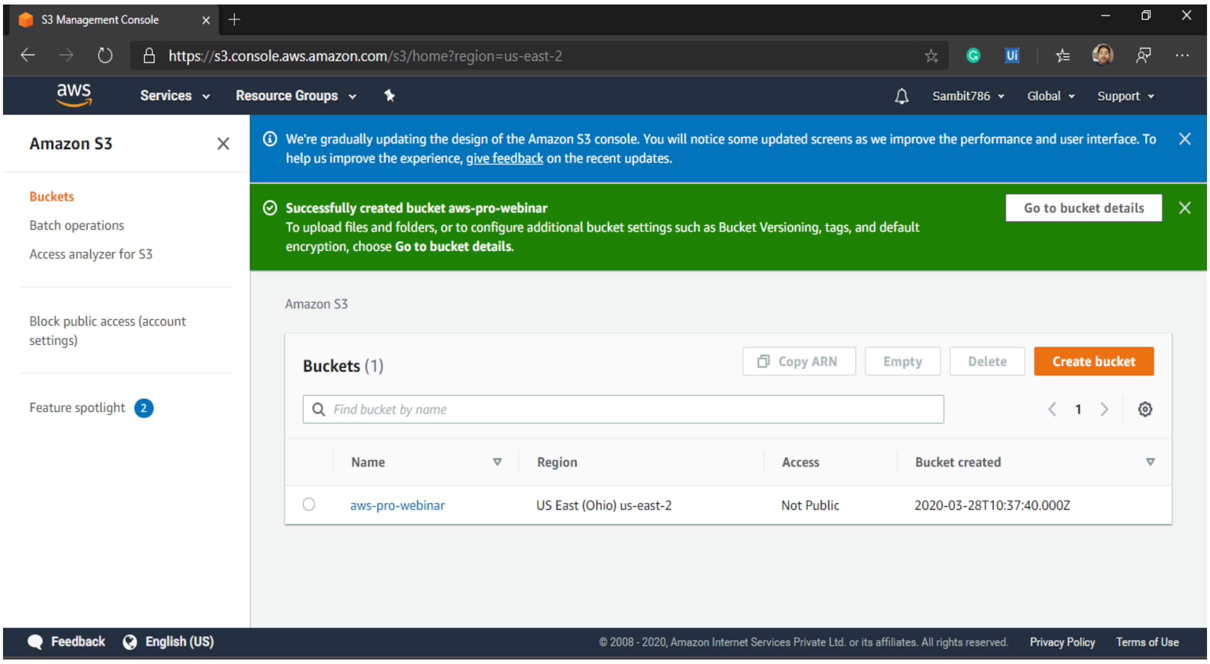
☑ Block *all* public access

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

BUILD FACE DETECTION APP ON AWS



https://s3.console.aws.amazon.com/s3/home?region=us-east-2

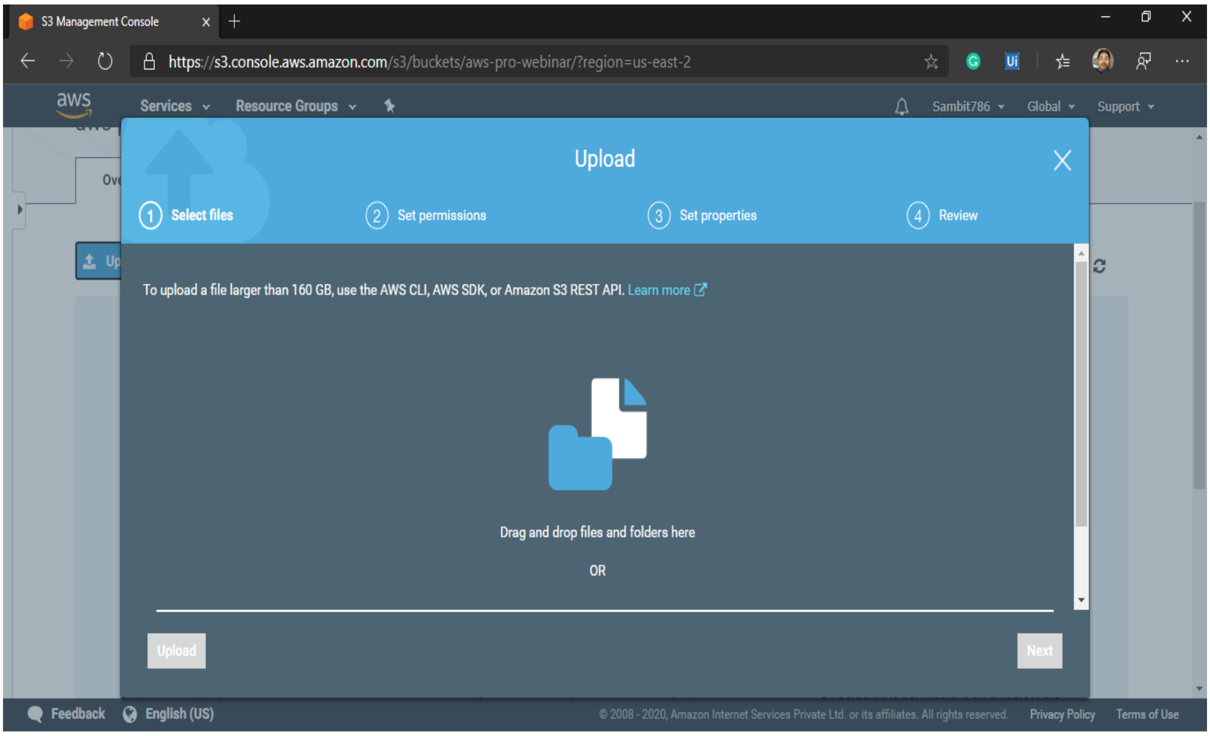
We're gradually updating the design of the Amazon S3 console. You will notice some updated screens as we improve the performance and user interface. To help us improve the experience, give feedback on the recent updates.

Successfully created bucket aws-pro-webinar
To upload files and folders, or to configure additional bucket settings such as Bucket Versioning, tags, and default encryption, choose Go to bucket details.

Buckets (1)

Name	Region	Access	Bucket created
aws-pro-webinar	US East (Ohio) us-east-2	Not Public	2020-03-28T10:37:40.000Z

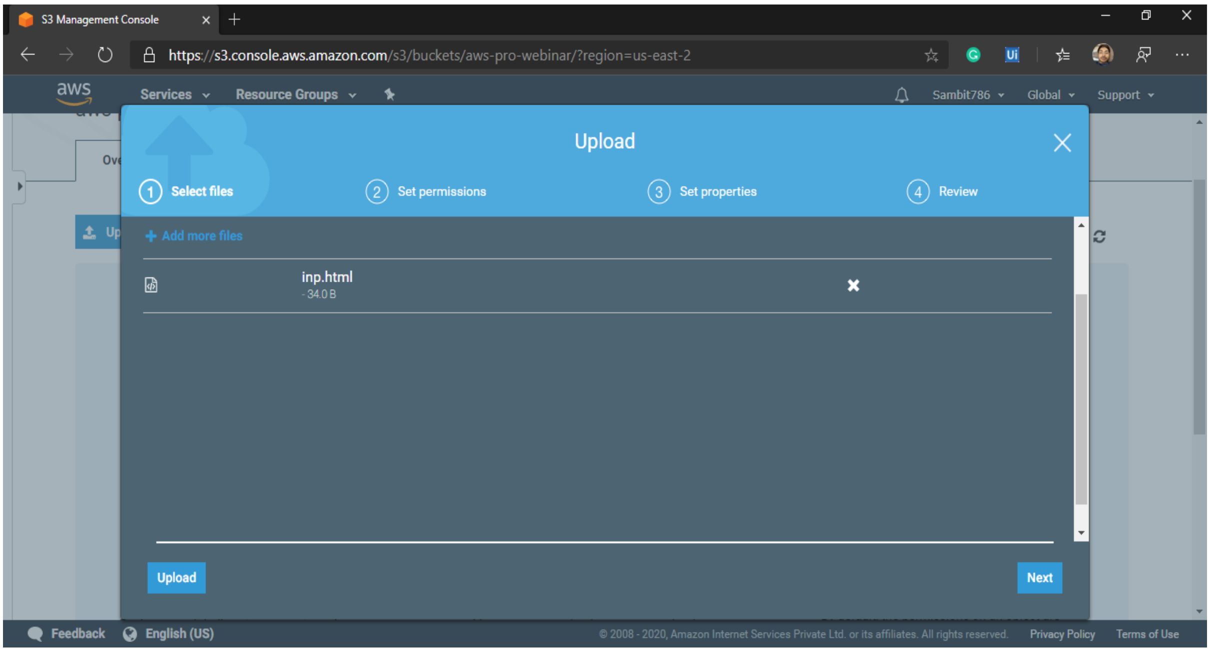
- ## UPLOADING AN OBJECT INTO THE BUCKET:-

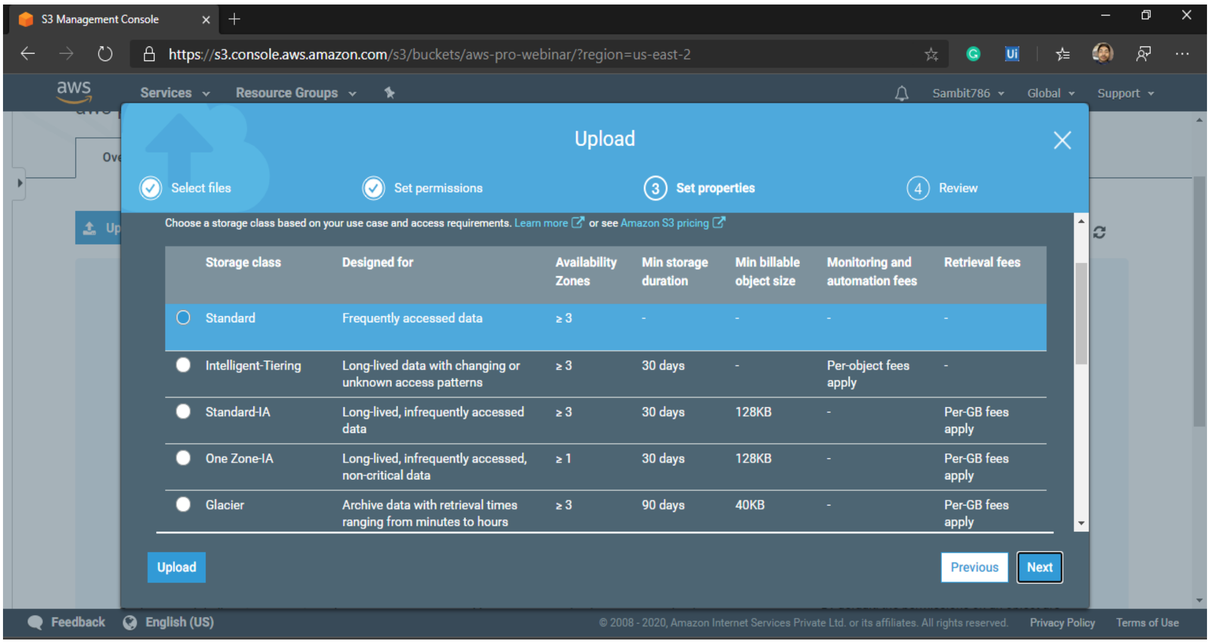


https://s3.console.aws.amazon.com/s3/buckets/aws-pro-webinar/?region=us-east-2

To upload a file larger than 160 GB, use the AWS CLI, AWS SDK, or Amazon S3 REST API. Learn more

BUILD FACE DETECTION APP ON AWS

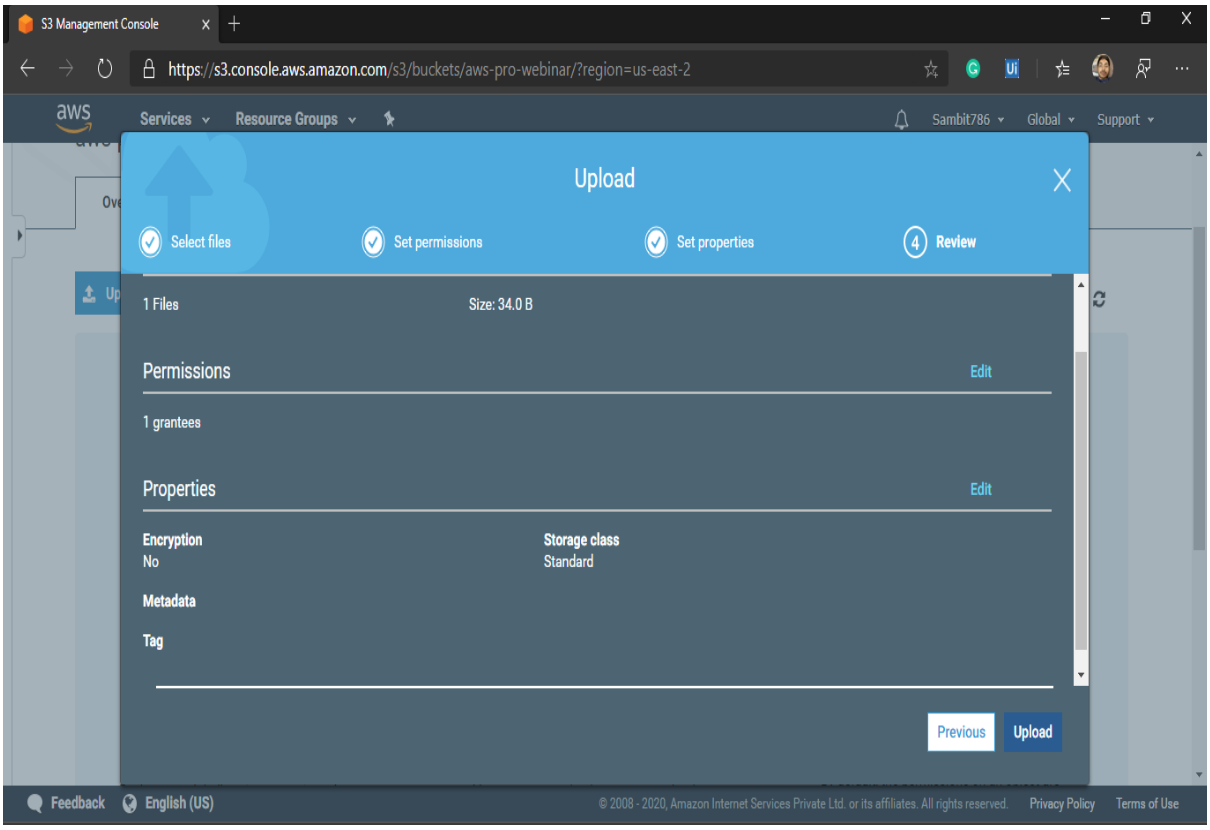




Choose a storage class based on your use case and access requirements. Learn more or see Amazon S3 pricing

	Storage class	Designed for	Availability Zones	Min storage duration	Min billable object size	Monitoring and automation fees	Retrieval fees
○	Standard	Frequently accessed data	≥ 3	-	-	-	-
○	Intelligent-Tiering	Long-lived data with changing or unknown access patterns	≥ 3	30 days	-	Per-object fees apply	-
○	Standard-IA	Long-lived, infrequently accessed data	≥ 3	30 days	128KB	-	Per-GB fees apply
○	One Zone-IA	Long-lived, infrequently accessed, non-critical data	≥ 1	30 days	128KB	-	Per-GB fees apply
○	Glacier	Archive data with retrieval times ranging from minutes to hours	≥ 3	90 days	40KB	-	Per-GB fees apply

BUILD FACE DETECTION APP ON AWS



1 Files Size: 34.0 B

Permissions

1 grantees

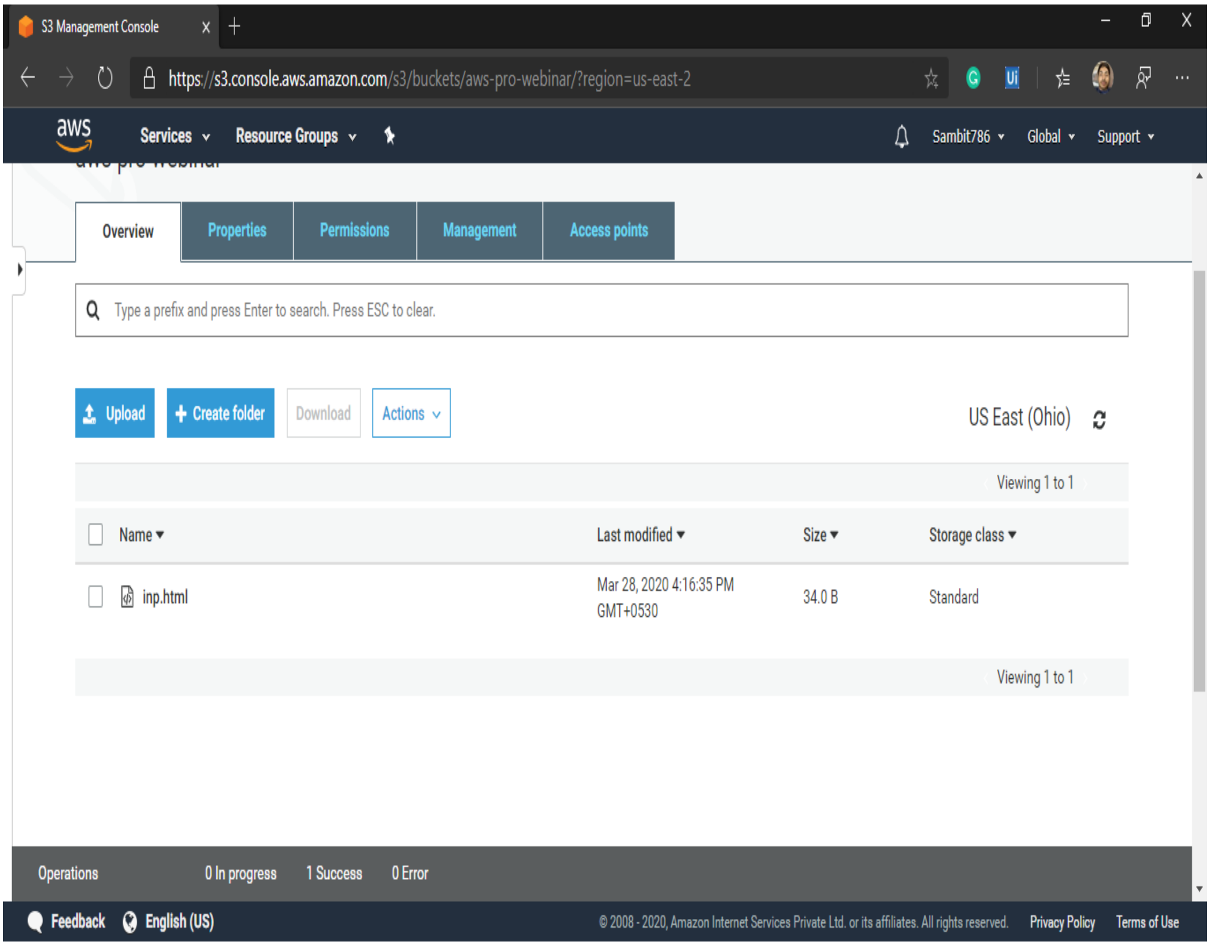
Properties

Encryption No

Storage class Standard

Metadata

Tag


S3 Management Console
https://s3.console.aws.amazon.com/s3/buckets/aws-pro-webinar/?region=us-east-2
aws
Services
Resource Groups
Sambit786
Global
Support
Overview
Properties
Permissions
Management
Access points
Type a prefix and press Enter to search. Press ESC to clear.
Upload
+ Create folder
Download
Actions
Feedback
English (US)
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Privacy Policy
Terms of Use

US East (Ohio)

Viewing 1 to 1

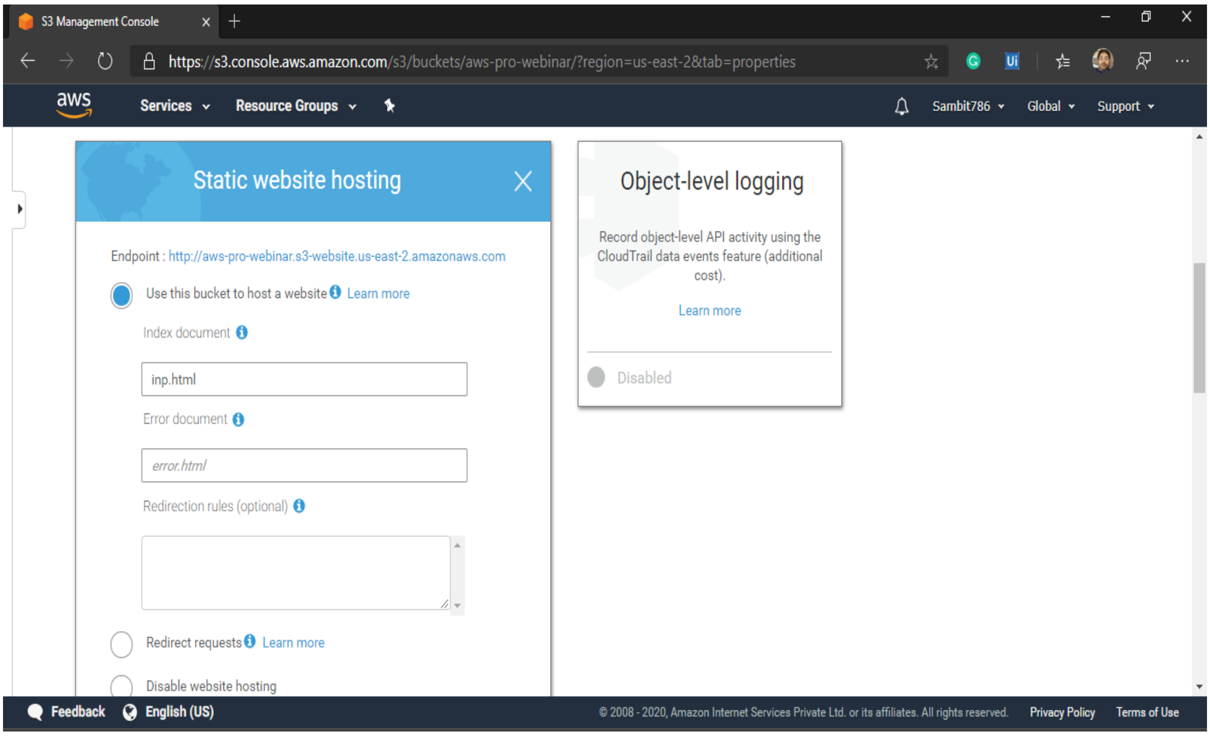
□ Name ▾	Last modified ▾	Size ▾	Storage class ▾
□ inp.html	Mar 28, 2020 4:16:35 PM GMT+0530	34.0 B	Standard

Viewing 1 to 1

Operations 0 In progress 1 Success 0 Error

BUILD FACE DETECTION APP ON AWS

- ## ENABLING STATIC WEBSITE:-


S3 Management Console
https://s3.console.aws.amazon.com/s3/buckets/aws-pro-webinar/?region=us-east-2&tab=properties
aws
Services
Resource Groups
Sambit786
Global
Support

Static website hosting

Endpoint : http://aws-pro-webinar.s3-website.us-east-2.amazonaws.com

● Use this bucket to host a website Learn more

Index document: inp.html

Error document: error.html

Redirection rules (optional)

○ Redirect requests Learn more

○ Disable website hosting

Object-level logging

Record object-level API activity using the CloudTrail data events feature (additional cost).

Learn more

Disabled

Feedback
English (US)
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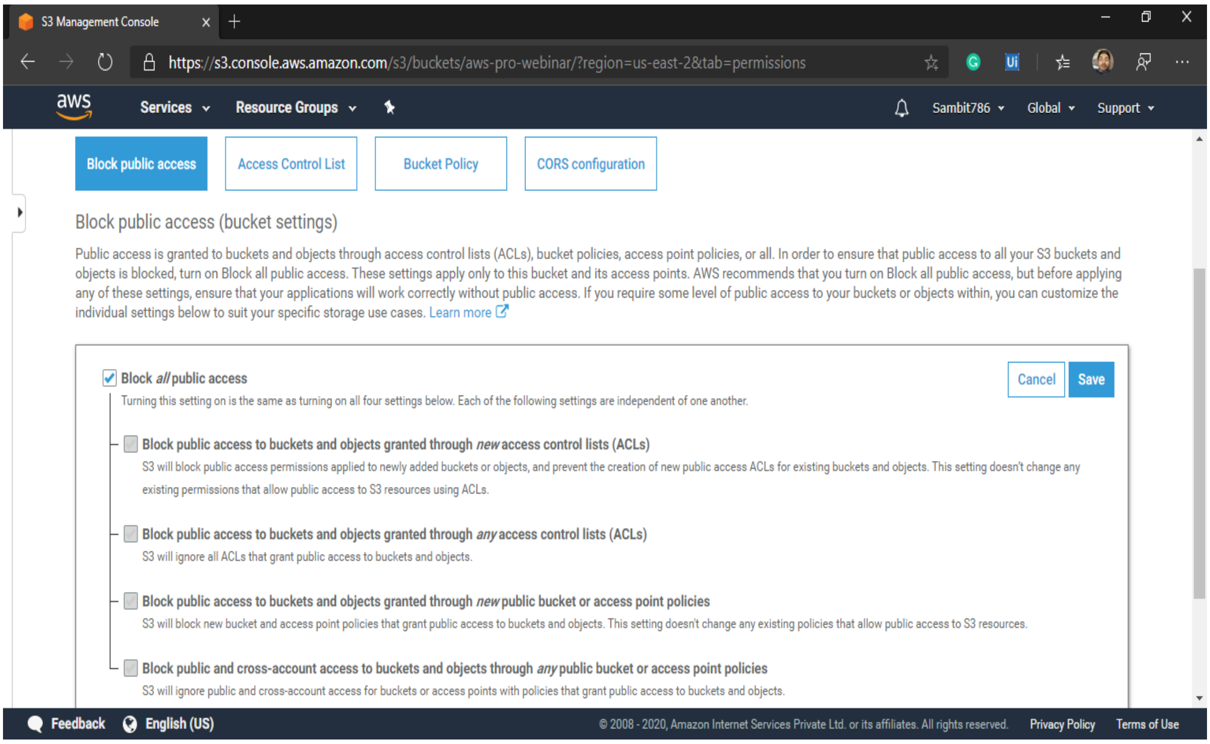
- ## MAKING THE OBJECT PUBLIC:-



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.

Cancel
Save
Feedback
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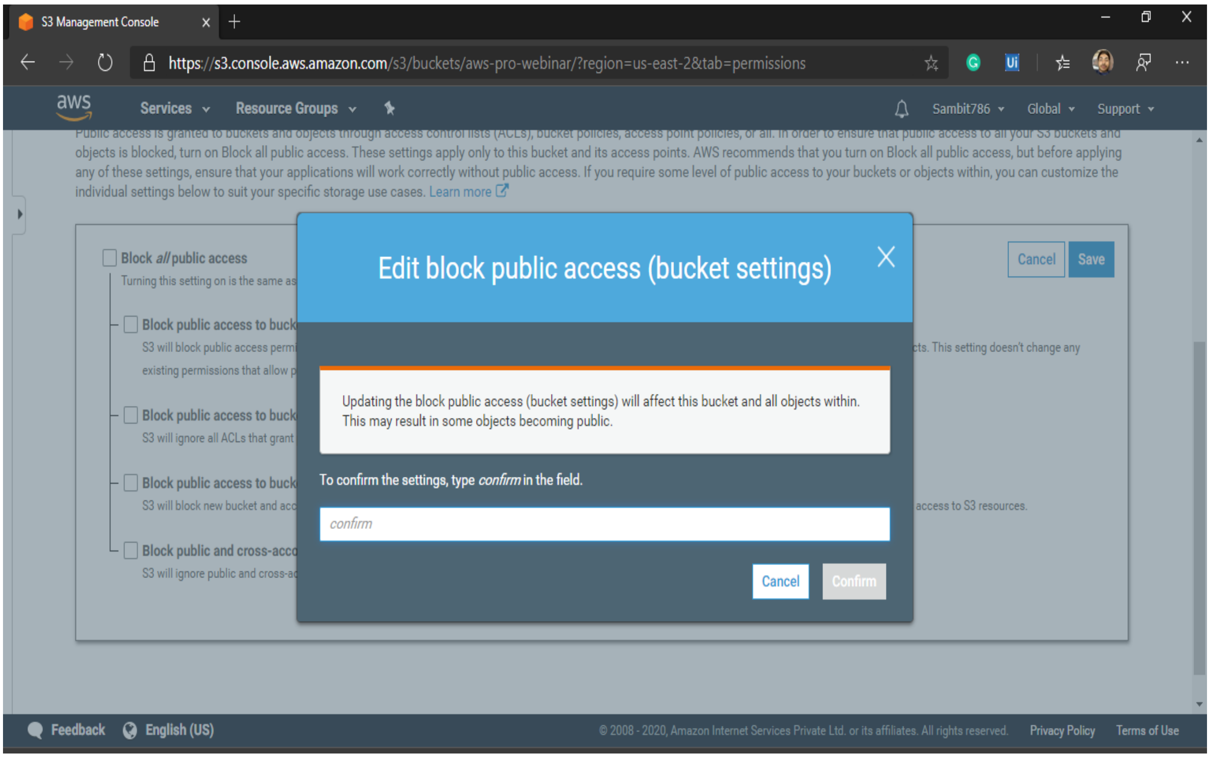
BUILD FACE DETECTION APP ON AWS


S3 Management Console
https://s3.console.aws.amazon.com/s3/buckets/aws-pro-webinar/?region=us-east-2&tab=permissions
aws
Services
Resource Groups
Sambit786
Global
Support

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

□ Block public access to buck
S3 will block public access perm ... ts. This setting doesn't change any existing permissions that allow p

□ Block public access to buck
S3 will ignore all ACLs that grant

□ Block public access to buck
S3 will block new bucket and acc ... access to S3 resources.

□ Block public and cross-acco
S3 will ignore public and cross-ac

Cancel Save

Edit block public access (bucket settings)

Updating the block public access (bucket settings) will affect this bucket and all objects within. This may result in some objects becoming public.

To confirm the settings, type *confirm* in the field.

confirm

Cancel Confirm

Feedback
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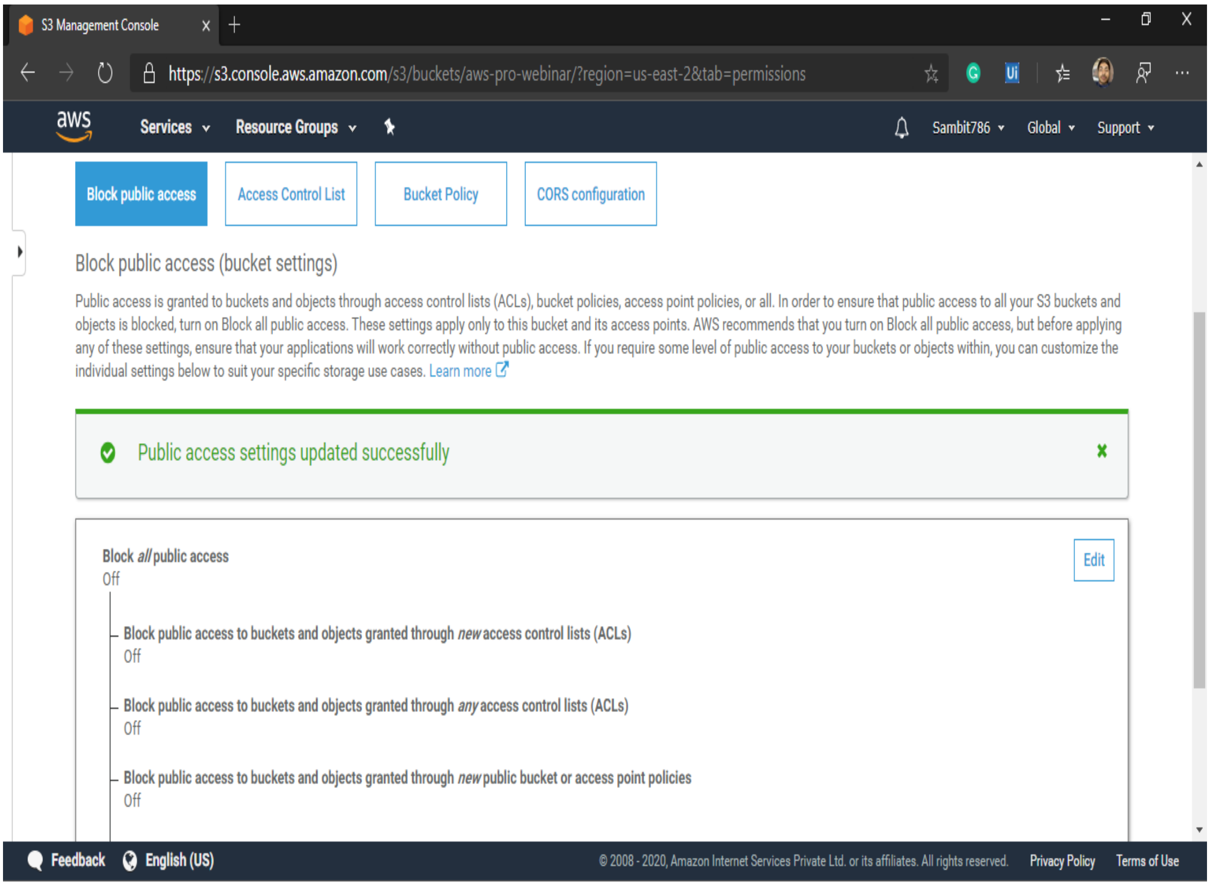
S3 Management Console
https://s3.console.aws.amazon.com/s3/buckets/aws-pro-webinar/?region=us-east-2&tab=permissions
aws
Services
Resource Groups
Sambit786
Global
Support
Block public access
Access Control List
Bucket Policy
CORS configuration

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

✓ Public access settings updated successfully

Block *all* public access
Off

Edit

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

Feedback
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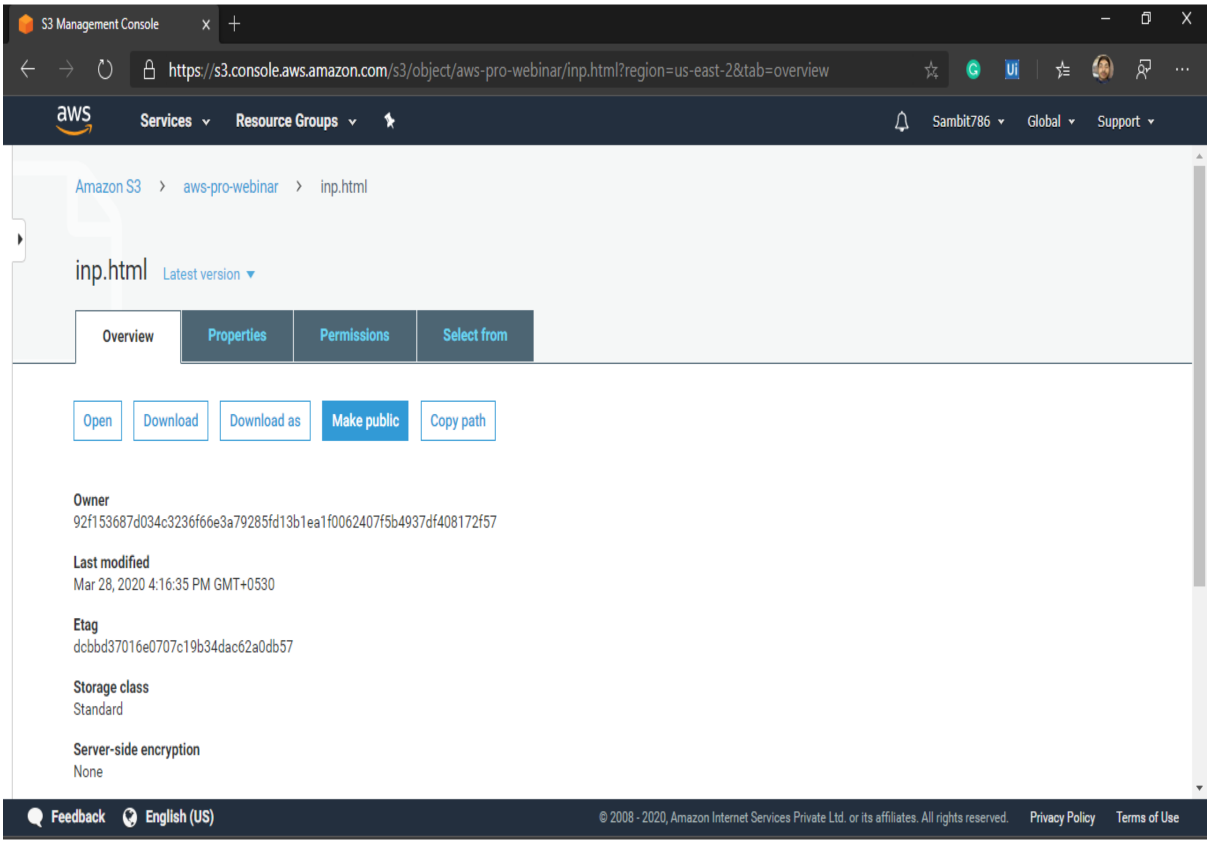
BUILD FACE DETECTION APP ON AWS



https://s3.console.aws.amazon.com/s3/object/aws-pro-webinar/inp.html?region=us-east-2&tab=overview

Amazon S3 › aws-pro-webinar › inp.html

inp.html Latest version

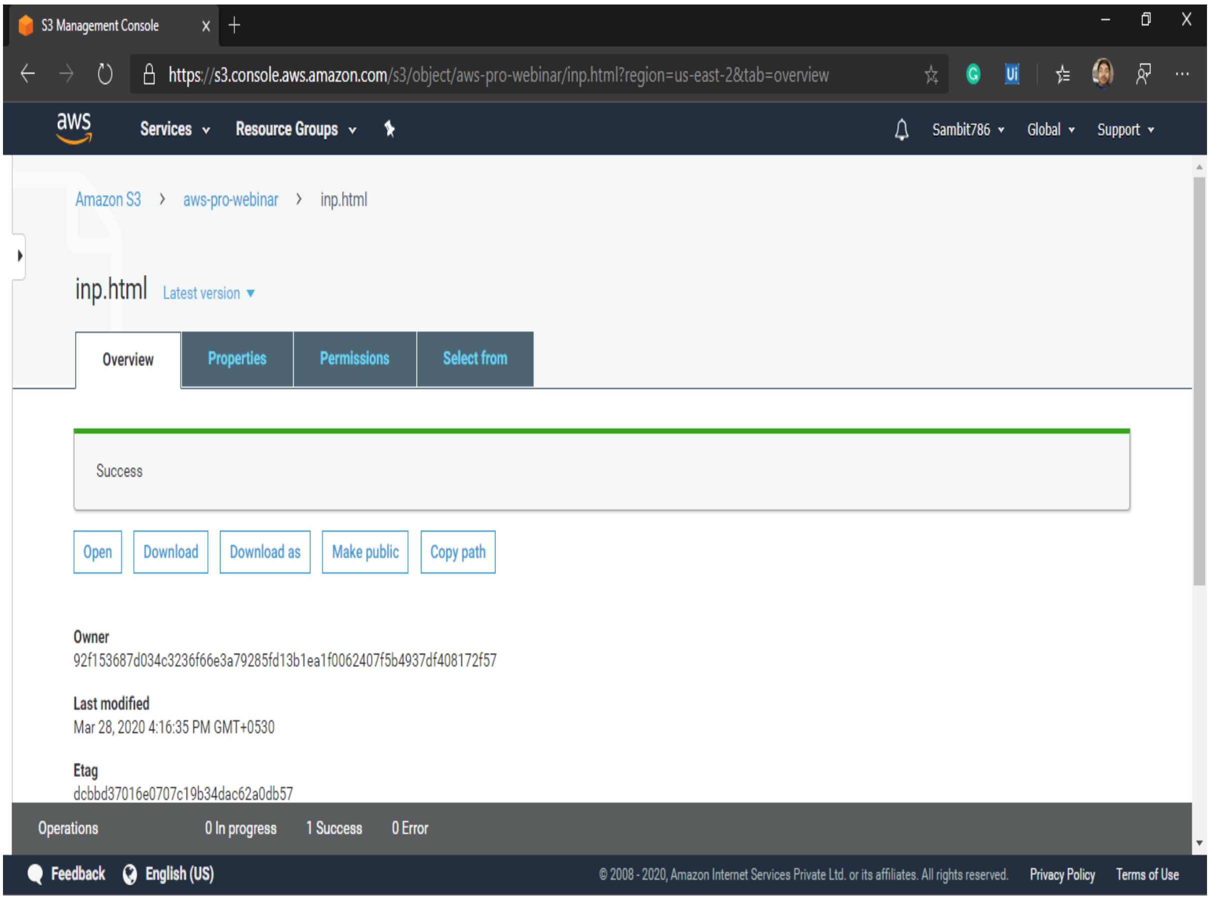
Owner
92f153687d034c3236f66e3a79285fd13b1ea1f0062407f5b4937df408172f57

Last modified
Mar 28, 2020 4:16:35 PM GMT+0530

Etag
dcbbd37016e0707c19b34dac62a0db57

Storage class
Standard

Server-side encryption
None



https://s3.console.aws.amazon.com/s3/object/aws-pro-webinar/inp.html?region=us-east-2&tab=overview

Amazon S3 › aws-pro-webinar › inp.html

inp.html Latest version

Success

Owner
92f153687d034c3236f66e3a79285fd13b1ea1f0062407f5b4937df408172f57

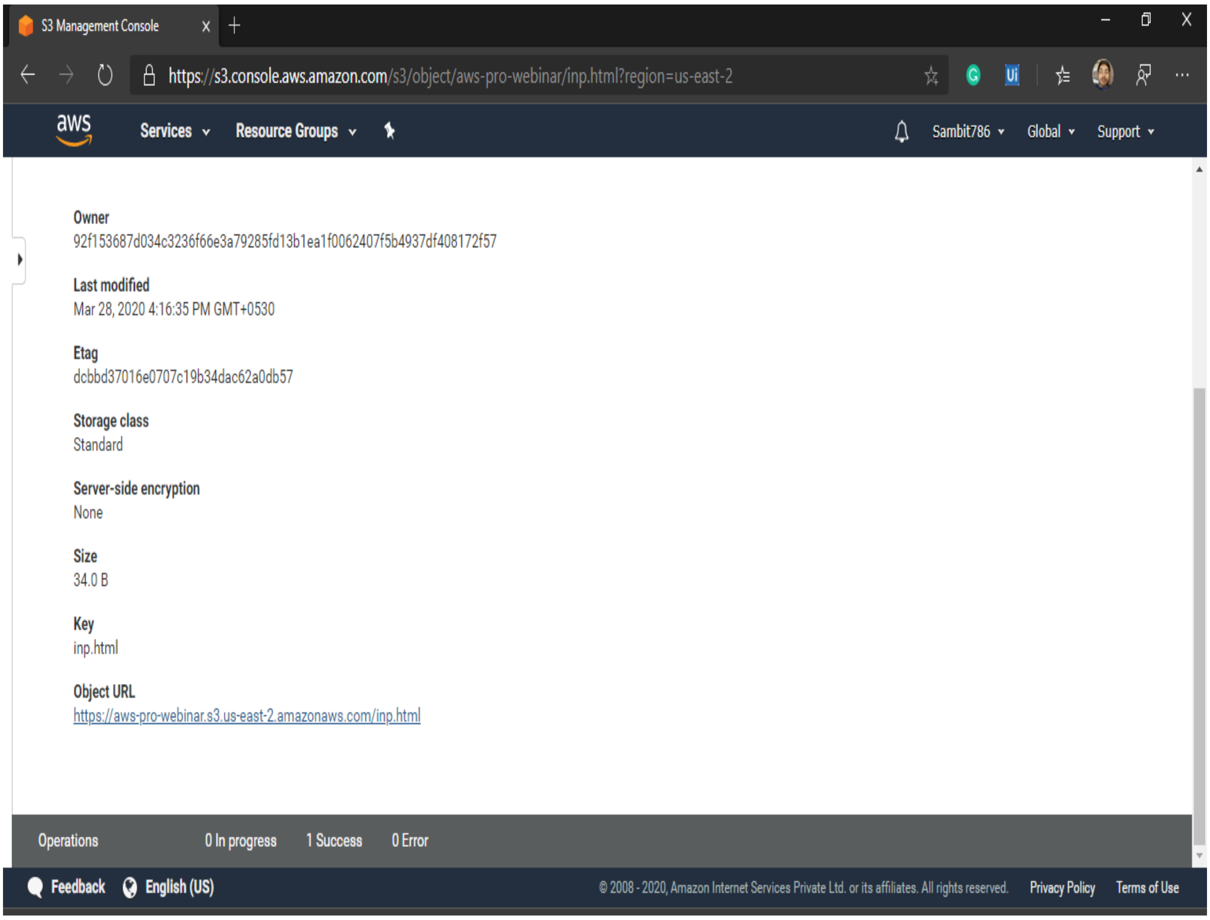
Last modified
Mar 28, 2020 4:16:35 PM GMT+0530

Etag
dcbbd37016e0707c19b34dac62a0db57

Operations 0 In progress 1 Success 0 Error

BUILD FACE DETECTION APP ON AWS

- ## CREATING S3 LINK ON THE BROWSER:-



S3 Management Console
https://s3.console.aws.amazon.com/s3/object/aws-pro-webinar/inp.html?region=us-east-2
Services
Resource Groups
Sambit786
Global
Support

Owner
92f153687d034c3236f66e3a79285fd13b1ea1f0062407f5b4937df408172f57

Last modified
Mar 28, 2020 4:16:35 PM GMT+0530

Etag
dcbbd37016e0707c19b34dac62a0db57

Storage class
Standard

Server-side encryption
None

Size
34.0 B

Key
inp.html

Object URL
https://aws-pro-webinar.s3.us-east-2.amazonaws.com/inp.html

Operations 0 In progress 1 Success 0 Error

Feedback
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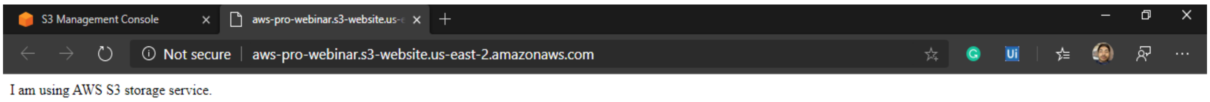


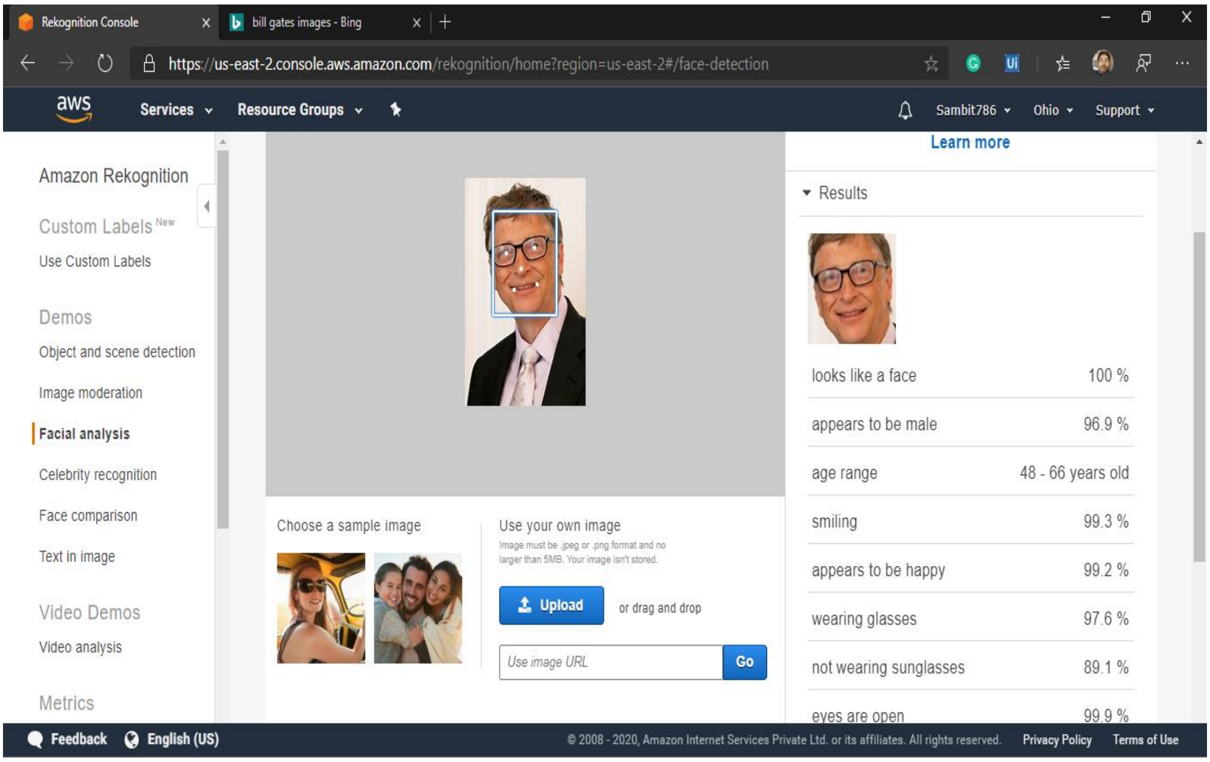
S3 Management Console
aws-pro-webinar.s3-website.us-
Not secure
aws-pro-webinar.s3-website.us-east-2.amazonaws.com

I am using AWS S3 storage service.

BUILD FACE DETECTION APP ON AWS

STEPS INVOLVED IN TASKING THE AWS REKOGNITION SERVICE:-

- **FACE DETECT:-**



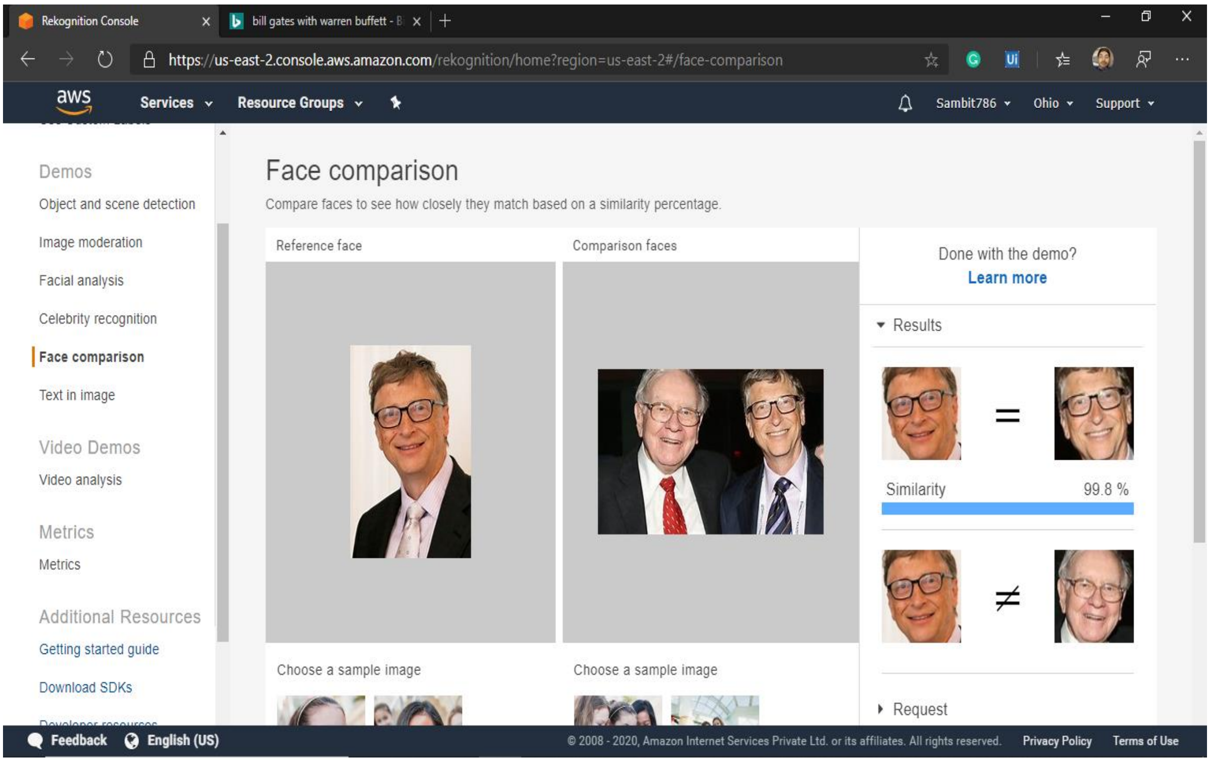
https://us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/face-detection

Results

looks like a face	100 %
appears to be male	96.9 %
age range	48 - 66 years old
smiling	99.3 %
appears to be happy	99.2 %
wearing glasses	97.6 %
not wearing sunglasses	89.1 %
eyes are open	99.9 %

BUILD FACE DETECTION APP ON AWS

- ## FACE COMPARISON:-



https://us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/face-comparison

Face comparison

Compare faces to see how closely they match based on a similarity percentage.

Reference face

Comparison faces

Done with the demo?
Learn more

Results

Similarity 99.8 %

Request

Choose a sample image

Choose a sample image

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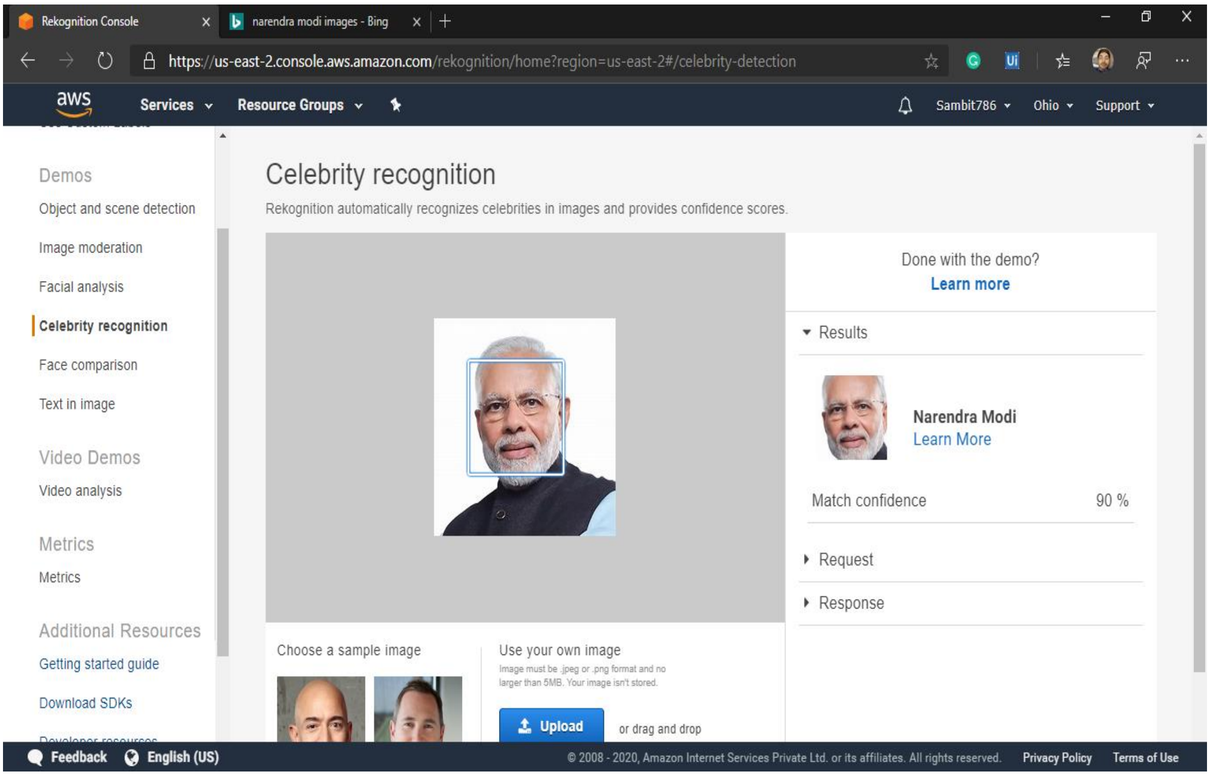
- ## CELEBRITY RECOGNITION:-



https://us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/celebrity-detection

Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.

Done with the demo?
Learn more

Results

Narendra Modi
Learn More

Match confidence 90 %

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

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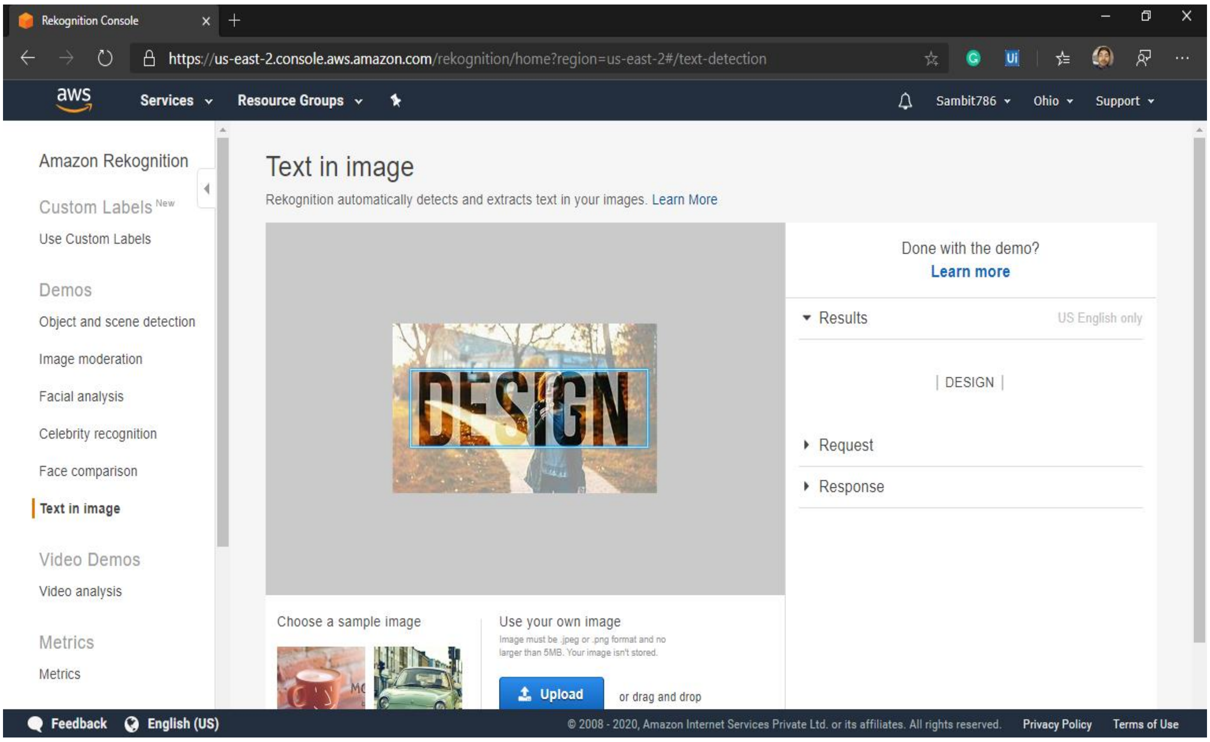
BUILD FACE DETECTION APP ON AWS

- **TEXT IN IMAGE:-**



Text in image

Rekognition automatically detects and extracts text in your images. Learn More

Done with the demo?
Learn more

| DESIGN |

Image must be .jpeg or .png format and no larger than 5MB. Your image isn't stored.

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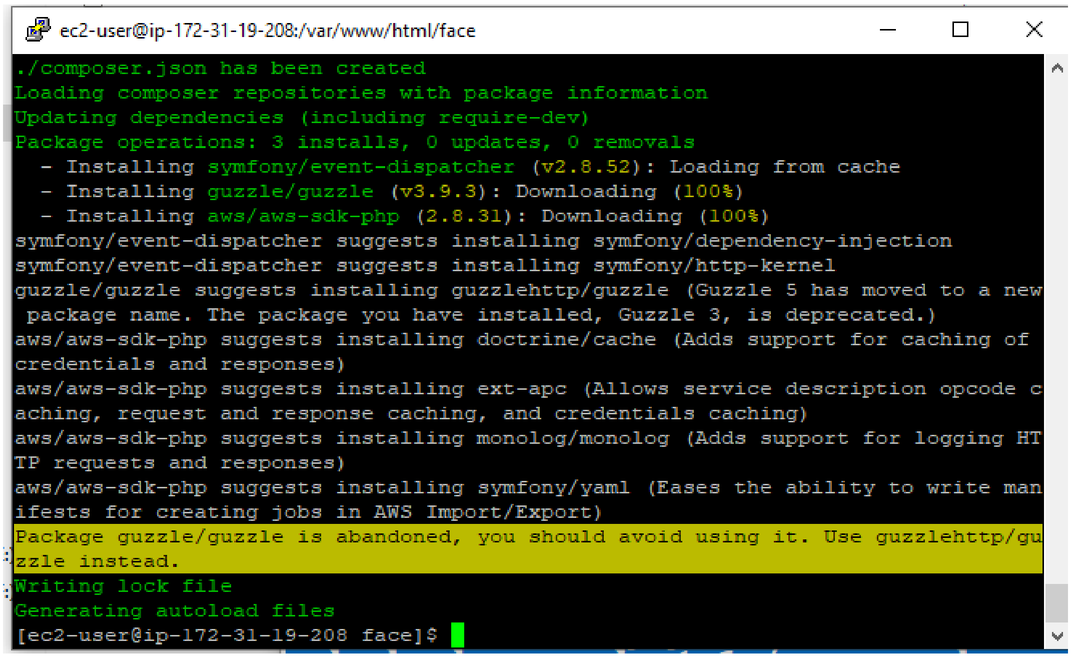
STEPS INVOLVED IN LINKING THE EC2 AND S3 SERVICES FROM AWS:-

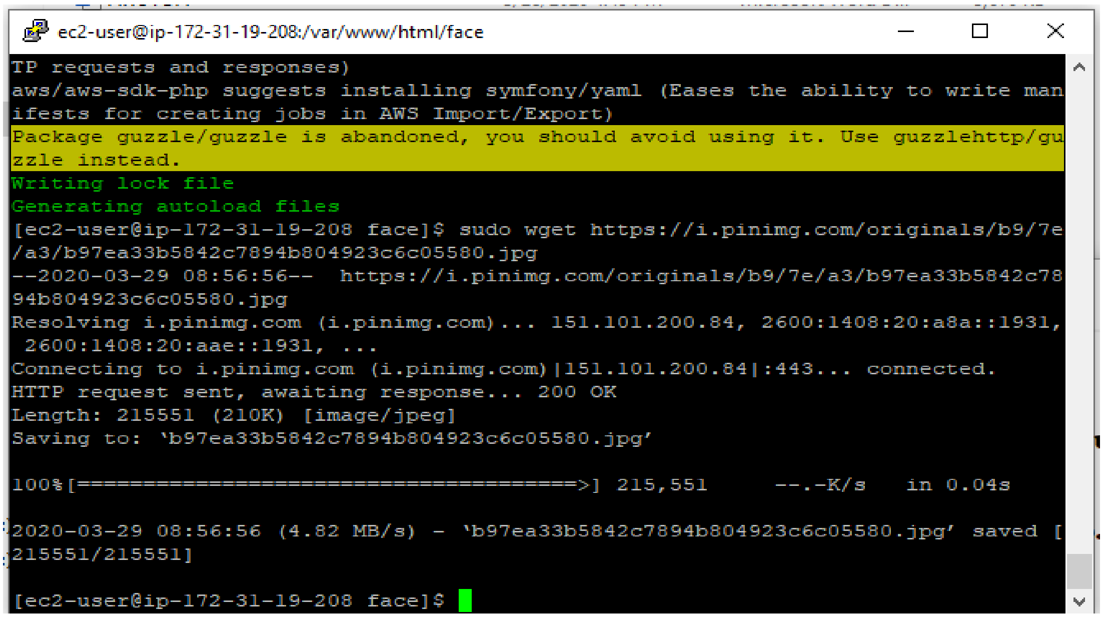
- **INSTALLING AWS-SDK:-**



ec2-user@ip-172-31-19-208:/var/www/html/face

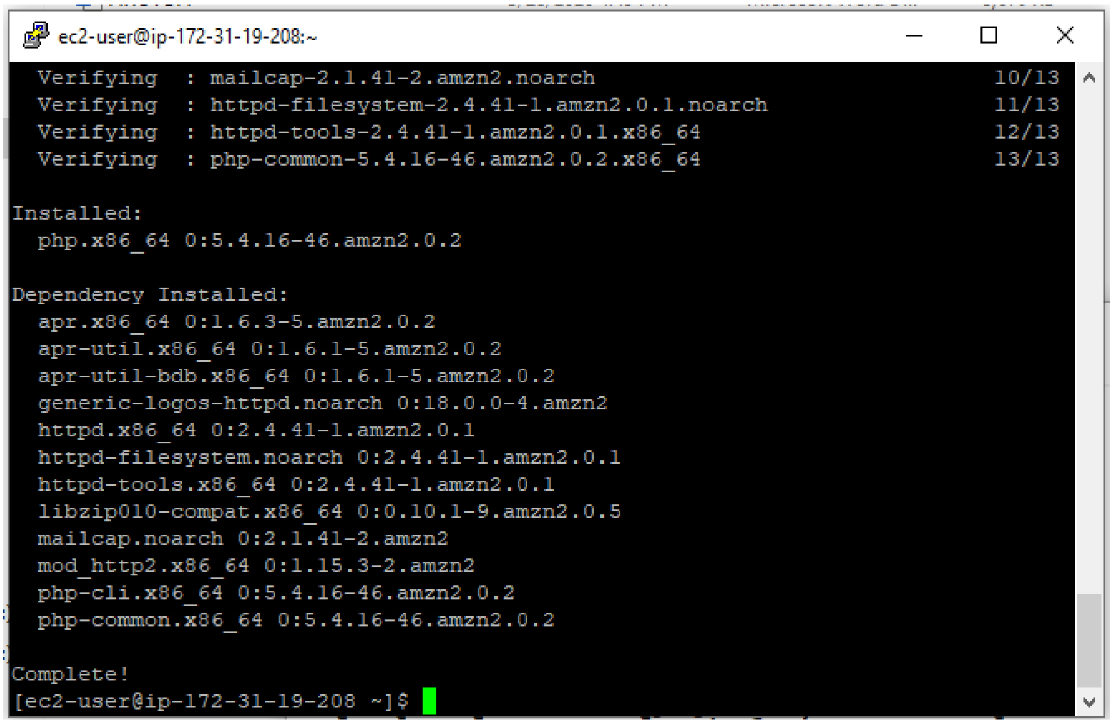
```
./composer.json has been created
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 3 installs, 0 updates, 0 removals
  - Installing symfony/event-dispatcher (v2.8.52): Loading from cache
  - Installing guzzle/guzzle (v3.9.3): 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
zzle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-19-208 face]$
```

BUILD FACE DETECTION APP ON AWS



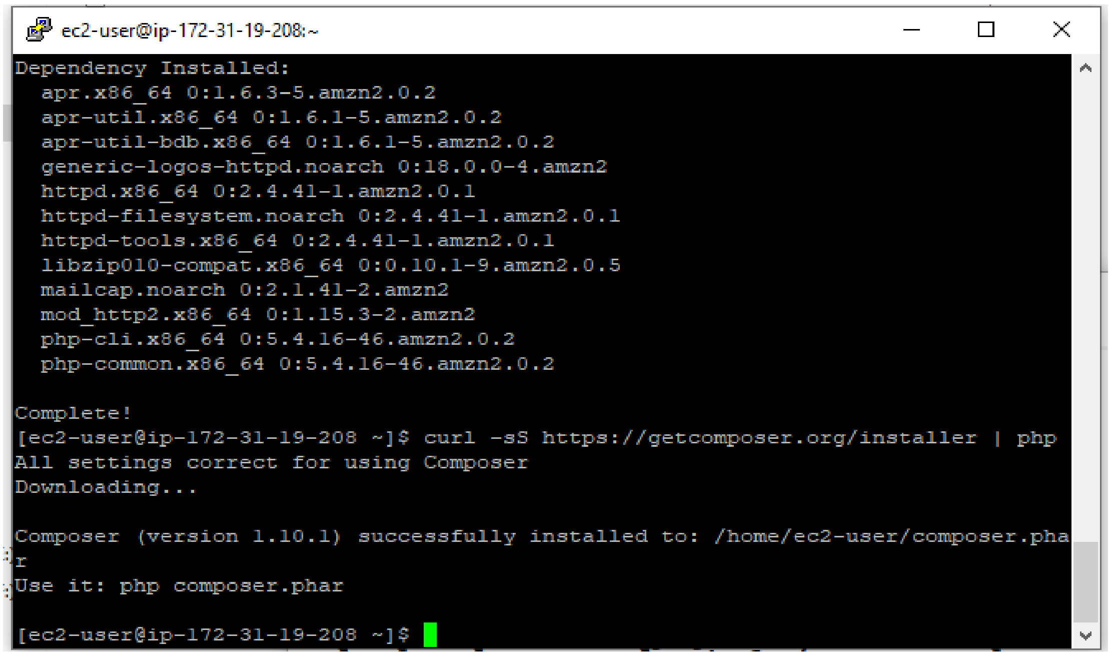
```
TP requests and responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write man
ifests for creating jobs in AWS Import/Export)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/gu
zzle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-19-208 face]$ sudo wget https://i.pinimg.com/originals/b9/7e
/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-03-29 08:56:56--  https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c78
94b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 151.101.200.84, 2600:1408:20:a8a::1931,
 2600:1408:20:aae::1931, ...
Connecting to i.pinimg.com (i.pinimg.com)|151.101.200.84|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: ‘b97ea33b5842c7894b804923c6c05580.jpg’

100%[======================================>] 215,551     --.-K/s   in 0.04s

2020-03-29 08:56:56 (4.82 MB/s) - ‘b97ea33b5842c7894b804923c6c05580.jpg’ saved [
215551/215551]

[ec2-user@ip-172-31-19-208 face]$
```

- **INSTALLING PHP:-**



```
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                           10/13
  Verifying  : httpd-filesystem-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-172-31-19-208 ~]$
```

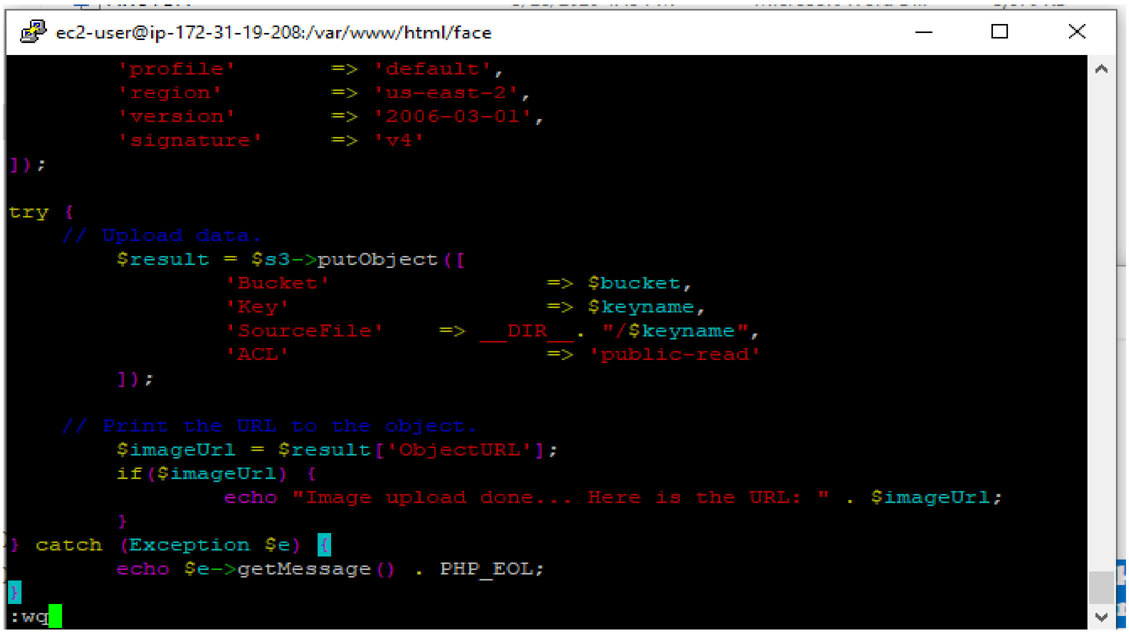
BUILD FACE DETECTION APP ON AWS



ec2-user@ip-172-31-19-208:~

```
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-172-31-19-208 ~]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
Downloading...

Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.pha
r
Use it: php composer.phar

[ec2-user@ip-172-31-19-208 ~]$
```

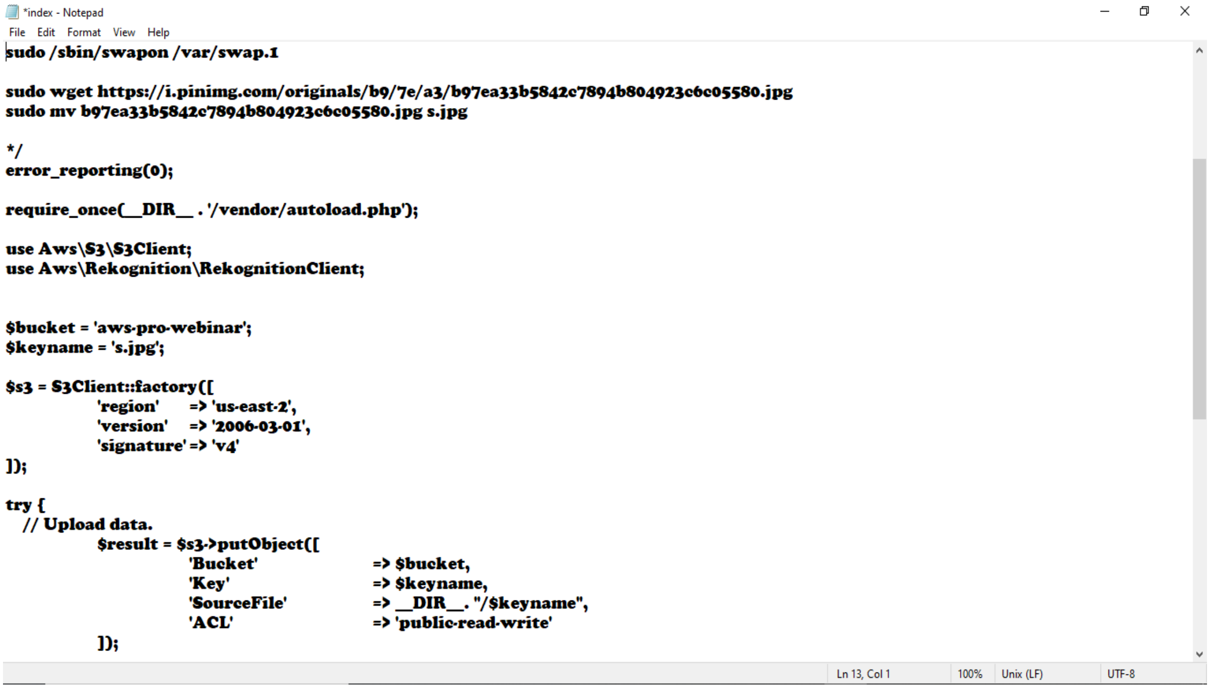
- **INDEX.PHP FILE CODE IN PUTTY:-**



ec2-user@ip-172-31-19-208:/var/www/html/face

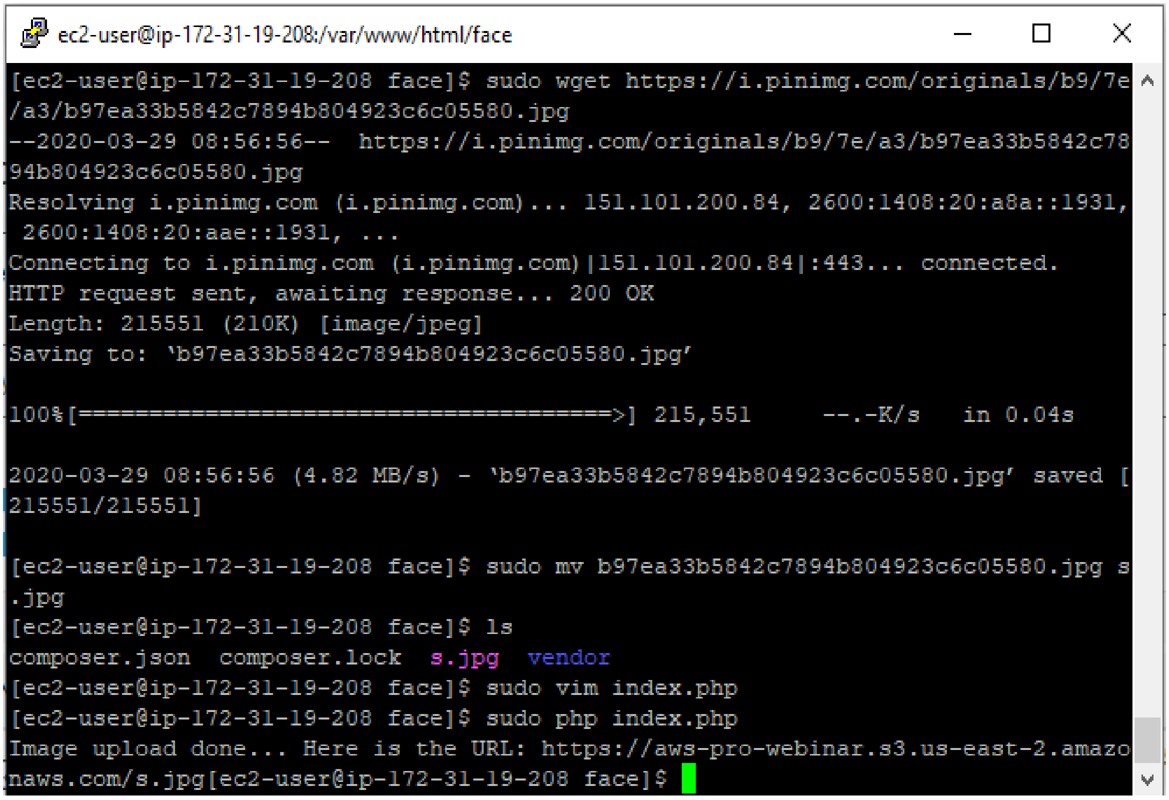
```
        'profile'       => 'default',
        'region'        => 'us-east-2',
        'version'       => '2006-03-01',
        'signature'     => 'v4'
]);

try {
    // Upload data.
        $result = $s3->putObject([
                'Bucket'                => $bucket,
                'Key'                   => $keyname,
                'SourceFile'    => __DIR__. "/$keyname",
                'ACL'                   => 'public-read'
        ]);

    // Print the URL to the object.
        $imageUrl = $result['ObjectURL'];
        if($imageUrl) {
                echo "Image upload done... Here is the URL: " . $imageUrl;
        }
} catch (Exception $e) {
        echo $e->getMessage() . PHP_EOL;
}
:wq
```

BUILD FACE DETECTION APP ON AWS



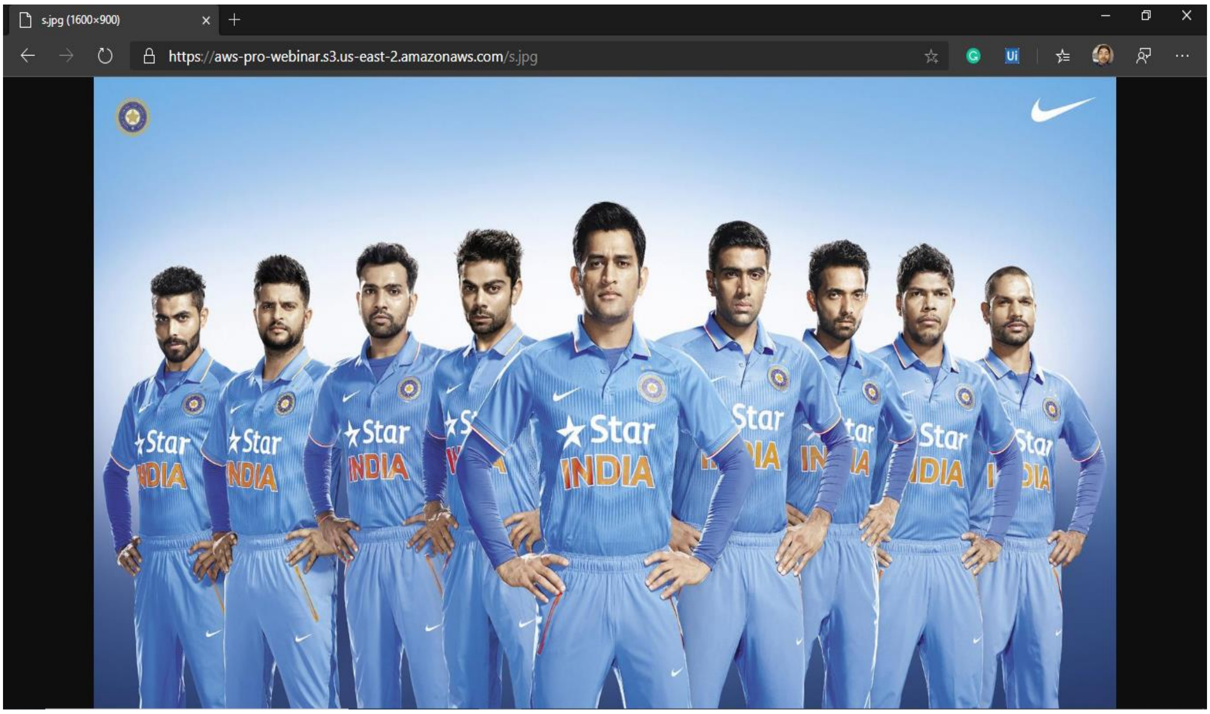
```
sudo /sbin/swapon /var/swap.1

sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
sudo mv b97ea33b5842c7894b804923c6c05580.jpg s.jpg

*/
error_reporting(0);

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

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


$bucket = 'aws-pro-webinar';
$keyname = 's.jpg';

$s3 = S3Client::factory([
		'region'	=> 'us-east-2',
		'version'	=> '2006-03-01',
		'signature' => 'v4'
]);

try {
  // Upload data.
		$result = $s3->putObject([
				'Bucket'		=> $bucket,
				'Key'			=> $keyname,
				'SourceFile'	=> __DIR__. "/$keyname",
				'ACL'			=> 'public-read-write'
		]);
```

- **UPLOAD SUCCESS SCREESHOT:-**



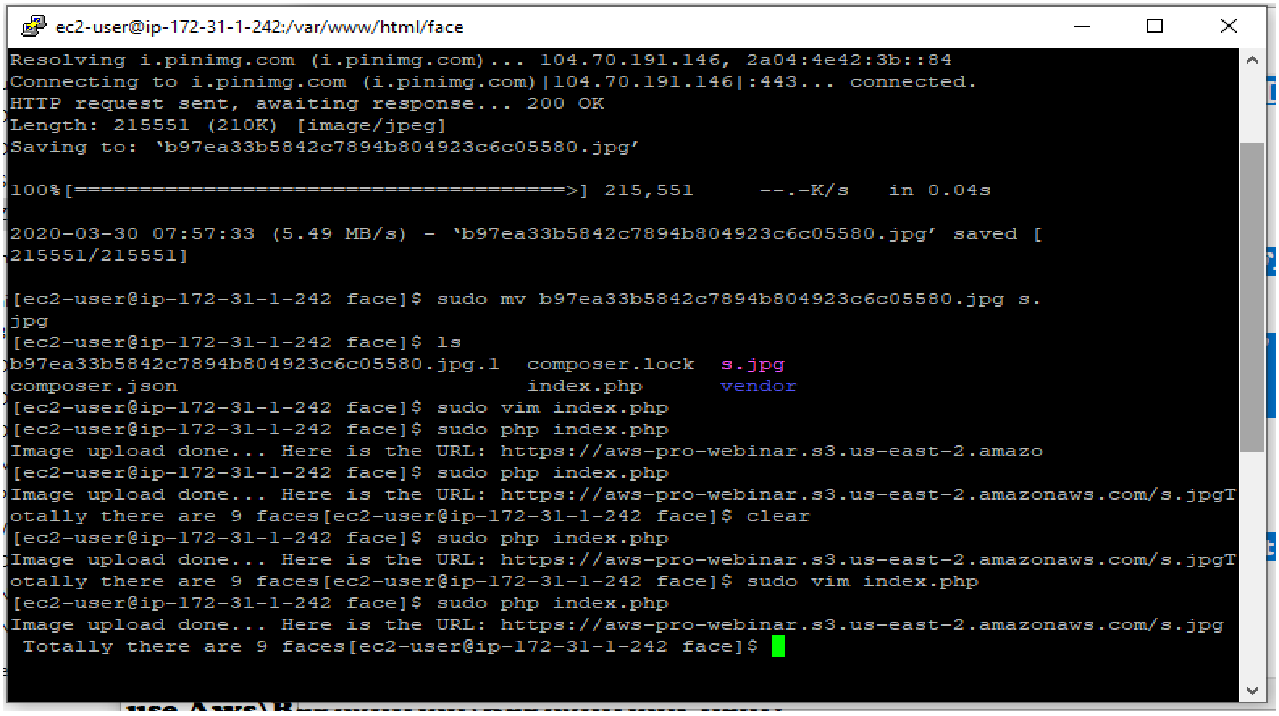
```
[ec2-user@ip-172-31-19-208 face]$ sudo wget https://i.pinimg.com/originals/b9/7e
/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-03-29 08:56:56--  https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c78
94b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 151.101.200.84, 2600:1408:20:a8a::1931,
 2600:1408:20:aae::1931, ...
Connecting to i.pinimg.com (i.pinimg.com)|151.101.200.84|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

100%[======================================>] 215,551     --.-K/s   in 0.04s

2020-03-29 08:56:56 (4.82 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [
215551/215551]

[ec2-user@ip-172-31-19-208 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s
.jpg
[ec2-user@ip-172-31-19-208 face]$ ls
composer.json  composer.lock  s.jpg  vendor
[ec2-user@ip-172-31-19-208 face]$ sudo vim index.php
[ec2-user@ip-172-31-19-208 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazo
naws.com/s.jpg[ec2-user@ip-172-31-19-208 face]$
```

BUILD FACE DETECTION APP ON AWS



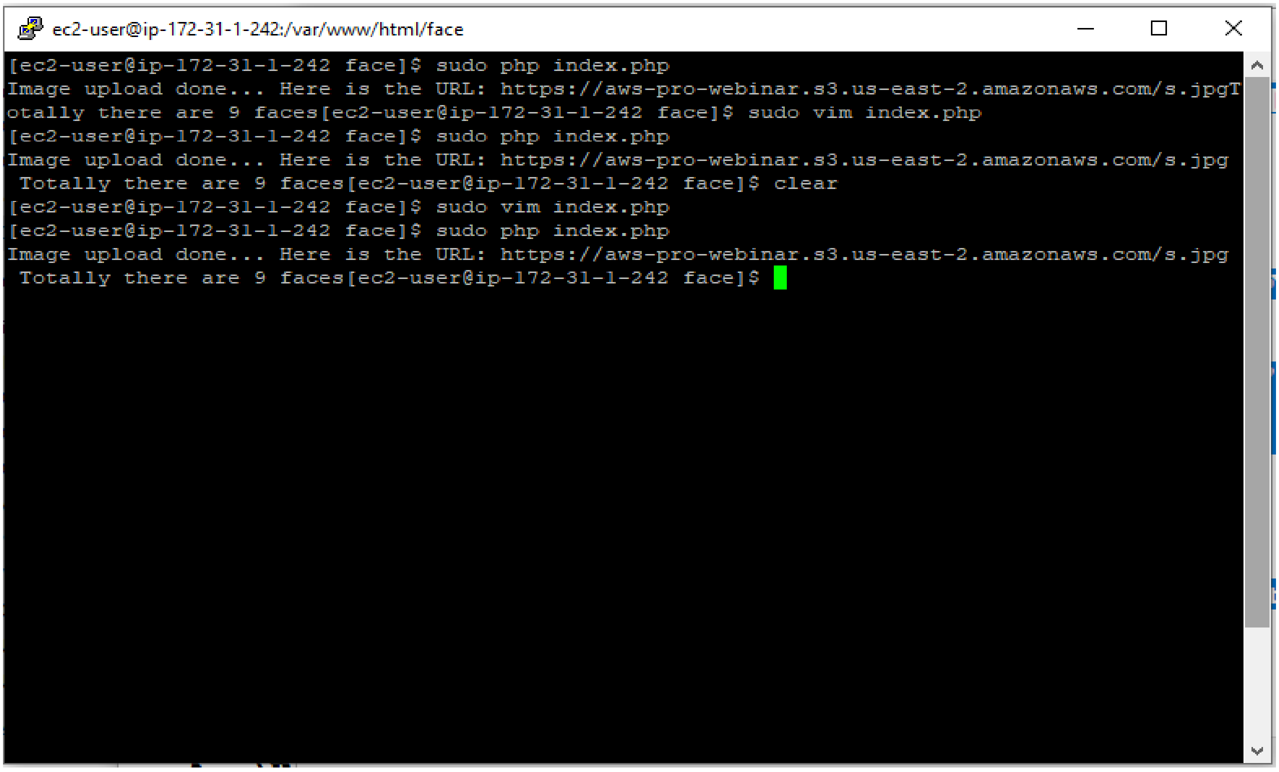
EC2-REKOGNITION LINK:-

- **FACE DETECT SUCCESS SCREENSHOT:-**



```
Resolving i.pinimg.com (i.pinimg.com)... 104.70.191.146, 2a04:4e42:3b::84
Connecting to i.pinimg.com (i.pinimg.com)|104.70.191.146|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

100%[=======================================>] 215,551     --.-K/s   in 0.04s

2020-03-30 07:57:33 (5.49 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [
215551/215551]

[ec2-user@ip-172-31-1-242 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s.
jpg
[ec2-user@ip-172-31-1-242 face]$ ls
b97ea33b5842c7894b804923c6c05580.jpg.1  composer.lock  s.jpg
composer.json                           index.php      vendor
[ec2-user@ip-172-31-1-242 face]$ sudo vim index.php
[ec2-user@ip-172-31-1-242 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazo
[ec2-user@ip-172-31-1-242 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazonaws.com/s.jpgT
otally there are 9 faces[ec2-user@ip-172-31-1-242 face]$ clear
[ec2-user@ip-172-31-1-242 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazonaws.com/s.jpgT
otally there are 9 faces[ec2-user@ip-172-31-1-242 face]$ sudo vim index.php
[ec2-user@ip-172-31-1-242 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazonaws.com/s.jpg
 Totally there are 9 faces[ec2-user@ip-172-31-1-242 face]$
```

BUILD FACE DETECTION APP ON AWS



```
[ec2-user@ip-172-31-1-242 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazonaws.com/s.jpgT
otally there are 9 faces[ec2-user@ip-172-31-1-242 face]$ sudo vim index.php
[ec2-user@ip-172-31-1-242 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazonaws.com/s.jpg
 Totally there are 9 faces[ec2-user@ip-172-31-1-242 face]$ clear
[ec2-user@ip-172-31-1-242 face]$ sudo vim index.php
[ec2-user@ip-172-31-1-242 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-pro-webinar.s3.us-east-2.amazonaws.com/s.jpg
 Totally there are 9 faces[ec2-user@ip-172-31-1-242 face]$
```

(FOR PUTTY BASED SCREENSHOTS, THE USERNAME OF AWS IS NOT VISIBLE AS TO ZOOM TO THE BLACK SCREEN AND NOT THE UNESSENTIAL BACKGROUND SCREEN).

-X—END—X-