

APTIMITHRA BY ETHNUS
FACE DETECTION APP ON AWS

NAME :A.HASHWATHI

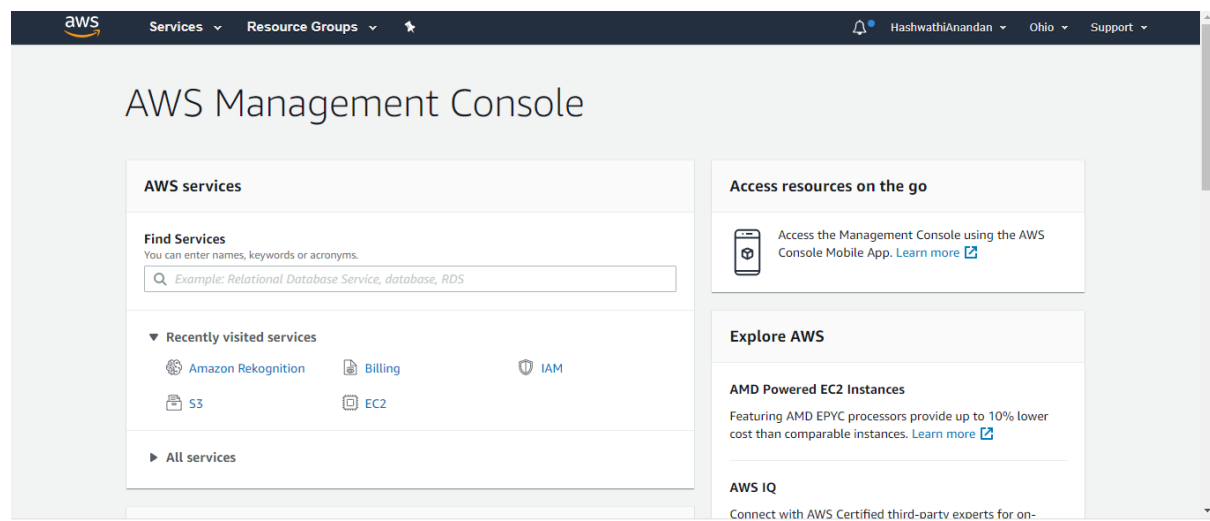
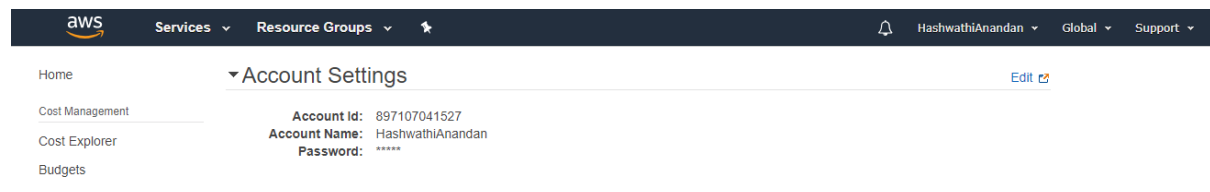
REG NO :16MIS0032

UNIVERSITY :VIT UNIVERSITY

COURSE NAME:(M- TECH)SOFTWARE ENGINEERING

DASHBOARDS:

1.AWS Login Screen :



2.EC2 DASHBOARD:

The screenshot shows the AWS Management Console for the EC2 service. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar contains a navigation menu with options like 'New EC2 Experience', 'Events', 'Tags', 'Reports', 'Limits', and sections for 'INSTANCES' and 'IMAGES'. The main content area is titled 'EC2' and features a 'Resources' section showing a summary of EC2 resources in the US East (Ohio) Region. Below this is a 'Launch instance' section with a brief introduction. On the right, there are 'Account attributes' and an 'Explore AWS' section.

Resources

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

Resource	Count
Running instances	0
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	0
Load balancers	0
Key pairs	3
Security groups	5
Placement groups	0

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Account attributes

Supported platforms

- VPC

Default VPC

vpc-bb78b2d0

Console experiments

Settings

Explore AWS

Optimize your EC2 cost and performance with Spot Instances

Combine EC2 On-Demand,

3.S3 DASHBOARD:

The screenshot shows the AWS Management Console for the Amazon S3 service. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar contains a navigation menu with options like 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area is titled 'Amazon S3' and features a 'Buckets (2)' section with a search bar and a table listing buckets. The table has columns for Name, Region, Access, and Bucket created. There are also buttons for 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'.

Amazon S3

Buckets (2)

Find bucket by name

Name	Region	Access	Bucket created
faceapp-aws	US East (Ohio) us-east-2	Objects can be public	2020-03-30T14:51:29.000Z
aws-face	US East (Ohio) us-east-2	Objects can be public	2020-03-28T06:01:45.000Z

Copy ARN Empty Delete Create bucket

4.Rekognition Dashboard:

The screenshot shows the AWS Management Console for the Amazon Rekognition service. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar contains a navigation menu with options like 'Custom Labels', 'Use Custom Labels', 'Demos', 'Object and scene detection', 'Image moderation', 'Facial analysis', 'Celebrity recognition', 'Face comparison', 'Text in image', 'Video Demos', and 'Video analysis'. The main content area is titled 'Amazon Rekognition' and features a large banner with the service name and description. Below the banner are icons for 'Facially Integrate Powerful', 'Continuous Learning', and 'Interact with AWS Services'.

Amazon Rekognition

Deep learning-based visual analysis service

Search, verify, and organize millions of images and videos

Try Demo

Download SDKs

Facially Integrate Powerful Continuous Learning Interact with AWS Services

EC2 – INSTANCE CREATION;

1.Choosing an AMI:

aws

Services

Resource Groups

HashwathiAnandan

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 and Exit

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

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0e01ce4ee18447327 (64-bit x86) / ami-03201f374ab66a26e (64-bit Arm)

Free tier eligible

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)

Select

Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-01b01bbd08f24c7a8

Free tier eligible

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.

64-bit (x86)

Select

Feedback

English (US)

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2.Choosing an Instance type:

aws

Services

Resource Groups

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Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

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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
<input type="checkbox"/>	General purpose	t2.large	4	8	EBS only	-	Low to Moderate	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Detail

3.Add Storage:

aws

Services

Resource Groups

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Support

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](#)

4.Configuring Security Group:

aws

Services

Resource Groups

HashwathiAnandan

Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 6: Configure Security Group

Security group is a set of network rules that control the traffic to your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

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

[Add Rule](#)

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

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

5.Key Pair Download:

aws

Services

Resource Groups

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Sup

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

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6. Configure Security Group

7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can [Edit security groups](#).

Improve your instances' security

Your instances may be accessible from the Internet. You can also open additional ports in your security groups.

AMI Details

Amazon Linux 2 AMI (HVM), S

Amazon Linux 2 comes with five year latest software packages through ext

Root Device Type: ebs Virtualization type

Instance Type

[Feedback](#) [English \(US\)](#)

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

faceappkey

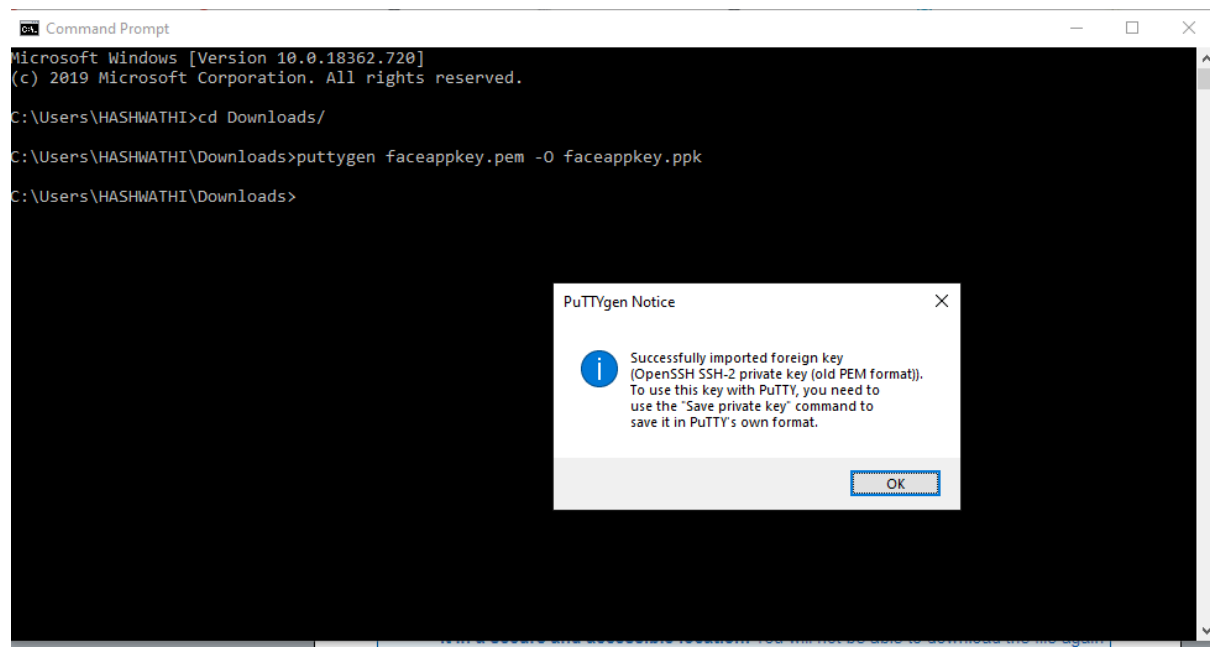
[Download Key Pair](#)

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.

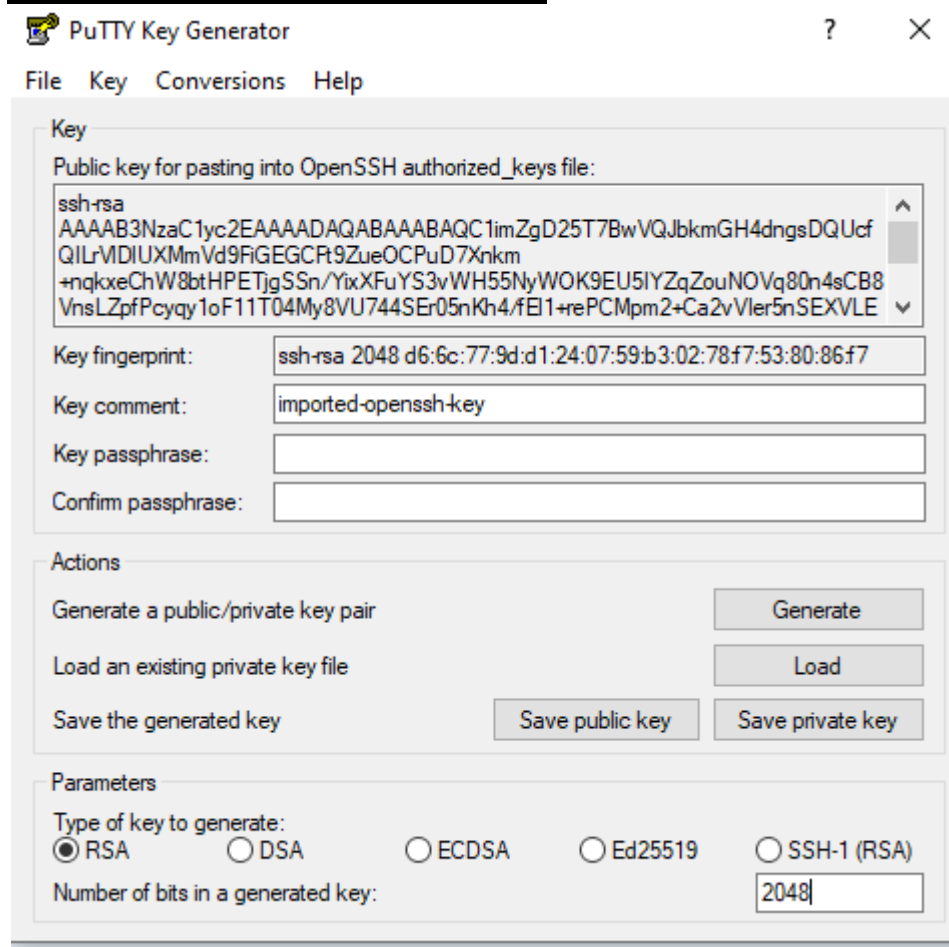
[Cancel](#) [Launch Instances](#)

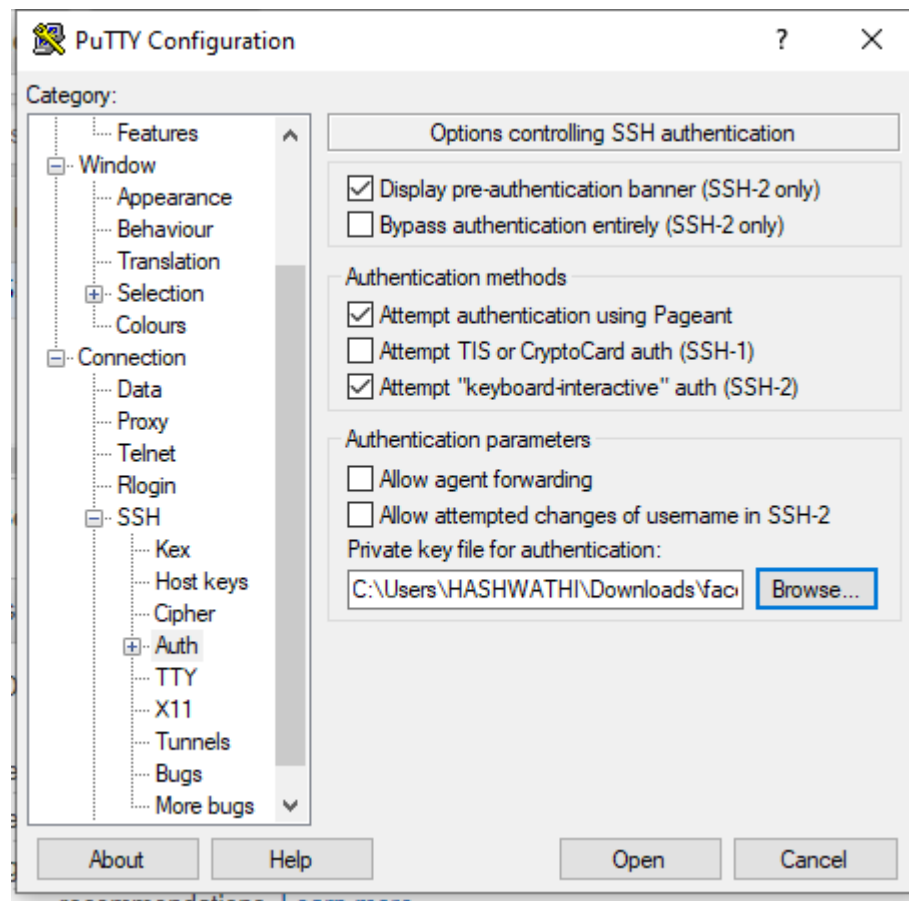
faceappkey.pem

6.PUTTYgen Conversion from pem to ppk:



7.PUTTY gen key generator :





8.Logged in to EC2 blackscreen:

```
ec2-user@ip-172-31-34-225:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
  
  _ | _ | _ )  
  _ | ( _ | /  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-172-31-34-225 ~]$
```

ec2-user@ip-172-31-31-198:~

Hello I am Hashwathi .Learning to do things better

-- INSERT --

1,51

All

ec2-user@ip-172-31-31-198:~

```
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 8/9
Verifying : httpd-tools-2.4.41-1.amzn2.0.1.x86_64 9/9
```

Installed:

```
httpd.x86_64 0:2.4.41-1.amzn2.0.1
```

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-filesystem.noarch 0:2.4.41-1.amzn2.0.1
httpd-tools.x86_64 0:2.4.41-1.amzn2.0.1
mailcap.noarch 0:2.1.41-2.amzn2
mod_http2.x86_64 0:1.15.3-2.amzn2
```

Complete!

```
[ec2-user@ip-172-31-31-198 ~]$ sudo service httpd start
```

```
Redirecting to /bin/systemctl start httpd.service
```

```
[ec2-user@ip-172-31-31-198 ~]$ sudo service httpd status
```

```
Redirecting to /bin/systemctl status httpd.service
```

```
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor prese
   t: disabled)
```

```
   Active: active (running) since Fri 2020-03-27 15:34:30 UTC; 33s ago
```

```
   Docs: man:httpd.service(8)
```

```
 Main PID: 32762 (httpd)
```

```
 Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes se
 rved/sec: 0 B/sec"
```

```
 CGroup: /system.slice/httpd.service
          └─32762 /usr/sbin/httpd -DFOREGROUND
            └─32763 /usr/sbin/httpd -DFOREGROUND
              └─32764 /usr/sbin/httpd -DFOREGROUND
                └─32765 /usr/sbin/httpd -DFOREGROUND
                  └─32766 /usr/sbin/httpd -DFOREGROUND
                    └─32767 /usr/sbin/httpd -DFOREGROUND
```

```
Mar 27 15:34:30 ip-172-31-31-198.us-east-2.compute.internal systemd[1]: Start...
```

```
Mar 27 15:34:30 ip-172-31-31-198.us-east-2.compute.internal systemd[1]: Start...
```

```
Hint: Some lines were ellipsized, use -l to show in full.
```

```
[ec2-user@ip-172-31-31-198 ~]$ sudo vim/var/www/html/index.html
```

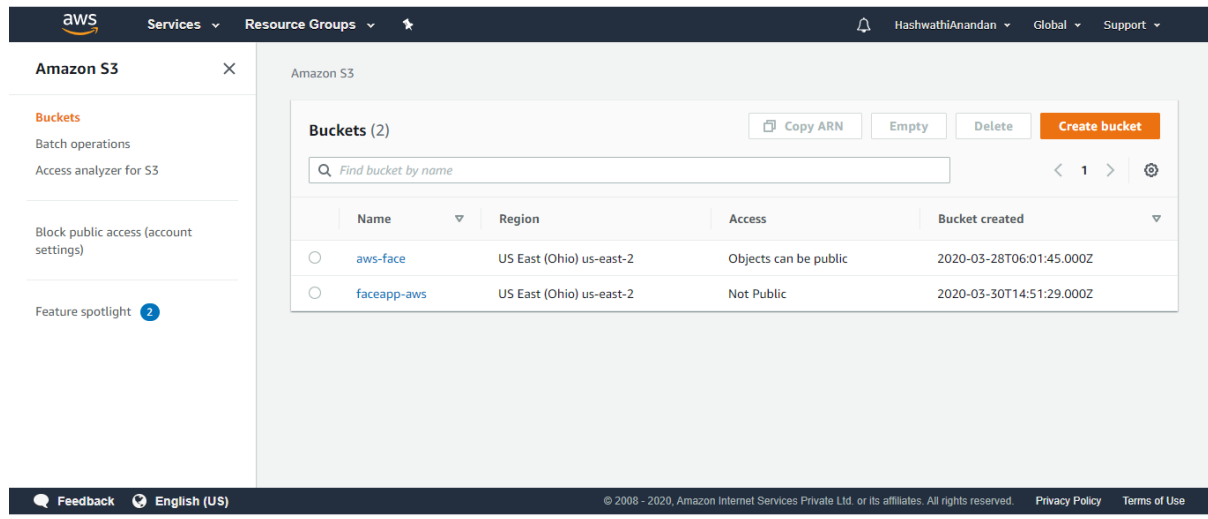
```
sudo: vim/var/www/html/index.html: command not found
```

```
[ec2-user@ip-172-31-31-198 ~]$ sudo vim /var/www/html/index.html
```

```
[ec2-user@ip-172-31-31-198 ~]$
```

S3 Creation:

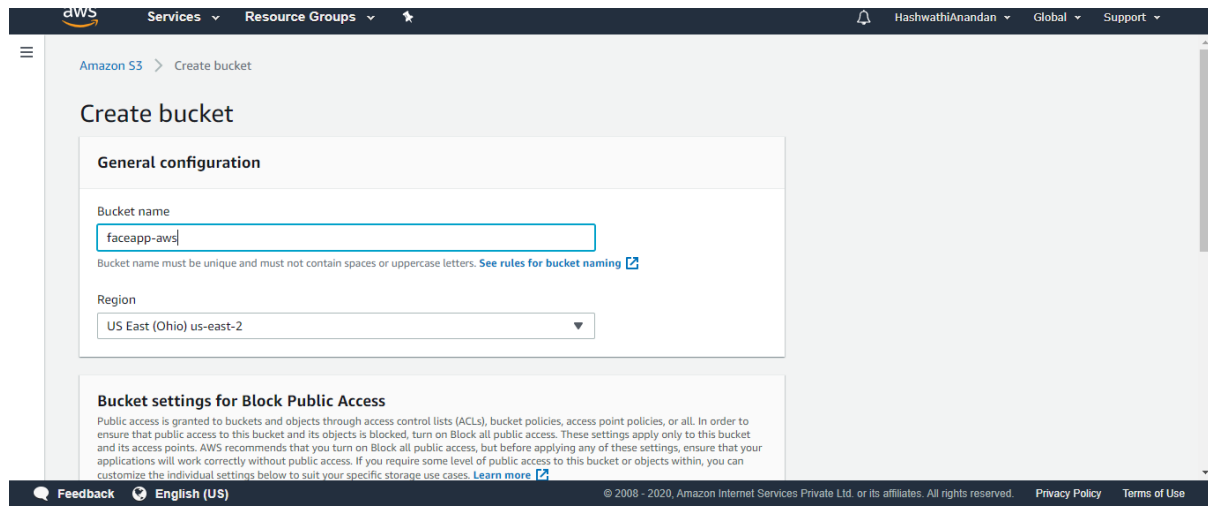
1.Creating a Bucket :



The screenshot shows the AWS Management Console for Amazon S3. The left sidebar contains navigation links for Buckets, Batch operations, Access analyzer for S3, Block public access (account settings), and Feature spotlight. The main content area shows a list of buckets with the following details:

	Name	Region	Access	Bucket created
<input type="radio"/>	aws-face	US East (Ohio) us-east-2	Objects can be public	2020-03-28T06:01:45.000Z
<input type="radio"/>	faceapp-aws	US East (Ohio) us-east-2	Not Public	2020-03-30T14:51:29.000Z

Buttons at the top of the buckets list include Copy ARN, Empty, Delete, and Create bucket. A search bar labeled 'Find bucket by name' is also present.



The screenshot shows the 'Create bucket' page in the AWS Management Console. The 'General configuration' section includes a 'Bucket name' field with the value 'faceapp-aws' and a 'Region' dropdown menu set to 'US East (Ohio) us-east-2'. Below this, the 'Bucket settings for Block Public Access' section is partially visible, containing text about public access and a 'Learn more' link.

2. Uploading an object:

Upload

1 Select files

2 Set permissions


3 Set properties

4 Review

1 Files Size: 72.0 B Target path: faceapp-aws

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

[+ Add more files](#)

 Aws.html
- 72.0 B

✕

Upload

Next

English (US)

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3. Enabling a static website:

aws

Services Resource Groups

HashwathiAnandan Global Support

Static website hosting

Endpoint : <http://faceapp-aws.s3-website-us-east-2.amazonaws.com>

☒ Use this bucket to host a website [Learn more](#)

Index document [?](#)

Error document [?](#)

Redirection rules (optional) [?](#)

☐ Redirect requests [Learn more](#)

Object-level logging

Record object-level API activity using the CloudTrail data events feature (additional cost).
[Learn more](#)

☐ Disabled

Operations 0 In progress 1 Success 0 Error

[Feedback](#) English (US)

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faceapp-aws

Overview Properties Permissions Management Access points

Versioning
Keep multiple versions of an object in the same bucket.
[Learn more](#)
Disabled

Server access logging
Set up access log records that provide details about access requests.
[Learn more](#)
Disabled

Static website hosting
Host a static website, which does not require server-side technologies.
[Learn more](#)
Bucket hosting

Operations 0 In progress 1 Success 0 Error

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4. Making the Object public:

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faceapp-aws

Overview Properties Permissions Management Access points

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](#)

☐ **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.

Cancel Save

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faceapp.html Latest version

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

Owner
4ee292d530de3609917d4de51bbc6184492a1d3c1fe0a5cde636603001c4f3ce

Last modified
Mar 30, 2020 8:41:56 PM GMT+0530

Etag
74d13c1885654ff9373113dd16f0a7f4

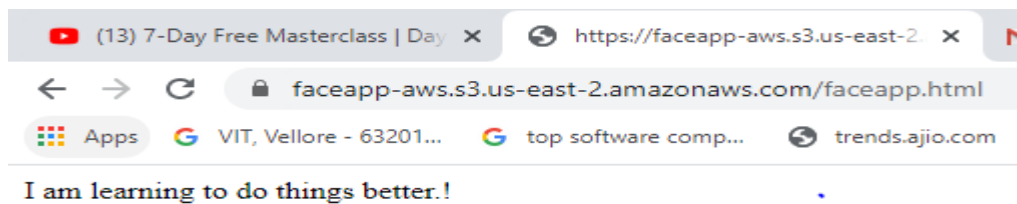
Storage class
Standard

Server-side encryption
None

Operations 0 In progress 1 Success 0 Error

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5. Checking s3 link on browser:



CREATION OF EC2&S3:

1. Installing AWS –SDK:

```
PuTTY (inactive)
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-172-31-6-123 ~]$ https://getcomposer.org/installer | php
-bash: https://getcomposer.org/installer: No such file or directory
[ec2-user@ip-172-31-6-123 ~]$ clear
[ec2-user@ip-172-31-6-123 ~]$ 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.phar
Use it: php composer.phar

[ec2-user@ip-172-31-6-123 ~]$ cd /var/www/html
[ec2-user@ip-172-31-6-123 html]$ sudo mkdir face
[ec2-user@ip-172-31-6-123 html]$ cd face
[ec2-user@ip-172-31-6-123 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-6-123 face]$ sudo php -d memory_limit=-1 ~/composer.phar req
uire aws/aws-sdk-php
Using version ^2.8 for aws/aws-sdk-php
./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): Downloading (100%)
```

2.Install php:

PuTTY (inactive)

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Fri Apr  3 07:35:35 2020 from 157.50.112.74

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

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-34-225 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB 00:00
Package php-7.2.28-1.amzn2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-34-225 ~]$ 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.phar
Use it: php composer.phar
```

3.PHP source file code:

ec2-user@ip-172-31-34-225:/var/www/html/face

```
'version' => '2006-03-01',
'signature' => 'v4'
});

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

    // Print the URL to the object.
    $imageUrl = $result['ObjectURL'];
    if($imageUrl) {
        echo "Image upload done... Here is the URL: " . $imageUrl;

        $rekognition = new RekognitionClient([
            'region' => 'us-east-2',
            'version' => 'latest',
        ]);

        $result = $rekognition->detectFaces([
            'Attributes' => ['DEFAULT'],
            'Image' => [
                'S3Object' => [
                    'Bucket' => $bucket,
                    'Name' => $keyname,
                    'Key' => $keyname,
                ],
            ],
        ]);

        echo "Totally there are " . count($result["FaceDetails"]) . " faces";
    }
} catch (Exception $e) {
    echo $e->getMessage() . PHP_EOL;
}

~
~
~
```

4.upload success :

ec2-user@ip-172-31-34-225:/var/www/html/face

```
[ec2-user@ip-172-31-34-225 face]$  
[ec2-user@ip-172-31-34-225 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg  
--2020-04-03 07:57:24-- https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg  
Resolving i.pinimg.com (i.pinimg.com)... 184.87.223.209, 2600:1408:20:aa0::1931, 2600:1408:20:aa3::1931, ...  
Connecting to i.pinimg.com (i.pinimg.com)|184.87.223.209|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 215551 (210K) [image/jpeg]  
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'  
  
100%[=====>] 215,551 --.-K/s in 0.03s  
  
2020-04-03 07:57:24 (6.95 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [215551/215551]  
  
[ec2-user@ip-172-31-34-225 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg  
[ec2-user@ip-172-31-34-225 face]$ sudo vim hashu.php  
[ec2-user@ip-172-31-34-225 face]$ sudo php hashu.php  
[ec2-user@ip-172-31-34-225 face]$ sudo php hashu.php  
Image upload done... Here is the URL: https://faceapp-aws.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9 faces[ec2-user@ip-172-31-34-225 face]$
```

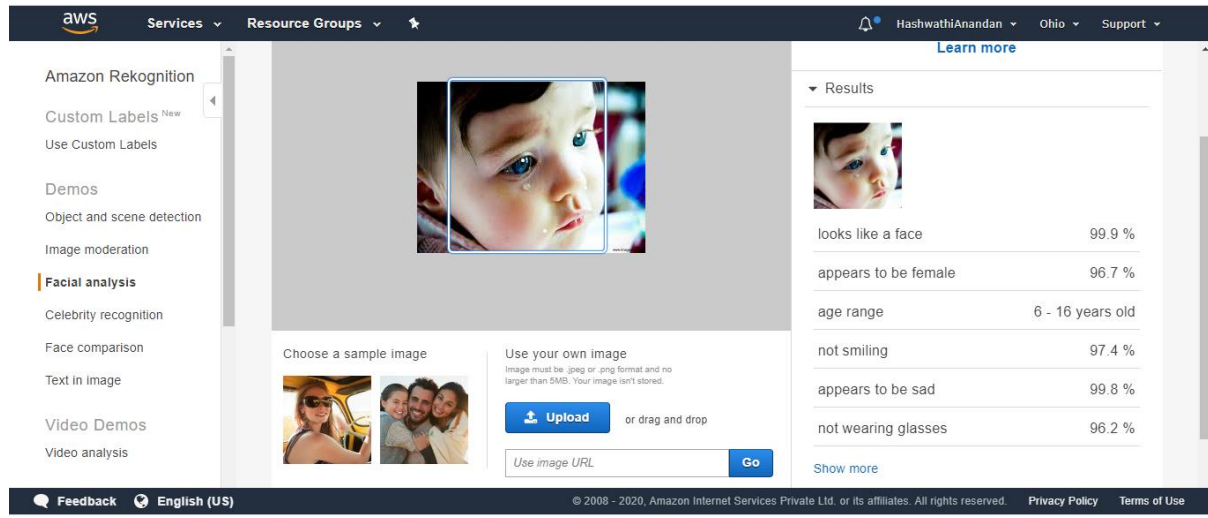
5.IMAGE UPLOAD DONE:

The screenshot shows the AWS S3 console for the bucket 'faceapp-aws'. The 'Overview' tab is active, displaying a list of objects. The 'sample.jpg' file is highlighted, showing its details: last modified on Apr 3, 2020, size 210.5 KB, and storage class 'Standard'.

Name	Last modified	Size	Storage class
Aws.html	Mar 30, 2020 8:32:48 PM GMT+0530	72.0 B	Standard
faceapp.html	Mar 30, 2020 8:41:56 PM GMT+0530	35.0 B	Standard
sample.jpg	Apr 3, 2020 1:35:43 PM GMT+0530	210.5 KB	Standard

REKOGNITION:

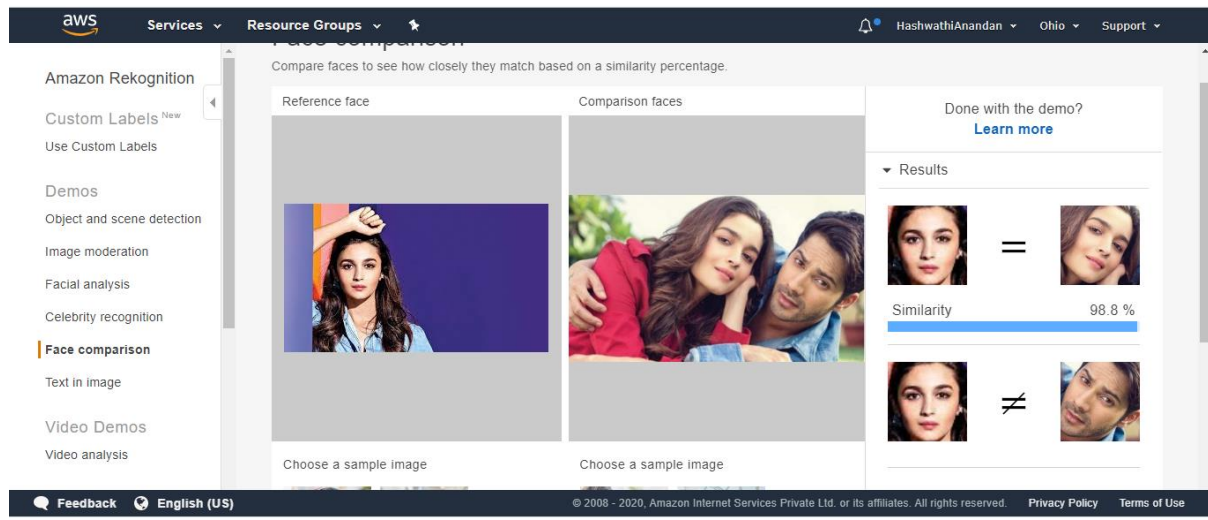
1.FACE DETECTION:



The screenshot shows the AWS Amazon Rekognition console interface. The left sidebar contains a navigation menu with options like Amazon Rekognition, Custom Labels, Demos, and Facial analysis. The main area displays a sample image of a child's face. Below the image, there are options to 'Choose a sample image' or 'Use your own image'. The 'Results' section on the right shows the following analysis results:

Analysis Result	Percentage
looks like a face	99.9 %
appears to be female	96.7 %
age range	6 - 16 years old
not smiling	97.4 %
appears to be sad	99.8 %
not wearing glasses	96.2 %

2.FACE COMPARISON:



The screenshot shows the AWS Amazon Rekognition console interface for the Face comparison demo. The left sidebar contains a navigation menu with options like Amazon Rekognition, Custom Labels, Demos, and Face comparison. The main area displays two sample images for comparison. Below the images, there are options to 'Choose a sample image'. The 'Results' section on the right shows the following comparison results:

Comparison Result	Similarity
Similar faces (indicated by =)	98.8 %
Different faces (indicated by ≠)	-

3.CELEBRITY FACE DETECTION:

The screenshot shows the AWS Rekognition console interface for the Celebrity recognition demo. The left sidebar lists various services and demos, with 'Celebrity recognition' highlighted. The main content area features a large image of a woman's face with a bounding box around it. Below the image are buttons for 'Choose a sample image' and 'Use your own image'. On the right, the 'Results' section displays the name 'Deepika Padukone' with a 'Learn More' link and a 'Match confidence' of 100%. The 'Request' section shows a JSON snippet:

```
{  "Image": {    "Bytes": "..."}}
```

. The footer includes 'Feedback', 'English (US)', copyright information, and links to 'Privacy Policy' and 'Terms of Use'.

4.TEXT IN IMAGE:

The screenshot shows the AWS Rekognition console interface for the Text in image demo. The left sidebar lists various services and demos, with 'Text in image' highlighted. The main content area features a large image of a forest path with the text 'Free Stock Photos' and 'pexels.com' overlaid. Below the image are buttons for 'Choose a sample image' and 'Use your own image'. On the right, the 'Results' section displays the detected text 'Free Stock Photos' and 'pexels.com' with a 'Match confidence' of 100%. The 'Request' section shows a JSON snippet:

```
{  "Image": {    "Bytes": "..."}}
```

. The footer includes 'Feedback', 'English (US)', copyright information, and links to 'Privacy Policy' and 'Terms of Use'.