

**NAME** : **DHARSHINI.B.S**

**REG.NO** : **16MIS0449**

**COURSE TITLE** : **AMAZON WEB SERVICE**

**GUIDED BY** : **ETHNUS**

## UNIVERSITY



**VIT<sup>®</sup>**  
**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

### 1) Demo class- AWS



#### Sign in

☒ **Root user**  
Account owner that performs tasks requiring unrestricted access. [Learn more](#)

☐ **IAM user**  
User within an account that performs daily tasks. [Learn more](#)

Root user email address

bsdharshi@gmail.com

**Next**

New to AWS?

[Create a new AWS account](#)

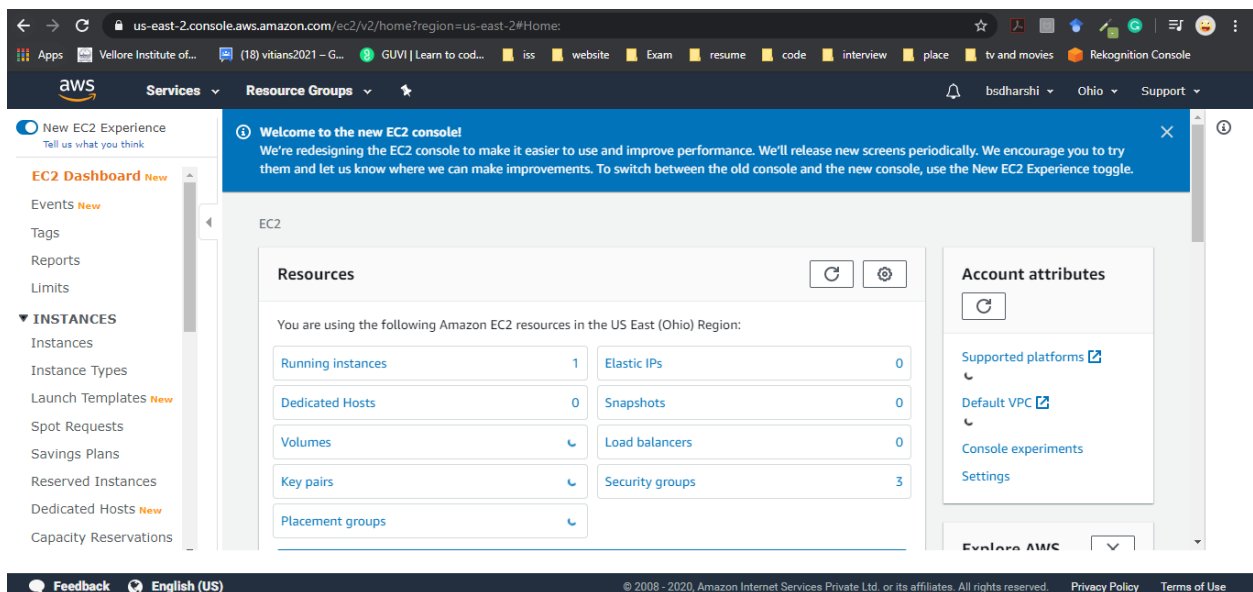
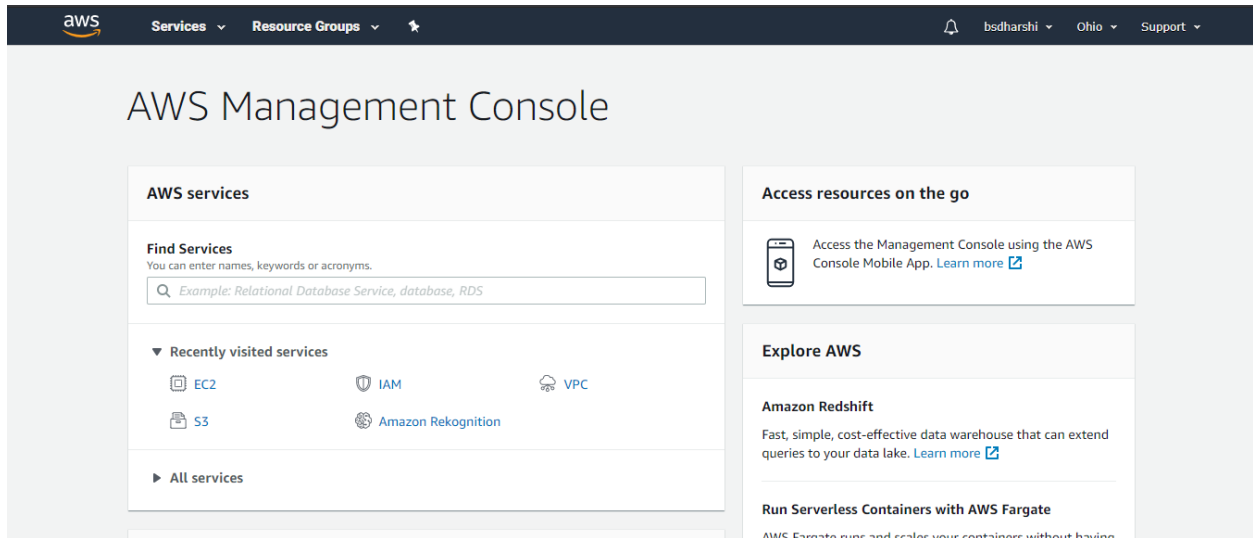
[https://aws.amazon.com/fsx/windows/?sc\\_icampaign=Adoption\\_Campaign\\_site-](https://aws.amazon.com/fsx/windows/?sc_icampaign=Adoption_Campaign_site-)

## Amazon FSx for Windows File Server

Fully managed Windows storage

[LEARN MORE](#)





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

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aws Services Resource Groups

Feedback English (US)

Amazon S3

Buckets

Batch operations

Access analyzer for S3

Block public access (account settings)

Feature spotlight 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.

Amazon S3

Buckets (1)

Copy ARN Empty Delete Create bucket

Find bucket by name

< 1 > ⚙

| Name           | Region                   | Access | Bucket created           |
|----------------|--------------------------|--------|--------------------------|
| dhharshini-aws | US East (Ohio) us-east-2 |        | 2020-03-27T07:16:19.000Z |

Feedback English (US)

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

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aws Services Resource Groups

Feedback English (US)

Amazon Rekognition

Custom Labels New

Use Custom Labels

Demos

Object and scene detection

Image moderation

Facial analysis

Celebrity recognition

Face comparison

Text in image

Video Demos

Video analysis

Amazon Rekognition

Deep learning-based visual analysis service

Search, verify, and organize millions of images and videos

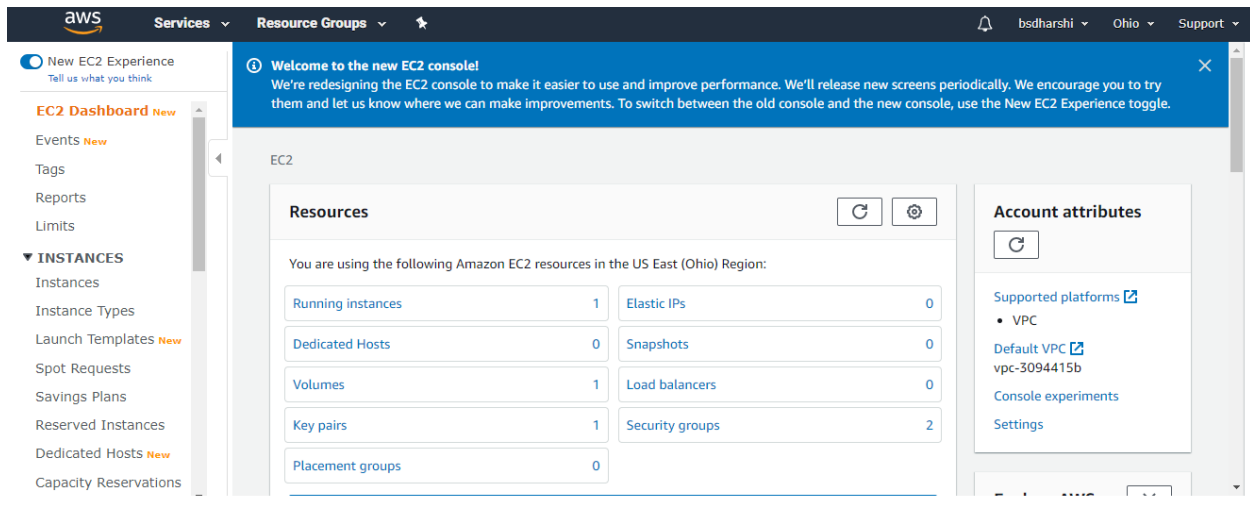
Try Demo

Download SDKs

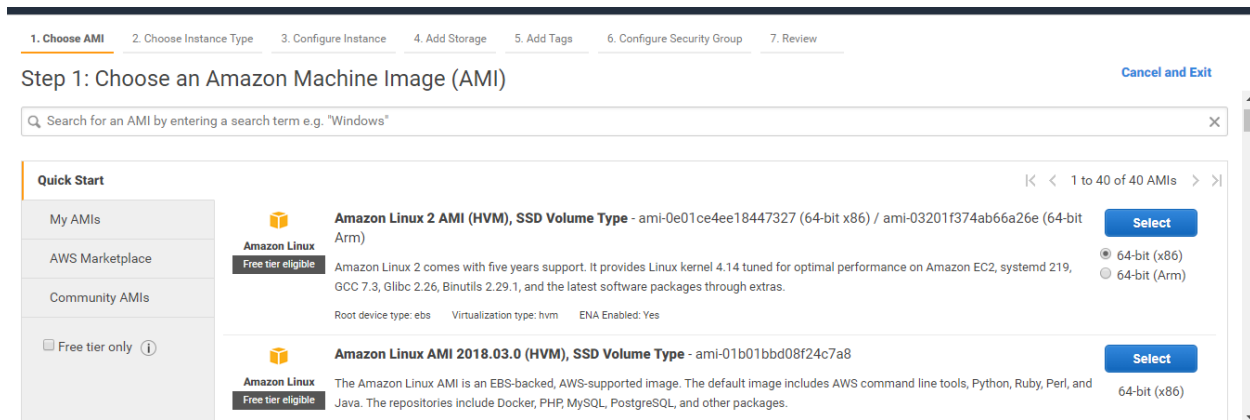
Feedback English (US)

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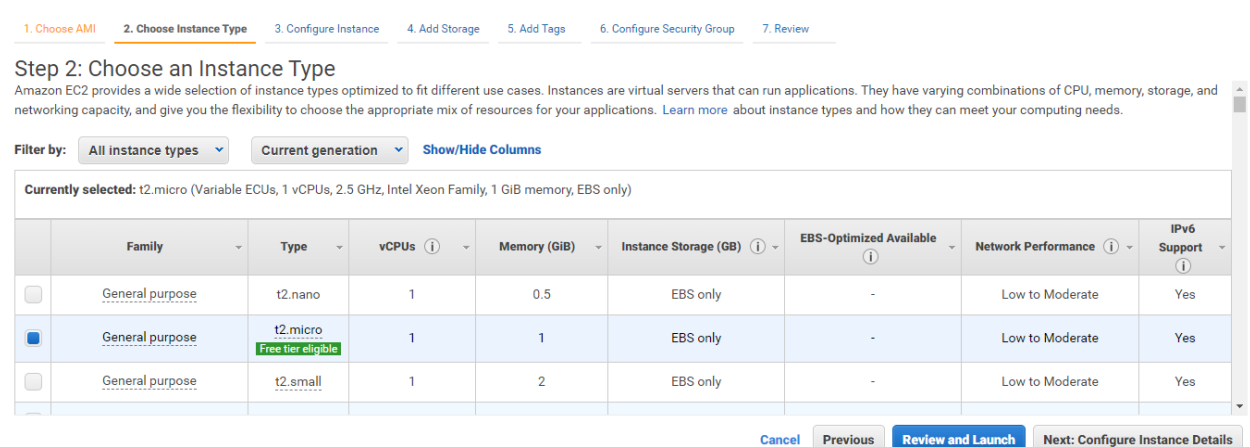
## 2) Master class Day -1 EC2



Step: 1- Select the operating System.



Step: 2 Select t2 micro.



Step: 3

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

### Step 3: Configure Instance Details

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

|                       |  |                                 |
|-----------------------|--|---------------------------------|
| Number of instances   | 1  | Launch into Auto Scaling Group  |
| Purchasing option     | <input type="checkbox"/> Request Spot instances          |                                 |
| Network               | vpc-3094415b (default)                                   | Create new VPC                  |
| Subnet                | No preference (default subnet in any Availability Zone)  | Create new subnet               |
| Auto-assign Public IP | Use subnet setting (Enable)                              |                                 |
| Placement group       | <input type="checkbox"/> Add instance to placement group |                                 |
| Capacity Reservation  | Open   | Create new Capacity Reservation |

### Step: 4 Add 8 GB storage.

|  |           |                        |            |                           |            |                   |                                     |             |
|--|-----------|------------------------|------------|---------------------------|------------|-------------------|-------------------------------------|-------------|
| 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 |
| <a href="#">Add New Volume</a>   |           |                        |            |                           |            |                   |                                     |             |
| <p>Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. <a href="#">Learn more</a> about free usage tier eligibility and usage restrictions.</p> |           |                        |            |                           |            |                   |                                     |             |
| <a href="#">Cancel</a> <a href="#">Previous</a> <a href="#">Review and Launch</a> <a href="#">Next: Add Tags</a>   |           |                        |            |                           |            |                   |                                     |             |

### Step: 5

|  |       |           |         |
|--|-------|-----------|---------|
| Key  | Value | Instances | Volumes |
| <p>This resource currently has no tags.</p> <p>Choose the Add tag button or click to add a Name tag.</p> <p>Make sure your IAM policy includes permissions to create tags.</p> |       |           |         |
| <a href="#">Add Tag</a> (Up to 50 tags maximum)  |       |           |         |
| <a href="#">Cancel</a> <a href="#">Previous</a> <a href="#">Review and Launch</a> <a href="#">Next: Configure Security Group</a>   |       |           |         |

### Step: 6 Security group.

aws Services Resource Groups

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

### Step 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 |

Add Rule

Warning

Cancel Previous **Review and Launch**

Step: 7 Launch the instance.

aws Services Resource Groups

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

### Step 7: Review Instance Launch

AMI Details [Edit AMI](#)

**Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0e01ce4ee18447327**

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

Instance Type [Edit instance type](#)

| Instance Type | ECUs     | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|----------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro      | Variable | 1     | 1            | EBS only              | -                       | Low to Moderate     |

Security Groups [Edit security groups](#)

Security group name: launch-wizard-2

Cancel Previous **Launch**

Step: 8 Enter the key pair name and download it. It will in .pem format.

### 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**

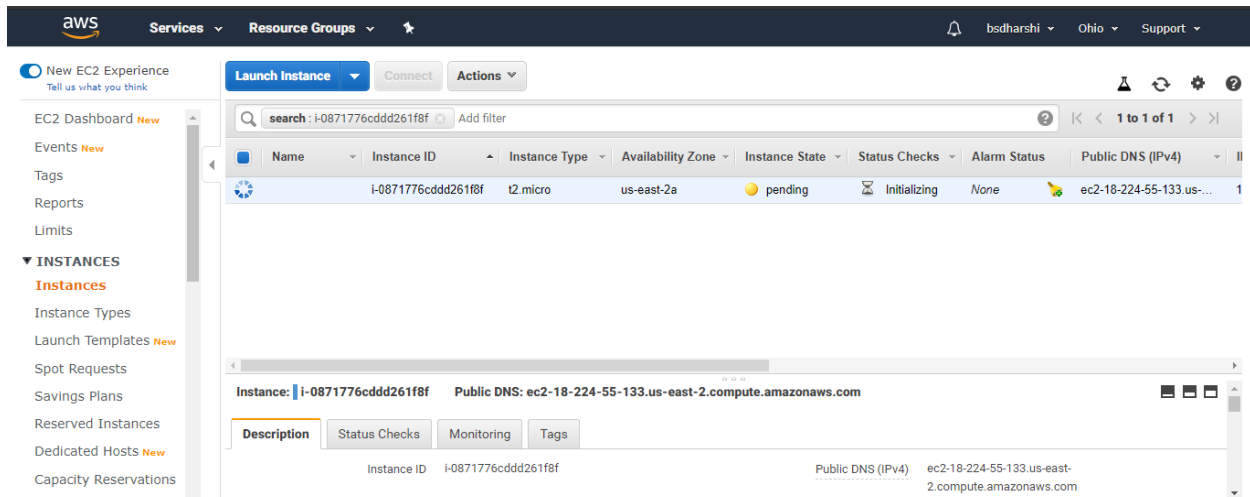
dharsini-aws

**Download Key Pair**

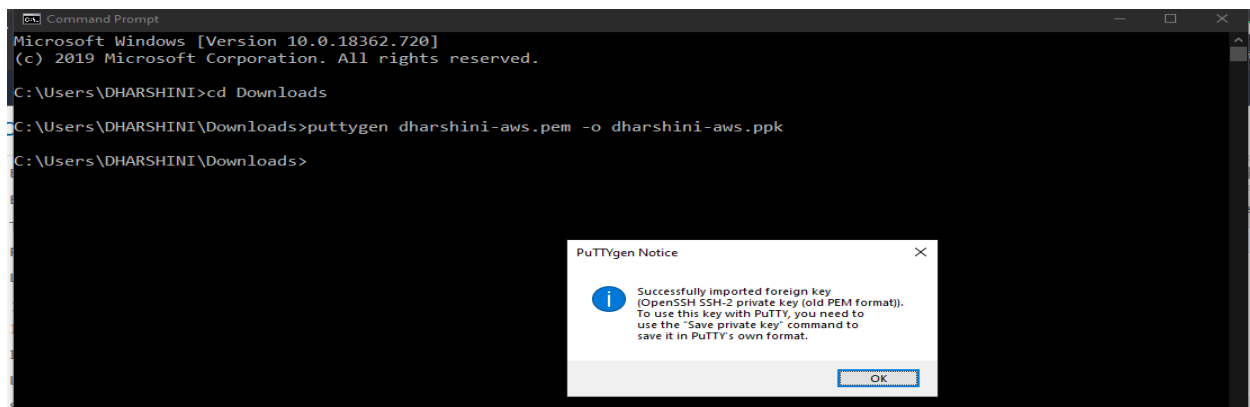
You have to download the **private key file** (\*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel **Launch Instances**

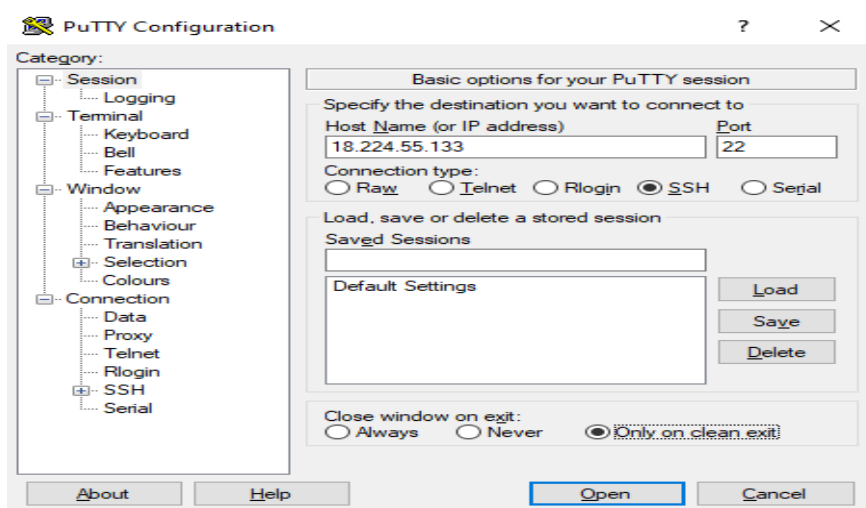
Step: 9 Instance created.



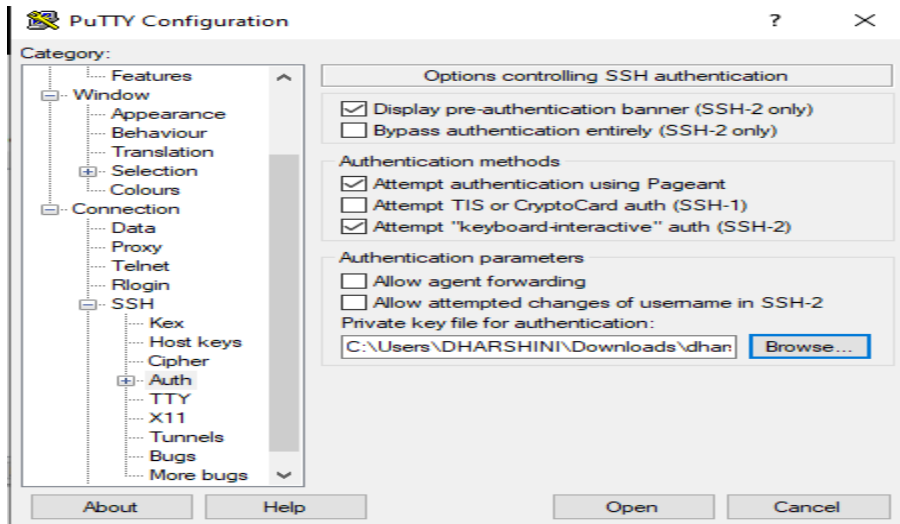
Step: 10 In command prompt convert the .pem file format to .ppk format. Since puTTY accept only .ppk



Step: 11 Paste the IP address and SSH – 22 Port.



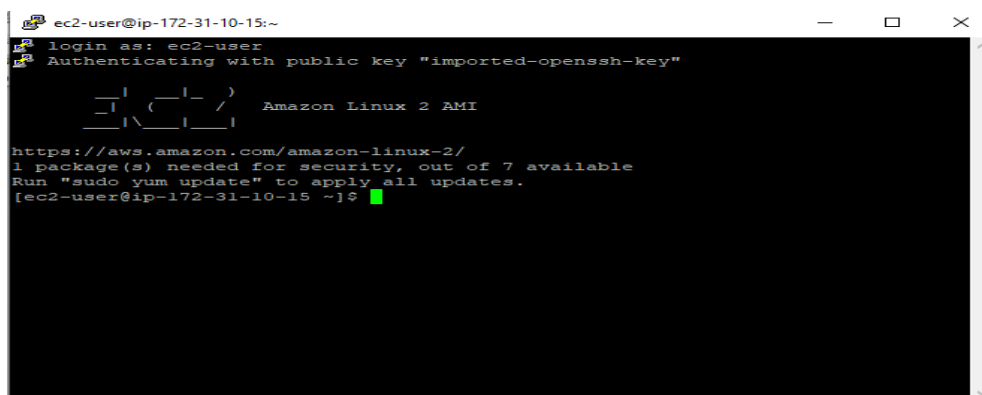
Step: 12 Paste the converted private key file.



Step: 13 puTTY command prompt.



Step: 14 Login using ec2-user name.

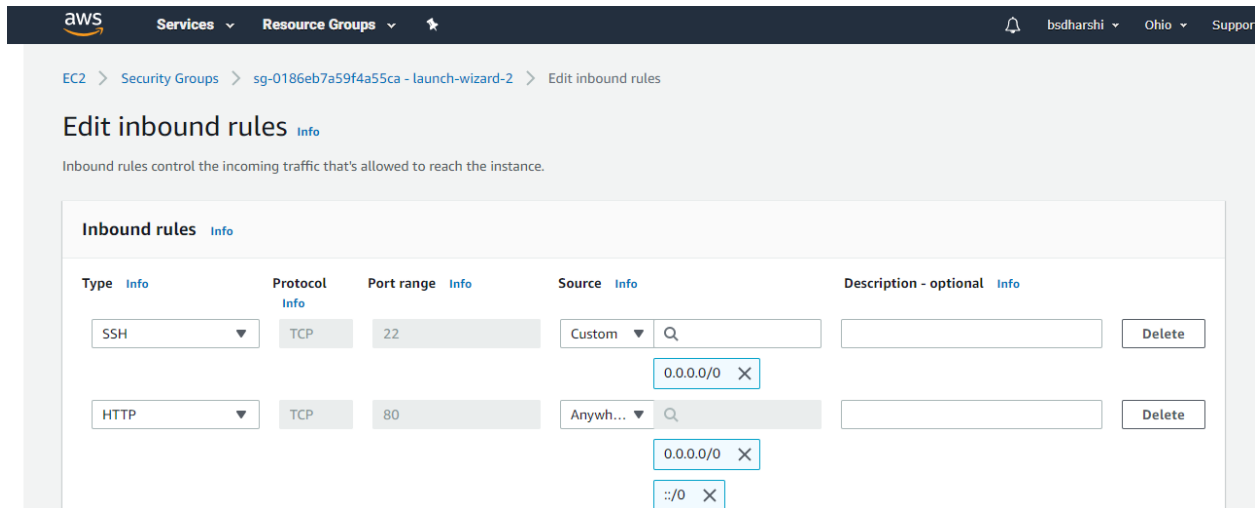


Step: 15 enter sudo yum install httpd command and press y.

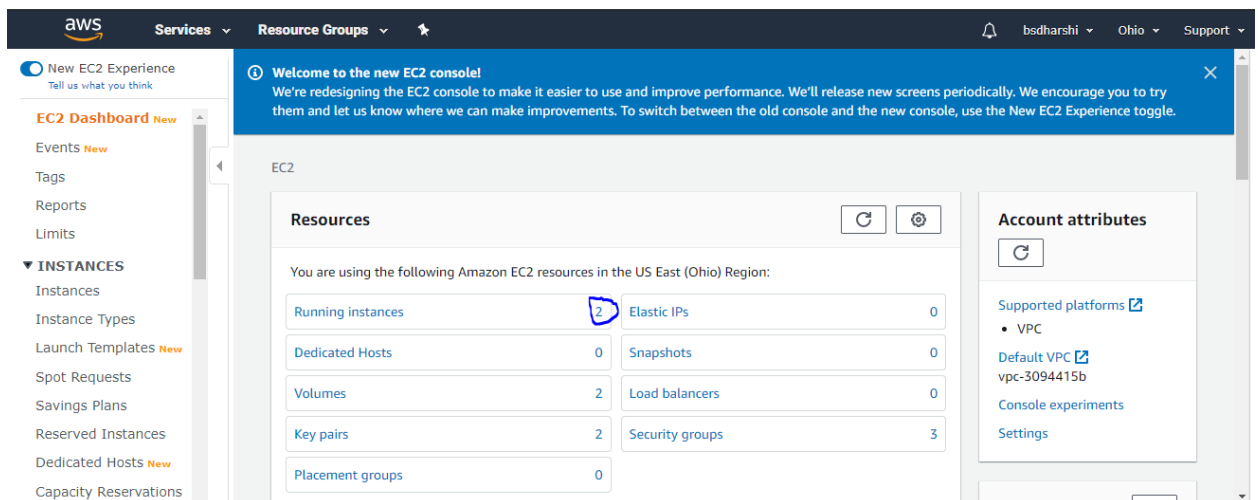


```
Hi I am Dharshini BS. Studying in Vellore VIT MTech Integrated!!!!
```

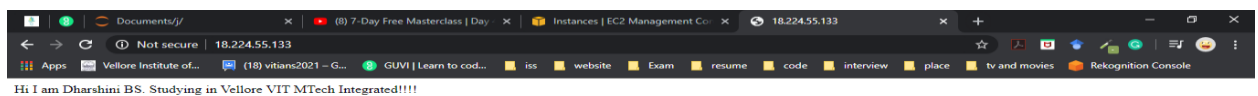
Step: 18 Edit the inbound and add http and source as anywhere.



Step: 19 Then the instance can be accessed.

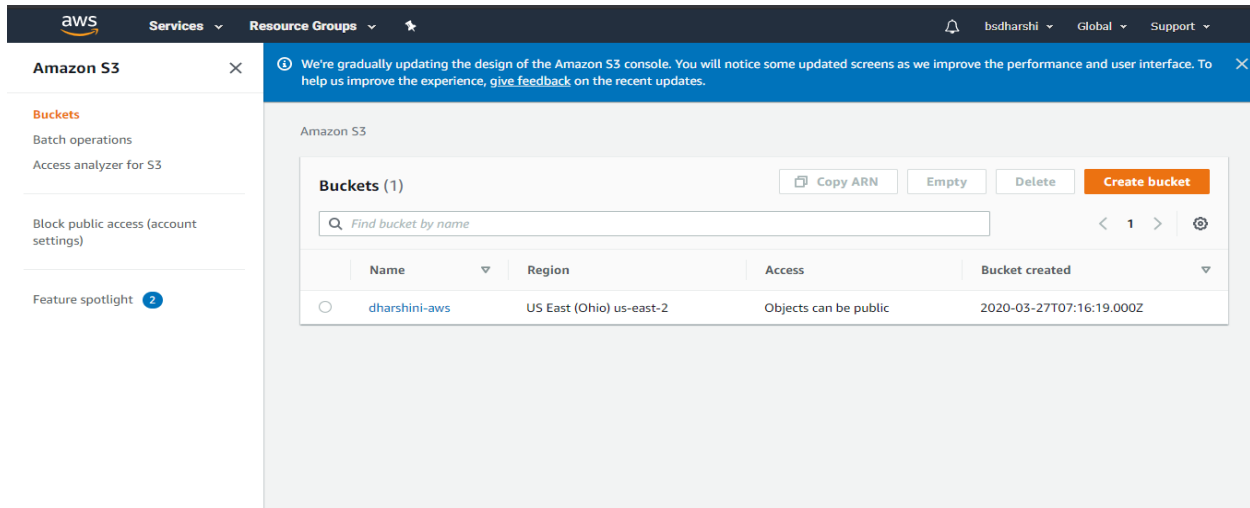


Step: 20 This is the webpage.

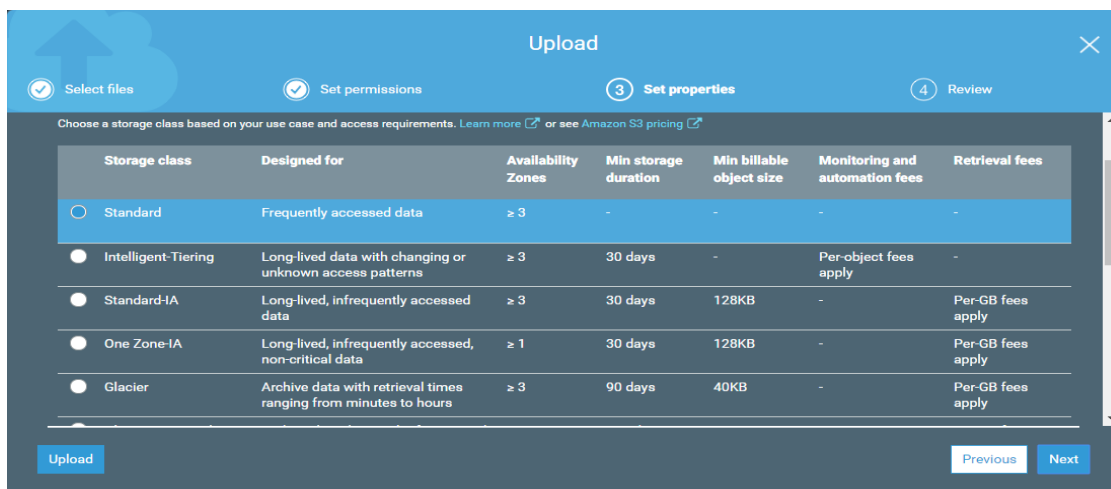
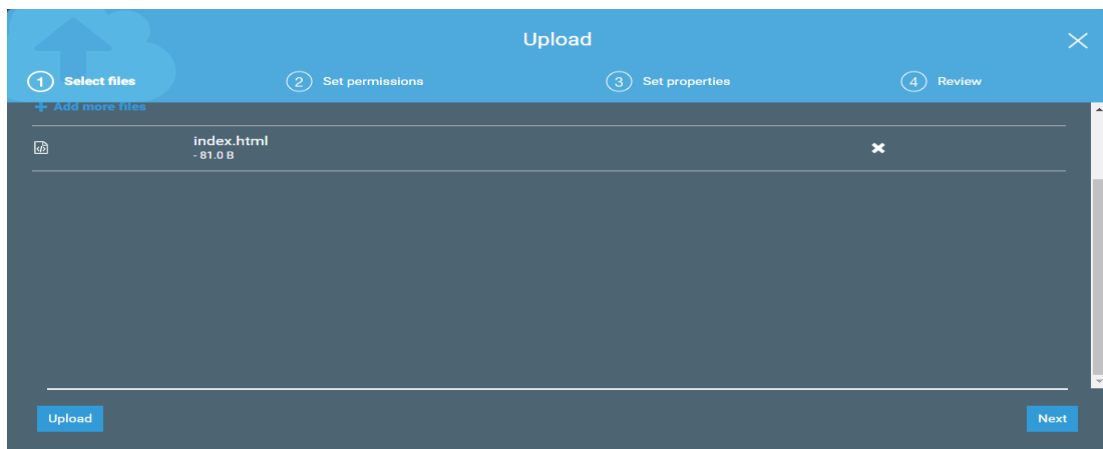


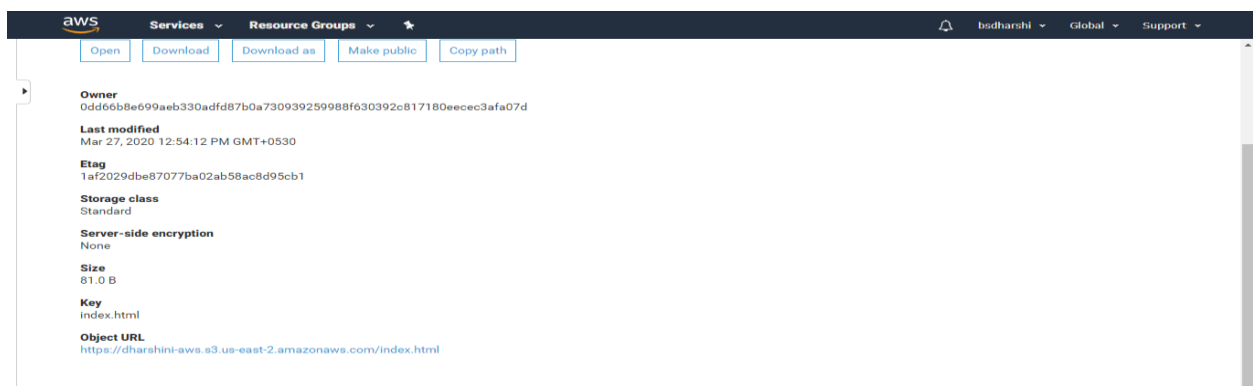
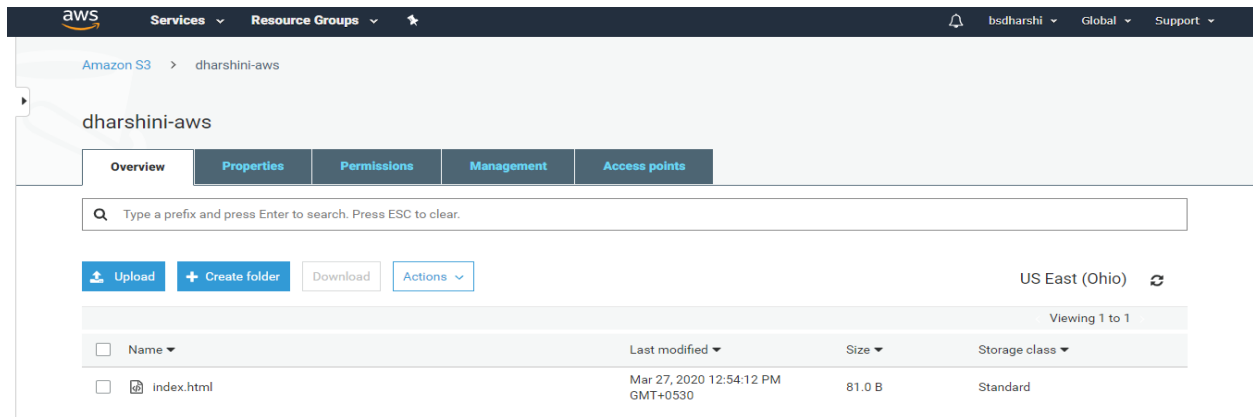
### 3) Day2-S3

Step: 1 Enter into S3 service and create the bucket.

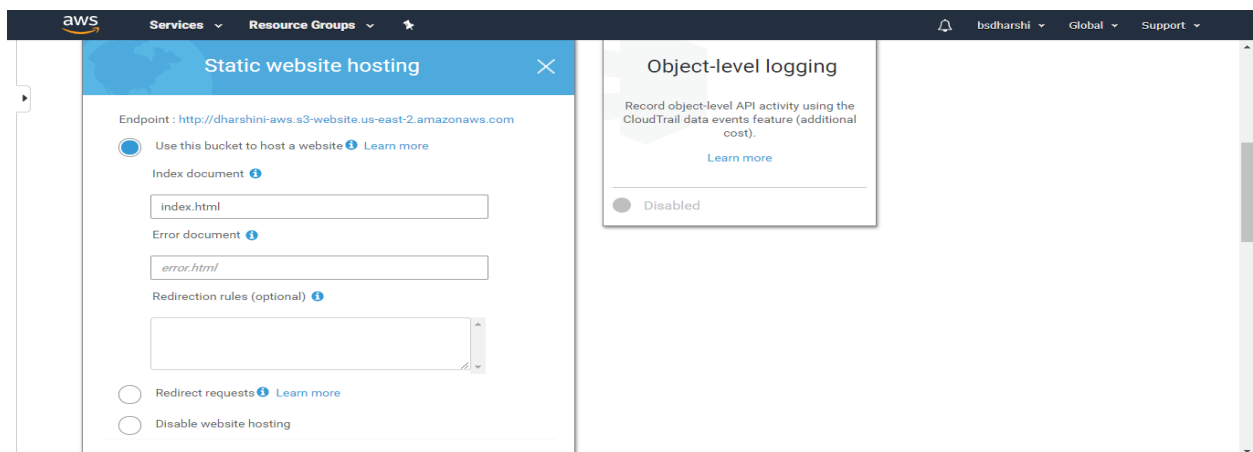


Step: 2 Then in the bucket upload the file in html format and set permission





Step: 3 In property tab select static website hosting and enter the document name and save it.



Step: 4 In permission tab off the block public access.

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
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies

Off

Step: 5 In overview tab make the object as public.

aws

Services

Resource Groups

bsdharshi

Global

Support

index.html

Latest version

Overview

Properties

Permissions

Select from

Open

Download

Download as

Make public

Copy path

Owner

Odd66b8e699aeb330adfd87b0a730939259988f630392c817180eecec3afa07d

Last modified

Mar 27, 2020 12:54:12 PM GMT+0530

Etag

1af2029dbe87077ba02ab58ac8d95cb1

Storage class

Standard

Server-side encryption

None

Size

81.0 B

Key

Step: 6 This is the website with url.

S3 Management Console

https://dharshini-aws.s3.us-east-2.amazonaws.com/index.html

dharshini-aws.s3.us-east-2.amazonaws.com/index.html

Apps

Vellore Institute of...

(18) vitians2021 - G...

GUVI | Learn to cod...

iss

website

Exam

resume

code

interview

place

tv and movies

Rekognition Console

Hello ! I am Dharshin BS !! Studying in VIT, Vellore !!! MTech Integrated !!!!

#### 4) EC2 and S3 Linking

```
ec2-user@ip-172-31-10-15:/var/www/html/face
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Mar 29 13:10:39 2020 from 59.93.20.237

 _ | _ | _ )
 _ | ( _ /   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-172-31-10-15 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB 00:00
amzn2extra-docker | 1.8 kB 00:00
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-10-15 ~]$ curl -sS https://getcomposer.org/installer | php
All settings correct for using Composer
Downloading...

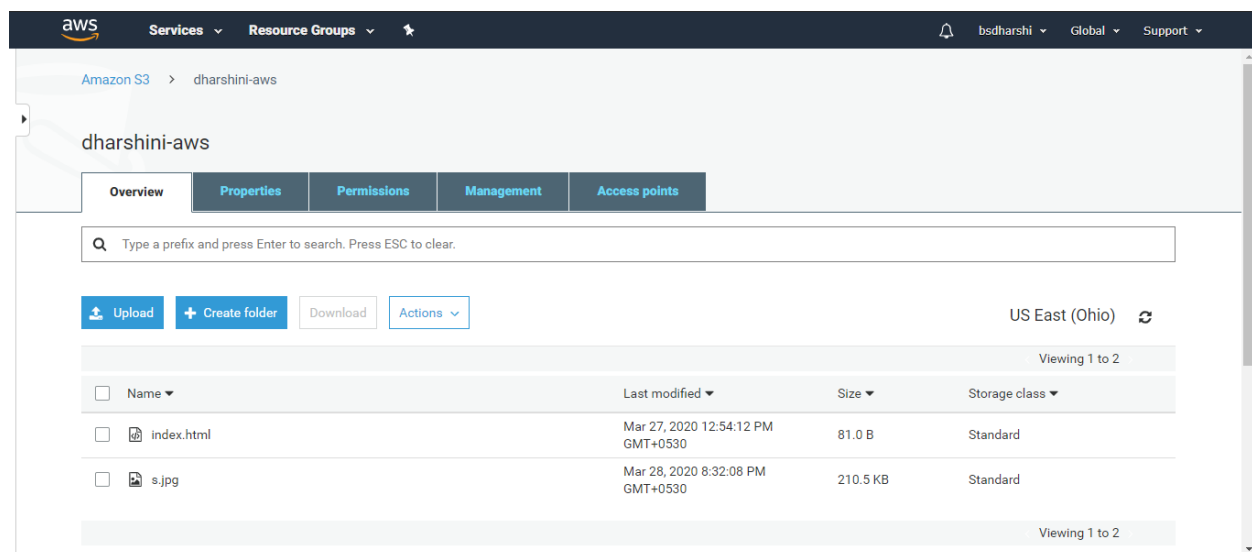
Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.phar
Use it: php composer.phar
```

```
ec2-user@ip-172-31-10-15:/var/www/html/face

[ec2-user@ip-172-31-10-15 ~]$ cd /var/www/html/face
[ec2-user@ip-172-31-10-15 face]$ sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
Using version ^2.8 for aws/aws-sdk-php
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Generating autoload files
[ec2-user@ip-172-31-10-15 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-03-29 13:41:45-- https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 104.70.191.146, 2600:1408:20:ab4::1931, 2600:1408:20:a85::1931, ...
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
```

```
ec2-user@ip-172-31-10-15:/var/www/html/face
vendor
[ec2-user@ip-172-31-10-15 face]$ sudo rm index1.php
[ec2-user@ip-172-31-10-15 face]$ ^C
[ec2-user@ip-172-31-10-15 face]$ sudo rm imgres?imgurl=https:%2F%2Fs01.sgpl.digi
talococeanspaces.com%2Flarge%2F848048-66350-ahucmkzaad-1503378609.jpg
[ec2-user@ip-172-31-10-15 face]$ ls
composer.json  composer.lock  s.jpg  vendor
[ec2-user@ip-172-31-10-15 face]$ sudo vim index.php
[ec2-user@ip-172-31-10-15 face]$ sudo php index.php
You must specify a non-null value for the Body or SourceFile parameters.
[ec2-user@ip-172-31-10-15 face]$ sudo vim index.php
[ec2-user@ip-172-31-10-15 face]$ sudo php index.php
Access Denied
[ec2-user@ip-172-31-10-15 face]$ sudo php index.php
Access Denied
[ec2-user@ip-172-31-10-15 face]$ sudo vim index.php
[ec2-user@ip-172-31-10-15 face]$ sudo rm index.php
[ec2-user@ip-172-31-10-15 face]$ sudo vim index.php
[ec2-user@ip-172-31-10-15 face]$ sudo php index.php
Access Denied
[ec2-user@ip-172-31-10-15 face]$ sudo vim index.php
[ec2-user@ip-172-31-10-15 face]$ sudo php index.php
Image upload done... Here is the URL: https://dharshini-aws.s3.us-east-2.amazona
ws.com/s.jpg[ec2-user@ip-172-31-10-15 face]$
```



## 5) Rekognition

Face detection:

aws

Services

Resource Groups

bsdharshi

Ohio

Support

Amazon Rekognition

Custom Labels New

Use Custom Labels

Demos

Object and scene detection

Image moderation

**Facial analysis**

Celebrity recognition

Face comparison

Text in image

Video Demos

Video analysis

Facial analysis

Get a complete analysis of facial attributes, including confidence scores.

Done with the demo?

[Learn more](#)

Results

|                      |                   |
|----------------------|-------------------|
| looks like a face    | 99.9 %            |
| appears to be female | 99.9 %            |
| age range            | 17 - 29 years old |
| smiling              | 91.7 %            |

Feedback

English (US)

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## Face comparison:

aws

Services

Resource Groups

bsdharshi

Ohio

Support

Amazon Rekognition

Custom Labels New

Use Custom Labels

Demos

Object and scene detection

Image moderation

Facial analysis

Celebrity recognition

**Face comparison**

Text in image

Video Demos

Video analysis

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 %

≠

Feedback

English (US)

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## Celebrity recognition:



aws Services Resource Groups

bsdharshi Ohio Support

Amazon Rekognition

Custom Labels <sup>New</sup>

Use Custom Labels

Demos

Object and scene detection

Image moderation

Facial analysis

**Celebrity recognition**

Face comparison

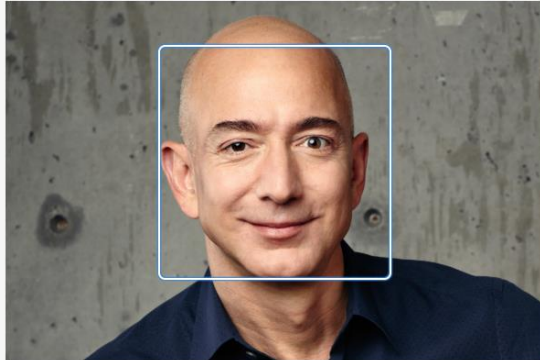
Text in image

Video Demos

Video analysis


### Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.



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

▼ Results



**Jeff Bezos**  
[Learn More](#)

Match confidence 100 %

► Request

► Response

Feedback English (US)

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Text in an image:

aws Services Resource Groups

bsdharshi Ohio Support

Amazon Rekognition

Custom Labels <sup>New</sup>

Use Custom Labels

Demos

Object and scene detection

Image moderation

Facial analysis

Celebrity recognition

Face comparison


**Text in image**

Video Demos

Video analysis

### Text in image

Rekognition automatically detects and extracts text in your images. [Learn More](#)



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

▼ Results US English only

| IT'S |  
| MONDAY |  
| but | keep |  
| Smiling |

► Request

► Response

Feedback English (US)

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## 6) Face detection success:

```
ec2-user@ip-172-31-10-15:/var/www/html/face
[ec2-user@ip-172-31-10-15 face]$ sudo vim index.php
[ec2-user@ip-172-31-10-15 face]$ sudo php index.php
Image upload done... Here is the URL: https://dharshini-aws.s3.us-east-2.amazonaws.com/sample.jpg
Totally there are 9 faces
[ec2-user@ip-172-31-10-15 face]$
```