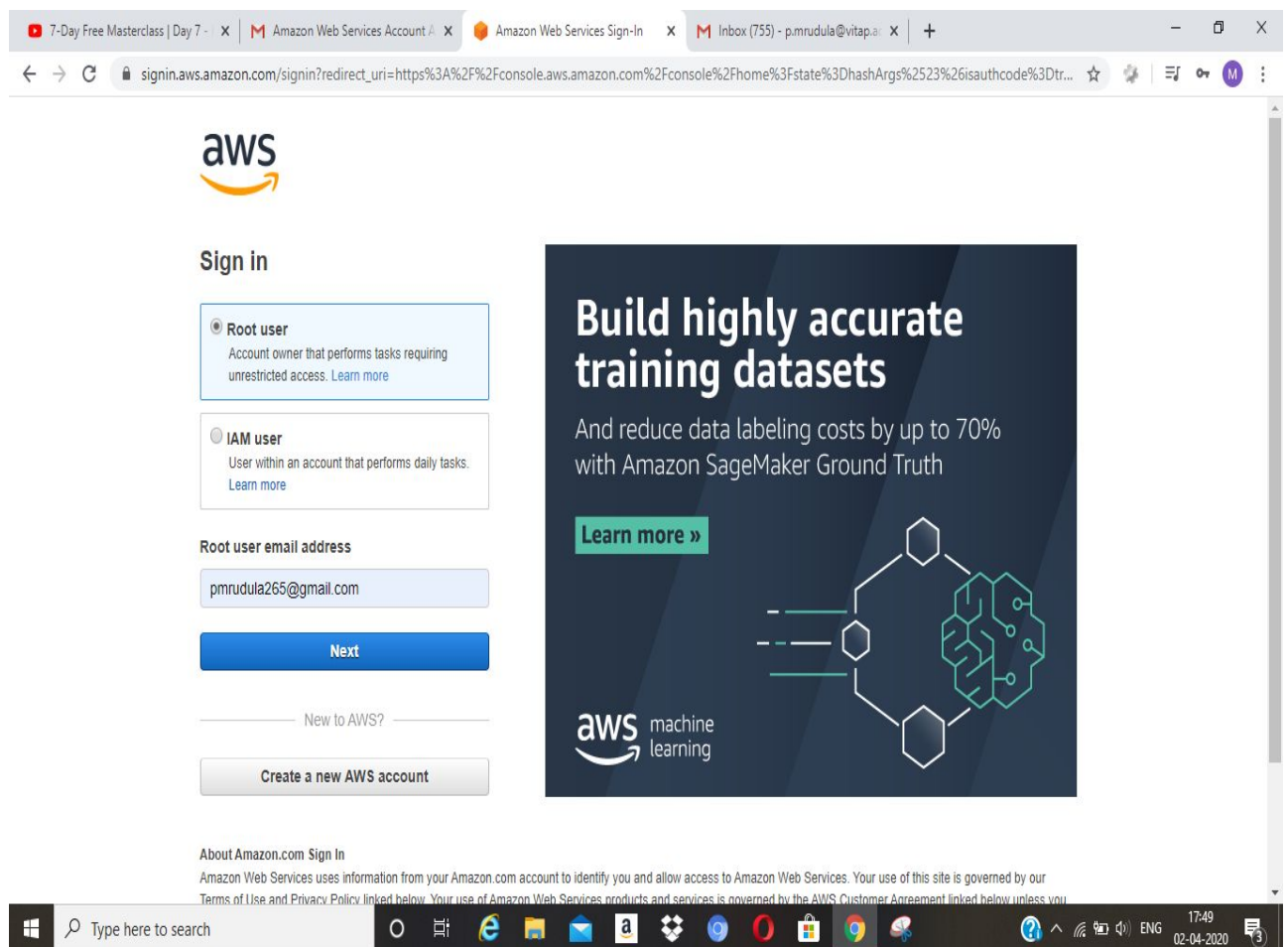


AWS Face Recognition project

Screenshots needed for dashboards:

1.AWS login screen with username



2.EC2 Dashboard

The screenshot displays the AWS Management Console for the EC2 service in the us-east-2 region. The interface includes a top navigation bar with the AWS logo, 'Services', 'Resource Groups', and user information. A left-hand navigation pane lists various EC2-related features like 'New EC2 Experience', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES', and 'IMAGES'. The main content area, titled 'EC2', shows a 'Resources' section with a table of current EC2 resources in the US East (Ohio) Region. To the right, there are sections for 'Account attributes' and 'Explore AWS'. At the bottom, a 'Launch instance' button is visible. The browser's address bar shows the URL 'us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Home:'. The Windows taskbar at the bottom indicates the system time as 11:44 on 03-04-2020.

Resources

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

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

Account attributes

- Supported platforms
 - VPC
- Default VPC
 - vpc-561cc93d
- 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

Launch instance

3.S3 Dashboard

The screenshot shows the Amazon S3 console in a web browser. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information 'Mrudula.p'. A blue banner at the top right contains a message about the console's gradual update. The left sidebar lists 'Amazon S3' with sub-links for 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area is titled 'Amazon S3' and displays 'Buckets (0)'. It includes a search bar with the placeholder 'Find bucket by name', a table with headers 'Name', 'Region', 'Access', and 'Bucket created', and a 'Create bucket' button. A message states 'No buckets. You don't have any buckets.' with another 'Create bucket' button below it. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 11:47 on 03-04-2020.

4.Rekognition Dashboard

The screenshot displays the Amazon Rekognition console. The top navigation bar features the AWS logo, 'Services', 'Resource Groups', and user information 'Mrudula.p'. The left sidebar lists 'Amazon Rekognition' with sub-links for 'Custom Labels', 'Demos', 'Video Demos', and 'Metrics'. The main content area has a large header 'Amazon Rekognition' with the description 'Deep learning-based visual analysis service' and 'Search, verify, and organize millions of images and videos'. It includes a 'Try Demo' button and a 'Download SDKs' link. Below the header, there are three sections: 'Easily Integrate Powerful Visual Analysis into Your App', 'Continuously Learning', and 'Integrated with AWS Services'. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 11:53 on 03-04-2020.

Screenshots needed for EC2:

1.Choosing an AMI

The screenshot shows the AWS Management Console interface for the 'Launch instance wizard'. The browser tabs include 'Inbox (3,119)', 'Reminder: Ethnus Webinar 3', 'launcher | GoToWebinar', 'Launch instance wizard | EC2', and '7-Day Free Masterclass | Day'. The URL is 'us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:'. The console header shows the AWS logo, 'Services', 'Resource Groups', and user information 'Mrudula.p', 'Ohio', and 'Support'. The wizard progress bar indicates '1. Choose AMI' is the current step, followed by '2. Choose Instance Type', '3. Configure Instance', '4. Add Storage', '5. Add Tags', '6. Configure Security Group', and '7. Review'. The main heading is 'Step 1: Choose an Amazon Machine Image (AMI)'. Below the heading is a description: '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.' A search bar is present with the placeholder text 'Search for an AMI by entering a search term e.g. "Windows"'. The 'Quick Start' sidebar on the left lists 'My AMIs', 'AWS Marketplace', 'Community AMIs', and a 'Free tier only' filter. The main content area displays two AMI options. The first is 'Amazon Linux 2 AMI (HVM), SSD Volume Type' with AMI IDs 'ami-0e01ce4ee18447327 (64-bit x86)' and 'ami-03201f374ab66a26e (64-bit Arm)'. It includes a 'Free tier eligible' badge, a description of the Linux kernel and software packages, and a 'Select' button. The second is 'Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type' with AMI ID 'ami-01b01bbd08f24c7a8'. It also has a 'Free tier eligible' badge, a description of the EBS-backed image and included packages, and a 'Select' button. The bottom of the screenshot shows the Windows taskbar with the search bar, taskbar icons for various applications, and the system tray showing the date and time.

2.Choosing an Instance type:

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

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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Type here to search

3.Adding storage:

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

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-0f54692056aaa4c20	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous Review and Launch Next: Add Tags

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Type here to search

4. Configuring security group:

The screenshot shows the AWS Management Console at the URL `us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard`. The navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information 'Mrudula.p', 'Ohio', and 'Support'. The wizard progress bar shows steps 1 through 7, with '6. Configure Security Group' currently selected.

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
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

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5. Keypair download

The screenshot shows the AWS Management Console at the same URL as before. The wizard progress bar now shows '7. Review' as the current step.

Step 7: Review Instance Launch
Please review your instance launch details. You can edit details at any time before launching your instance.

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
Free tier eligible
Amazon Linux 2 comes with five years of support and software packages through extras.
Root Device Type: ebs Virtualization type: paravirtual

Instance Type
Instance Type: t2.micro ECUs: Variable

Network Performance
Low to Moderate

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](#).

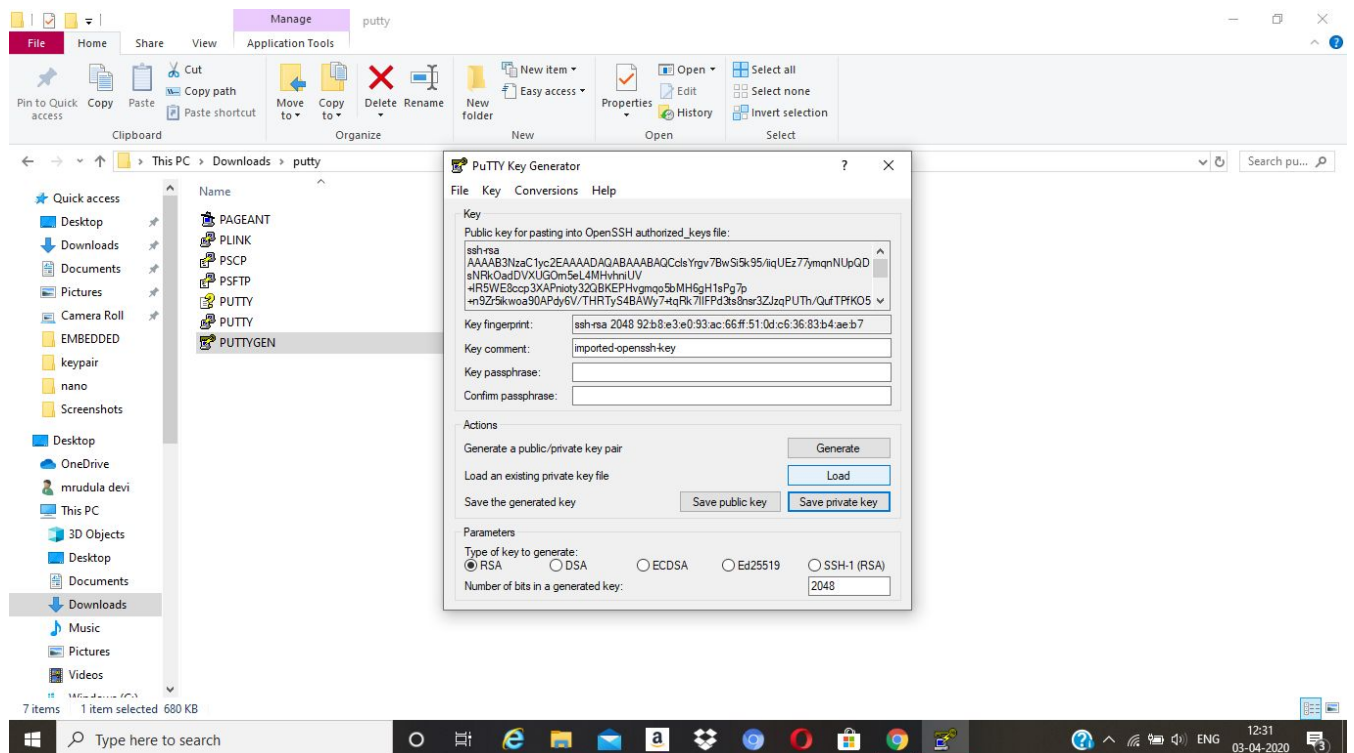
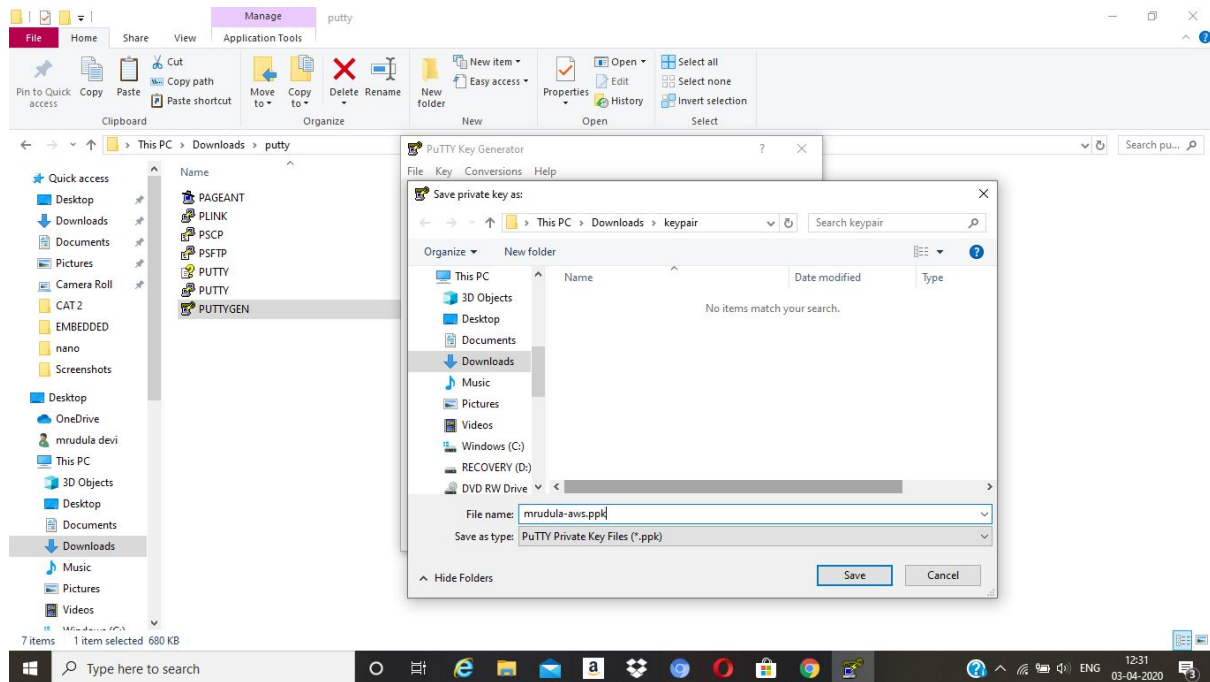
Create a new key pair
Download Key Pair

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.

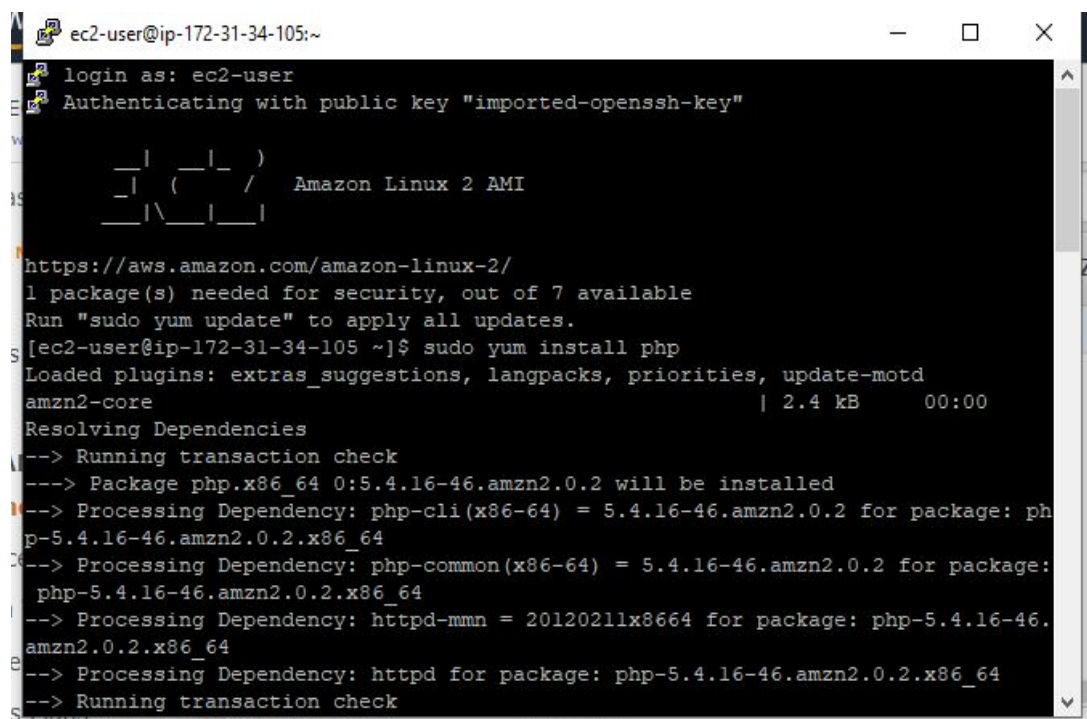
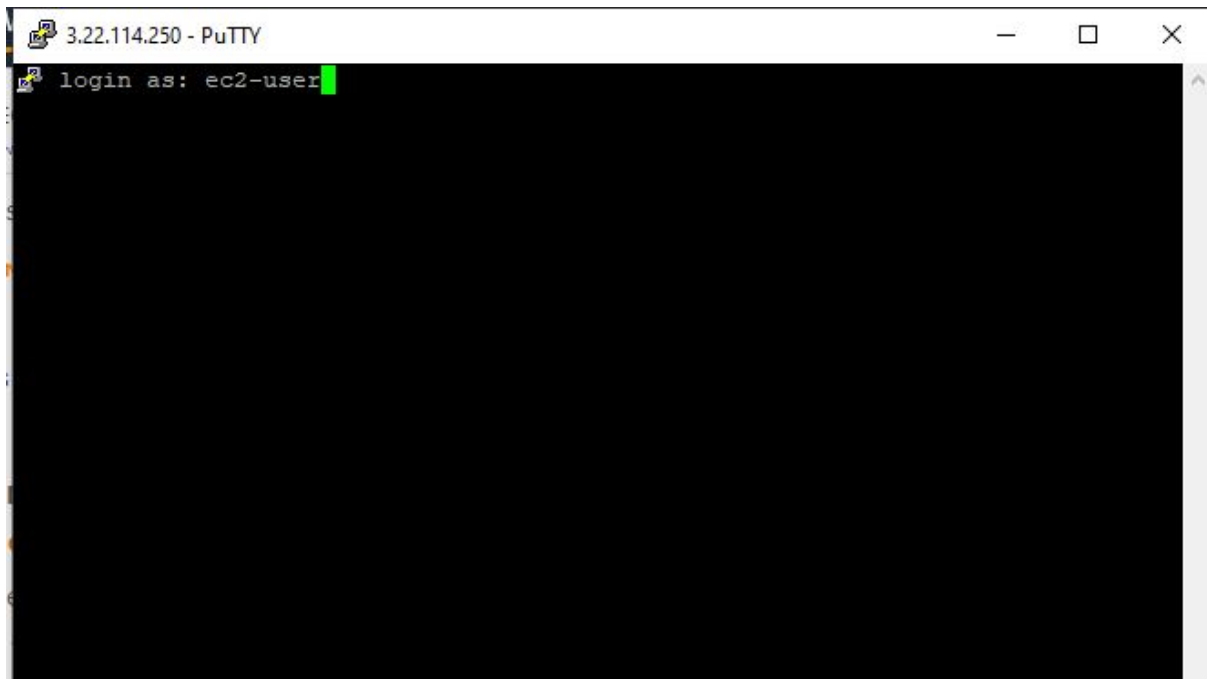
Cancel Launch Instances

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6.Puttygen conversion from pem to ppk:

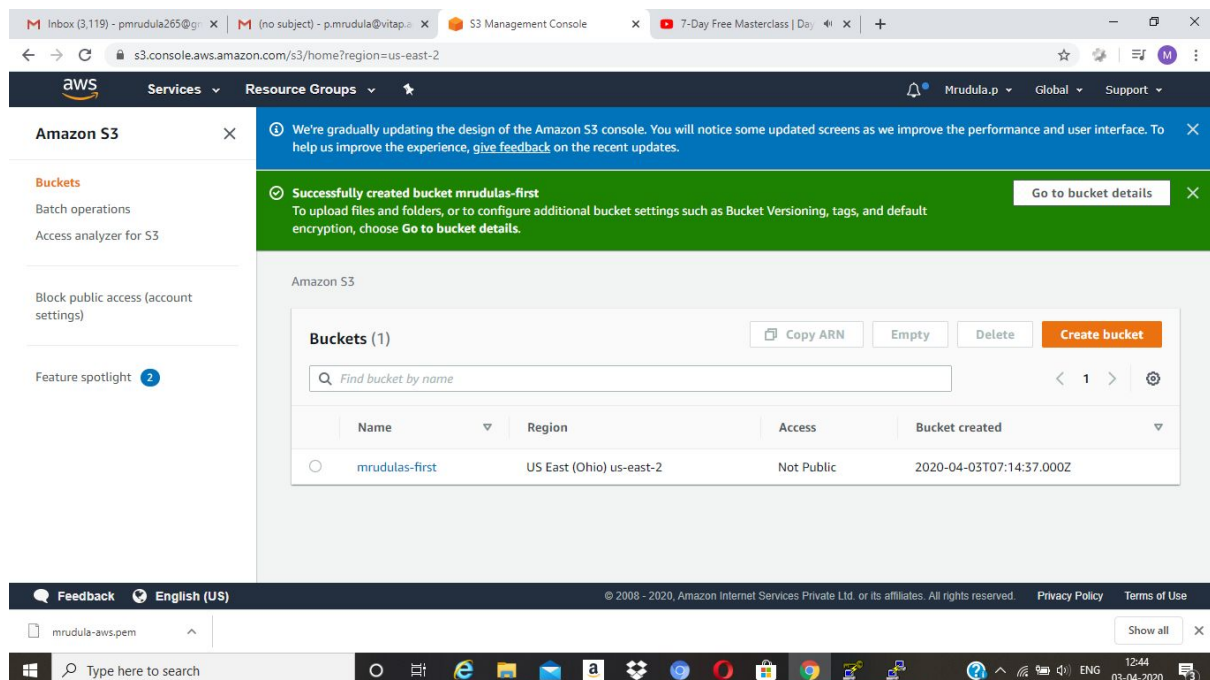
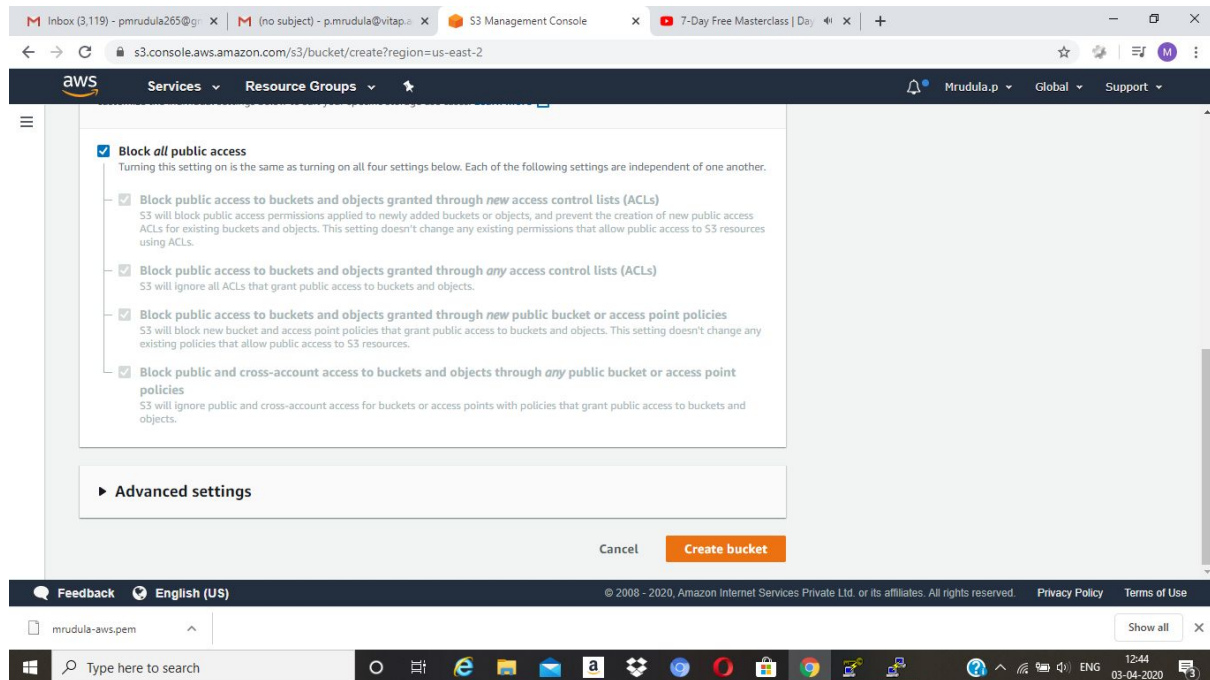


7. Logged in EC2 black screen:



Screenshots needed for S3:

1. Creating a bucket:



2.Uploading an object:

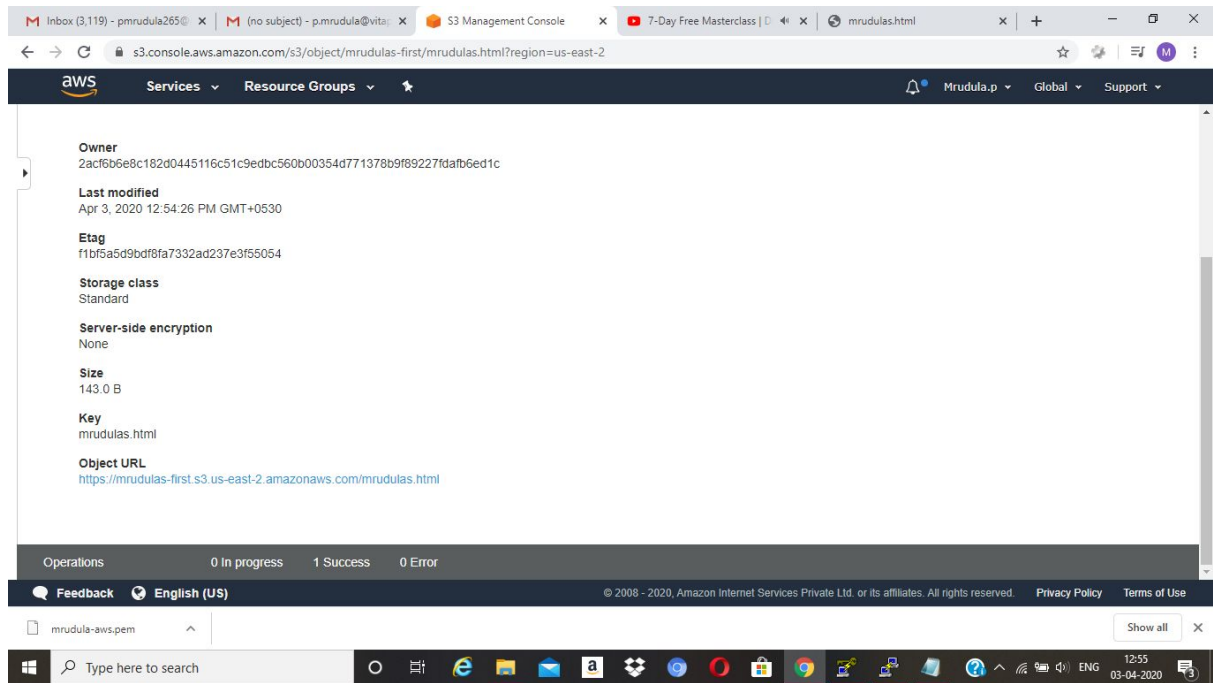
The image consists of two screenshots of the AWS S3 console interface, showing the process of uploading an object to a bucket named 'mrudulas-first' in the 'us-east-2' region.

Top Screenshot: The console shows the 'Overview' tab for the bucket 'mrudulas-first'. The bucket is empty, with a message: "This bucket is empty. Upload new objects to get started." The 'Upload' button is visible in the top left of the bucket view. The console header shows the user 'Mrudula.p' and the region 'US East (Ohio)'.

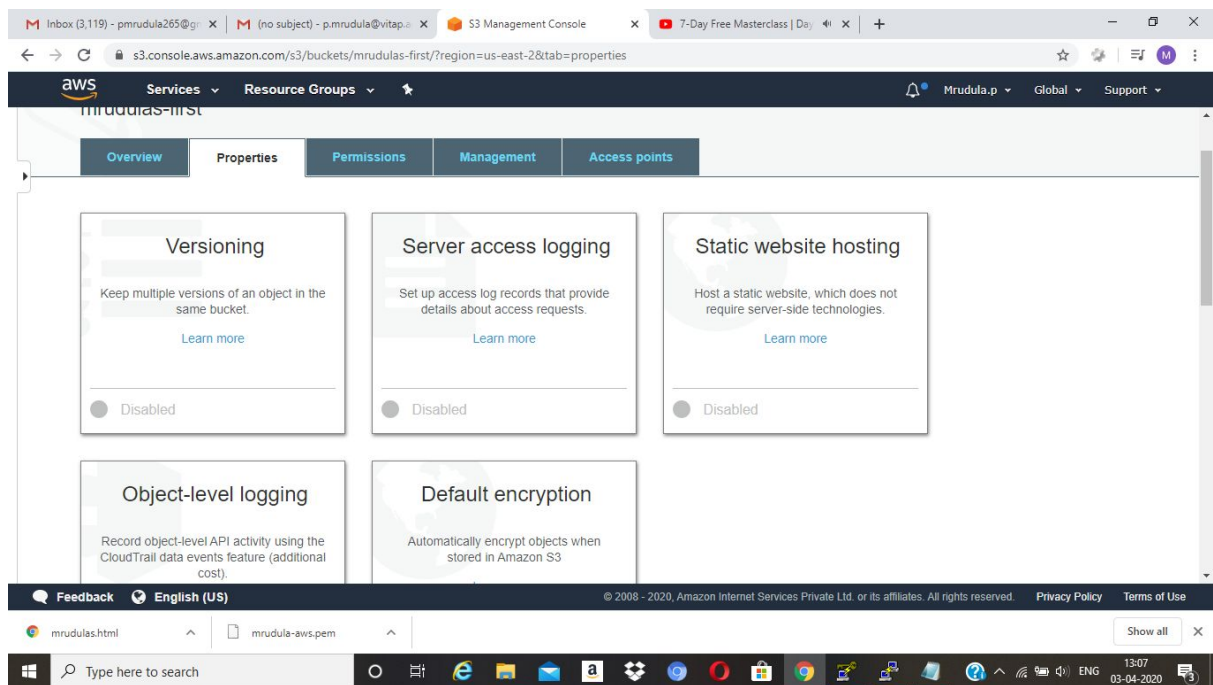
Bottom Screenshot: The 'Upload' modal is open, showing the 'Review' step (4 of 4). The modal displays the following information:

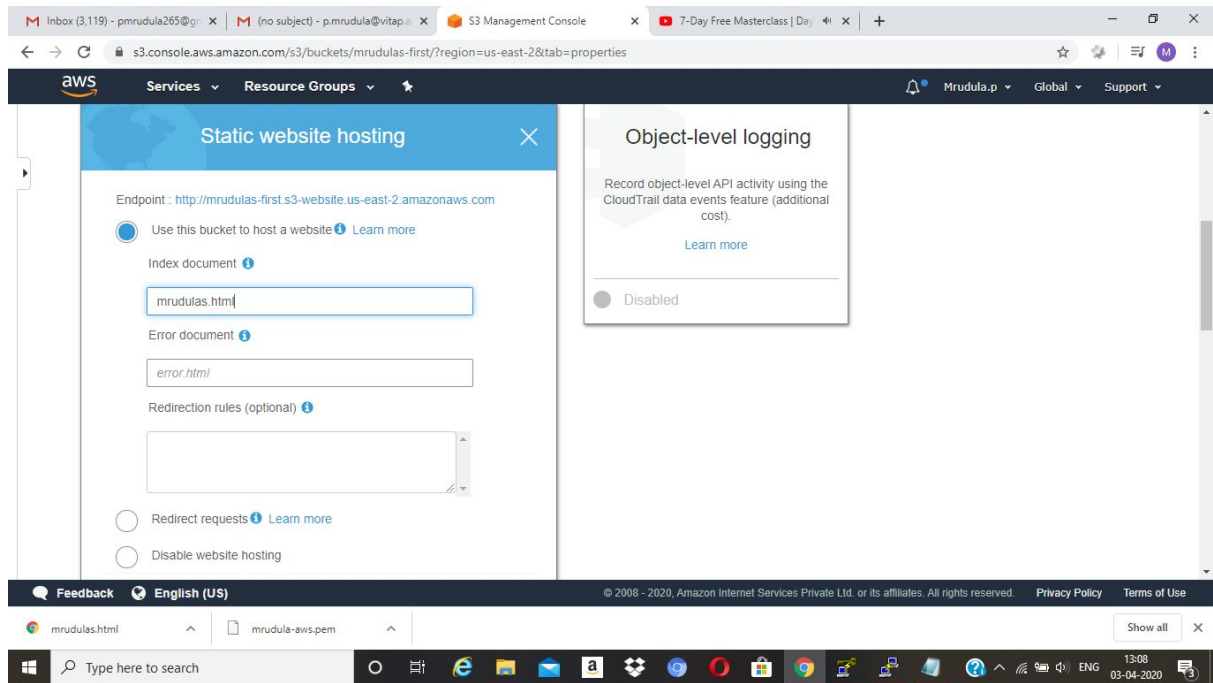
- Files:** 1 File, Size: 143.0 B
- Permissions:** 1 grantees (with an 'Edit' link)
- Properties:** (with an 'Edit' link)
- Encryption:** No
- Storage class:** Standard
- Metadata:** Tag

At the bottom of the modal, there are 'Previous' and 'Upload' buttons. The console header and footer are consistent with the top screenshot.

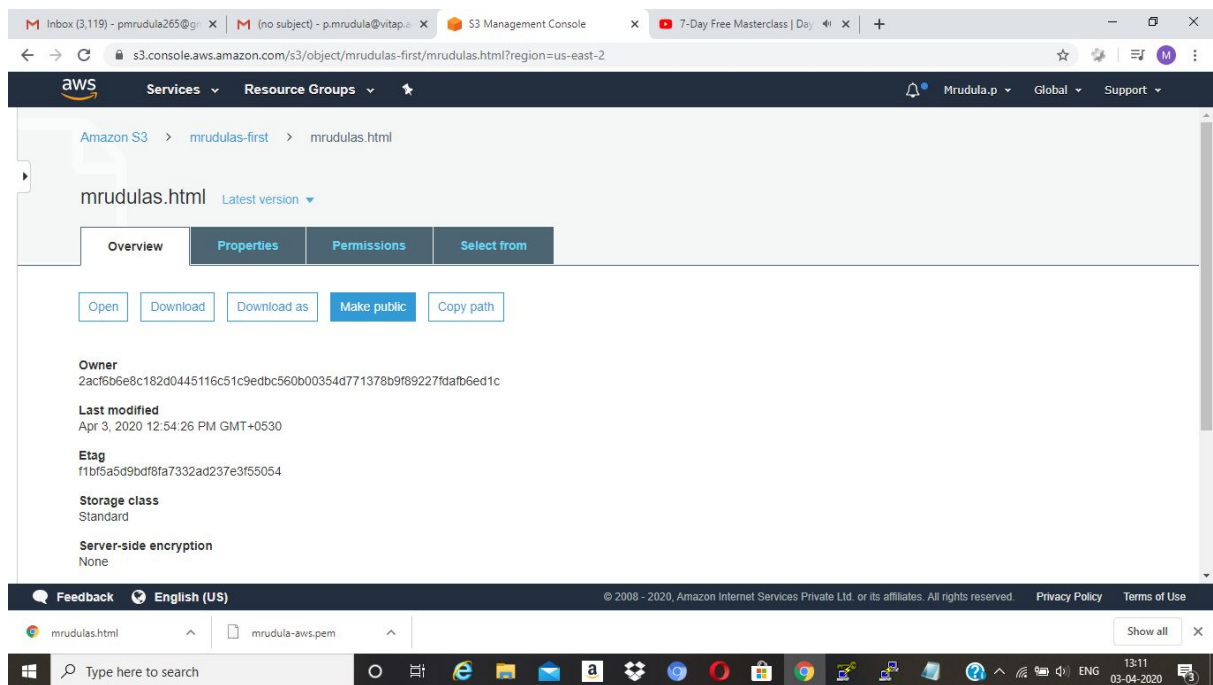


3.Enabling static website:

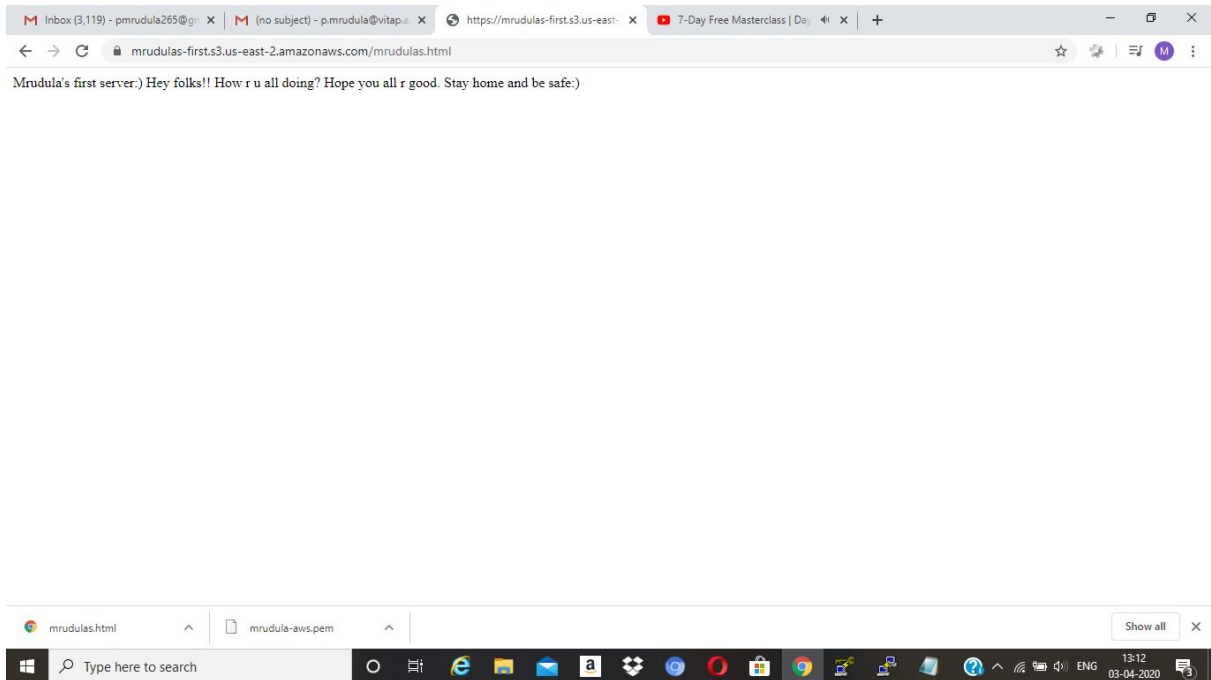




4. Making the object public:

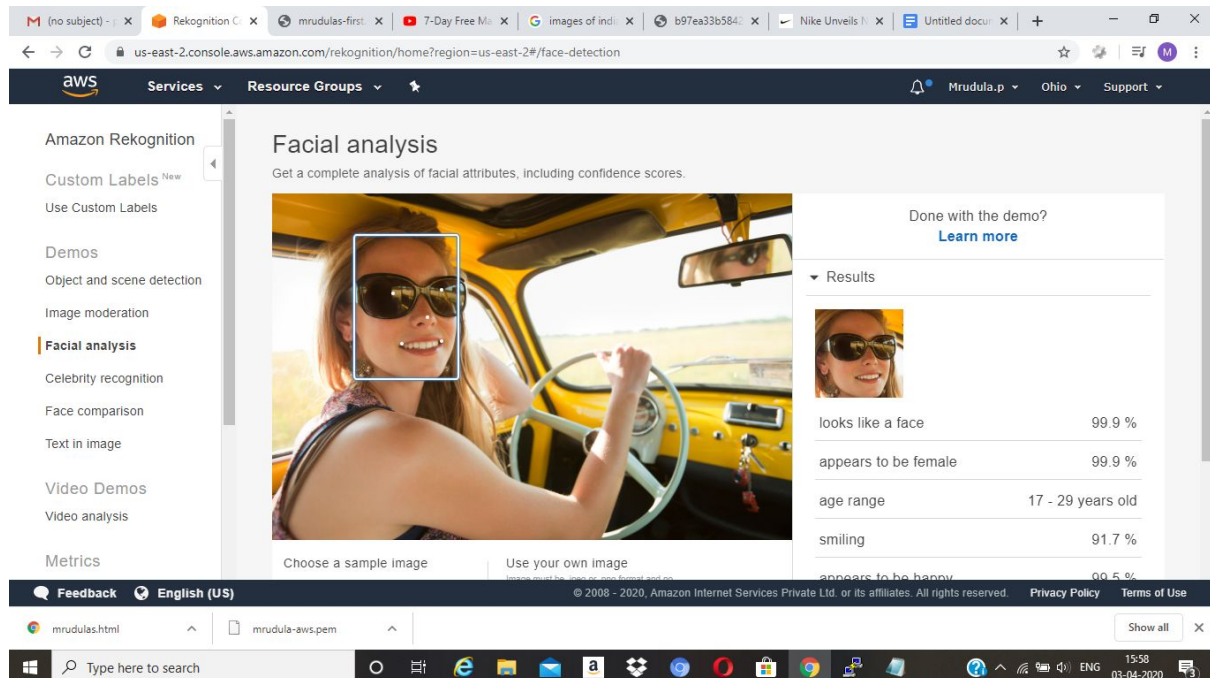


5. Checking the S3 link in browser:

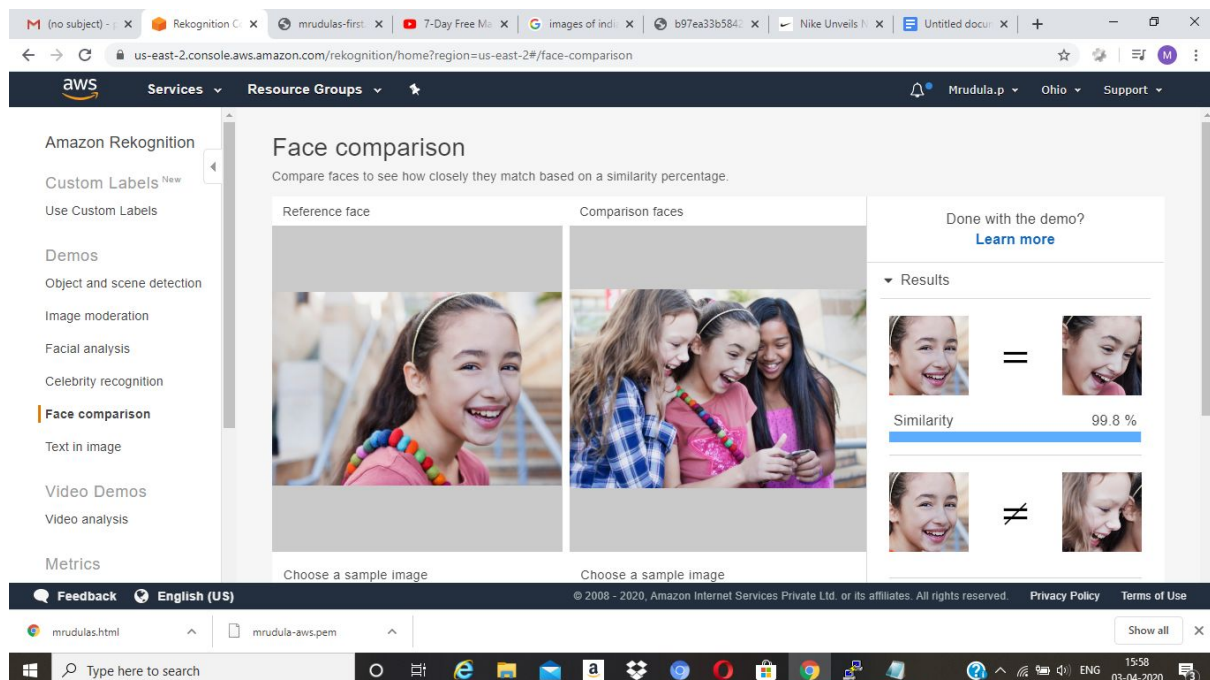


Screenshots needed for rekognition:

1.Face detect:



2.Face compare:



3.Celebrity recognition

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

AWS Services Resource Groups

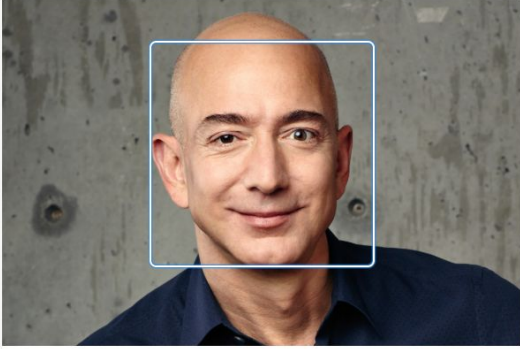
Mrudula.p Ohio Support

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
- Metrics

Celebrity recognition


Rekognition automatically recognizes celebrities in images and provides confidence scores.



Choose a sample image Use your own image

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

▼ Results



Jeff Bezos
[Learn More](#)

Match confidence 100 %

► Request

► Response

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mrudulas.html mrudula-aws.pem Show all

Type here to search

15:58 03-04-2020

4.Text in image:

The screenshot displays the AWS Rekognition console interface. On the left, a navigation menu lists various services, with 'Text in image' highlighted. The main content area is titled 'Text in image' and includes a description: 'Rekognition automatically detects and extracts text in your images. [Learn More](#)'. Below this, there's a demo image of a cup of coffee with a smiley face and the text 'IT'S MONDAY but keep Smiling'. The results panel on the right shows the detected text: 'IT'S', 'MONDAY', 'but', 'keep', and 'Smiling'. The console also shows a 'Request' and 'Response' section.

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

Metrics

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

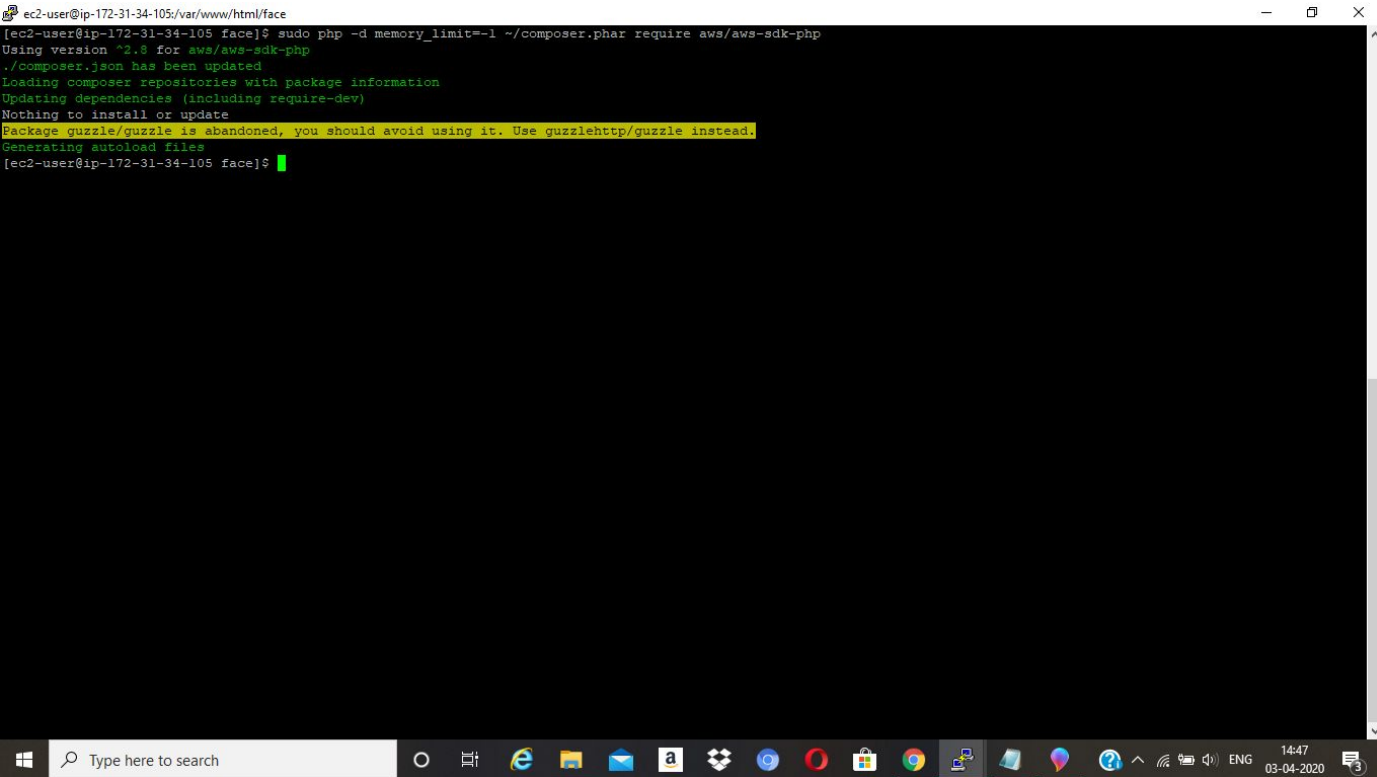
Choose a sample image Use your own image

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15:58 03-04-2020

Screenshots needed for EC2 and S3:

1.Installing aws-sdk:



A terminal window screenshot showing the installation of the AWS SDK for PHP using Composer. The terminal output is as follows:

```
ec2-user@ip-172-31-34-105: /var/www/html/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-172-31-34-105 face]$
```

The terminal window is titled "ec2-user@ip-172-31-34-105: /var/www/html/face". The command executed is `sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php`. The output shows that the package `aws/aws-sdk-php` is being installed, and the `./composer.json` file is updated. A warning message indicates that the `guzzle/guzzle` package is abandoned and suggests using `guzzlehttp/guzzle` instead. The terminal window is running on a Windows operating system, as evidenced by the taskbar at the bottom.

2.Installing php:

```
ec2-user@ip-172-31-34-105:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Last login: Fri Apr  3 07:06:51 2020 from 103.206.105.190  
  
  _ | _ | _ )  
  _ | ( _ | /  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-172-31-34-105 ~]$ sudo yum install php  
-bash: sudo: command not found  
[ec2-user@ip-172-31-34-105 ~]$ sudo yum install php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core | 2.4 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-172-31-34-105 ~]$ 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-172-31-34-105 ~]$
```



```
ec2-user@ip-172-31-34-105:~  
[ec2-user@ip-172-31-34-105 ~]$ sudo yum install php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version  
Nothing to do  
[ec2-user@ip-172-31-34-105 ~]$
```

Type here to search



3.Installing .php file code:

```
ec2-user@ip-172-31-34-105:/var/www/html/face
$ sudo /bin/mv s.jpg s.jpg
$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
$
error_reporting(0);
require_once(__DIR__ . '/vendor/autoload.php');
use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;

$bucket = 'mrudulas-first';
$keyname = 's';

$s3 = S3Client::factory([
    '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'
    ]);

    // Return 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;
}
Esc:wq
-- INSERT --
```

4.Upload success screenshot:

```
ec2-user@ip-172-31-34-105:/var/www/html/face
./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-172-31-34-105 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-04-03 09:41:58-- https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 184.87.223.209, 2a04:4e42:2f::84
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'

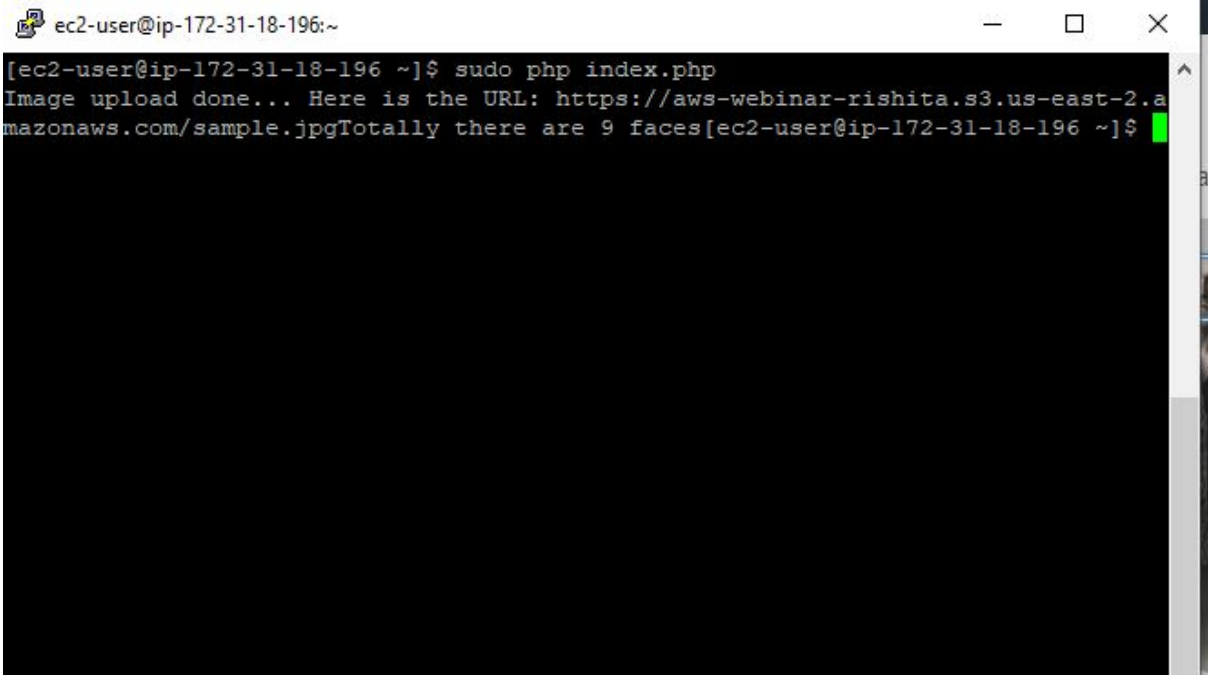
100%[=====] 215,551 --.-K/s in 0.03s

2020-04-03 09:41:58 (6.95 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [215551/215551]

[ec2-user@ip-172-31-34-105 face]$ ^C
[ec2-user@ip-172-31-34-105 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s.jpg
[ec2-user@ip-172-31-34-105 face]$ ls
composer.json composer.lock india-cricket-uniform s.jpg vendor
[ec2-user@ip-172-31-34-105 face]$ sudo vim index.php
[ec2-user@ip-172-31-34-105 face]$ sudo php index.php
You must specify a non-null value for the Body or SourceFile parameters.
[ec2-user@ip-172-31-34-105 face]$ php index.php
You must specify a non-null value for the Body or SourceFile parameters.
[ec2-user@ip-172-31-34-105 face]$ sudo vim index.php
[ec2-user@ip-172-31-34-105 face]$ sudo php index.php
You must specify a non-null value for the Body or SourceFile parameters.
[ec2-user@ip-172-31-34-105 face]$ sudo vim index.php
[ec2-user@ip-172-31-34-105 face]$ sudo php index.php
Error retrieving credentials from the instance profile metadata server. When you are not running inside of Amazon EC2, you must provide your AWS access key ID and secret access key in the "key" and "secret" options when creating a client or provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Client error response [status code] 404 [reason phrase] Not Found [url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-34-105 face]$ sudo php index.php
Image upload done... Here is the URL: https://mrudulas-first.s3.us-east-2.amazonaws.com/s.jpg[ec2-user@ip-172-31-34-105 face]$
```

Screenshots needed for EC2 & Rekognition:

1.Face detect success screenshot:

A terminal window screenshot showing a successful face detection process. The window title is 'ec2-user@ip-172-31-18-196:~'. The command executed is 'sudo php index.php'. The output message is 'Image upload done... Here is the URL: https://aws-webinar-rishita.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9 faces'. The prompt character is a green cursor.

```
ec2-user@ip-172-31-18-196:~  
[ec2-user@ip-172-31-18-196 ~]$ sudo php index.php  
Image upload done... Here is the URL: https://aws-webinar-rishita.s3.us-east-2.a  
mazonaws.com/sample.jpgTotally there are 9 faces[ec2-user@ip-172-31-18-196 ~]$
```