

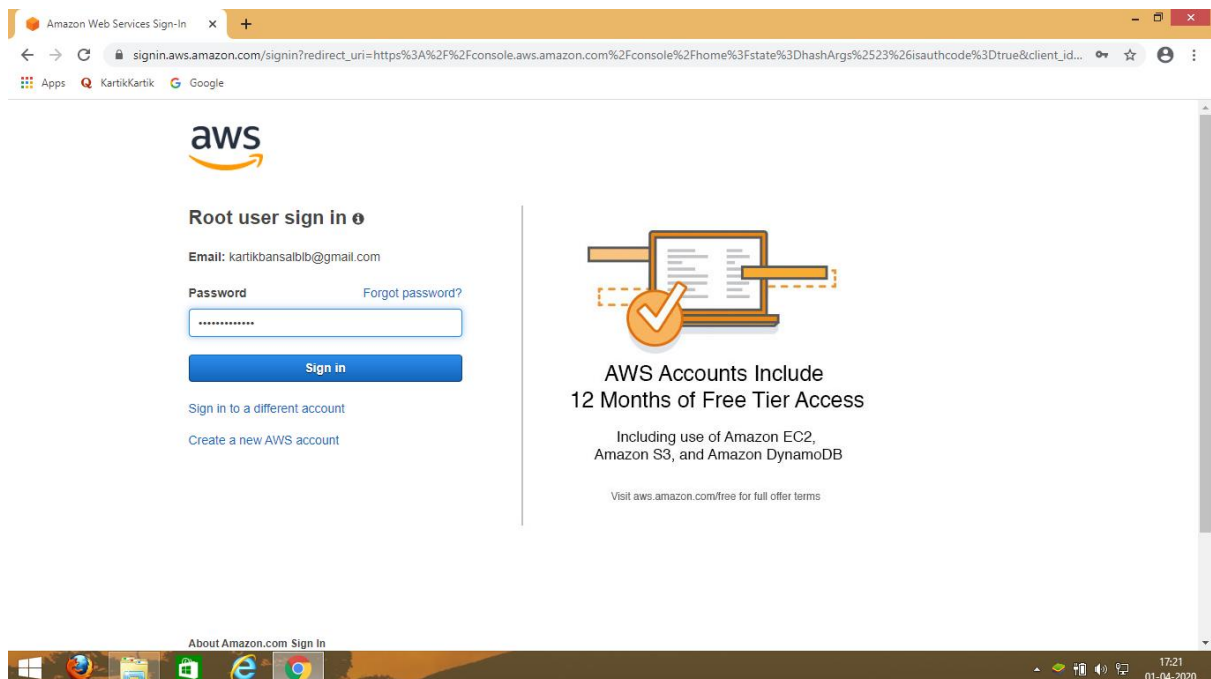
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kartikbansalblb@gmail.com

Face Detection using AWS

Screenshots:

Dashboards:

1. AWS Login screen with username



2. EC2 Dashboard

The screenshot shows the AWS EC2 Management Console. A blue banner at the top reads: "Welcome to the new EC2 console! We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle." The left sidebar contains navigation links: "New EC2 Experience", "EC2 Dashboard New", "Events New", "Tags", "Reports", "Limits", "INSTANCES", "Instances", "Instance Types", "Launch Templates New", "Spot Requests", "Savings Plans", "Reserved Instances", "Dedicated Hosts New", "Scheduled Instances", and "Capacity Reservations". The main content area is titled "Resources" and states: "You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:". Below this is a table of resources:

Resource	Count
Running instances	0
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	1
Load balancers	0
Key pairs	3
Security groups	5
Placement groups	0

On the right, the "Account attributes" section shows "Supported platforms" with a link to "VPC", "Default VPC" with ID "vpc-9adfebe0", "Console experiments", and "Settings". The "Additional information" section is also visible. The bottom of the console shows a footer with "Feedback", "English (US)", copyright information, and a date of "01-04-2020".

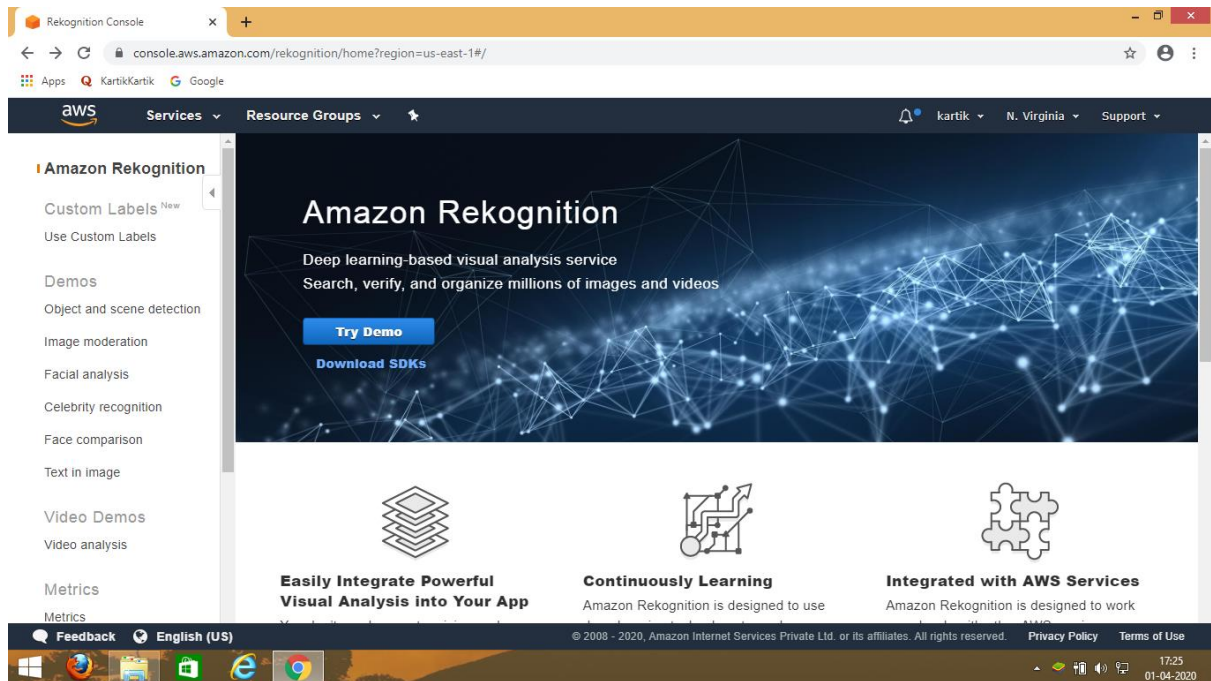
3. S3 Dashboard

The screenshot shows the AWS S3 Management Console. A blue banner at the top reads: "We're gradually updating the design of the Amazon S3 console. You will notice some updated screens as we improve the performance and user interface. To help us improve the experience, give feedback on the recent updates." The left sidebar contains navigation links: "Amazon S3", "Buckets", "Batch operations", "Access analyzer for S3", "Block public access (account settings)", and "Feature spotlight 2". The main content area is titled "Amazon S3" and shows "Buckets (3)". Above the table are buttons for "Copy ARN", "Empty", "Delete", and "Create bucket". Below the buttons is a search bar labeled "Find bucket by name". The table lists the following buckets:

Name	Region	Access	Bucket created
cross1234543434	Asia Pacific (Mumbai) ap-south-1	Objects can be public	2020-02-05T16:24:09.000Z
javaversion	US East (N. Virginia) us-east-1	Objects can be public	2020-02-04T16:59:03.000Z
kartikbansal	US East (N. Virginia) us-east-1	Objects can be public	2020-02-02T17:21:12.000Z

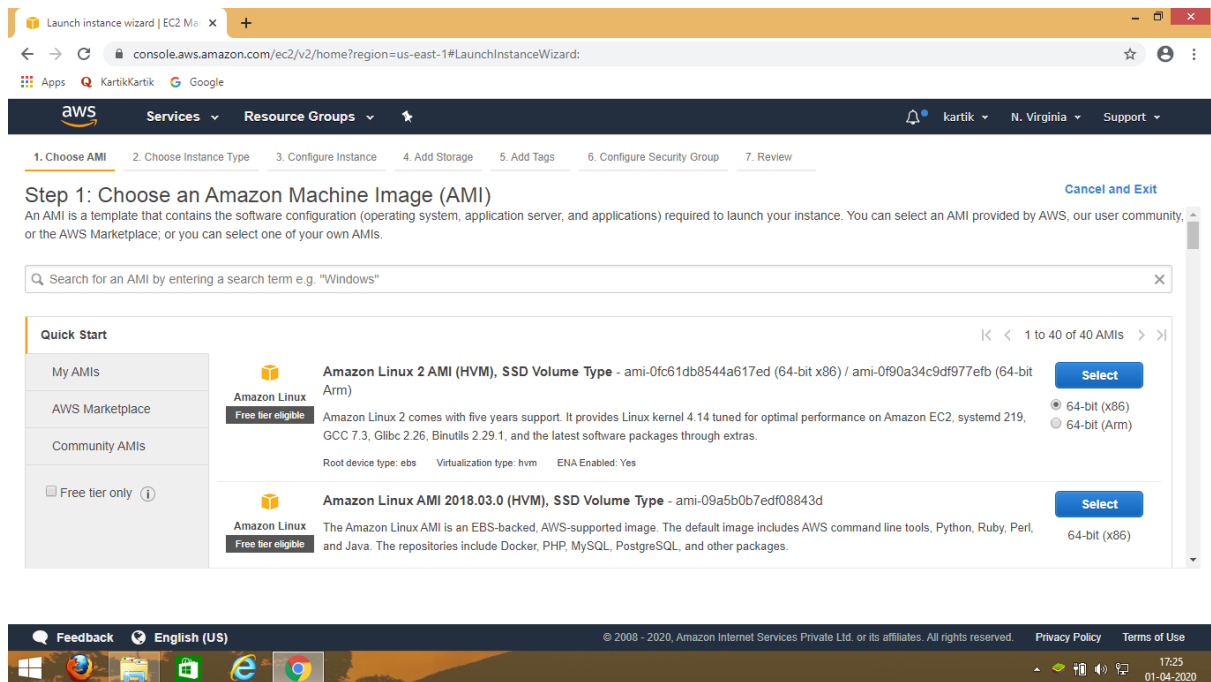
The bottom of the console shows a footer with "Feedback", "English (US)", copyright information, and a date of "01-04-2020".

4. Rekognition Dashboard



EC2

1. Choosing an AMI



2. Choosing an Instance Type

Launch instance wizard | EC2 Ma x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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 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

Cancel Previous Review and Launch Next: Configure Instance Details

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3. Adding Storage

Launch instance wizard | EC2 Ma x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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 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-0e27a39c6e2f9f079	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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4. Configuring Security Group

Launch instance wizard | EC2 Ma x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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
HTTP	TCP	80	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

Add Rule

Cancel Previous Review and Launch

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5. Key Pair Download

Launch instance wizard | EC2 Ma x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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

Security group name: launch-wizard-4

Description: launch-wizard-4

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

Instance Details

Storage

Tags

Edit instance details

Edit storage

Edit tags

Cancel Previous Launch

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

123

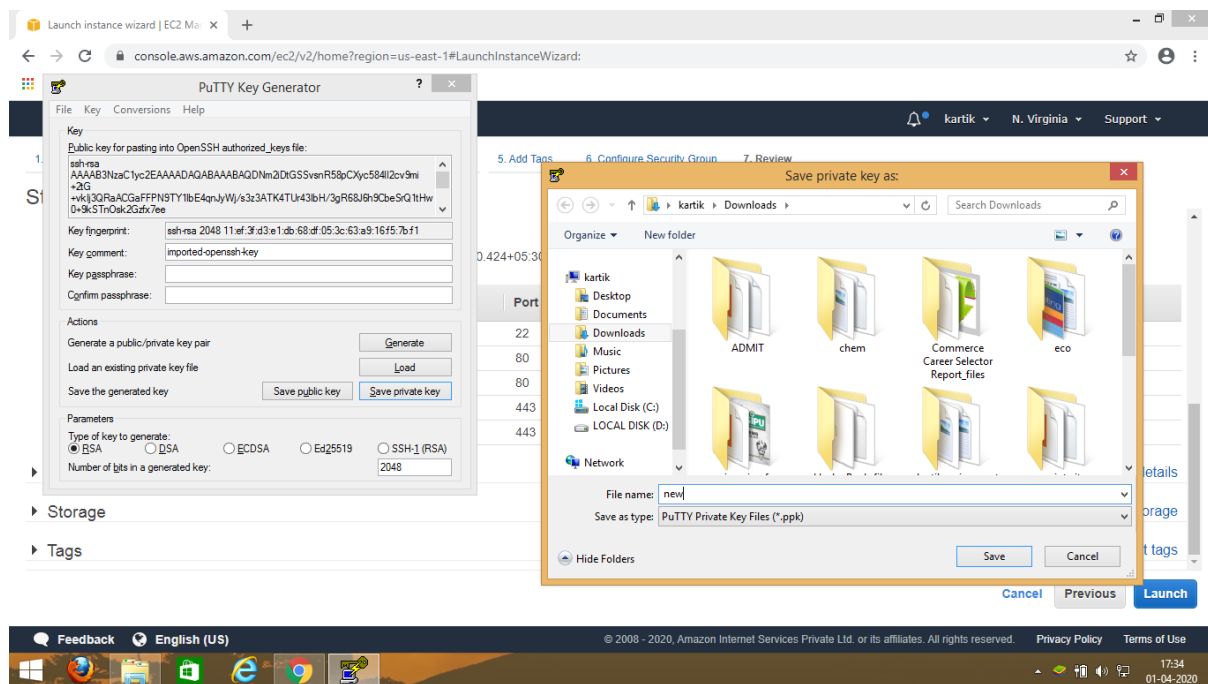
Download Key Pair

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.

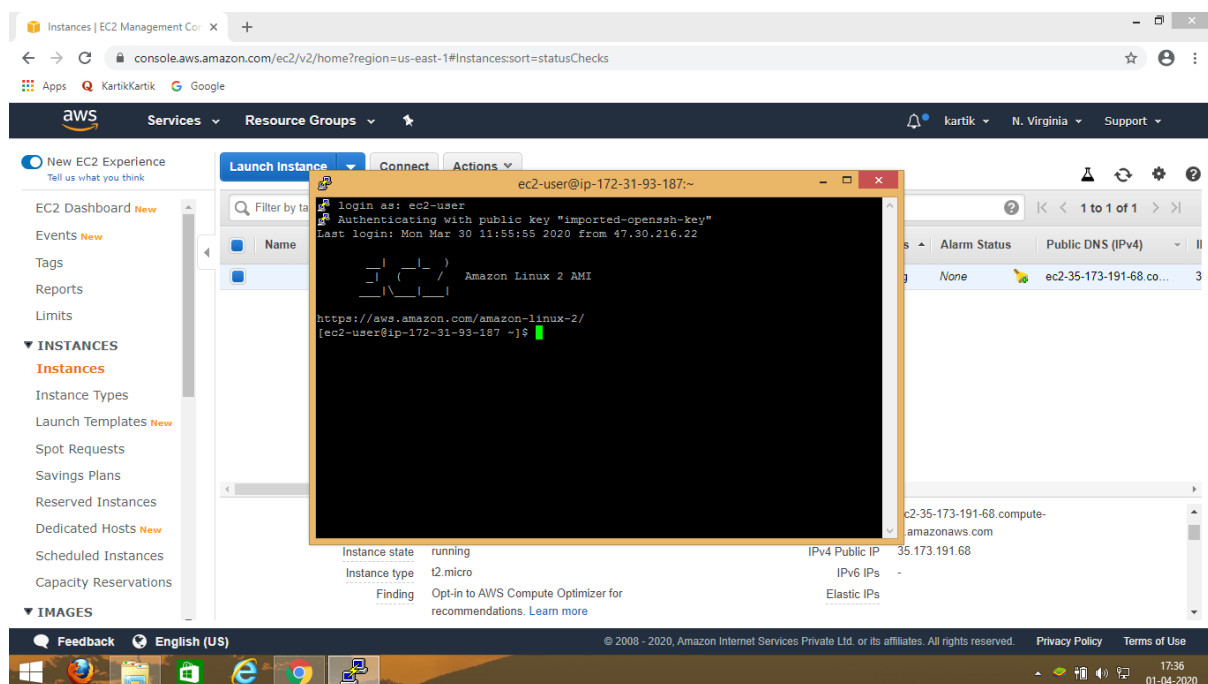
Cancel Launch Instances

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6. PuTTYgen conversion from pem to ppk

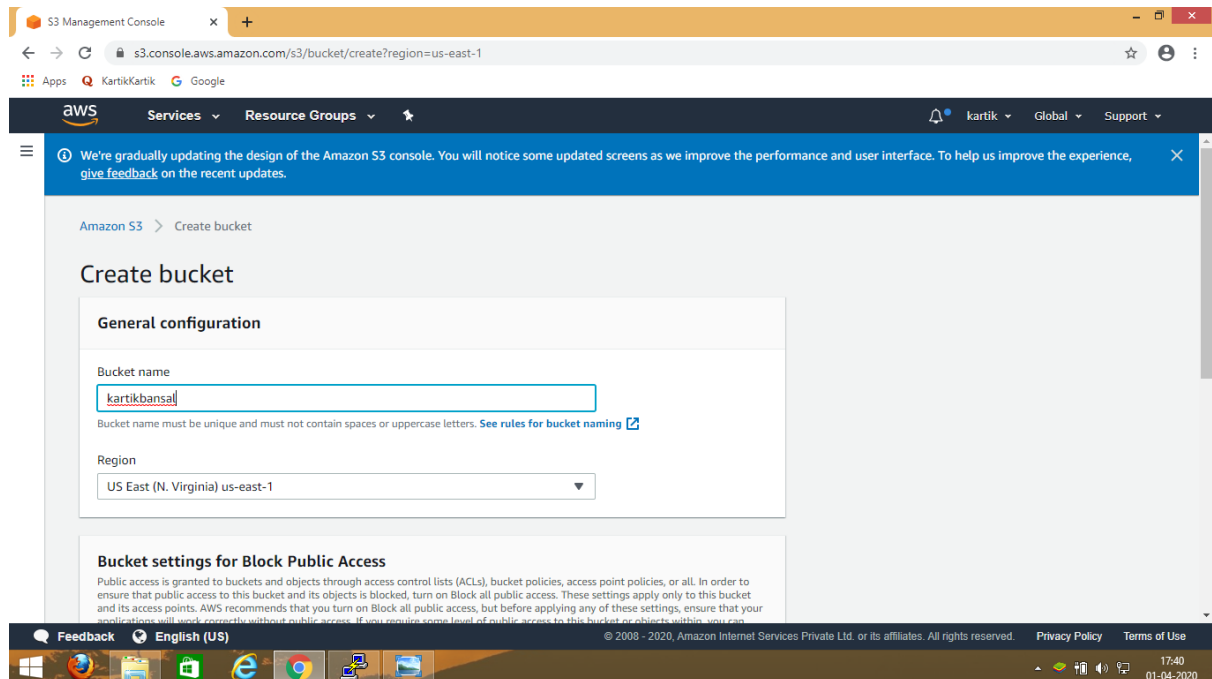


7. Logged in EC2 black screen

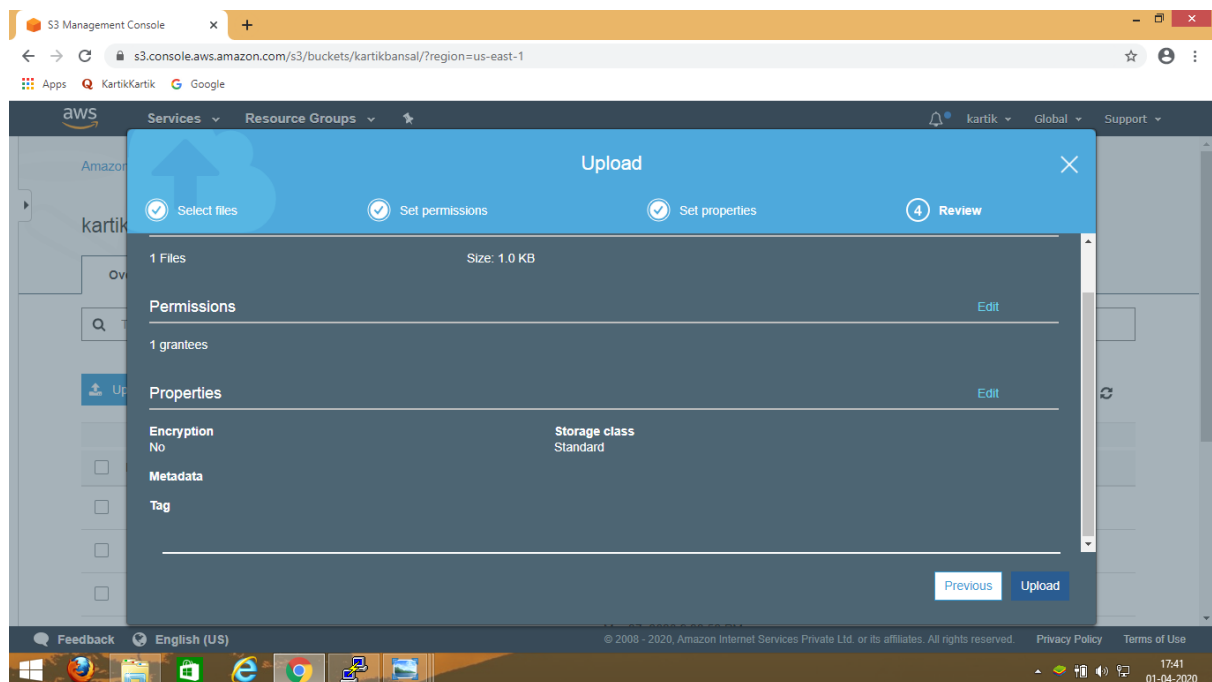


S3

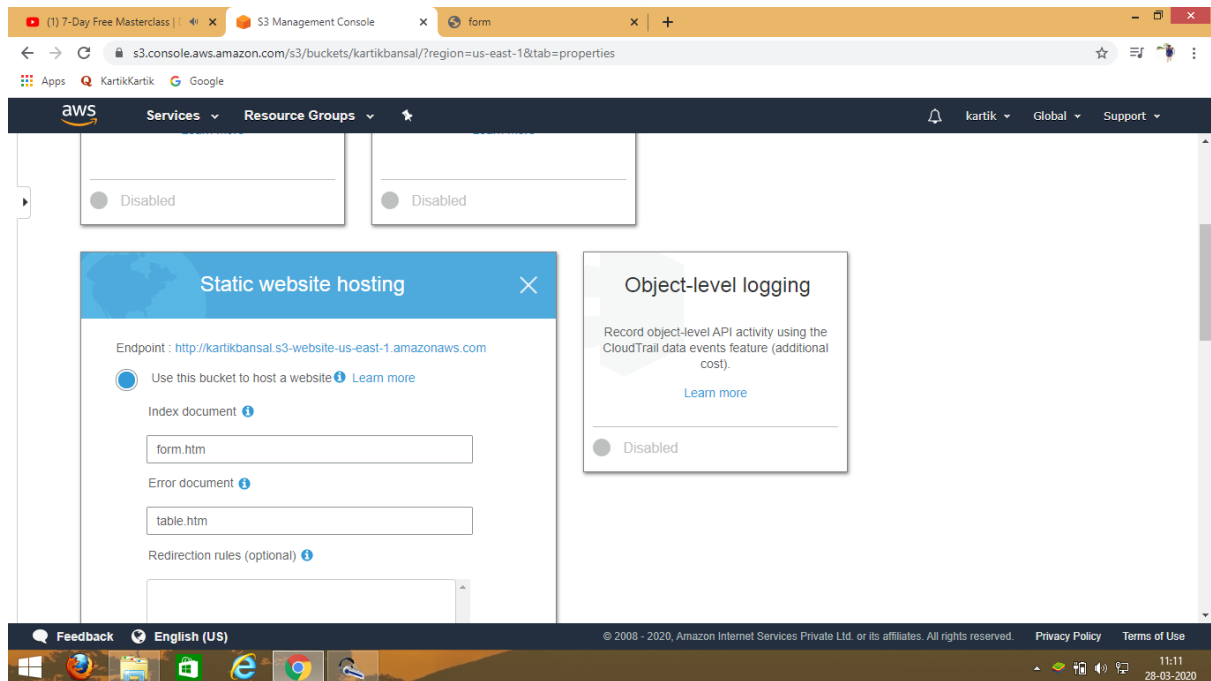
1. Creating a bucket



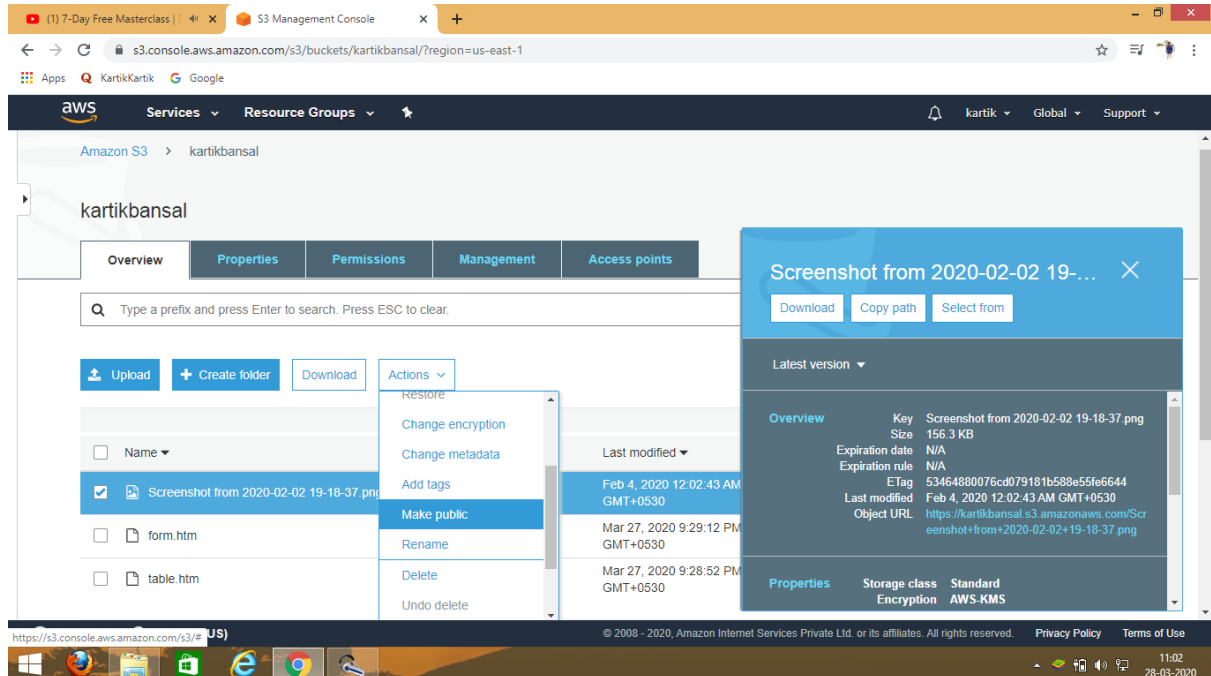
2. Uploading an Object



3. Enabling Static Website



4. Making the Object Public



5. Checking the S3 link on the browser

APPLICATION FORM

1. Name:

2. Gender:
☐ male ☐ female

3. Education Qualification:

4. Write in detail about your qualifications and experince if any:

5. Enter the filename of your Biodata to be attached:
 No file chosen

6. Hobbies:
☐ reading ☐ sports ☐ internet surfing

Rekognition

1. Face Detect

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

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

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.

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

Results

looks like a face	99.9 %
appears to be male	99.7 %
age range	25 - 39 years old
not smiling	97.7 %
appears to be calm	84.1 %

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2. Face Compare

The screenshot displays the Amazon Rekognition console's 'Face comparison' page. The left sidebar lists various services, with 'Face comparison' highlighted. The main content area shows a 'Reference face' (MS Dhoni) and 'Comparison faces' (a group of players). The 'Results' section shows a similarity score of 98.9% for the reference face compared to the comparison faces. The page includes a 'Done with the demo?' link and a 'Learn more' link. The bottom of the page shows the AWS logo, 'Services', 'Resource Groups', and user information (kartik, N. Virginia, 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 98.9 %

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3. Celebrity Recognition

The screenshot displays the Amazon Rekognition console's 'Celebrity recognition' page. The left sidebar lists various services, with 'Celebrity recognition' highlighted. The main content area shows a 'Reference face' (MS Dhoni) with a bounding box. The 'Results' section shows the name 'MS Dhoni' and a match confidence of 76%. The page includes a 'Done with the demo?' link and a 'Learn more' link. The bottom of the page shows the AWS logo, 'Services', 'Resource Groups', and user information (kartik, N. Virginia, 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

Celebrity recognition

Recognition automatically recognizes celebrities in images and provides confidence scores.

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

Results

MS Dhoni

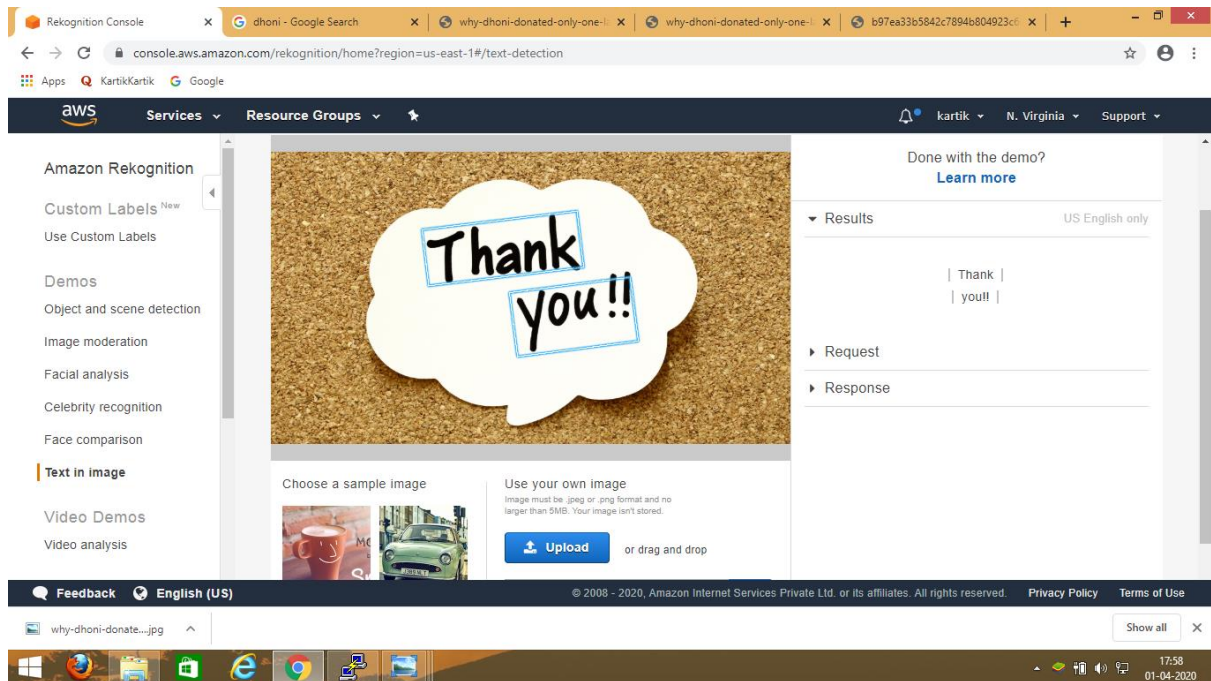
Match confidence 76 %

Request

Response

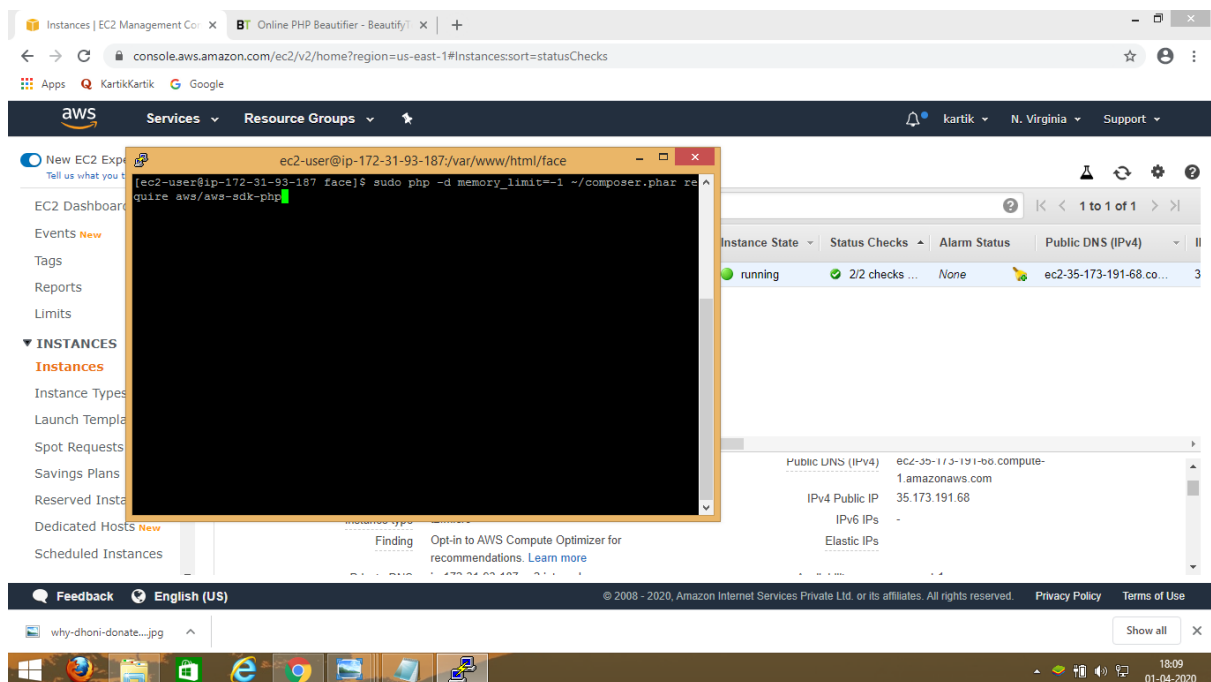
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3. Text in Image



EC2 & S3

1. Installing aws-sdk



2. Installing php

The screenshot shows the AWS Management Console with a terminal window open on an EC2 instance. The terminal output shows the installation of PHP 7.2 and its dependencies. The instance is running and has a public IP address of 35.173.191.68.

```
ec2-user@ip-172-31-93-187:/var/www/html/face$ sudo amazon-linux-extras install php7.2
Installing php-pdo, php-fpm, php-mysqlnd, php-cli, php-json
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-php7.2
17 metadata files removed
6 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package php-cli-7.2.28-1.amzn2.x86_64 already installed and latest version
Package php-fpm-7.2.28-1.amzn2.x86_64 already installed and latest version
Package php-json-7.2.28-1.amzn2.x86_64 already installed and latest version
Package php-mysqlnd-7.2.28-1.amzn2.x86_64 already installed and latest version
Package php-pdo-7.2.28-1.amzn2.x86_64 already installed and latest version
Nothing to do
```

Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
running	2/2 checks ...	None	ec2-35-173-191-68.co...

3. index.php file code

The screenshot shows the AWS Management Console with a terminal window open on an EC2 instance. The terminal output shows the code for index.php, which uses the AWS Rekognition API to detect faces in an image. The instance is running and has a public IP address of 35.173.191.68.

```
ec2-user@ip-172-31-93-187:/var/www/html/face$ cat index.php
#!/usr/bin/php
<?php
$region = 'us-east-1';
$version = 'latest';

$reognition = new RekognitionClient([
    'region' => $region,
    'version' => $version,
]);

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

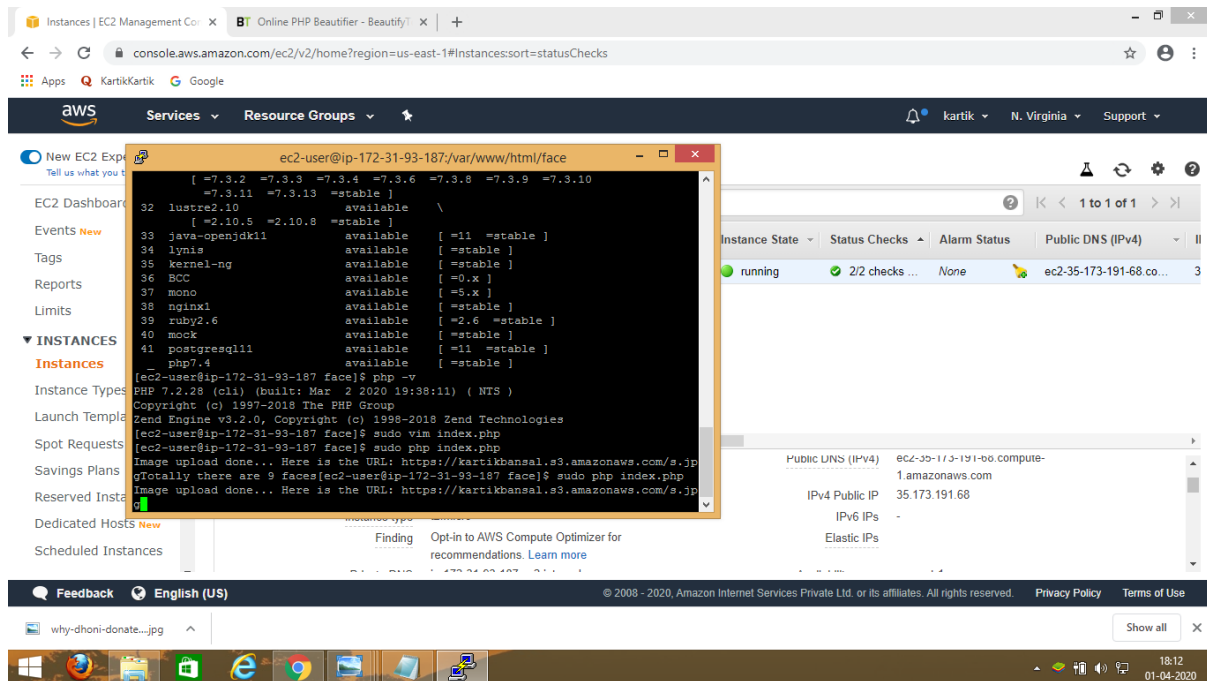
echo "Totally there are " . count($result["FaceDetails"]) . " faces";

} catch (Exception $e) {
    echo $e->getMessage() . PHP_EOL;
}

index.php 82L, 1856C
```

Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
running	2/2 checks ...	None	ec2-35-173-191-68.co...

4. Upload success screenshot



EC2 & Rekognition

1. Face Detect success screenshot

