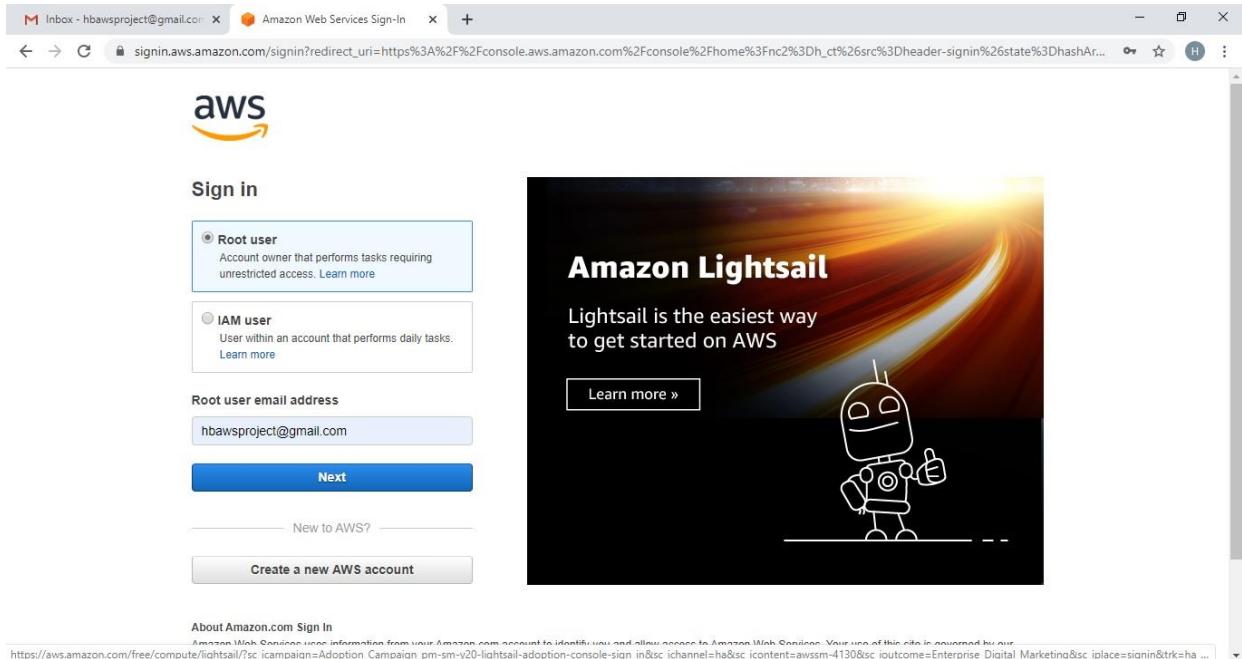


AWS Face detection Project

Screenshots for Dashboard:

1) Login window:



2) After login Dashboard:

The screenshot shows the AWS Management Console dashboard. At the top, there are navigation links for 'Services' and 'Resource Groups'. The main area features several sections: 'AWS services' (with a search bar and 'Recently visited services' for Billing and EC2), 'Access resources on the go' (with a link to the AWS Console Mobile App), 'Explore AWS' (sections for Amazon Redshift and Run Serverless Containers with AWS Fargate), and 'Build a solution' (with options for launching a virtual machine, building a web app, or building using virtual servers). The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.

3)EC2 Dashboard

The screenshot shows the AWS EC2 Management Console dashboard. The left sidebar includes links for New EC2 Experience, Events, Tags, Reports, Limits, Instances (with sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations), and Images (with sub-links for AMIs and Bundle Tasks). The main content area displays a 'Welcome to the new EC2 console!' message and a summary of resources in the US East (Ohio) Region. A callout box provides information about easily sizing, configuring, and deploying Microsoft SQL Server Always On availability groups. The right sidebar contains sections for Account attributes (Supported platforms: VPC, Default VPC: vpc-dc4693b7), Console experiments, and Settings. The bottom navigation bar includes Feedback, English (US), a search bar, and system status indicators.

4) S3 Dashboard

The screenshot shows the AWS S3 Management Console dashboard. The left sidebar features a 'Buckets' section with links for Batch operations, Access analyzer for S3, and Block public access (account settings). It also includes a Feature spotlight section. The main content area displays a message about the gradual update of the S3 console design. Below this is a 'Buckets (0)' section with a search bar and a table header for Name, Region, Access, and Bucket created. A message states 'No buckets' and 'You don't have any buckets.' with a 'Create bucket' button. The bottom navigation bar includes Feedback, English (US), a search bar, and system status indicators.

5) Rekognition Dashboard

The screenshot shows the Amazon Rekognition console interface. On the left, a sidebar lists various services: Custom Labels, Demos (Object and scene detection, Image moderation, Facial analysis, Celebrity recognition, Face comparison, Text in image), Video Demos, Metrics, and Feedback. The main area features a large banner with the text "Amazon Rekognition" and "Deep learning-based visual analysis service". It includes a "Try Demo" button and a "Download SDKs" link. Below the banner, there are three icons: a stack of three squares labeled "Easily Integrate Powerful Visual Analysis into Your App", a circuit board labeled "Continuously Learning", and a puzzle piece labeled "Integrated with AWS Services". The bottom of the screen shows the standard AWS navigation bar with links for Feedback, English (US), Privacy Policy, Terms of Use, and account information.

Screenshot for EC2:

1) Choosing an AMI:

The screenshot shows the "Launch instance wizard | EC2" interface. It is on Step 1: Choose an Amazon Machine Image (AMI). A search bar at the top allows users to search for AMIs by name. The results list two options: "Amazon Linux 2 AMI (HVM), SSD Volume Type" and "Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type". Both are marked as "Free tier eligible". The "Amazon Linux 2 AMI" is selected, indicated by a blue border around its row. To the right of the list are "Select" buttons and checkboxes for "64-bit (x86)" and "64-bit (Arm)". The bottom of the screen shows the standard AWS navigation bar.

The screenshot shows the bottom navigation bar of the browser window, identical to the one in the previous screenshot. It includes links for Feedback, English (US), Privacy Policy, Terms of Use, and account information.

2) Choosing an instance Type:

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.

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	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

Cancel Previous Review and Launch Next: Configure Instance Details

3) Adding Storage

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

The screenshot shows the AWS Launch Instance Wizard at Step 6: Configure Security Group. The user has selected "Create a new security group" and named it "launch-wizard-1". A single rule is defined: TCP port 22 from 0.0.0.0/0 (Custom). A warning message states: "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." Navigation buttons at the bottom include Cancel, Previous, and Review and Launch.

5) Key Pair Download:

The screenshot shows the AWS Launch Instance Wizard at Step 7: Review Instance Launch. The user has selected "aws-webinar-key" as the key pair. A note says: "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." Navigation buttons at the bottom include Cancel, Previous, and Launch.

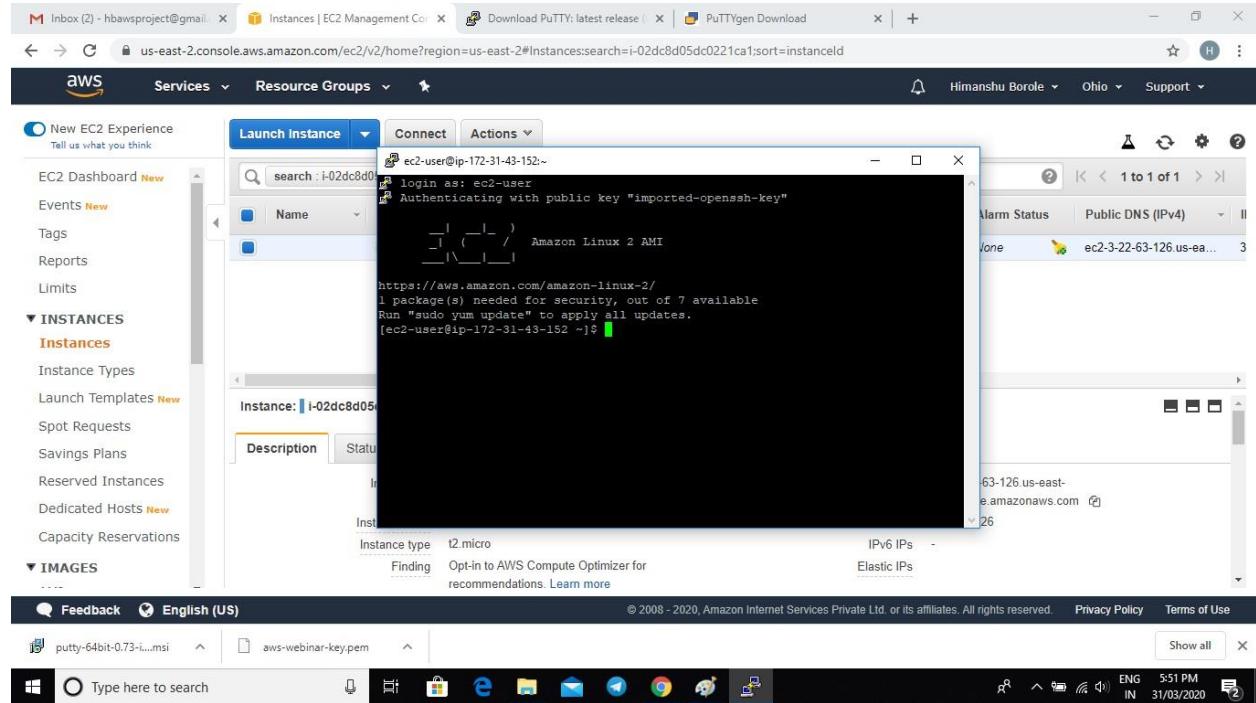
5.1) Instance created and running successful:

The screenshot shows the AWS EC2 Management Console interface. In the top navigation bar, there are tabs for 'Inbox (1)', 'Instances | EC2 Management Con...', and a search bar. The main menu includes 'Services' (selected), 'Resource Groups', and user information ('Himanshu Borole', 'Ohio', 'Support'). On the left sidebar, under 'INSTANCES', the 'Instances' section is selected, showing options like 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', and 'Capacity Reservations'. Under 'IMAGES', 'AMIs' is listed. The central pane displays a table of instances. One instance is highlighted: 'i-02dc8d05dc0221ca1' (t2.micro, us-east-2c, running, Public DNS: ec2-18-219-14-155.us-east-2.compute.amazonaws.com). Below the table, there's a detailed view for this specific instance. At the bottom, there's a feedback link, language selection ('English (US)'), and a taskbar with various icons.

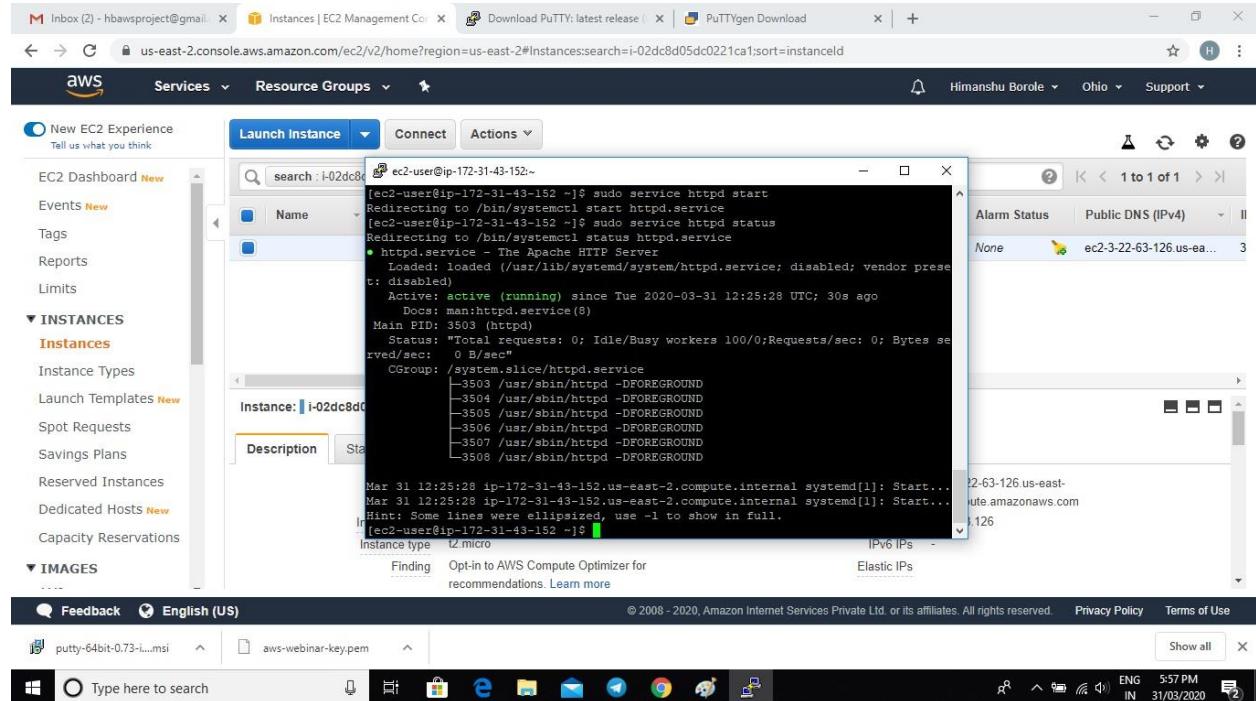
6) PuTTygen Conversion from pem to ppk:

The screenshot shows the AWS EC2 Management Console with the 'PuTTY Key Generator' dialog box open over the EC2 instances list. The dialog box has tabs for 'File', 'Key', 'Conversions', and 'Help'. Under the 'File' tab, it says 'Public key for pasting into OpenSSH authorized_keys file:' and shows a long RSA public key string. Under 'Actions', there are buttons for 'Generate', 'Load', 'Save public key', and 'Save private key'. Under 'Parameters', it shows 'Type of key to generate: RSA' (selected), 'ECDSA', 'Ed25519', and 'SSH-1 (RSA)'. The 'Number of bits in a generated key:' dropdown is set to '2048'. In the background, the EC2 instances table is visible, showing one instance running. A 'Save private key as:' dialog box is overlaid on the right, showing a save path to 'Downloads' with a file name 'aws-webinar-key' and type 'PuTTY Private Key Files (*.ppk)'. The bottom of the screen shows the Windows taskbar with various icons and the date/time '31/03/2020 5:11 PM'.

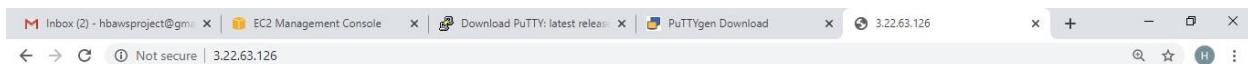
7) Logged in EC2 Black screen:



7.1) Successfully running httpd service:



7.2) output of file using httpd



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7.3) http service added success

A screenshot of the AWS Management Console. The user is on the "Security Groups" page under the "Services" menu. On the left, there's a sidebar with links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main content area shows a security group named "launch-wizard-1" with details like Security group ID (sg-0a7ed06ee4b615466), Description (created 2020-03-31T17:04:45.844+05:30), and VPC ID (vpc-dc4693b7). Below this, the "Inbound rules" tab is selected, displaying three rules: one for HTTP (TCP port 80, source 0.0.0.0/0), another for HTTP (TCP port 80, source ::/0), and one for SSH (TCP port 22, source 0.0.0.0/0). A "Tags" tab is also visible. At the bottom, there are links for Feedback, English (US), Privacy Policy, Terms of Use, and a search bar.

Screenshots for S3:

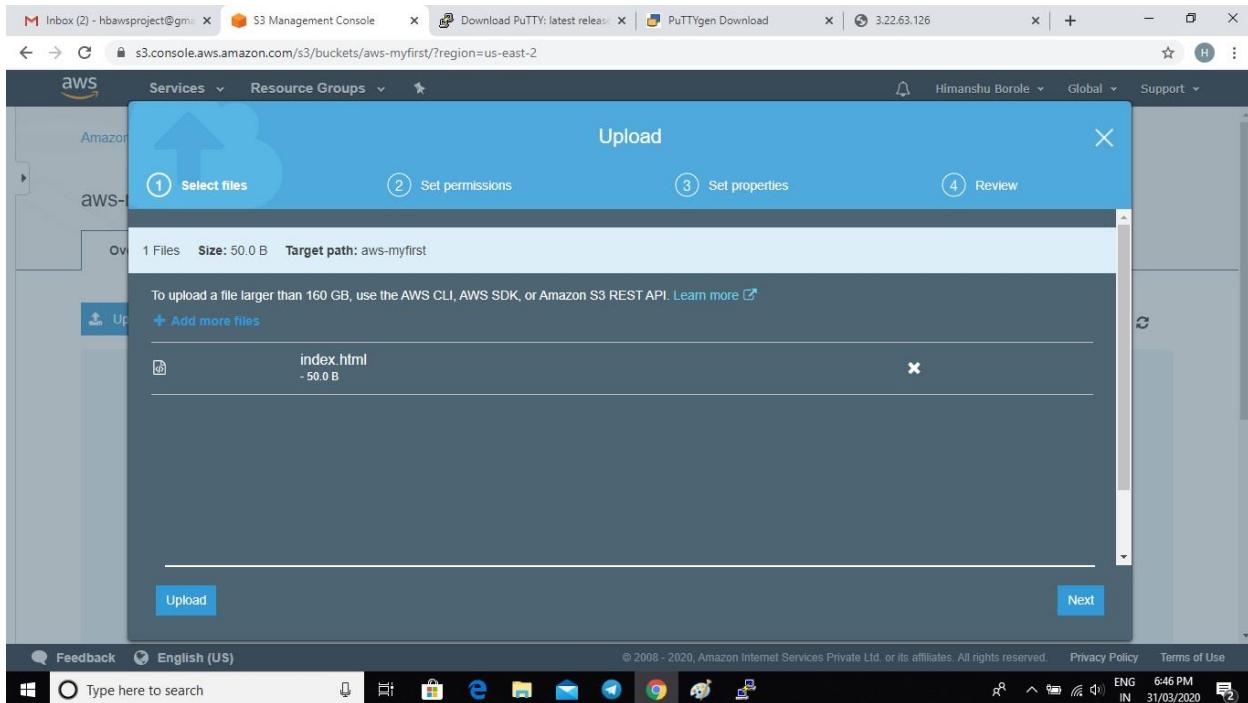
1) Creating bucket:

The screenshot shows the 'Create bucket' page in the AWS S3 Management Console. The 'General configuration' section is visible, containing fields for 'Bucket name' (set to 'aws-myfirst') and 'Region' (set to 'US East (Ohio) us-east-2'). Below this, the 'Bucket settings for Block Public Access' section is shown, which is currently disabled. The status bar at the bottom indicates the user is in India (IN), the time is 6:37 PM, and the date is 31/03/2020.

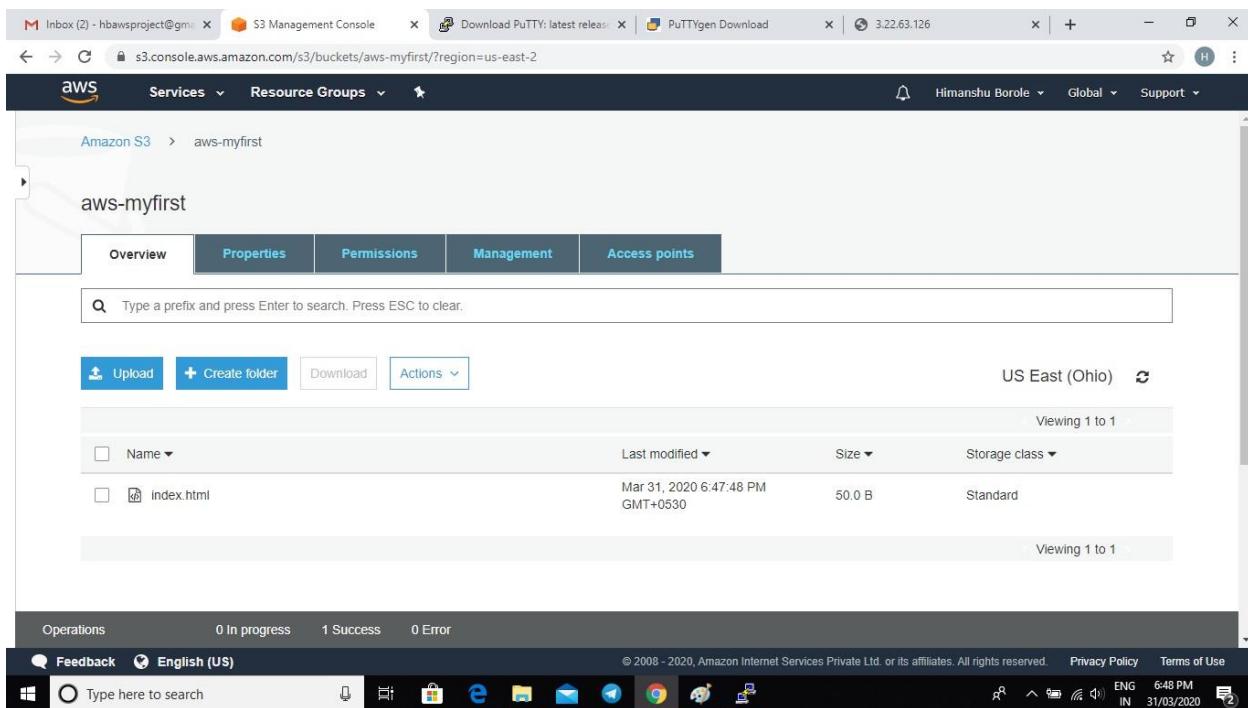
1.1) Bucket created successfully:

The screenshot shows the 'Amazon S3' dashboard after a bucket has been created. A green success message states 'Successfully created bucket aws-myfirst'. It includes a link to 'Go to bucket details'. The main table displays the single bucket 'aws-myfirst' with its details: Name (aws-myfirst), Region (US East (Ohio) us-east-2), Access (Not Public), and Bucket created (2020-03-31T13:06:18.000Z). The status bar at the bottom indicates the user is in India (IN), the time is 6:38 PM, and the date is 31/03/2020.

2) Uploading an Object:



2.1) Object uploaded Success:



3) Enabling Static website:

The screenshot shows the AWS S3 Management Console with the 'Static website hosting' configuration dialog open. The dialog is titled 'Static website hosting' and contains the following fields:

- Endpoint: `http://aws-myfirst.s3-website.us-east-2.amazonaws.com`
- Index document: `index.html`
- Error document: `error.html`
- Redirection rules (optional): An empty text area.
- Buttons at the bottom: 'Cancel' and 'Save'

The background shows the S3 bucket overview page with other settings like Versioning and Server access logging disabled.

3.1) Static website hosting success

The screenshot shows the AWS S3 Management Console with the bucket 'aws-myfirst' selected. The 'Overview' tab is active. The 'Static website hosting' section is highlighted, showing that 'Bucket hosting' is enabled. Other sections like Versioning, Server access logging, and Object-level logging are also visible.

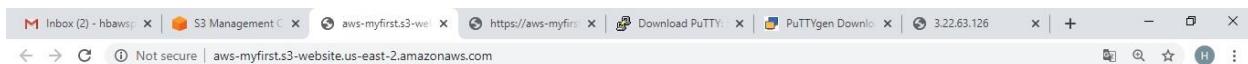
3.2) Given permissionns:

The screenshot shows the AWS S3 console for the 'aws-myfirst' bucket. The 'Permissions' tab is selected. Under the 'Block public access' section, it shows 'Block all public access' is set to 'Off'. A green success message box displays 'Public access settings updated successfully'. The bottom status bar shows 0 In progress, 1 Success, and 0 Error operations.

4) making the object public:

The screenshot shows the AWS S3 console for the 'index.html' object within the 'aws-myfirst' bucket. The 'Properties' tab is selected. It shows the object has been made public. Below the tabs, there is a 'Success' message box. The object details listed include: Owner (b12b6aacd9e2b4c02b5290895cb73c6f7746c6323e193aa9b548d4b1bc7a2e90), Last modified (Mar 31, 2020 6:47:48 PM GMT+0530), Etag (98d05f1a62b8b0d3b9c8764ae4828b9e), Storage class (Standard), Server-side encryption (None), and Size (50.0 B). The bottom status bar shows 0 In progress, 2 Success, and 0 Error operations.

5) Checking the S3 link on browser:



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Screenshot for Rekognition:

1) Facial analysis:

A screenshot of the Amazon Rekognition Facial Analysis console. The left sidebar shows navigation options: Custom Labels, Demos, Facial analysis (which is selected), Celebrity recognition, Face comparison, Text in Image, Video Demos, Metrics, and Metrics. The main content area is titled 'Facial analysis' and shows a photograph of three people smiling. Three white boxes with blue outlines are drawn around their faces. Below the image are buttons for 'Choose a sample image' and 'Use your own image'. To the right, a panel titled 'Results' displays the following analysis data:

Attribute	Score
looks like a face	99.9 %
appears to be male	99.4 %
age range	22 - 34 years old
smiling	99.9 %
appears to be happy	99.7 %
not wearing glasses	99.6 %

At the bottom of the page, there are links for 'Feedback', 'English (US)', 'Privacy Policy', and 'Terms of Use'. The bottom of the screen shows the Windows taskbar with pinned icons and system status.

2) Face compare:

The screenshot shows the AWS Rekognition Face Comparison interface. On the left sidebar, under the 'Face comparison' section, the 'Face comparison' option is selected. The main area displays two images: a 'Reference face' (a young girl smiling) and 'Comparison faces' (two other girls smiling). Below these are two 'Choose a sample image' buttons. To the right, a results panel shows a comparison between the reference face and another person, with a similarity score of 99.9%. There are also sections for 'Request' and 'Response'.

3) celebrity Recognition:

The screenshot shows the AWS Rekognition Celebrity Recognition interface. On the left sidebar, under the 'Celebrity recognition' section, the 'Celebrity recognition' option is selected. The main area displays a portrait of a man with a bounding box around his face. Below it are buttons for 'Choose a sample image' and 'Use your own image'. To the right, a results panel shows a match with 'Andy Jassy' at 100% confidence. There are also sections for 'Request' and 'Response'.

4) text in image:

The screenshot shows the AWS Rekognition console interface. On the left, a sidebar lists various services like Amazon Rekognition, Custom Labels, Demos, and Metrics. The 'Text in image' option is selected. The main area displays a green car parked on a street with the license plate 'J389 NLT'. Below the image are two input fields: 'Choose a sample image' and 'Use your own image'. To the right, a results panel shows the detected text 'J389 NLT' with a confidence score of 'C' and 'J389 NLT'. There are also 'Request' and 'Response' sections. At the bottom, there's a feedback link, language settings ('English (US)'), and system status information.

Screenshot for EC2 & S3:

1) installing php (success):

```
ec2-user@ip-172-31-43-152:~$ 
Installing:
php           x86_64      5.4.16-46.amzn2.0.2      amzn2-core      1.4 M
Installing for dependencies:
libzip010-compat x86_64      0.10.1-9.amzn2.0.5      amzn2-core      30 k
php-cli        x86_64      5.4.16-46.amzn2.0.2      amzn2-core      2.8 M
php-common     x86_64      5.4.16-46.amzn2.0.2      amzn2-core      563 k

Transaction Summary
=====
Install  1 Package (+3 Dependent packages)

Total download size: 4.7 M
Installed size: 17 M
Is this ok [y/d/N]: y
Downloading packages:
(1/4): libzip010-compat-0.10.1-9.amzn2.0.5.x86_64.rpm | 30 kB  00:00
(2/4): php-5.4.16-46.amzn2.0.2.x86_64.rpm          | 1.4 MB  00:00
(3/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm       | 563 kB  00:00
(4/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm         | 2.8 MB  00:00

Total                                         19 MB/s | 4.7 MB  00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64          1/4
  Installing : php-common-5.4.16-46.amzn2.0.2.x86_64            2/4
  Installing : php-cli-5.4.16-46.amzn2.0.2.x86_64             3/4
  Installing : php-5.4.16-46.amzn2.0.2.x86_64                4/4
  Verifying   : php-5.4.16-46.amzn2.0.2.x86_64                1/4
  Verifying   : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64       2/4
  Verifying   : php-cli-5.4.16-46.amzn2.0.2.x86_64             3/4
  Verifying   : php-common-5.4.16-46.amzn2.0.2.x86_64            4/4

Installed:
  php.x86_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:
  libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5
  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-172-31-43-152 ~]$
```

2) installing aws-sdk (success)

```
ec2-user@ip-172-31-43-152:/var/www/html/face
Warning: proc_open(): fork failed - Cannot allocate memory in phar:///home/ec2-user/composer.phar/vendor/symfony/console/Application.php on line 952
[ErrorException]
proc_open(): fork failed - Cannot allocate memory

require [--dev] [--prefer-source] [--prefer-dist] [--fixed] [--no-progress] [--no-suggest] [--no-update] [--no-scripts] [--update-no-dev] [--update-with-dependencies] [--update-with-all-dependencies] [--ignore-platform-reqs] [--prefer-stable] [--prefer-lowest] [--sort-packages] [-o|--optimize-autoloader] [-a|--classmap-authoritative] [-e|--apcu-autoloader] [-e] [<packages>...]
[ec2-user@ip-172-31-43-152 face]$ ^C
[ec2-user@ip-172-31-43-152 face]$ ls
vendor
[ec2-user@ip-172-31-43-152 face]$ sudo /bin/dd if=/dev/zero of=/var/swapl bs=1M count=1024
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GB) copied, 13.4155 s, 80.0 MB/s
[ec2-user@ip-172-31-43-152 face]$ sudo /sbin/mkswap /var/swapl
mkswap: /var/swapl: insecure permissions 0644, 0600 suggested.
Setting up swapspace version 1, size = 1024 MiB (1073737728 bytes)
no label, UUID=d3b89d-2abb-49a7-8b8c-d07985ed1f42
[ec2-user@ip-172-31-43-152 face]$ sudo /sbin/swapon /var/swapl
swapon: /var/swapl: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-43-152 face]$ sudo -D memory_limit=-1 composer.phar require aws/aws-sdk-php
Using version "2.0" 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): 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 caching, request and response caching, and credentials caching)
aws/aws-sdk-php suggests installing monolog/monolog (Adds support for logging HTTP requests and responses)
aws/aws-sdk-php suggests installing symfony/yaml (Eases the ability to write manifests for creating jobs in AWS Import/Export)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Writing lock file
Generating autoload files
[ec2-user@ip-172-31-43-152 face]$
```

3) index.php file code

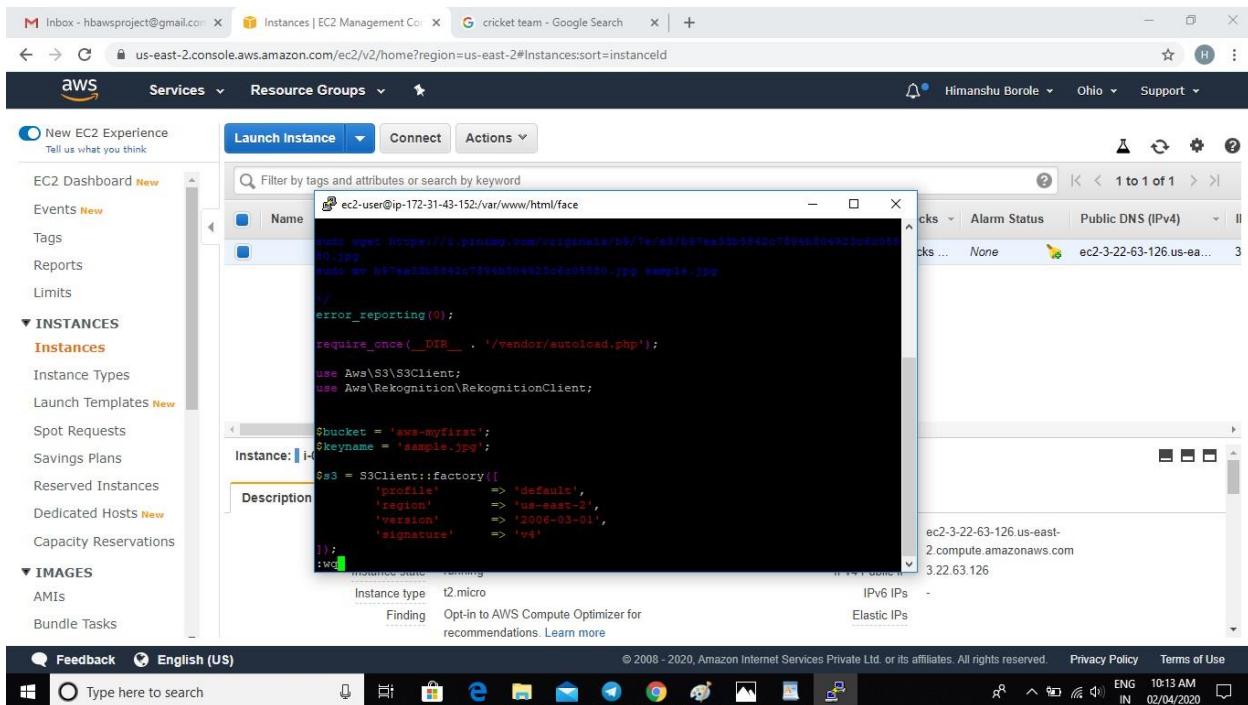
```
File Home View
Font Paragraph Insert Editing
Clipboard Font Paragraph Insert Editing
use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;

$bucket = 'aws-myfirst';
$keyname = 'sample.jpg';

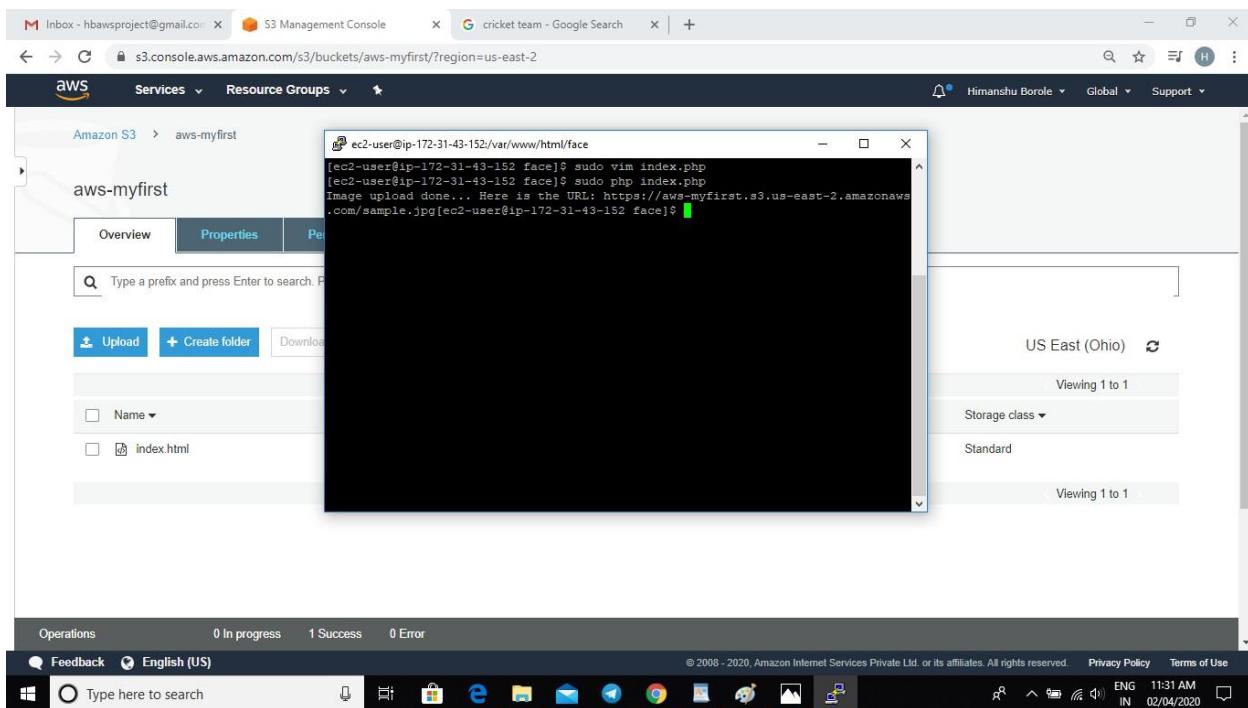
$s3 = S3Client::factory([
    'profile' => 'default',
    'region'  => 'us-east-2',
    'version'  => '2006-03-01',
    'signature' => 'v4'
]);

try {
    // Upload data.
```

3.1) index.php file code in putty



4) image uploaded success



4.1) Image Uploaded success proof:

The screenshot shows the AWS S3 Management Console interface. At the top, there are three tabs: 'Inbox - hbawsproject@gmail.com', 'S3 Management Console', and 'cricket team - Google Search'. Below the tabs, the AWS logo and navigation links for 'Services' and 'Resource Groups' are visible. The main area shows the 'aws-myfirst' bucket under 'Amazon S3'. The 'Properties' tab is selected. A search bar at the top of the list table contains the placeholder 'Type a prefix and press Enter to search. Press ESC to clear.' Below the search bar are four buttons: 'Upload', '+ Create folder', 'Download', and 'Actions'. To the right of these buttons, it says 'US East (Ohio)' with a refresh icon. The list table has columns for 'Name', 'Last modified', 'Size', and 'Storage class'. It displays two objects: 'index.html' (modified Mar 31, 2020, size 50.0 B, Standard storage) and 'sample.jpg' (modified Apr 2, 2020, size 210.5 KB, Standard storage). At the bottom of the table, it says 'Viewing 1 to 2'. Below the table, there's an 'Operations' section with status: '0 In progress', '1 Success', '0 Error'. The Windows taskbar at the bottom shows various pinned icons and the date/time: '02/04/2020 11:32 AM'.

Screenshot for EC2 & rekognition

1) Face detect success:

This screenshot is similar to the one above, showing the AWS S3 Management Console for the 'aws-myfirst' bucket. However, a terminal window is overlaid on the list of files. The terminal window title is 'ec2-user@ip-172-31-43-152:~\$'. The log output shows the following commands and their results:

```
[ec2-user@ip-172-31-43-152 face]$ sudo vim index.php
[ec2-user@ip-172-31-43-152 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-myfirst.s3.us-east-2.amazonaws.com/sample.jpg[ec2-user@ip-172-31-43-152 face]$ sudo vim index.php
[ec2-user@ip-172-31-43-152 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-myfirst.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9 faces[ec2-user@ip-172-31-43-152 face]$
```

The rest of the interface is identical to the first screenshot, including the file list, storage details, and system tray.