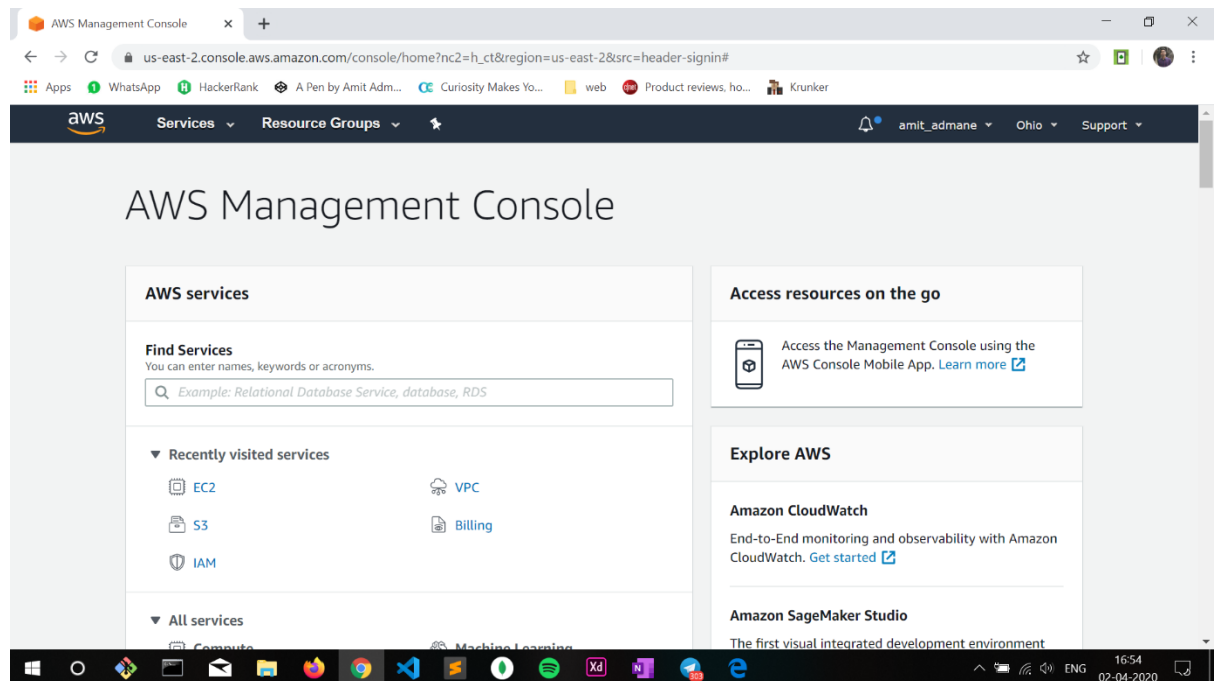


Name: Amit Admane

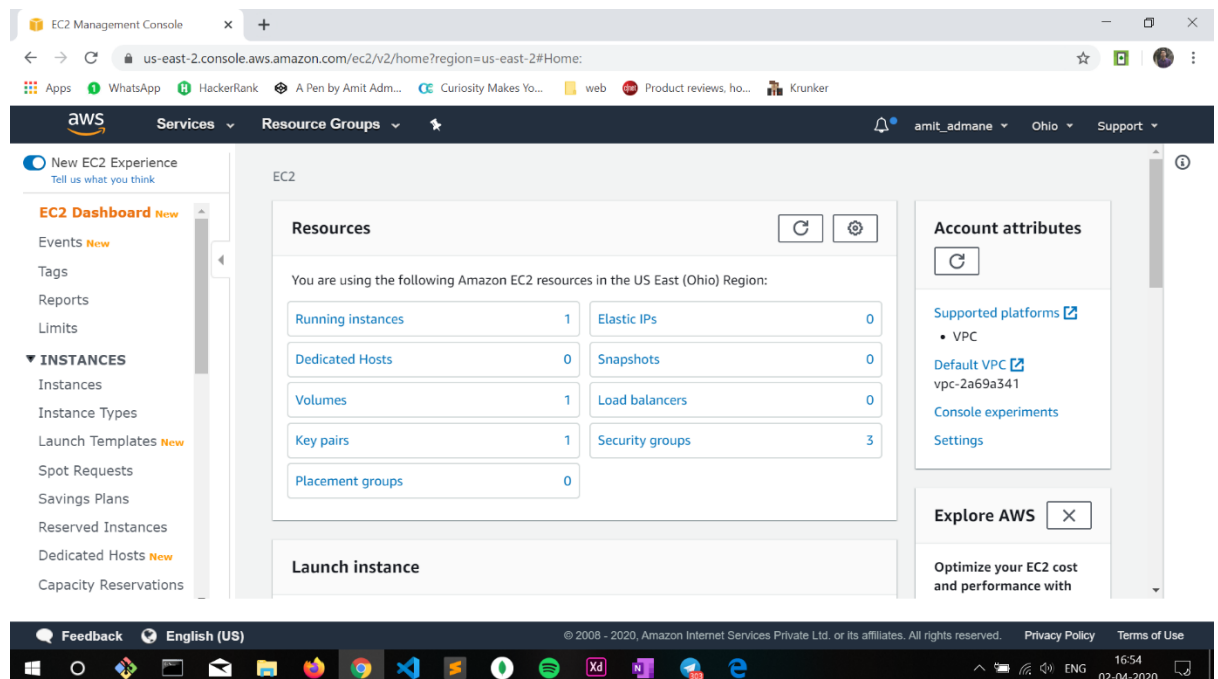
College: Bajaj Institute of Technology, Wardha.

Email: amitadmane1000@gmail.com

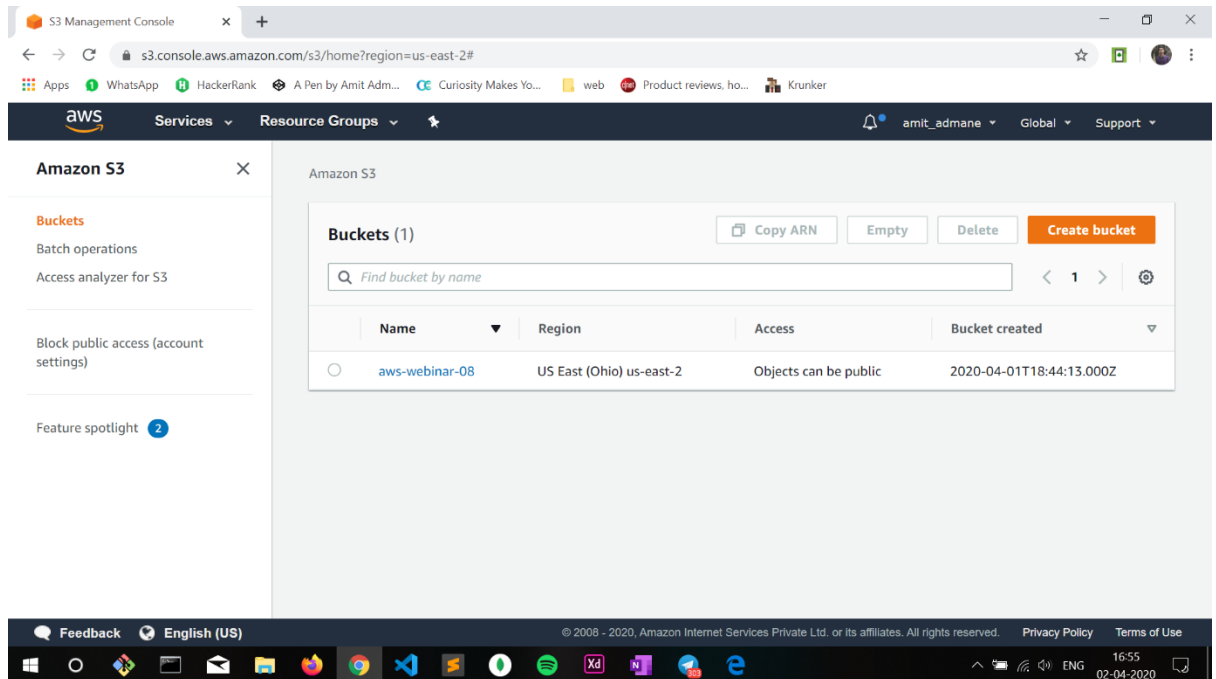
1.AWS Login screen with username:



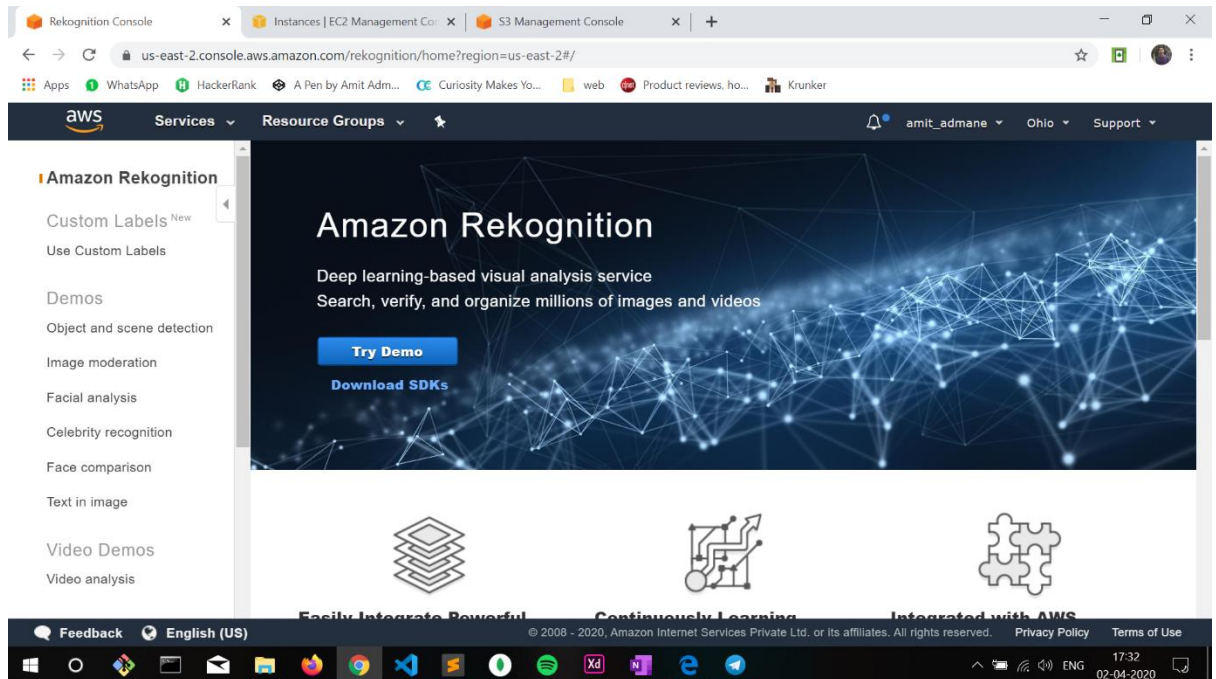
2. EC2 Dashboard:



3. S3 Dashboard:



4. Rekognition Dashboard:



5. Choosing an AMI:

Launch instance wizard | EC2 M... x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#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 1: Choose an Amazon Machine Image (AMI) [Cancel and Exit](#)

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) [Select](#)

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

Amazon Linux 2018.03.0 (HVM), SSD Volume Type - ami-01b01bbd08f24c7a8 [Select](#)

The Amazon Linux AMI is an FRS-backed, AWS-supported image. The default image includes AWS command line tools.

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6. Choosing an Instance Type:

Launch instance wizard | EC2 M... x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#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 [Cancel and Exit](#)

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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7. Adding Storage:

The screenshot shows the 'Add Storage' step (Step 4) of the AWS Launch Instance Wizard. The breadcrumb trail at the top indicates the sequence: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (current step), 5. Add Tags, 6. Configure Security Group, 7. Review. The main heading is 'Step 4: Add Storage'. Below it, a paragraph explains that the instance will be launched with specific storage settings and that additional EBS volumes can be attached after launch. A table lists the storage configuration for the 'Root' volume:

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

Below the table is an 'Add New Volume' button. A blue box contains a note: '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.' At the bottom right, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Tags'.

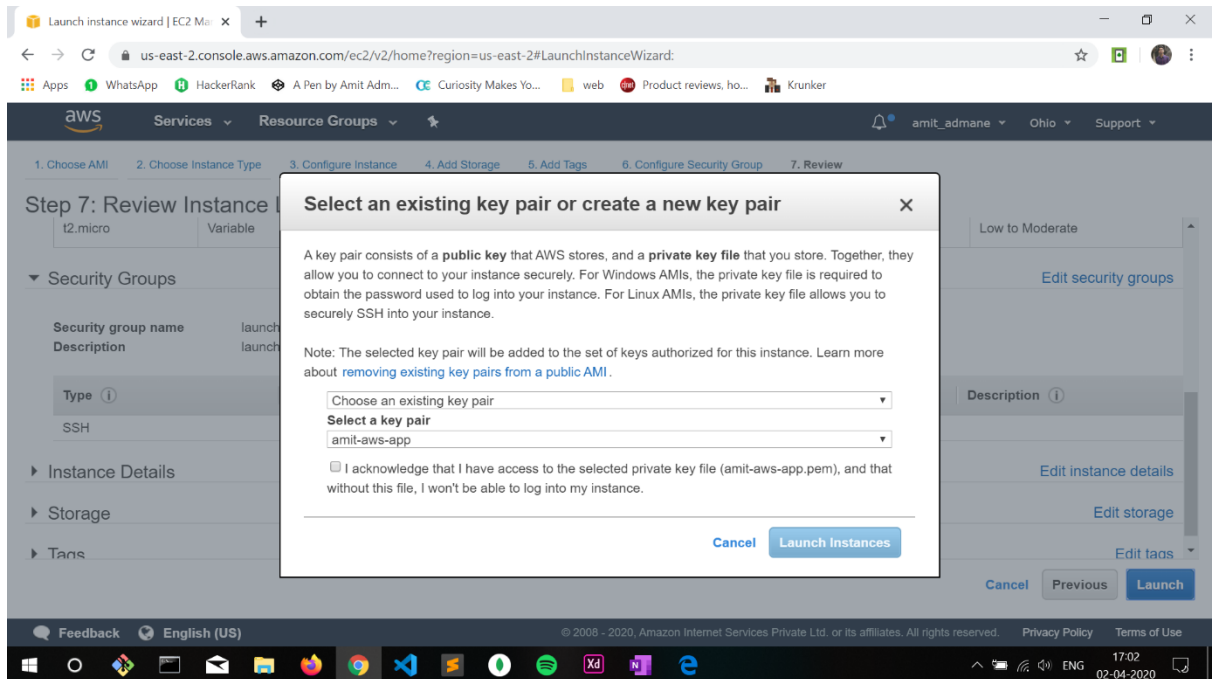
8. Configuring Security Group:

The screenshot shows the 'Configure Security Group' step (Step 6) of the AWS Launch Instance Wizard. The breadcrumb trail at the top indicates the sequence: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group (current step), 7. Review. The main heading is 'Step 6: Configure Security Group'. Below it, a paragraph explains that a security group is a set of firewall rules that control traffic. Under the heading 'Assign a security group:', there are two radio buttons: 'Create a new security group' (selected) and 'Select an existing security group'. Below these, there are input fields for 'Security group name' (filled with 'launch-wizard-3') and 'Description' (filled with 'launch-wizard-3 created 2020-04-02T17:02:01.466+05:30'). A table lists the configured rules:

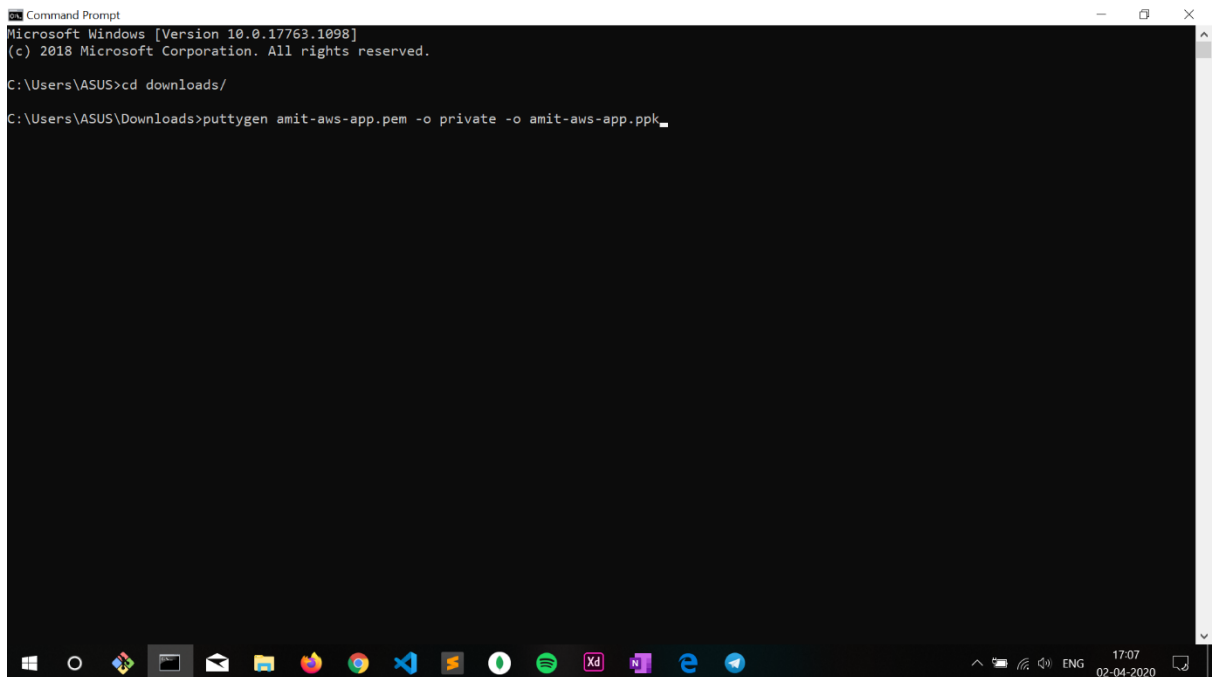
Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Below the table is an 'Add Rule' button. A yellow warning box contains the text: 'Warning'. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Tags'.

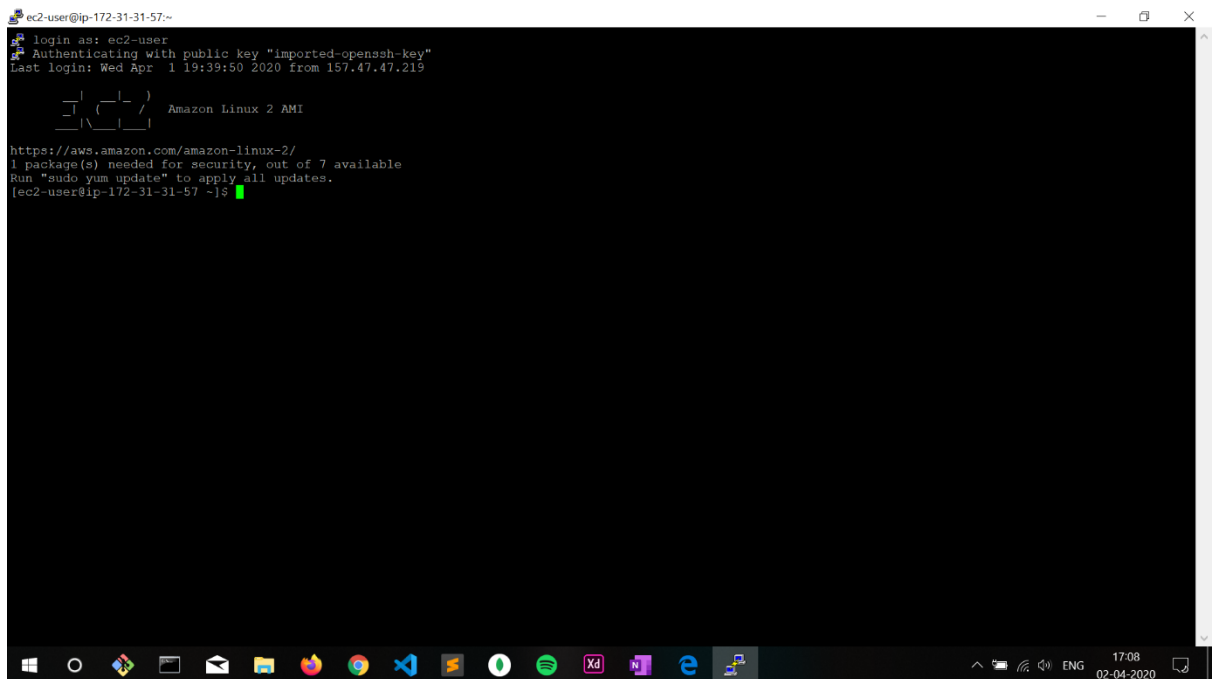
9. Key Pair Download:



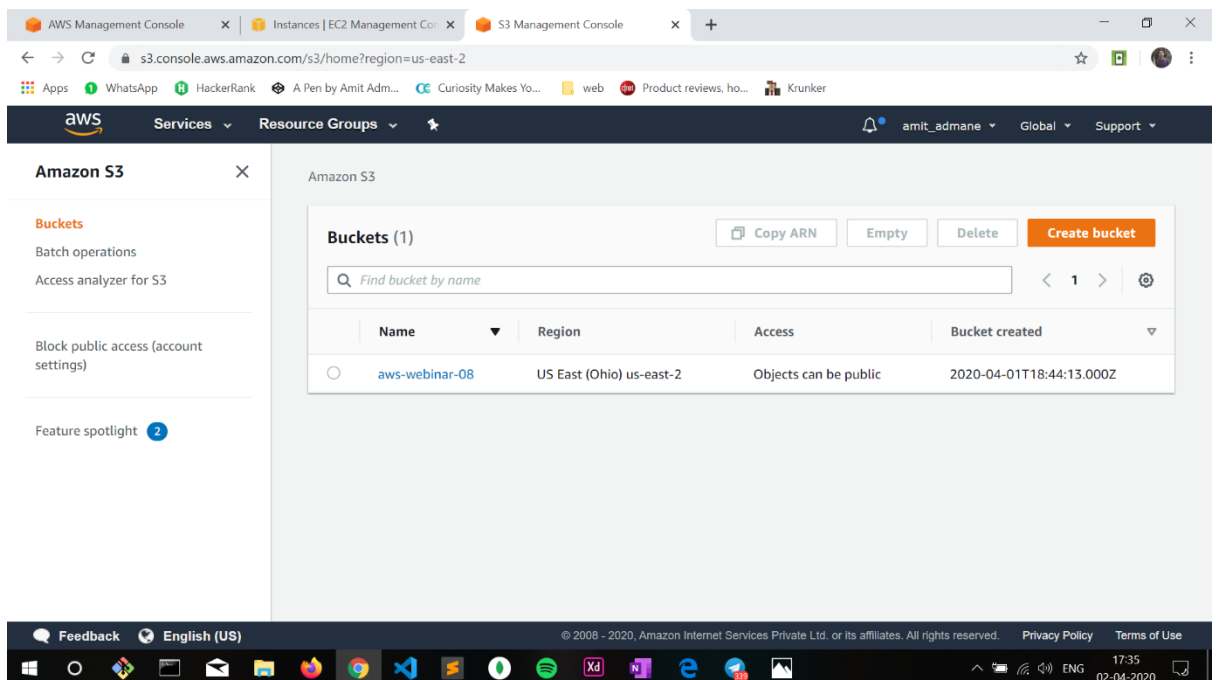
10. PuTTYgen conversion from pem to ppk :



11. Logged in EC2 black screen:



12. Creating a bucket:



13. Uploading an Object:

aws-webinar-08

Overview Properties Permissions Management Access points

Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

US East (Ohio)

Viewing 1 to 2

Name	Last modified	Size	Storage class
0b93397fa45180ee219aa69d3957daba.png	Apr 2, 2020 5:31:37 PM GMT+0530	32.7 KB	Standard
index.html	Apr 2, 2020 12:16:05 AM GMT+0530	83.0 B	Standard

Operations 0 In progress 1 Success 0 Error

14. Enabling Static Website:

aws-webinar-08

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

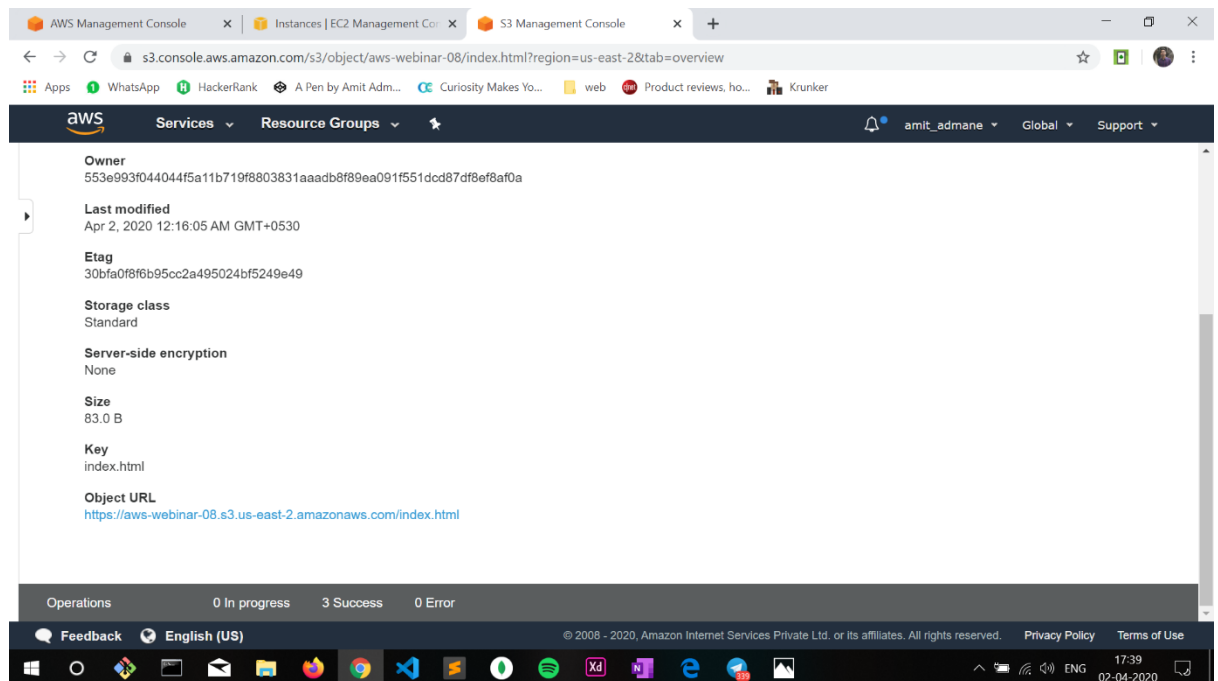
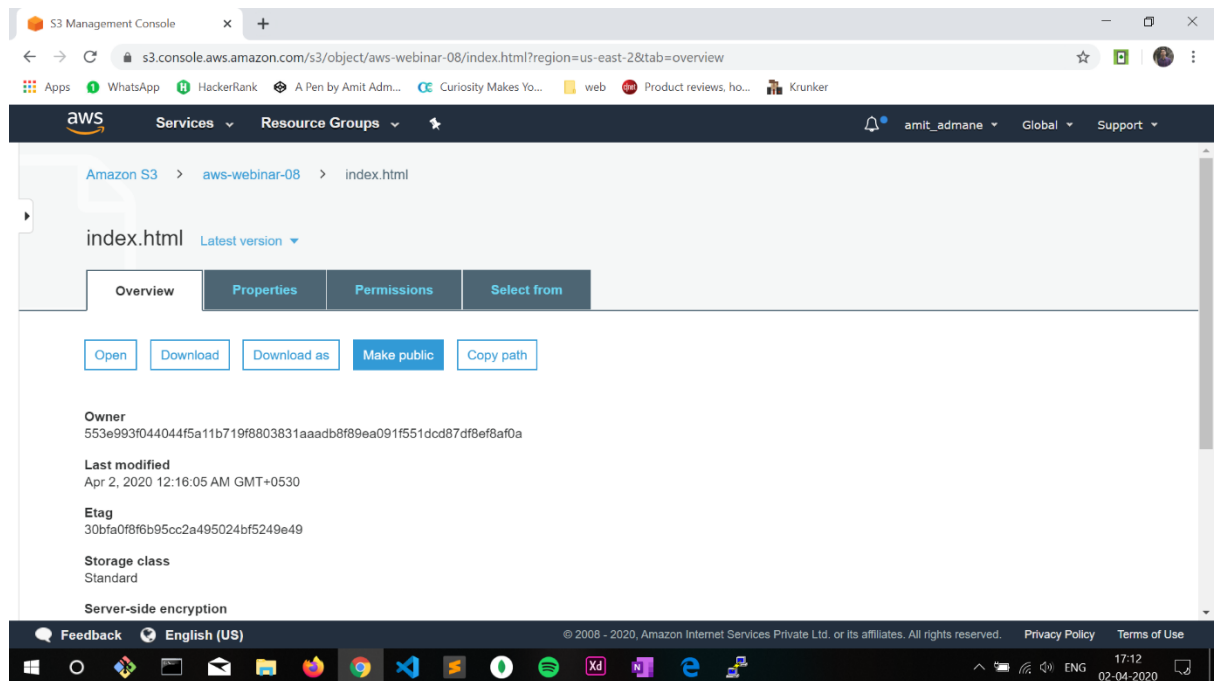
Static website hosting

Host a static website, which does not require server-side technologies.

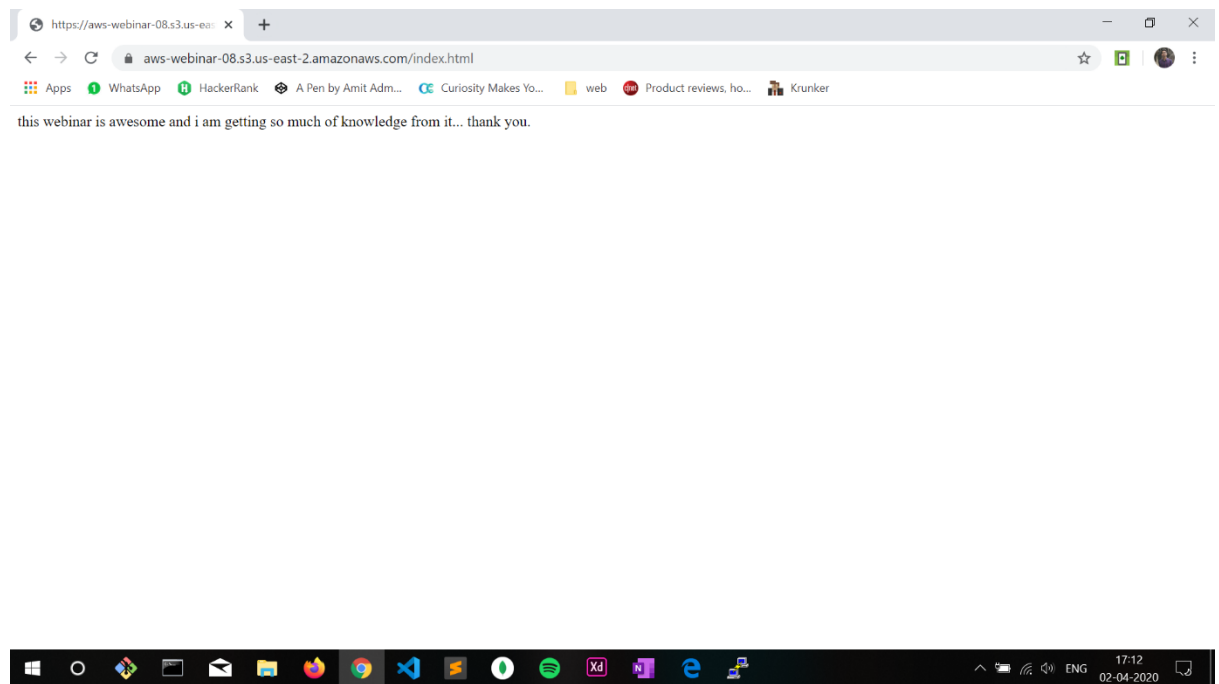
Learn more

Bucket hosting

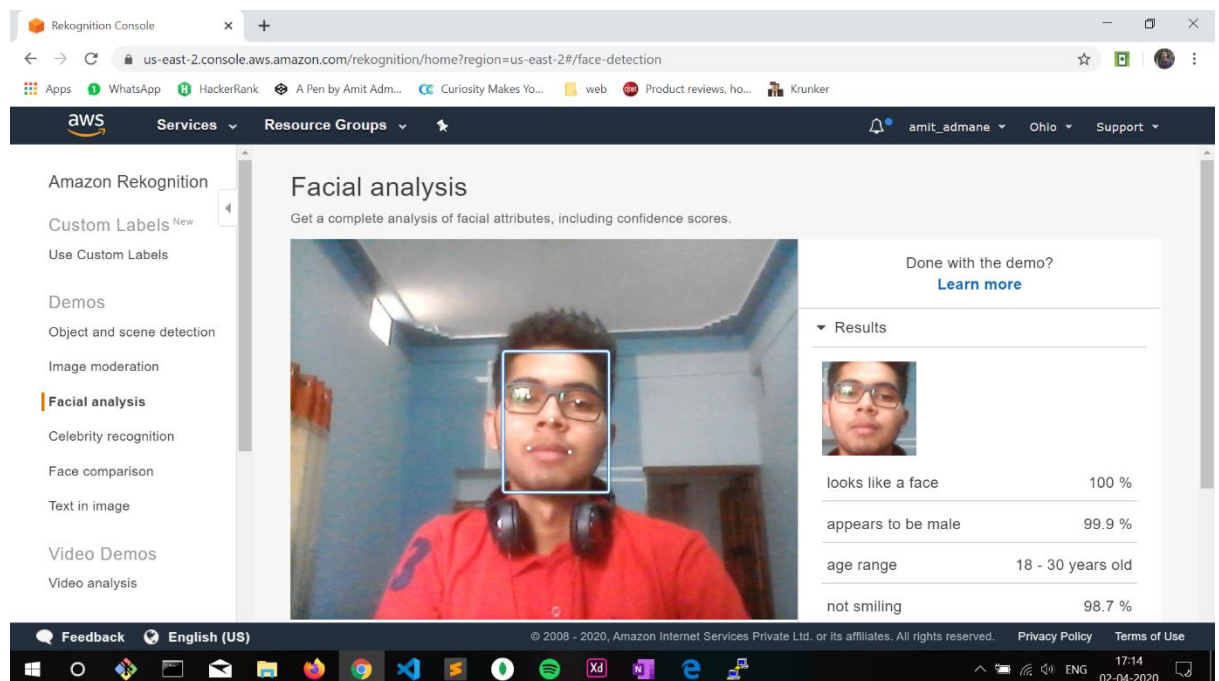
15. Making the Object Public:



16. Checking the S3 link on the browser:



17. Face Detect:



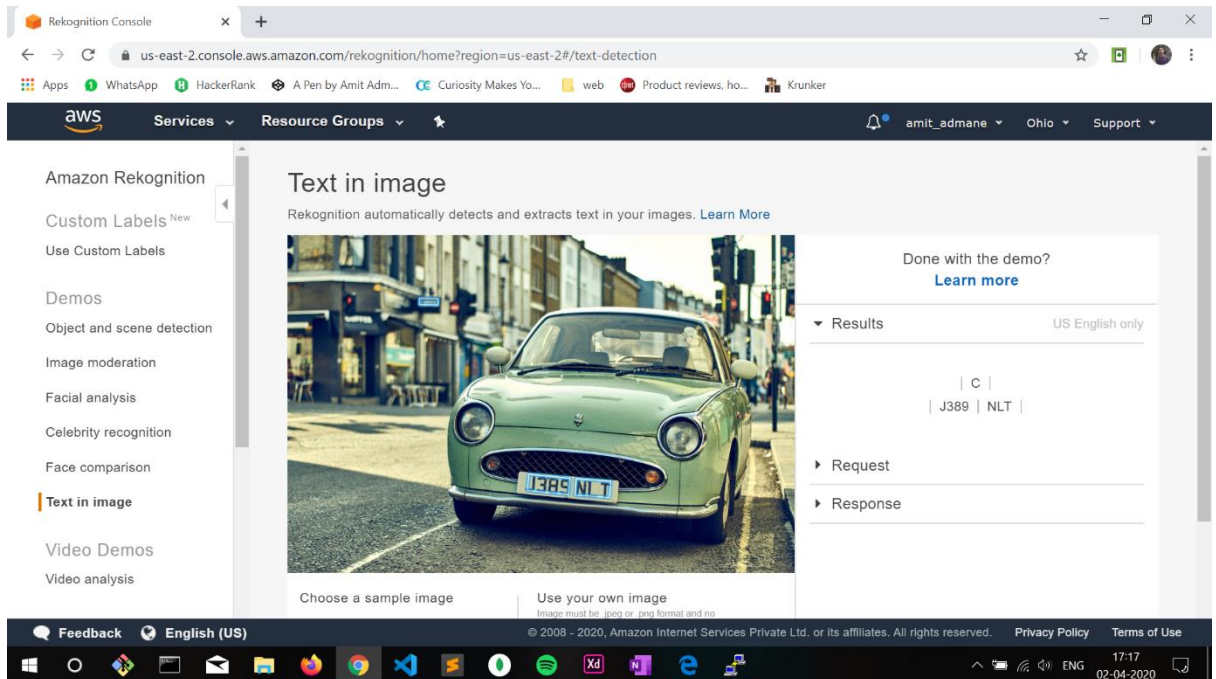
18. Face Compare:

The screenshot shows the AWS Rekognition Console's 'Face comparison' page. The left sidebar lists various services, with 'Face comparison' highlighted. The main content area is titled 'Face comparison' and includes a description: 'Compare faces to see how closely they match based on a similarity percentage.' Below this, there are two image upload sections: 'Reference face' and 'Comparison faces'. Both sections show a sample image of a man in a red shirt. To the right, the 'Results' section displays a visual comparison of the two faces with an equals sign between them, and a 'Similarity' score of 99.8%. The bottom of the page features a navigation bar with 'Feedback', 'English (US)', and copyright information for Amazon Internet Services Private Ltd. (2008-2020).

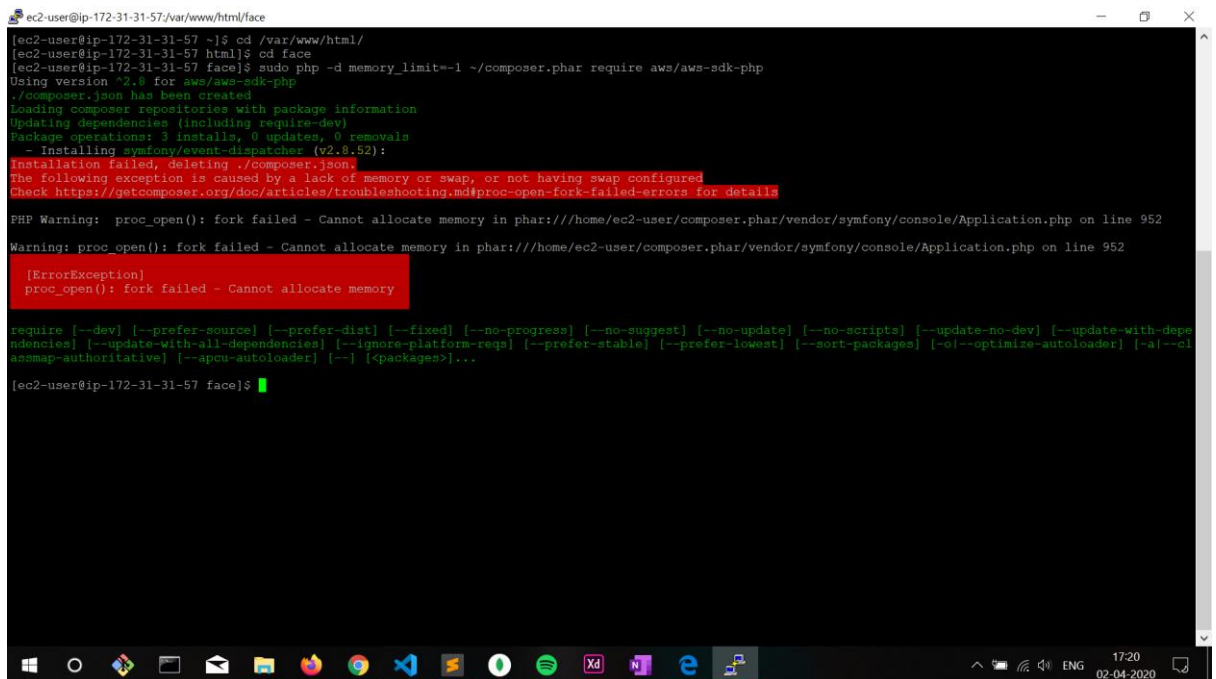
19. Celebrity Recognition:

The screenshot shows the AWS Rekognition Console's 'Celebrity recognition' page. The left sidebar lists various services, with 'Celebrity recognition' highlighted. The main content area is titled 'Celebrity recognition' and includes a description: 'Rekognition automatically recognizes celebrities in images and provides confidence scores.' Below this, there is a large image of Tom Cruise with a blue bounding box around his face. To the right, the 'Results' section displays a visual comparison of the image with a smaller version of the same image, and a 'Match confidence' score of 100%. The bottom of the page features a navigation bar with 'Feedback', 'English (US)', and copyright information for Amazon Internet Services Private Ltd. (2008-2020).

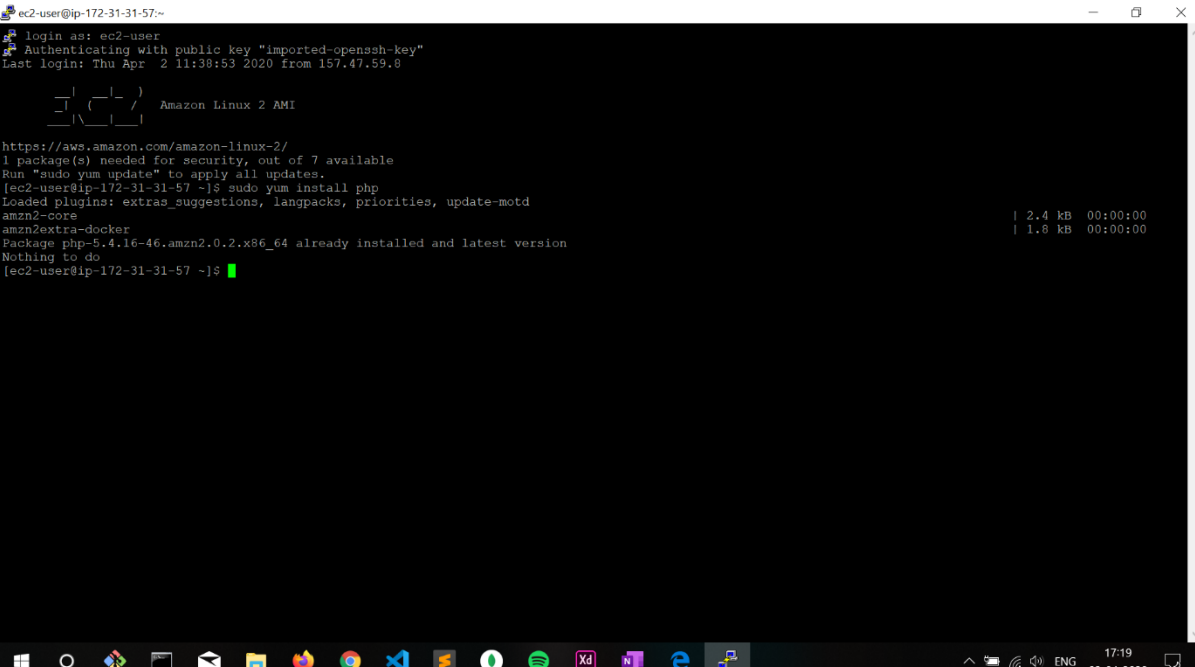
20. Text in Image:



21. Installing aws-sdk:



22. Installing php:



```
ec2-user@ip-172-31-31-57:~$
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Apr 2 11:38:53 2020 from 157.47.59.8

 _ _ | _ _ |
 _ _ | ( _ _ | /
 _ _ | \ _ _ |

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-172-31-31-57 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB 00:00:00
amzn2extra-docker | 1.8 kB 00:00:00
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-31-57 ~]$
```

23. index.php file code:

```
ec2-user@ip-172-31-31-57:/var/www/html/face
❯php
/*
Install php - sudo yum install php
curl -sS https://getcomposer.org/installer | php
cd /var/www/html
sudo mkdir face
cd face
sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php

In case if you get memory error -
sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
sudo /sbin/mkswap /var/swap.1
sudo /sbin/swapon /var/swap.1

sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg

Incase if you are getting any class NOT found error, follow these steps

sudo yum remove php*
sudo yum remove httpd*
sudo yum clean all
sudo yum upgrade -y
sudo amazon-linux-extras install php7.2
sudo yum install php-json php-xml php-cli php-mbstring
sudo yum install httpd

*/
// error_reporting(0);

require_once(__DIR__ . '/vendor/autoload.php');

use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;

$bucket = 'aws-webinar-08';
$keyname = 'a.jpg';

$s3 = new S3Client([
    'region' => 'us-east-2',
```

```
ec2-user@ip-172-31-31-57:/var/www/html/face
$keyname = 's.jpg';

$s3 = new S3Client([
    '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-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;
}
```

24. Upload success screenshot:

```
ec2-user@ip-172-31-31-57:/var/www/html/face
[ec2-user@ip-172-31-31-57 face]$ sudo vim index.php
[ec2-user@ip-172-31-31-57 face]$ sudo php index.php
PHP Warning: require_once(/var/www/html/face/vendor/autoload.php): failed to open stream: No such file or directory in /var/www/html/face/index.php on line 33
PHP Fatal error: require_once(): Failed opening required '/var/www/html/face/vendor/autoload.php' (include_path=.:usr/share/pear:usr/share/php) in /var/www/html/face/index.php on line 33
[ec2-user@ip-172-31-31-57 face]$
```

I tried the whole process for four times but still it didn't work. Then I searched the error on the internet but there is not any specific solution to this. It is the same error with some of my friends. I am requesting you to please help me to solve this. And it was a nice workshop, Thank you ETHNUS...

Email: amitadmane1000@gmail.com