

Building a Face-Detection App on AWS

Done by-K.Gopi Krishna

VIT Vellore

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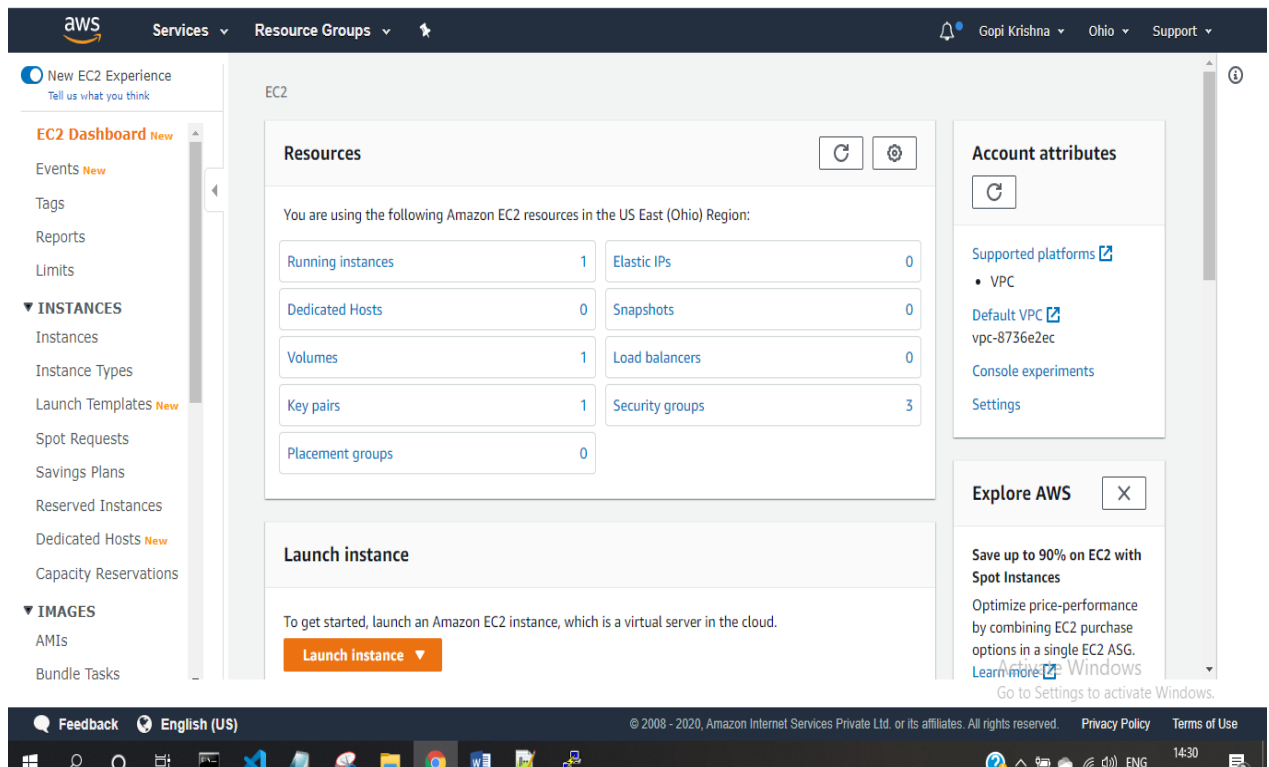
UserName: Gopi Krishna

Screenshots needed for Dashboards

1. AWS Login screen with username

The first screenshot shows the AWS sign-in page. The URL in the browser is `signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fnc2%3Dh_ct%26src%3Dheader...`. The page features the AWS logo, a 'Sign in' section with 'Root user' and 'IAM user' options, and a 'Root user email address' field containing `gopikrishnakunchanapalli@gmail.com`. A 'Next' button is visible. To the right, there is a promotional banner for 'Build highly accurate training datasets' using Amazon SageMaker Ground Truth. Below the sign-in section, there is a link for 'New to AWS?' and a 'Create a new AWS account' button. The second screenshot shows the AWS Management Console. The URL is `us-east-2.console.aws.amazon.com/console/home?region=us-east-2`. The console displays the 'AWS services' section with a search bar and a list of services. The 'Recently visited services' section shows 'EC2', 'S3', and 'Amazon Rekognition'. The 'All services' section is organized into categories: Compute (EC2, Lightsail, Lambda, Batch, Elastic Beanstalk, Serverless Application Repository), Blockchain (Amazon Managed Blockchain), Security, Identity, & Compliance (IAM, Resource Access Manager, Cognito, Secrets Manager, GuardDuty), Satellite (Ground Station), and more. On the right, there are sections for 'Access resources on the go' (AWS Console Mobile App) and 'Explore AWS' (Amazon Redshift, AWS Fargate, and Windows). The console also shows a 'Scalable, Durable, Secure Backup & Restore with' section.

2. EC2 Dashboard

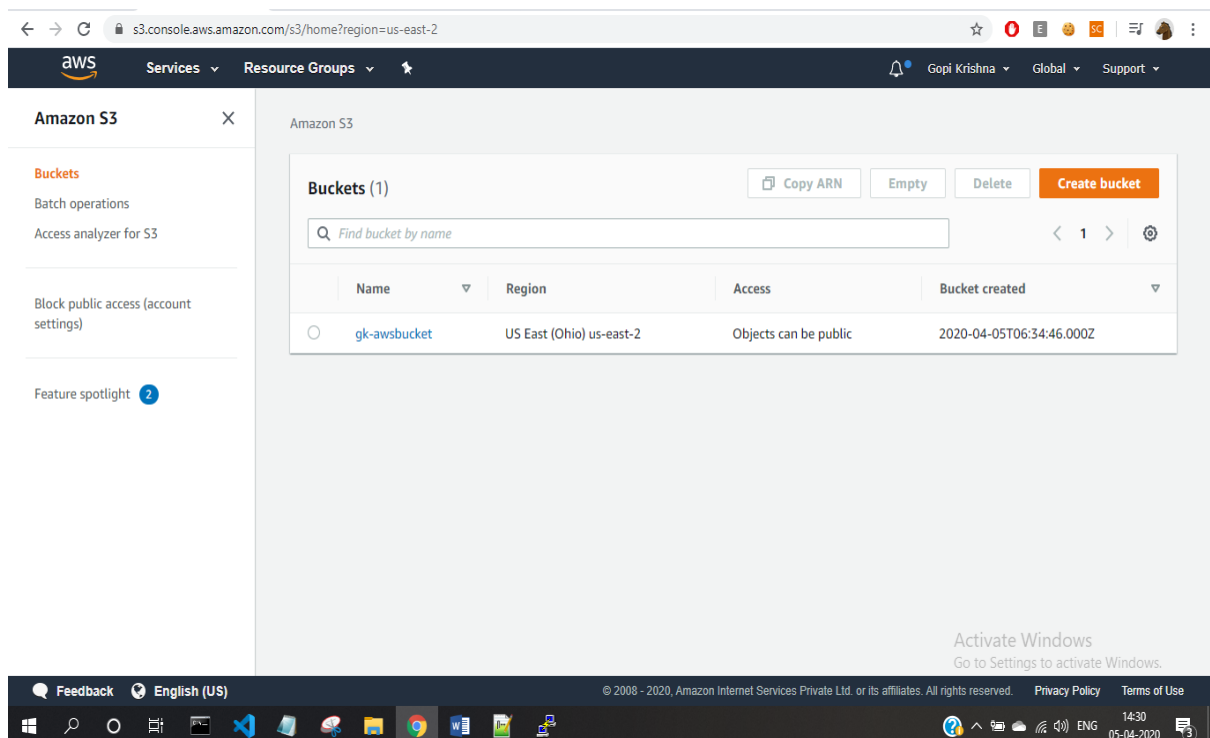


The screenshot shows the AWS Management Console for the EC2 service in the US East (Ohio) Region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, and IMAGES. The main content area displays a 'Resources' section with a table of EC2 resources and a 'Launch instance' button. The 'Resources' table lists the following:

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

The 'Launch instance' section provides instructions on how to launch an Amazon EC2 instance. The right sidebar shows 'Account attributes' and 'Explore AWS' sections. The bottom of the console displays the Windows taskbar with various application icons and system tray information.

3. S3 Dashboard



The screenshot shows the AWS Management Console for the S3 service in the US East (Ohio) Region. The left sidebar contains navigation links for Amazon S3, Buckets, Batch operations, Access analyzer for S3, Block public access (account settings), and Feature spotlight. The main content area displays a 'Buckets (1)' section with a table of S3 buckets. The 'Buckets (1)' table lists the following:

| Name | Region | Access | Bucket created |
|--------------|--------------------------|-----------------------|--------------------------|
| gk-awsbucket | US East (Ohio) us-east-2 | Objects can be public | 2020-04-05T06:34:46.000Z |

The right sidebar shows the 'Create bucket' button. The bottom of the console displays the Windows taskbar with various application icons and system tray information.

4. Rekognition Dashboard

The screenshot shows the Amazon Rekognition dashboard in the AWS console. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information (Gopi Krishna, Ohio, Support). The left sidebar lists 'Amazon Rekognition' with sub-links: 'Custom Labels' (marked as new), 'Use Custom Labels', 'Demos' (with sub-links for Object and scene detection, Image moderation, Facial analysis, Celebrity recognition, Face comparison, and Text in image), 'Video Demos' (with sub-link for Video analysis), and 'Metrics'. The main content area features a large header with the title 'Amazon Rekognition' and the description 'Deep learning-based visual analysis service. Search, verify, and organize millions of images and videos.' Below this are two buttons: 'Try Demo' and 'Download SDKs'. The dashboard is divided into three columns with icons and titles: 'Easily Integrate Powerful Visual Analysis into Your App' (with a stack of layers icon), 'Continuously Learning' (with a circuit icon), and 'Integrated with AWS Services' (with a puzzle piece icon). Each column contains a brief description of the service's capabilities. The footer includes a feedback link, language selection (English (US)), and copyright information (© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.).

Screenshots needed for EC2

1. Choosing an AMI

The screenshot shows the 'Choose an AMI' step in the AWS console's EC2 Launch Instance Wizard. The top navigation bar is the same as the previous screenshot. The wizard progress bar shows seven steps: '1. Choose AMI' (active), '2. Choose Instance Type', '3. Configure Instance', '4. Add Storage', '5. Add Tags', '6. Configure Security Group', and '7. Review'. The main content area is titled 'Step 1: Choose an Amazon Machine Image (AMI)' and includes a 'Cancel and Exit' link. A search bar prompts the user to 'Search for an AMI by entering a search term e.g. "Windows"'. Below the search bar is a 'Quick Start' section with a sidebar for 'My AMIs', 'AWS Marketplace', and 'Community AMIs'. The main list shows two AMIs: 'Amazon Linux 2 AMI (HVM), SSD Volume Type' and 'Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type'. Each AMI entry includes a description, root device type, virtualization type, and a 'Select' button. The bottom of the screen shows the footer with feedback, language selection, and copyright information.

2. Choosing an Instance Type

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

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 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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3. Adding Storage

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

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 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 | <input type="text" value="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

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

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

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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us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#ModifyInboundSecurityGroupRules:securityGroupId=sg-051fc351e77493897

aws Services Resource Groups

Gopi Krishna Ohio Support

| Type | Protocol | Port range | Source | Description - optional |
|------|----------|------------|-------------------------|------------------------|
| SSH | TCP | 22 | Custom 0.0.0.0/0 | Delete |
| HTTP | TCP | 80 | Anywh... 0.0.0.0/0 ::/0 | Delete |

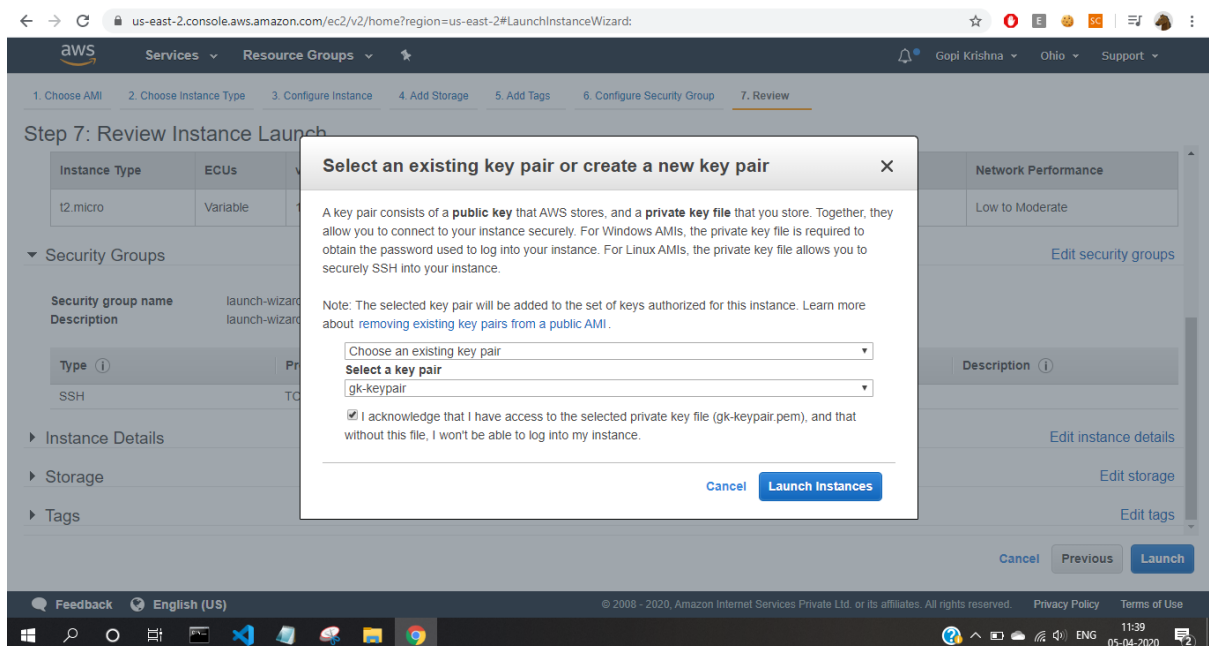
Add rule

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

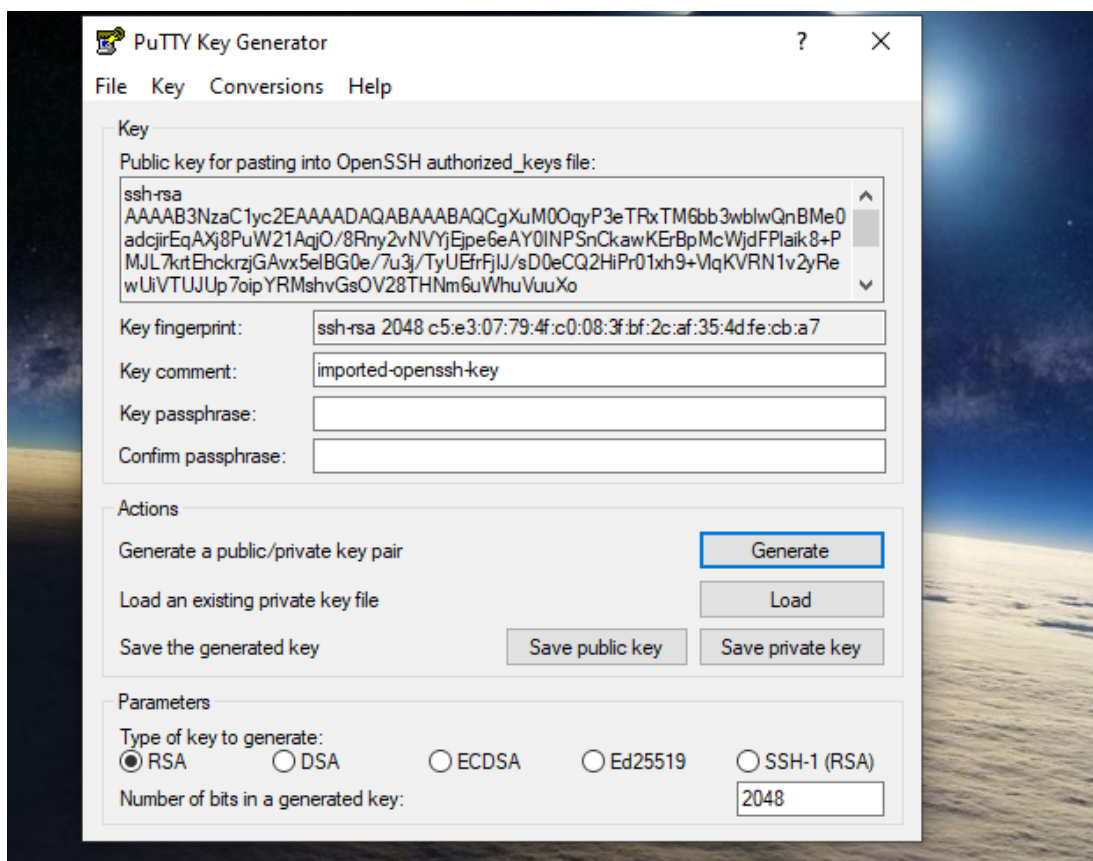
Cancel Preview changes **Save rules**

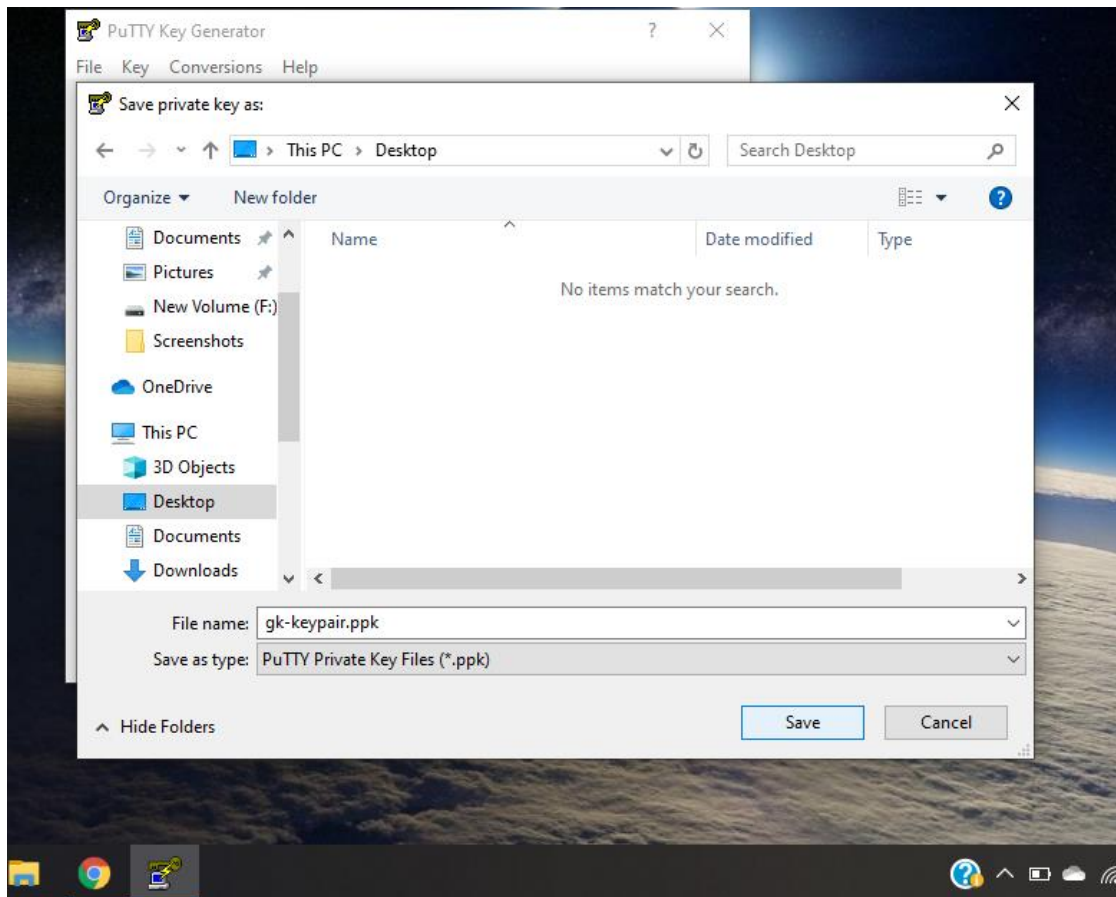
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5. Key Pair Download

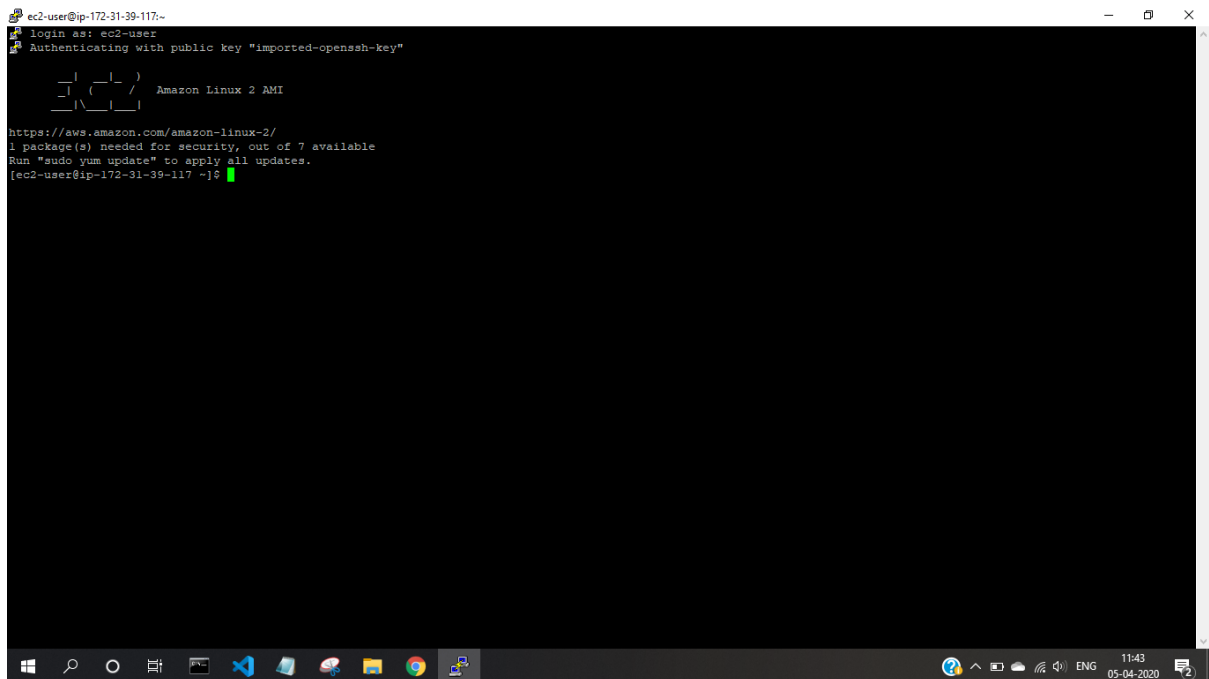


6. PuTTYgen conversion from pem to ppk



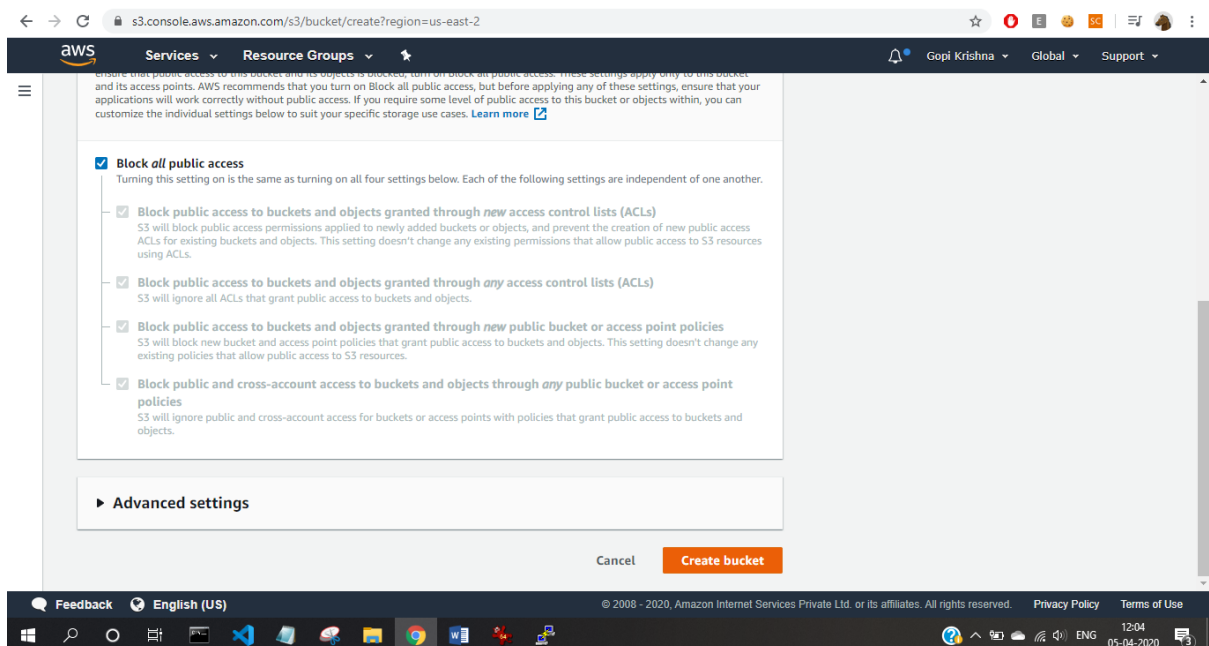
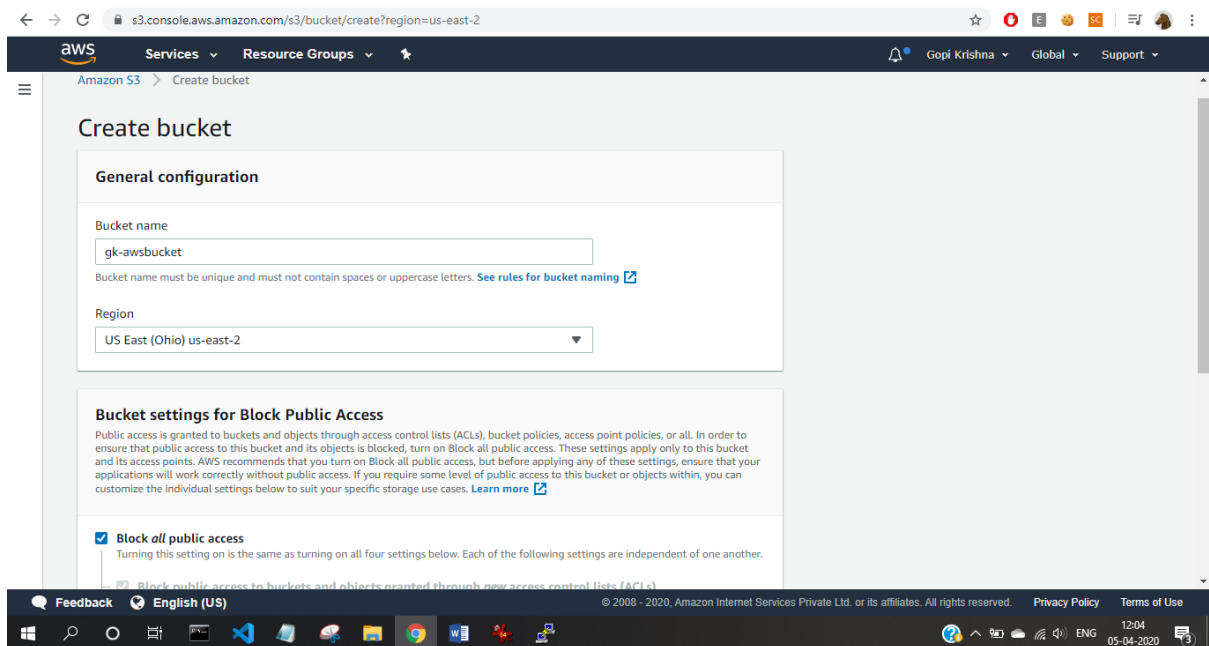


7. Logged in EC2 black screen



Screenshots needed for S3

1. Creating a bucket



2. Uploading an Object

The screenshot shows the AWS S3 console interface for a bucket named 'gk-awsbucket' in the 'us-east-2' region. The 'Overview' tab is selected, showing a list of objects. One object is present: 'clouds_milky_way_eclipse_light_68883_1920x1080.jpg', uploaded on April 5, 2020, at 12:06:29 PM GMT+0530, with a size of 619.3 KB and a storage class of 'Standard'. An upload progress bar at the bottom indicates '1 In progress'.

| Name | Last modified | Size | Storage class |
|--|----------------------------------|----------|---------------|
| clouds_milky_way_eclipse_light_68883_1920x1080.jpg | Apr 5, 2020 12:06:29 PM GMT+0530 | 619.3 KB | Standard |

3. Enabling Static Website

The screenshot shows the 'Static website hosting' configuration page for the 'gk-awsbucket'. The 'Endpoint' is 'http://gk-awsbucket.s3-website-us-east-2.amazonaws.com'. The 'Use this bucket to host a website' option is selected. The 'Index document' is 'index.html' and the 'Error document' is 'error.html'. The 'Bucket hosting' option is selected at the bottom. The 'Object-level logging' panel is also visible, showing it is currently 'Disabled'.

Endpoint : <http://gk-awsbucket.s3-website-us-east-2.amazonaws.com>

☒ Use this bucket to host a website [Learn more](#)

Index document [?](#)

Error document [?](#)

Redirection rules (optional) [?](#)

☐ Redirect requests [?](#) [Learn more](#)

☐ Disable website hosting

☒ Bucket hosting [?](#) [Learn more](#)

[Cancel](#) [Save](#)

Object-level logging

Record object-level API activity using the CloudTrail data events feature (additional cost). [Learn more](#)

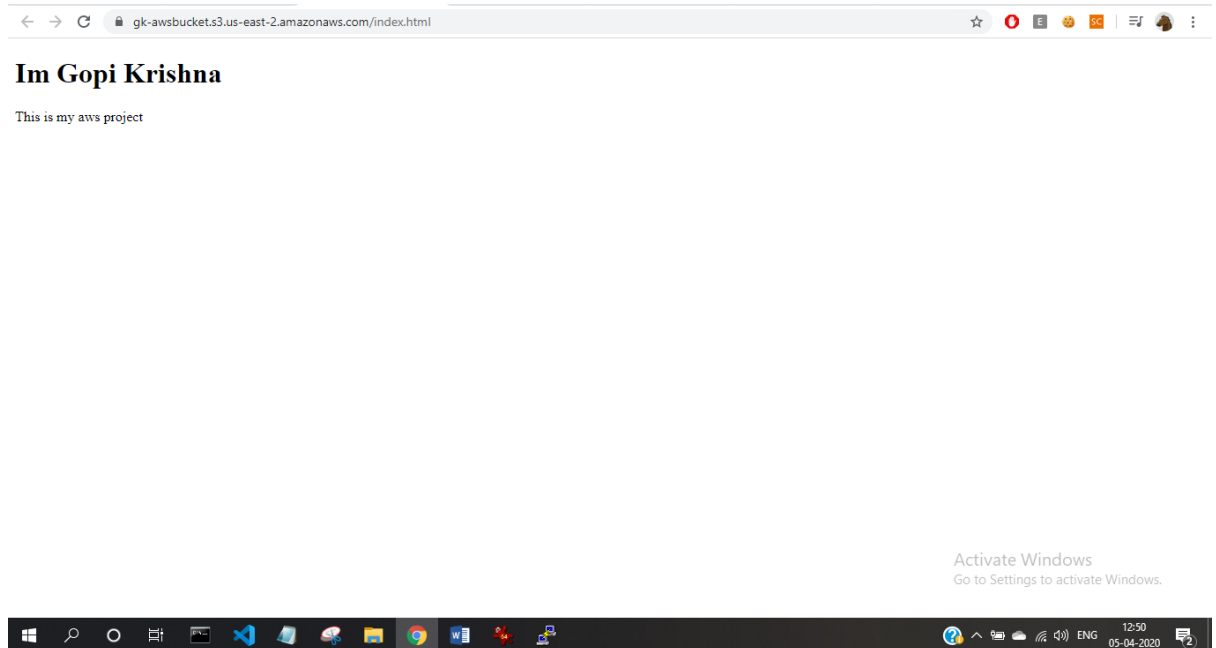
☐ Disabled

4. Making the Object Public

The screenshot shows the AWS S3 console interface for the 'index.html' object within the 'gk-awsbucket'. The 'Overview' tab is active, showing a success message at the top. Below the message are buttons for 'Open', 'Download', 'Download as', 'Make public', and 'Copy path'. The object's metadata is displayed, including the owner's ID, the last modified date (Apr 5, 2020 12:08:41 PM GMT+0530), the Etag (d2dbc1a40ed829e053fbd2a62fae5ede), and the storage class (Standard). The bottom status bar indicates '0 In progress', '1 Success', and '0 Error'.

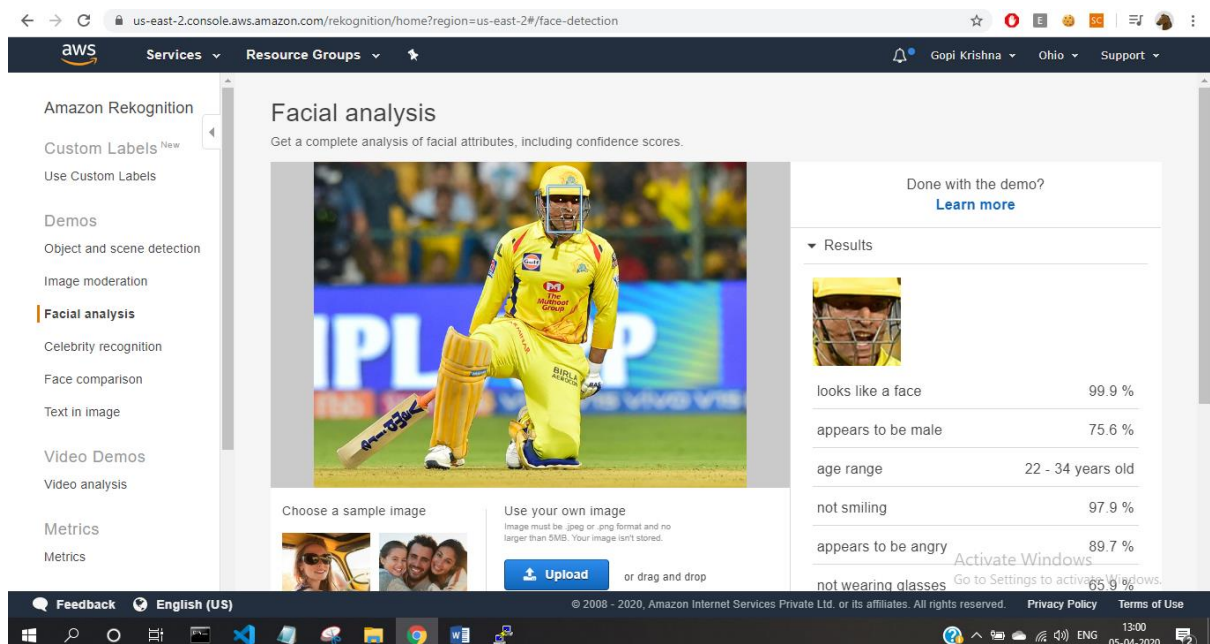
The screenshot shows the AWS S3 console interface for the 'gk-awsbucket' bucket. The 'Permissions' tab is active, displaying the 'Block public access' settings. A success message at the top indicates that public access settings were updated successfully. Below the message, the 'Block all public access' toggle is shown, currently set to 'Off'. The text below the toggle explains that public access is granted through ACLs, bucket policies, or access point policies, and that turning on 'Block all public access' will block public access to all buckets and objects. The bottom status bar indicates '0 In progress', '1 Success', and '0 Error'.

5. Checking the S3 link on the browser



Screenshots needed for Rekognition

1. Face Detect



2. Face Compare

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

aws Services Resource Groups

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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

Metrics

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 %

Choose a sample image

Choose a sample image

Feedback English (US)

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13:03 05-04-2020

3. Celebrity Recognition

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

aws Services Resource Groups

Gopi Krishna 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

Metrics

Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.

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

Results

MS Dhoni

Match confidence 71 %

Request

Response

Choose a sample image

Use your own image

Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.

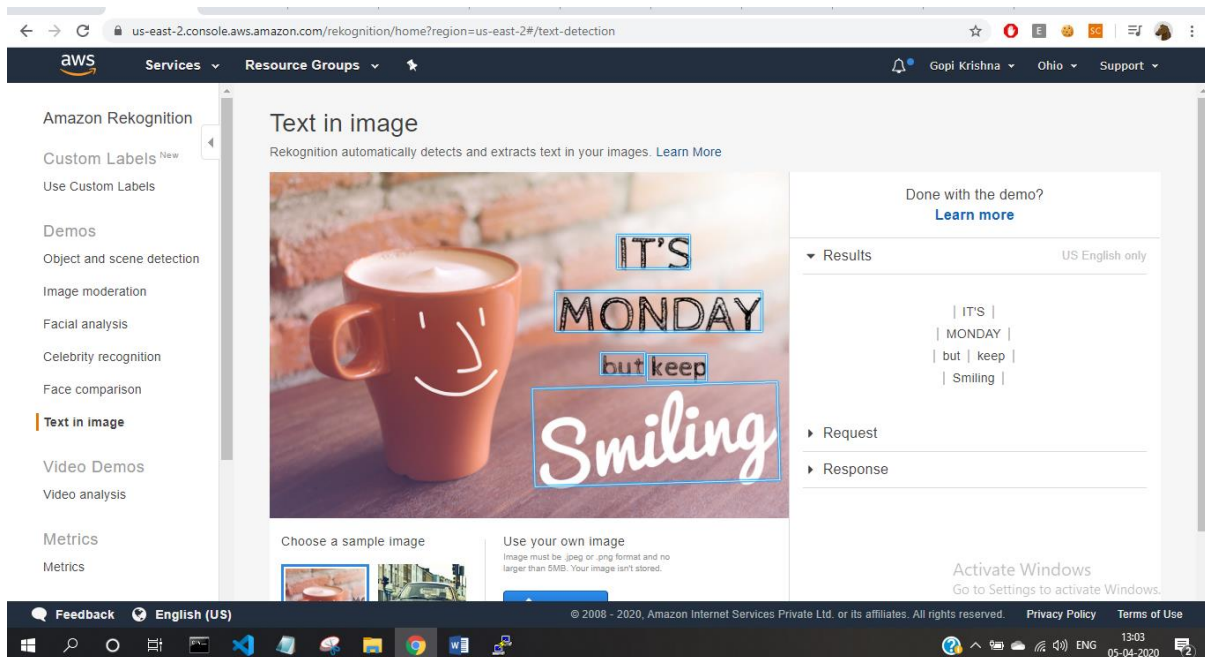
Upload or drag and drop

Feedback English (US)

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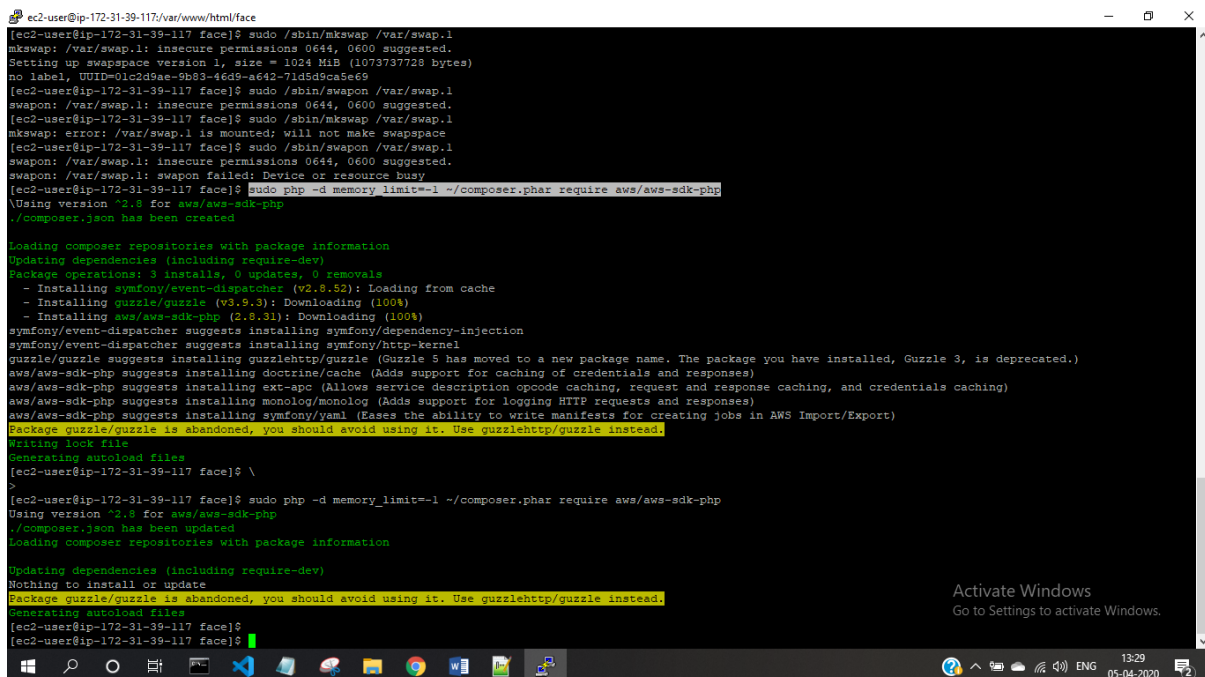
13:03 05-04-2020

4. Text in Image



Screenshots needed for EC2 & S3

1. Installing aws-sdk



2. Installing php

```
ec2-user@ip-172-31-39-117:/var/www/html/face
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Apr  5 06:26:37 2020 from 157.38.255.242

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

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-172-31-39-117 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB 00:00
Resolving Dependencies
--> Running transaction check
--> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: php-cli(x86-64) = 5.4.16-46.amzn2.0.2 for package: ph
p-5.4.16-46.amzn2.0.2.x86_64
--> Processing Dependency: php-common(x86-64) = 5.4.16-46.amzn2.0.2 for package:
php-5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
--> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: libzip.so.2()(64bit) for package: php-common-5.4.16-4
6.amzn2.0.2.x86_64
--> Running transaction check
--> Package libzip0-compat.x86_64 0:0.10.1-9.amzn2.0.5 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
-----
Installing:
php x86_64 5.4.16-46.amzn2.0.2 amzn2-core 1.4 M
Installing for dependencies:
libzip0-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): php-5.4.16-46.amzn2.0.2.x86_64.rpm | 1.4 MB 00:00
(2/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm | 2.8 MB 00:00
(3/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm | 563 KB 00:00
(4/4): libzip0-compat-0.10.1-9.amzn2.0.5.x86_64.rpm | 30 KB 00:00
-----
Total 13 MB/s | 4.7 MB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : libzip0-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 : libzip0-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:
libzip0-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-172-31-39-117 ~]$ curl -s https://getcomposer.org/installer | php
All settings correct for using Composer
```

```
ec2-user@ip-172-31-39-117:/var/www/html/face
php x86_64 5.4.16-46.amzn2.0.2 amzn2-core 1.4 M
Installing for dependencies:
libzip0-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): php-5.4.16-46.amzn2.0.2.x86_64.rpm | 1.4 MB 00:00
(2/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm | 2.8 MB 00:00
(3/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm | 563 KB 00:00
(4/4): libzip0-compat-0.10.1-9.amzn2.0.5.x86_64.rpm | 30 KB 00:00
-----
Total 13 MB/s | 4.7 MB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : libzip0-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 : libzip0-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:
libzip0-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-172-31-39-117 ~]$ curl -s https://getcomposer.org/installer | php
All settings correct for using Composer
```


3. index.php file code

```
ec2-user@ip-172-31-39-117:/var/www/html/face
[ec2-user@ip-172-31-39-117 face]$ clear
[ec2-user@ip-172-31-39-117 face]$
[ec2-user@ip-172-31-39-117 face]$ sudo vim index.php
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

*/
error_reporting(0);

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

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

$bucket = 'Your Bucket Name';
$keyname = 'Your File Name';

$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'
    ]);

    // Print the URL to the object.
    $imageUrl = $result['ObjectURL'];
    if ($imageUrl) {
        echo "Image upload done... Here is the URL: " . $imageUrl;
    }
} catch (Exception $e) {
}

} catch (Exception $e) {
}
```

4. Upload success screenshot

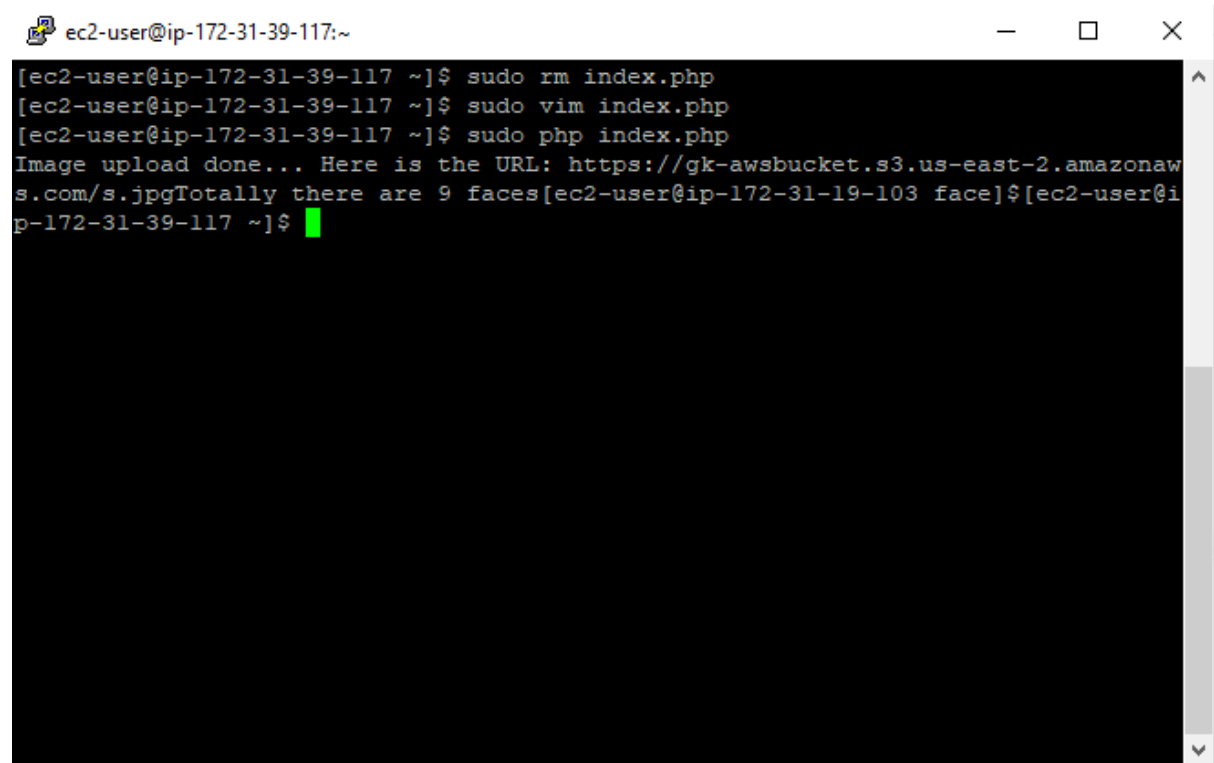
```
ec2-user@ip-172-31-39-117:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Apr  5 08:41:53 2020 from 157.38.255.242

 _ _ | _ _ | _ )
 _ | ( _ _ /   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-172-31-39-117 ~]$ sudo rm index.php
[ec2-user@ip-172-31-39-117 ~]$ sudo vim index.php
[ec2-user@ip-172-31-39-117 ~]$ sudo php index.php
Image upload done... Here is the URL: https://gk-awsbucket.s3.us-east-2.amazonaws.com/
[ec2-user@ip-172-31-39-117 ~]$
```


Screenshots needed for EC2 & Rekognition

1. Face Detect success screenshot



A terminal window titled "ec2-user@ip-172-31-39-117:~" with standard window controls. The terminal shows the following commands and output:

```
[ec2-user@ip-172-31-39-117 ~]$ sudo rm index.php
[ec2-user@ip-172-31-39-117 ~]$ sudo vim index.php
[ec2-user@ip-172-31-39-117 ~]$ sudo php index.php
Image upload done... Here is the URL: https://gk-awsbucket.s3.us-east-2.amazonaws.com/s.jpgTotally there are 9 faces[ec2-user@ip-172-31-19-103 face]$[ec2-user@ip-172-31-39-117 ~]$
```

The output indicates a successful Face Detect operation, reporting 9 faces detected in the image.