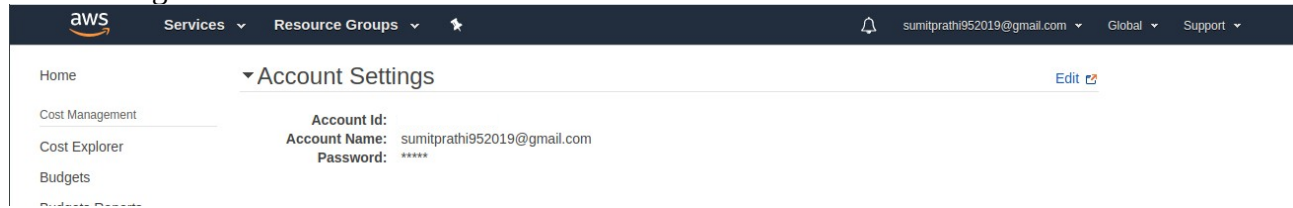


Name: Sumit Pravin Rath

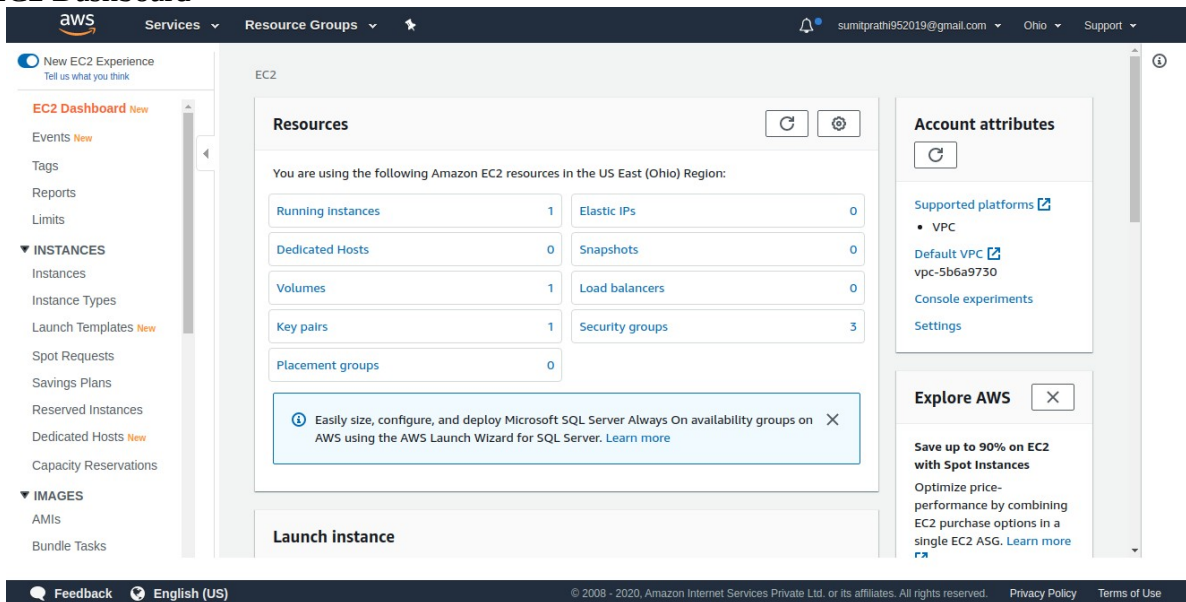
University: VIT, Vellore

Screenshot for Dashboards:

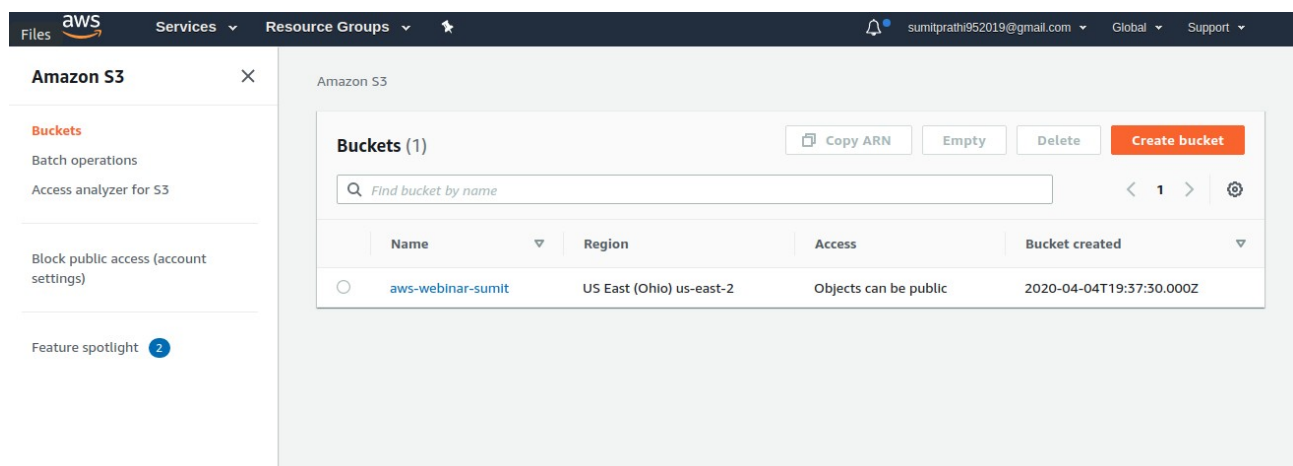
1. AWS Login screen with username



2. EC2 Dashboard



3. S3 Dashboard



4. Rekognition Dashboard

The screenshot shows the Amazon Rekognition dashboard. The top navigation bar includes 'Files', 'aws', 'Services', 'Resource Groups', and a user profile 'sumitprathi952019@gmail.com' with location 'Ohio' and a 'Support' link. The left sidebar lists 'Amazon Rekognition' with sub-links: 'Custom Labels' (marked 'New'), 'Use Custom Labels', 'Demos' (with links for 'Object and scene detection', 'Image moderation', 'Facial analysis', 'Celebrity recognition', 'Face comparison', and 'Text in image'), 'Video Demos' (with 'Video analysis'), 'Metrics', and 'Additional Resources'. The main content area features a large header with the title 'Amazon Rekognition', a subtitle 'Deep learning-based visual analysis service', and a description 'Search, verify, and organize millions of images and videos'. Below this are buttons for 'Try Demo' and 'Download SDKs'. The section is divided into three columns: '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, 'English (US)' language selector, and copyright information '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' along with 'Privacy Policy' and 'Terms of Use' links.

Screenshots needed for EC2

1. Choosing an AMI

The screenshot shows the 'Step 1: Choose an Amazon Machine Image (AMI)' screen in the AWS console. The top navigation bar is identical to the previous screenshot. Below the navigation bar is a progress bar with 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 heading is 'Step 1: Choose an Amazon Machine Image (AMI)' with a 'Cancel and Exit' link. A sub-heading explains: '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.' Below this is a search bar with the placeholder text 'Search for an AMI by entering a search term e.g. "Windows"'. The main content area is titled 'Quick Start' and shows a list of AMIs. On the left is a sidebar with 'My AMIs', 'AWS Marketplace', and 'Community AMIs', with a 'Free tier only' filter. The list of AMIs includes: 'Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0e01ce4ee18447327 (64-bit x86) / ami-03201f374ab66a26e' (64-bit Arm) and 'Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-01b01bbd08f24c7a8' (64-bit x86). Each AMI entry includes a description, root device type, virtualization type, and ENA status. The 'Select' button is visible for each AMI.

2. Choosing an Instance Type

Files

aws

Services

Resource Groups

sumitprathi952019@gmail.com

Ohio

Support

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](#)

Feedback

English (US)

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3. Adding Storage

Files

aws

Services

Resource Groups

sumitprathi952019@gmail.com

Ohio

Support

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="30"/>	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

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](#)

5. Key Pair Download

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

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.

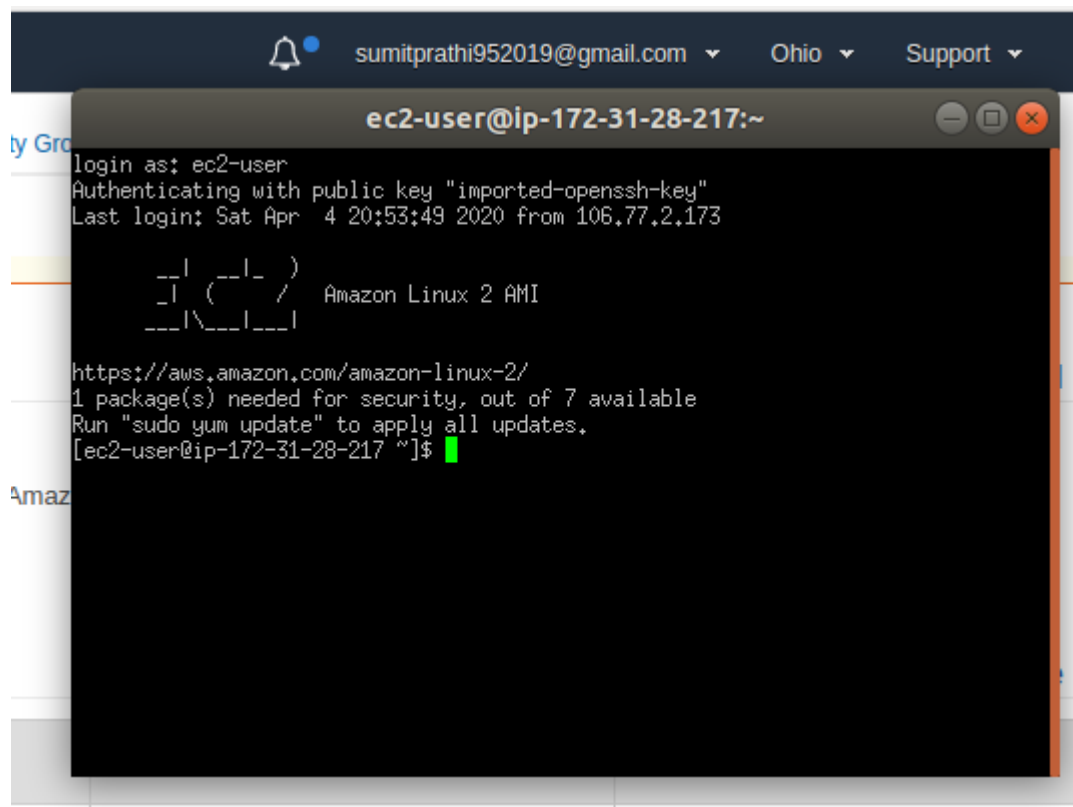
[Cancel](#) [Launch Instances](#)

aws-webinar-...pem

6. PuTTYgen conversion from pem to ppk

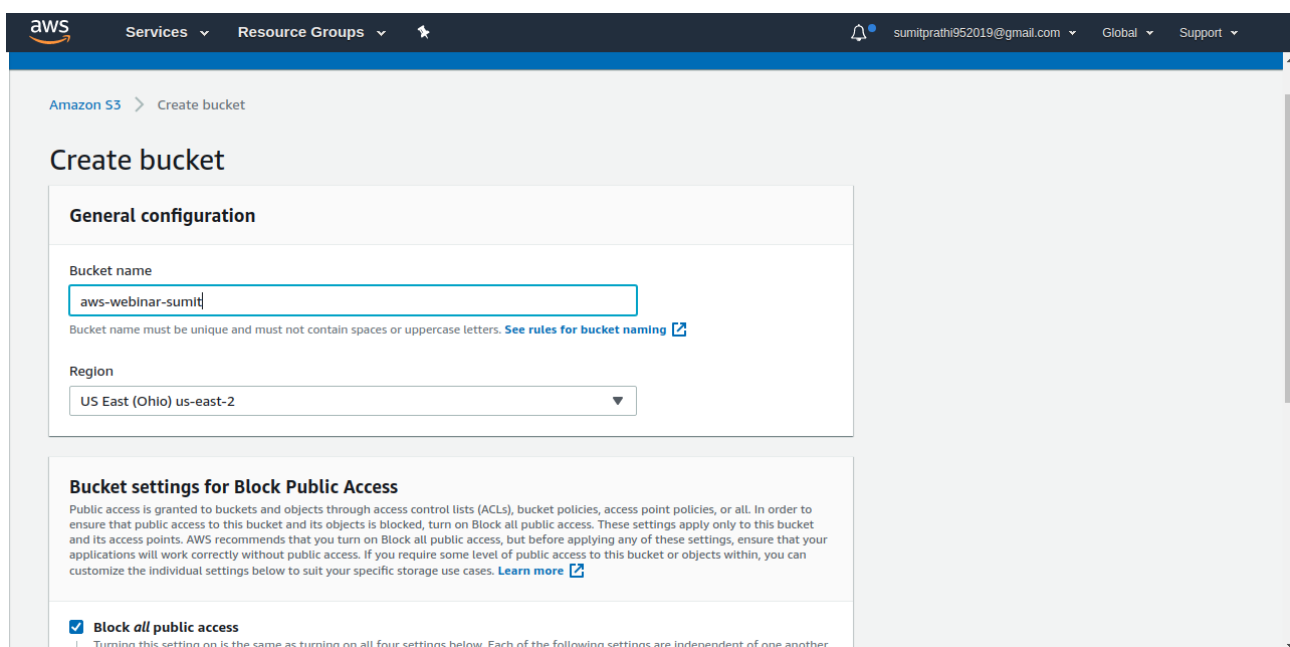
```
sumit@sumit-lenovo-g570:~/Downloads$ puttygen aws-sumit-key.pem -O private -o aws-sumit-key.ppk
sumit@sumit-lenovo-g570:~/Downloads$ ls -lrt *ppk
-rw----- 1 sumit sumit 1438 Apr  5 03:59 aws-sumit-key.ppk
```

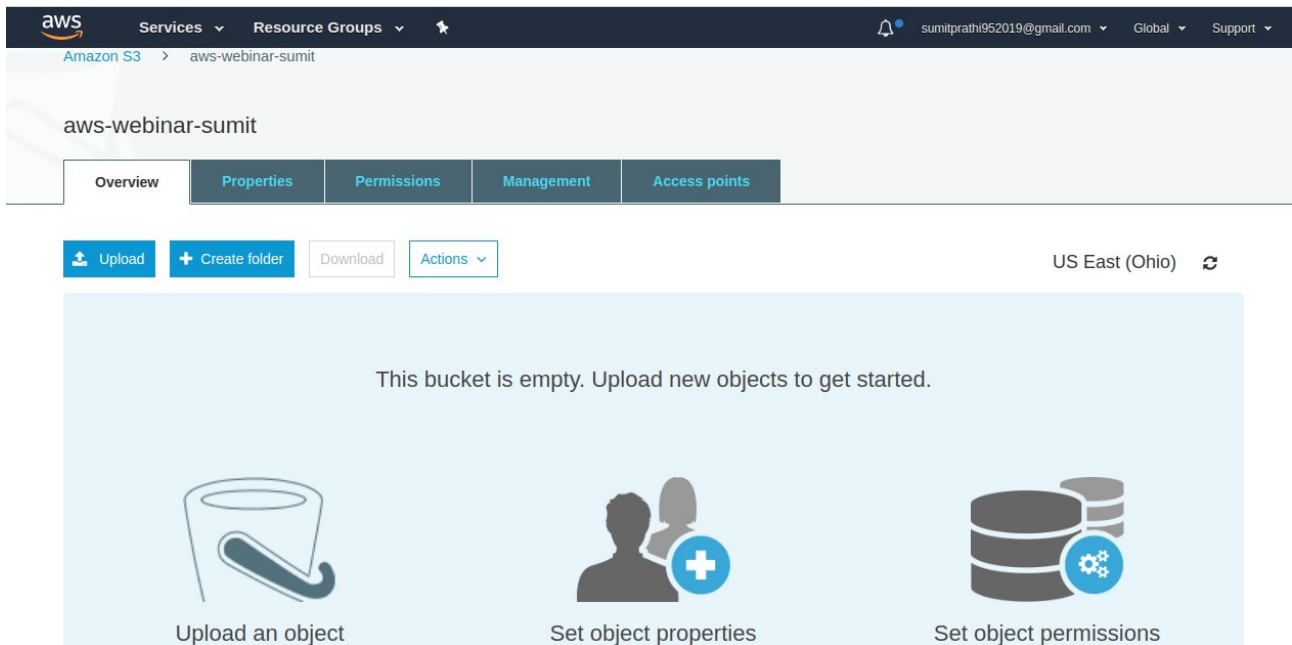
7. Logged in EC2 black screen



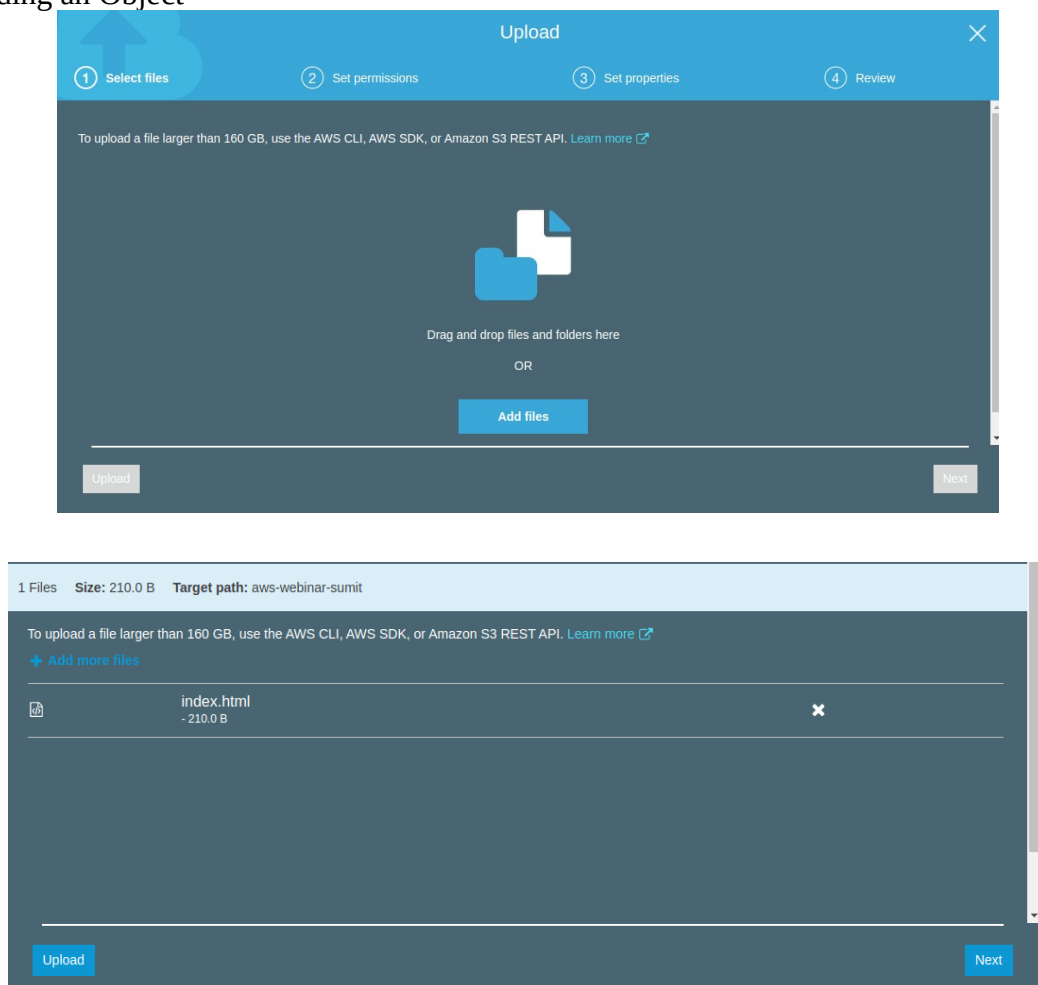
Screenshots for S3:

1. Creating a bucket





2. Uploading an Object



1 Select files

2 Set permissions

3 Set properties

4 Review

1 Files Size: 210.0 B Target path: aws-webinar-sumit

Manage users

User ID ⓘ

Objects ⓘ

Object permissions ⓘ

sumitprathi952019(Owner)

☒ Read

☒ Read ☒ Write

×

Access for other AWS account

+ Add account

Account ⓘ

Objects ⓘ

Object permissions ⓘ

Manage public permissions

The block public access settings turned on for this bucket prevent granting public access.

Upload

Previous

Next

1 Select files

2 Set permissions

3 Set properties

4 Review

1 Files Size: 210.0 B Target path: aws-webinar-sumit

Storage class

Choose a storage class based on your use case and access requirements. [Learn more](#) or see [Amazon S3 pricing](#)

Storage class	Designed for	Availability Zones	Min storage duration	Min billable object size	Monitoring and automation fees	Retrieval fees
<input type="radio"/> Standard	Frequently accessed data	≥ 3	-	-	-	-
<input checked="" type="radio"/> Intelligent-Tiering	Long-lived data with changing or unknown access patterns	≥ 3	30 days	-	Per-object fees apply	-
<input type="radio"/> Standard-IA	Long-lived, infrequently accessed data	≥ 3	30 days	128KB	-	Per-GB fees apply
<input type="radio"/> One Zone-IA	Long-lived, infrequently accessed, non-critical data	≥ 1	30 days	128KB	-	Per-GB fees apply

Upload

Previous

Next

1 Select files

2 Set permissions

3 Set properties

4 Review

Files

1 Files Size: 210.0 B

Edit

Permissions

1 grantees

Edit

Properties

Encryption

No

Storage class

Standard

Metadata

Tag

Edit

Previous

Upload

aws-webinar-sumit

Overview

Properties

Permissions

Management

Access points

Q

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

Upload


Create folder

Download

Actions

US East (Ohio)

Viewing 1 to 1

<input type="checkbox"/>	Name	Last modified	Size	Storage class
<input type="checkbox"/>	 index.html	Apr 5, 2020 1:16:54 AM GMT+0530	210.0 B	Standard

Viewing 1 to 1

Operations

0 In progress

1 Success

0 Error

3. Enabling Static Website

sumitprathi952019@gmail.com

Access points

Static website hosting

Endpoint : http://aws-webinar-sumit.s3-website.us-east-2.amazonaws.com

☒

Use this bucket to host a website

Index document

index.html

Error document

error.html

Redirection rules (optional)

☐

Redirect requests

☐

Disable website hosting

☒

Bucket hosting

Cancel

Save

4. Making the object Public

aws-webinar-sumit

Overview

Properties

Permissions

Management

Access points

Block public access

Access Control List

Bucket Policy

CORS configuration

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☐ Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☐ Block public access to buckets and objects granted through new access control lists (ACLs)

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

☐ Block public access to buckets and objects granted through any access control lists (ACLs)

S3 will ignore all ACLs that grant public access to buckets and objects.

☐ Block public access to buckets and objects granted through new public bucket or access point policies

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ Block public and cross-account access to buckets and objects through any public bucket or access point policies

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Cancel

Save

aws

Services

Resource Groups

sumitprathi952019@gmail.com

Global

Support

aws-webinar-sumit

Overview

Properties

Permissions

Management

Access points

Block public access

Access Control List

Bucket Policy

CORS configuration

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Public access settings updated successfully

Block all public access

Off

Block public access to buckets and objects granted through new access control lists (ACLs)

Off

Block public access to buckets and objects granted through any access control lists (ACLs)

Off

Block public access to buckets and objects granted through new public bucket or access point policies

Off

Block public and cross-account access to buckets and objects through any public bucket or access point policies

Off

Edit

Creating Object Public:

Amazon S3

aws-webinar-sumit

index.html

index.html

Latest version

Overview

Properties

Permissions

Select from

Open

Download

Download as

Make public

Copy path

Owner

523ba78dfc8b06bf655e89e2b911e9732bb4b4d4d391a97dd10286c3aedd4469

Last modified

Apr 5, 2020 1:16:54 AM GMT+0530

Etag

ec3d7e9e8b5015df94453a1df4deb010

Storage class

Standard

Server-side encryption

None

Size

210.0 B

Key

index.html

Object URL

<https://aws-webinar-sumit.s3.us-east-2.amazonaws.com/index.html>

Amazon S3

aws-webinar-sumit

index.html

index.html

Latest version

Overview

Properties

Permissions

Select from

Success

Open

Download

Download as

Make public

Copy path

Owner

523ba78dfc8b06bf655e89e2b911e9732bb4b4d4d391a97dd10286c3aedd4469

Last modified

Apr 5, 2020 1:16:54 AM GMT+0530

Etag

ec3d7e9e8b5015df94453a1df4deb010

Storage class

Standard

Server-side encryption

None

Size

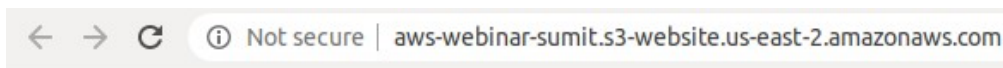
210.0 B

Key

index.html

Object URL

5. Checking the S3 link on the browser



AWS Webinar Sumit

AWS Webinar Sumit

AWS Webinar Sumit

AWS Webinar Sumit

AWS Webinar Sumit

AWS Webinar Sumit

Screenshots needed for Rekognition

1. Face Detect

A screenshot of the AWS IAM console's "Facial analysis" demo page. The page shows a large image of a woman driving a yellow car with a white bounding box around her face. Below this, there are two sections: "Choose a sample image" with two small image thumbnails, and "Use your own image" with an "Upload" button and a note about image format and size. On the right, a "Results" section displays a list of facial attributes and their confidence scores. The top of the page shows the AWS logo, navigation tabs for "Services" and "Resource Groups", and user information for "sumitprathi952019@gmail.com" in "Ohio".

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

Facial analysis

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

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

▼ Results

looks like a face	99.9 %
appears to be female	99.9 %
age range	17 - 29 years old
smiling	91.7 %
appears to be happy	99.5 %
wearing glasses	99.8 %

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.

[Upload](#) or drag and drop

2. Face Compare

aws

Services

Resource Groups

sumitprathi952019@gmail.com

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

Additional Resources

Face comparison

Compare faces to see how closely they match based on a similarity percentage.

Reference face

Comparison faces




Choose a sample image

Choose a sample image




Done with the demo?




[Learn more](#)

Results



Similarity 99.8 %





3. Celebrity Recognition

aws

Services

Resource Groups

sumitprathi952019@gmail.com

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

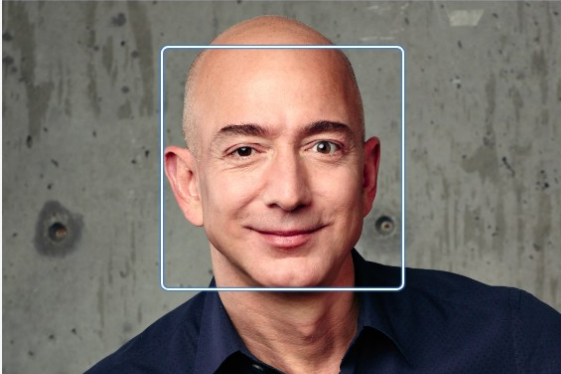
Metrics

Metrics

Additional Resources

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

4. Text in Image

The screenshot shows the Amazon Rekognition 'Text in image' demo page. The interface includes a sidebar with navigation options like 'Amazon Rekognition', 'Custom Labels', 'Demos', and 'Metrics'. The main content area features a large image of a red mug with a smiley face and the text 'IT'S MONDAY but keep Smiling'. Below this image are two options: 'Choose a sample image' and 'Use your own image'. The 'Results' section on the right displays the detected text: 'IT'S', 'MONDAY', 'but', 'keep', and 'Smiling'.

Screenshots needed for EC2 & S3

1. Installing aws-sdk

```
[ec2-user@ip-172-31-28-217 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 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 y
ou 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-172-31-28-217 face]$
```

2. Installing php

```
[ec2-user@ip-172-31-28-217 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB 00:00:00
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: php-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-5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
--> Package libzip010-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:
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 00:00:00
(2/4): php-5.4.16-46.amzn2.0.2.x86_64.rpm | 1.4 MB 00:00:00
(3/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm | 2.8 MB 00:00:00
(4/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm | 563 kB 00:00:00
-----
Total 23 MB/s | 4.7 MB 00:00:00
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
```

3.index.php file code

```
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

*/
error_reporting(0);

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

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

$bucket = 'aws-webinar-sumit';
$keyname = 's.jpg';

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


4. Image Upload

```
[ec2-user@ip-172-31-28-217 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-webinar-sumit.s3.us-east-2.amazonaws.com/s.jpg[ec2-user@ip-172-31-28-217 face]$
```

S3 Bucket:

The screenshot shows the AWS S3 console interface for the bucket 'aws-webinar-sumit'. The bucket is located in the 'US East (Ohio)' region. The console displays a table of objects within the bucket.

Name	Last modified	Size	Storage class
index.html	Apr 5, 2020 1:16:54 AM GMT+0530	210.0 B	Standard
s.jpg	Apr 5, 2020 3:42:25 AM GMT+0530	210.5 KB	Standard

Screenshots needed for EC2 & Rekognition

1. Face Detect success screenshot

