

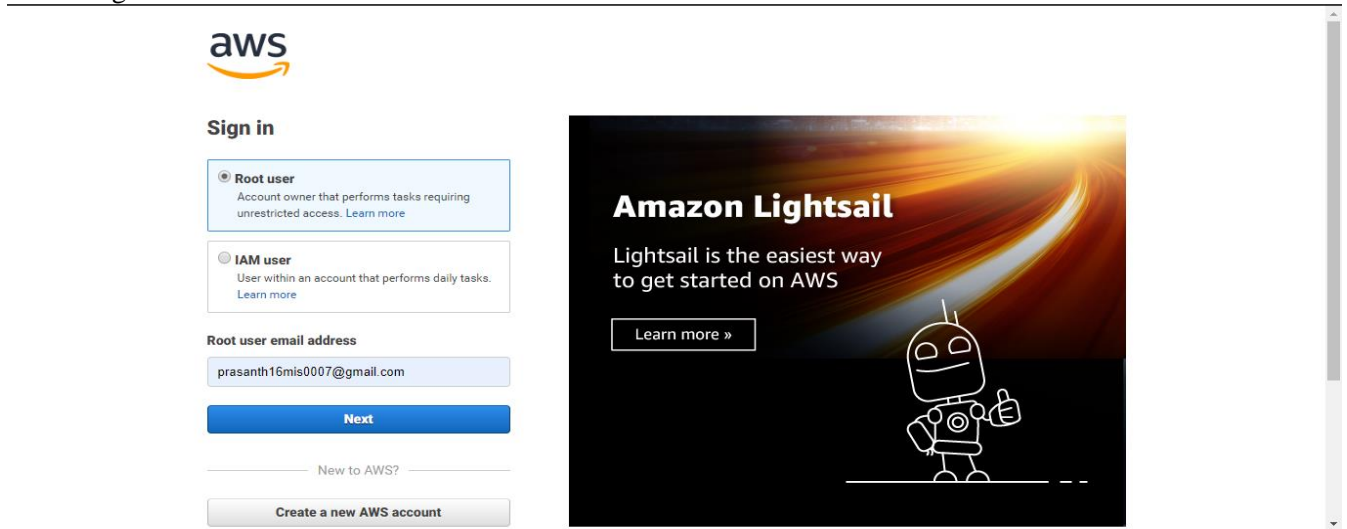
Name: R Prasanth

University: Vellore Institute of Technology, Vellore.

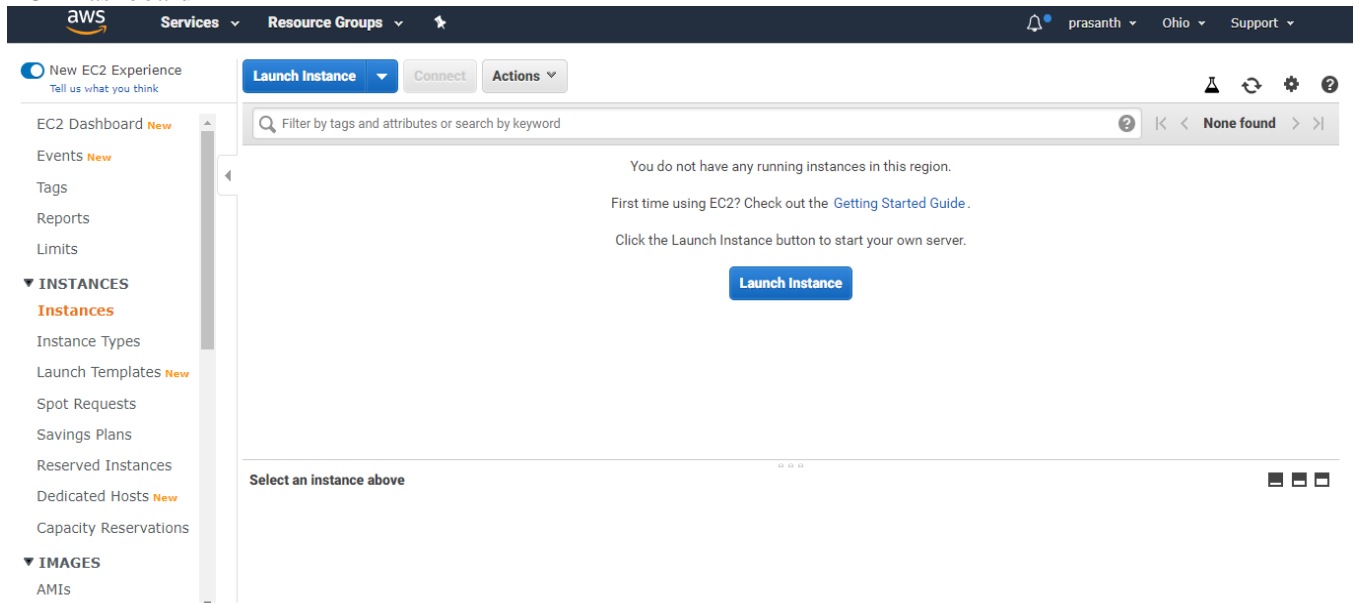
Course: AWS by ETHNUS

Screenshots needed for Dashboards:

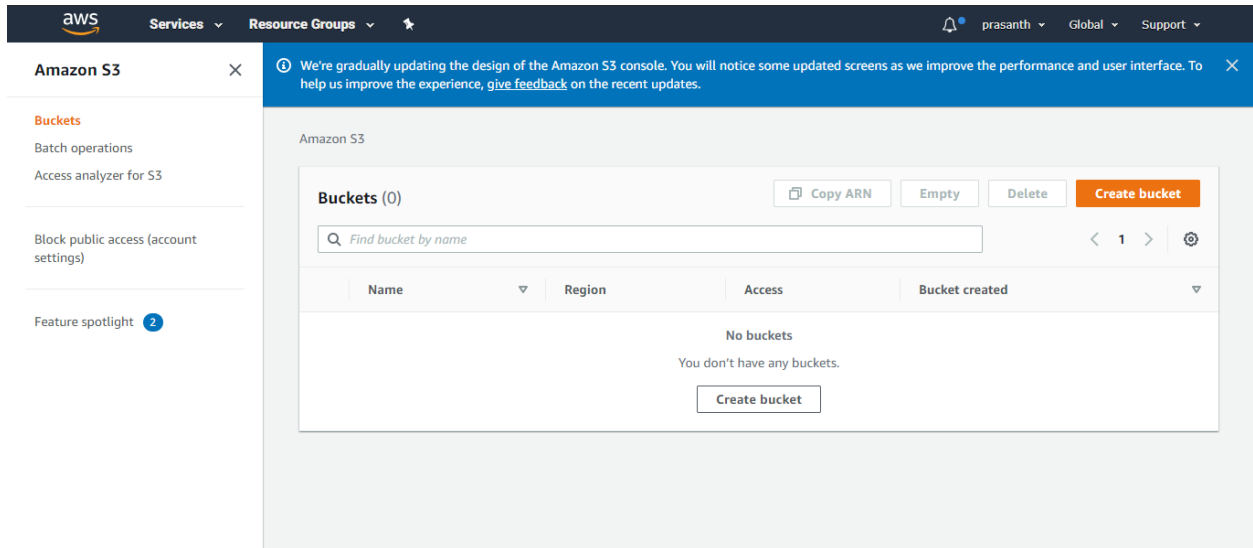
AWS Login screen with username



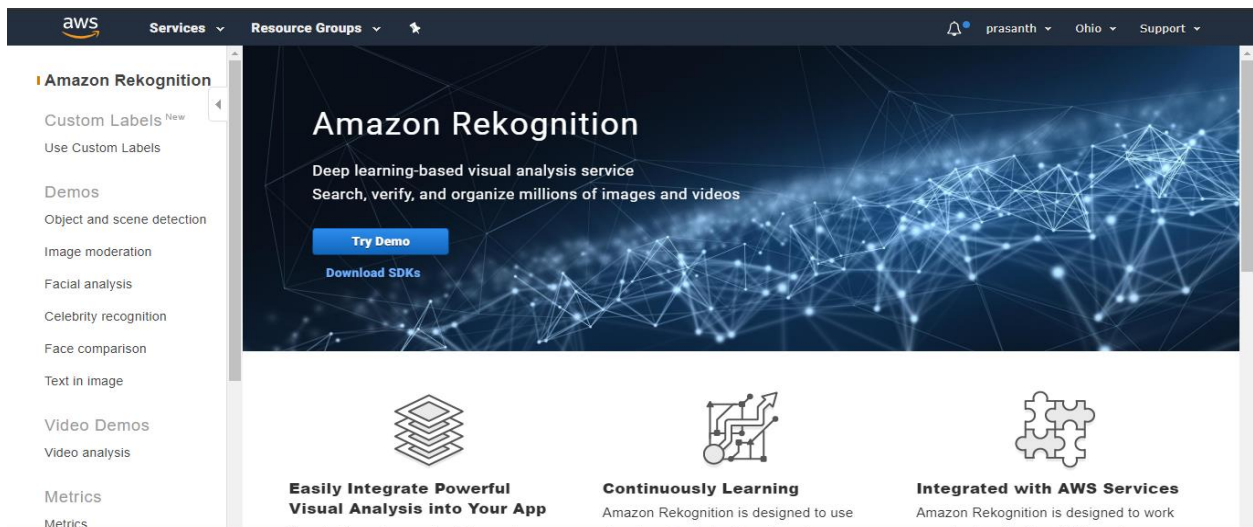
EC2 Dashboard



S3 Dashboard

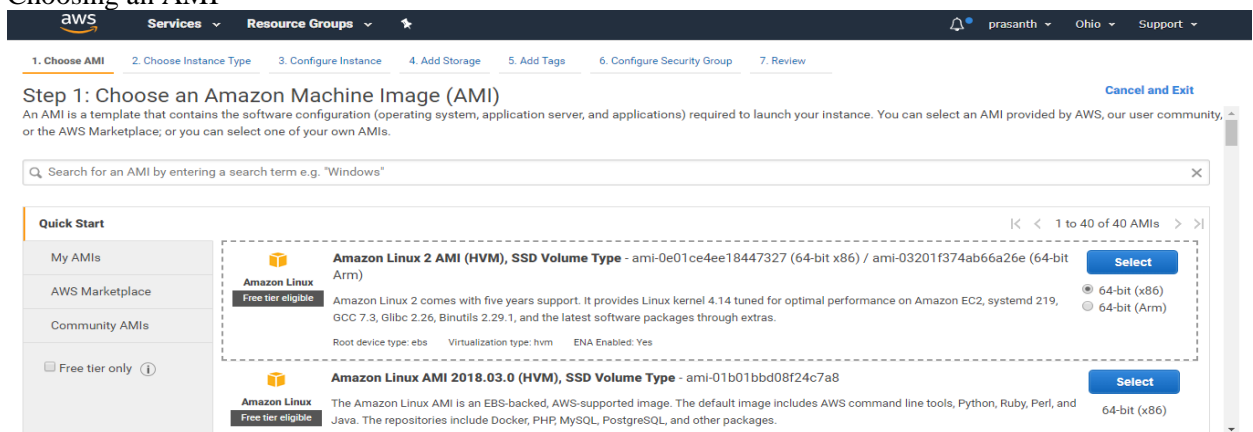


Rekognition Dashboard:



Screenshots needed for EC2

Choosing an AMI



Choosing an Instance Type

aws

Services

Resource Groups

prasanth

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](#)

Adding Storage

aws

Services

Resource Groups

prasanth

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 | 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](#)

Configuring Security Group

aws

Services

Resource Groups

prasanth

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 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

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

[Add Rule](#)

Warning

[Cancel](#) [Previous](#) [Review and Launch](#)

Key Pair Download

Select an existing key pair or create a new key pair ✕


A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair name
aws-prasanth

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

Logged in EC2 black screen

```
ec2-user@ip-172-31-40-71:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Last login: Thu Apr  2 05:27:24 2020 from 59.93.20.234  
  
  _ | _ | _ )  
  _ | ( _ - /   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-172-31-40-71 ~]$ sudo yum install httpd  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core | 2.4 kB 00:00  
Package httpd-2.4.41-1.amzn2.0.1.x86_64 already installed and latest version  
Nothing to do  
[ec2-user@ip-172-31-40-71 ~]$
```

```
ec2-user@ip-172-31-40-71:~  
[ec2-user@ip-172-31-40-71 ~]$ sudo service httpd start  
Redirecting to /bin/systemctl start httpd.service  
[ec2-user@ip-172-31-40-71 ~]$ sudo service httpd status  
Redirecting to /bin/systemctl status httpd.service  
● httpd.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor prese  
t: disabled)  
   Active: active (running) since Thu 2020-04-02 05:28:22 UTC; 25min ago  
     Docs: man:httpd.service(8)  
  Main PID: 3644 (httpd)  
    Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes se  
rved/sec:  0 B/sec"  
    CGroup: /system.slice/httpd.service  
            └─3644 /usr/sbin/httpd -DFOREGROUND  
              └─3645 /usr/sbin/httpd -DFOREGROUND  
                └─3646 /usr/sbin/httpd -DFOREGROUND  
                  └─3647 /usr/sbin/httpd -DFOREGROUND  
                    └─3648 /usr/sbin/httpd -DFOREGROUND  
                      └─3649 /usr/sbin/httpd -DFOREGROUND  
  
Apr 02 05:28:22 ip-172-31-40-71.us-east-2.compute.internal systemd[1]: Starti...  
Apr 02 05:28:22 ip-172-31-40-71.us-east-2.compute.internal systemd[1]: Starte...  
Hint: Some lines were ellipsized, use -l to show in full.  
[ec2-user@ip-172-31-40-71 ~]$
```

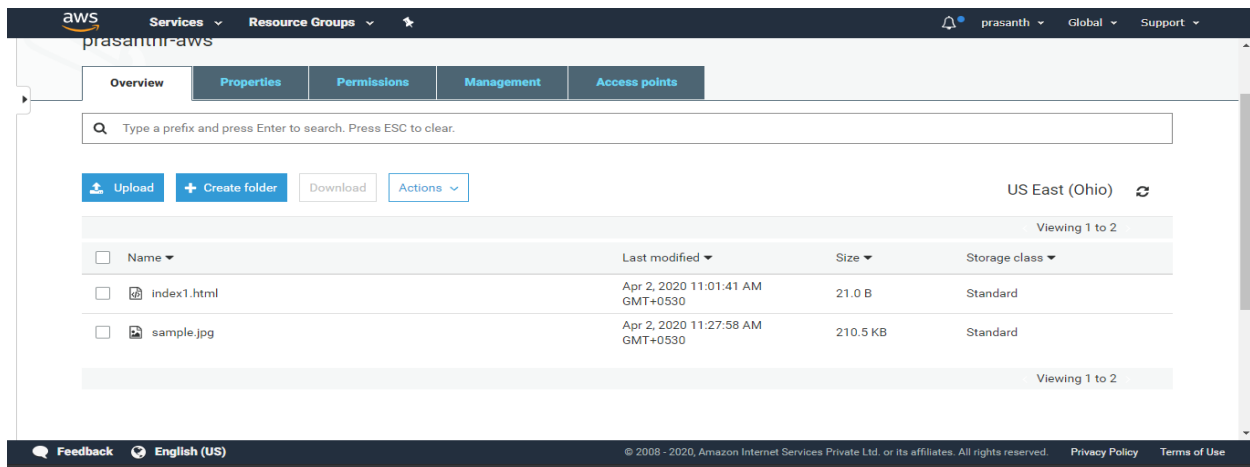
Screenshots needed for S3

Creating a bucket

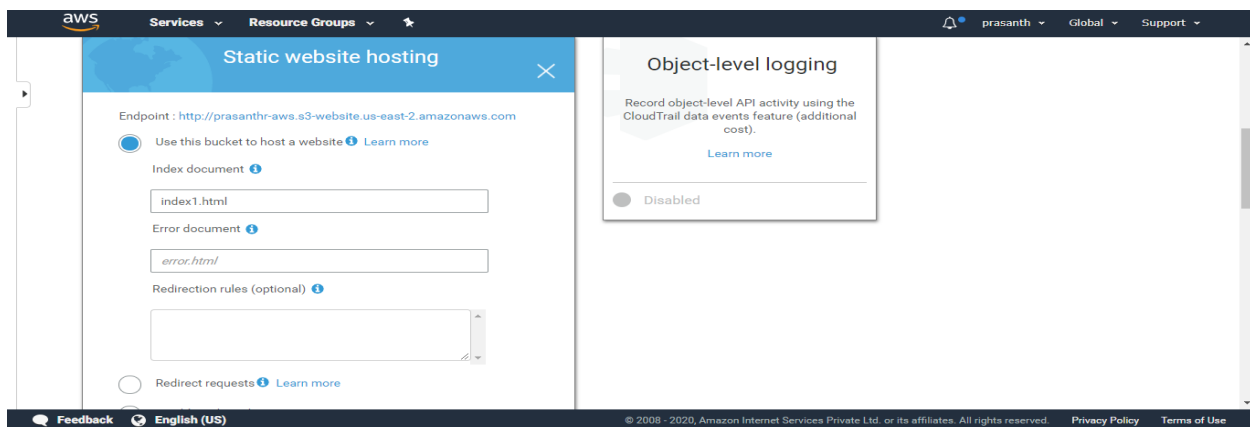
The screenshot shows the Amazon S3 console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and user information. A blue banner at the top of the console area contains a message about updates. On the left, a sidebar menu lists 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area is titled 'Amazon S3' and shows a 'Buckets (2)' section. It includes a search bar, a 'Find bucket by name' input, and a table with two buckets. The table has columns for Name, Region, Access, and Bucket created. Both buckets are named 'prasanth-aws' and are located in 'US East (Ohio) us-east-2' with public access.

| Name | Region | Access | Bucket created |
|--------------|--------------------------|-----------------------|--------------------------|
| prasanth-aws | US East (Ohio) us-east-2 | Objects can be public | 2020-04-01T14:39:57.000Z |
| prasanth-aws | US East (Ohio) us-east-2 | Objects can be public | 2020-04-02T05:31:11.000Z |

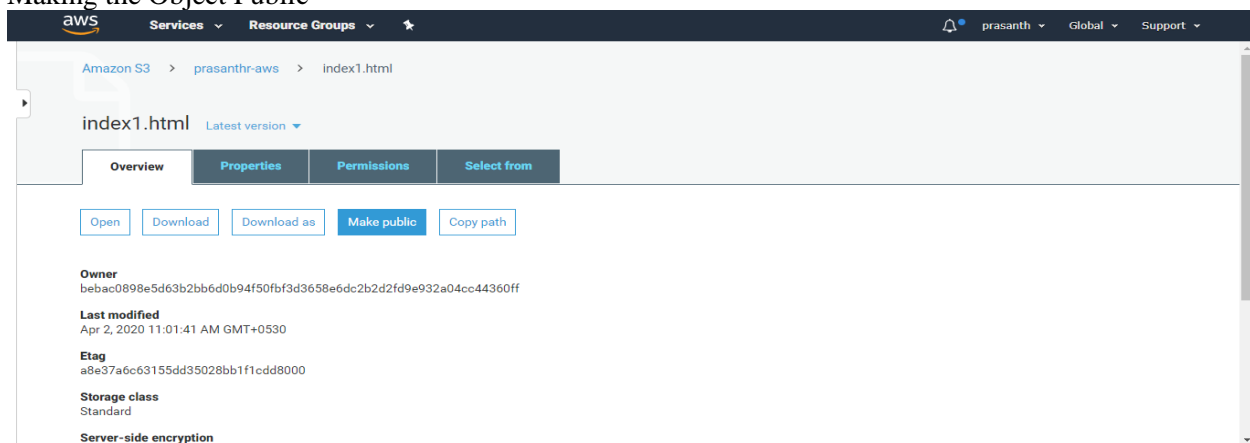
Uploading an Object



Enabling Static Website



Making the Object Public



Checking the S3 link on the browser

Hi Hello Prasanth R

Screenshots needed for Rekognition

Face Detect

aws Services Resource Groups

prasanth 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

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 % |

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Face Compare

aws Services Resource Groups

prasanth 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

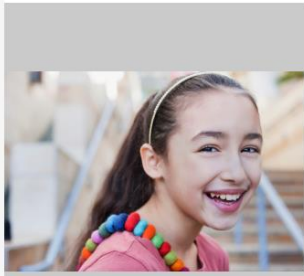
Video Demos

Video analysis


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 %

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Celebrity Recognition

aws Services Resource Groups

prasanth Ohio Support

Amazon Rekognition

Custom Labels New

Use Custom Labels

Demos

Object and scene detection

Image moderation

Facial analysis

Celebrity recognition

Face comparison

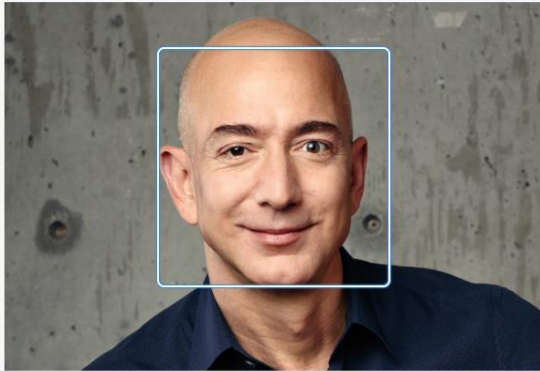
Text in image

Video Demos

Video analysis

Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.



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

Results

Jeff Bezos [Learn More](#)

Match confidence 100 %

Request

Response

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Text in Image

The screenshot shows the Amazon Rekognition 'Text in image' demo. On the left is a navigation menu with options like 'Amazon Rekognition', 'Custom Labels', 'Demos', and 'Text in image' (which is selected). The main area displays an image of a coffee cup with a smiley face and the text 'IT'S MONDAY but keep Smiling'. To the right, the 'Results' section shows the detected text: 'IT'S', 'MONDAY', 'but keep', and 'Smiling'. The interface includes an AWS header with the user's name 'prasanth' and a footer with 'Feedback', 'English (US)', and copyright information.

Screenshots needed for EC2 & S3

Installing aws-sdk

```
ec2-user@ip-172-31-40-71:/var/www/html/face
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Generating autoload files
[ec2-user@ip-172-31-40-71 face]$
[ec2-user@ip-172-31-40-71 face]$ sudo vim index.php
[ec2-user@ip-172-31-40-71 face]$ sudo php index.php
Image upload done... Here is the URL: https://prasanth-aws.s3.us-east-2.amazonaws.com/sample.jpg
Totally there are 9 faces[ec2-user@ip-172-31-40-71 face]$ sudo vim index.php
[ec2-user@ip-172-31-40-71 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 updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Generating autoload files
[ec2-user@ip-172-31-40-71 face]$
```

Installing php

```
ec2-user@ip-172-31-40-71:~
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Thu 2020-04-02 05:28:22 UTC; 25min ago
     Docs: man:httpd.service(8)
   Main PID: 3644 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
   CGroup: /system.slice/httpd.service
           └─3644 /usr/sbin/httpd -DFOREGROUND
             └─3645 /usr/sbin/httpd -DFOREGROUND
               └─3646 /usr/sbin/httpd -DFOREGROUND
                 └─3647 /usr/sbin/httpd -DFOREGROUND
                   └─3648 /usr/sbin/httpd -DFOREGROUND
                     └─3649 /usr/sbin/httpd -DFOREGROUND

Apr 02 05:28:22 ip-172-31-40-71.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server: httpd...
Apr 02 05:28:22 ip-172-31-40-71.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server: httpd...
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-40-71 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-40-71 ~]$
```



```
ec2-user@ip-172-31-40-71:~  
CGroup: /system.slice/httpd.service  
├─3644 /usr/sbin/httpd -DFOREGROUND  
├─3645 /usr/sbin/httpd -DFOREGROUND  
├─3646 /usr/sbin/httpd -DFOREGROUND  
├─3647 /usr/sbin/httpd -DFOREGROUND  
├─3648 /usr/sbin/httpd -DFOREGROUND  
└─3649 /usr/sbin/httpd -DFOREGROUND  
  
Apr 02 05:28:22 ip-172-31-40-71.us-east-2.compute.internal systemd[1]: Starti...  
Apr 02 05:28:22 ip-172-31-40-71.us-east-2.compute.internal systemd[1]: Starte...  
Hint: Some lines were ellipsized, use -l to show in full.  
[ec2-user@ip-172-31-40-71 ~]$ sudo yum install php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version  
Nothing to do  
[ec2-user@ip-172-31-40-71 ~]$ curl -sS https://getcomposer.org/installer | php  
All settings correct for using Composer  
Downloading...  
  
Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.phar  
Use it: php composer.phar  
  
[ec2-user@ip-172-31-40-71 ~]$
```

index.php file code

```
ec2-user@ip-172-31-40-71:/var/www/html/face  
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 = 'prasanthr-aws';  
$keyname = 'sample.jpg';  
  
$s3 = S3Client::factory([
```

Screenshots needed for EC2 & Rekognition

1. Face Detect success screenshot

```
ec2-user@ip-172-31-40-71:/var/www/html/face  
All settings correct for using Composer  
Downloading...  
  
Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.phar  
Use it: php composer.phar  
  
[ec2-user@ip-172-31-40-71 ~]$ cd /var/www/html/face  
[ec2-user@ip-172-31-40-71 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 updated  
Loading composer repositories with package information  
Updating dependencies (including require-dev)  
Nothing to install or update  
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.  
Generating autoload files  
[ec2-user@ip-172-31-40-71 face]$  
[ec2-user@ip-172-31-40-71 face]$ sudo vim index.php  
[ec2-user@ip-172-31-40-71 face]$ sudo php index.php  
Image upload done... Here is the URL: https://prasanthr-aws.s3.us-east-2.amazonaws.com/sample.jpg  
Totally there are 9 faces[ec2-user@ip-172-31-40-71 face]$
```