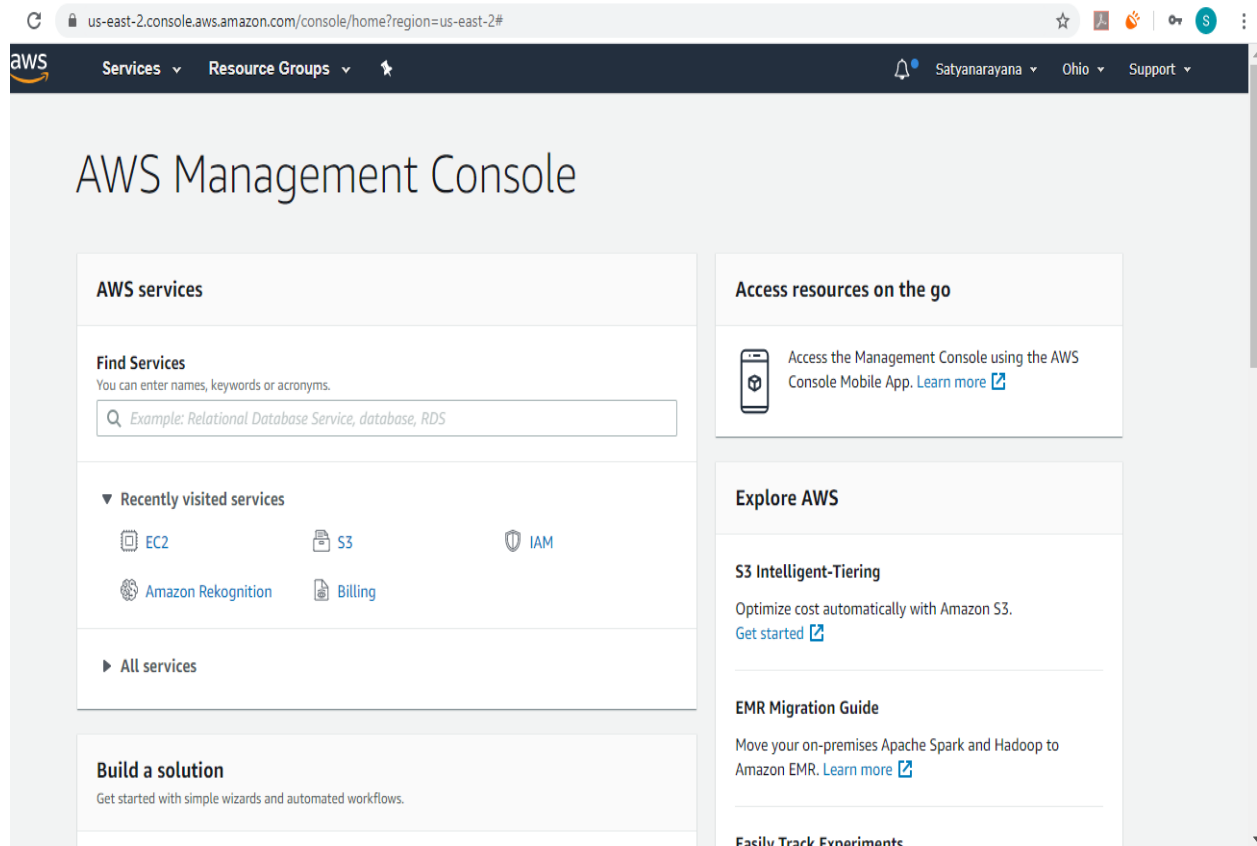


Name: Savarnika Chitti

Clg: Vellore Institute of Technology

Screenshots for Dasboard

1. AWS login screen with username



2. EC2 Dashboard

Launch Instance
Connect
Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status
	i-0e594d882a553b1dc	t2.micro	us-east-2b	running	2/2 checks ...	None

Instance: i-0e594d882a553b1dc
Public DNS: ec2-3-21-245-166.us-east-2.compute.amazonaws.com

Description
Status Checks
Monitoring
Tags

Instance ID	i-0e594d882a553b1dc	Public DNS (IPv4)	ec2-3-21-245-166.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	3.21.245.166
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for	Elastic IPs	

3. S3 Dashboard

s3.console.aws.amazon.com/s3/home?region=us-east-2

aws
Services
Resource Groups
Satanararyana
Global
Support

amazon S3
We're gradually updating the design of the Amazon S3 console. You will notice some updated screens as we improve the performance and user interface. To help us improve the experience, give feedback on the recent updates.

buckets
attach operations
access analyzer for S3
lock public access (account settings)
feature spotlight

Buckets (1)
Copy ARN
Empty
Delete
Create bucket

Find bucket by name
1

Name	Region	Access	Bucket created
savarnika-bucket	US East (Ohio) us-east-2	Objects can be public	2020-03-27T15:52:18.000Z

← → ↻ s3.console.aws.amazon.com/s3/buckets/savarnika-bucket/?region=us-east-2 🔍 ☆ 🧑🏽 🧑🏽 🔥 🔒

aws Services Resource Groups Satyanarayana Global Support

Amazon S3 > savarnika-bucket

savarnika-bucket

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 4

<input type="checkbox"/> Name ▾	Last modified ▾	Size ▾	Storage class ▾
<input type="checkbox"/> 📄 sample.jpg	Apr 4, 2020 11:10:54 AM GMT+0530	210.5 KB	Standard
<input type="checkbox"/> 📄 savi.html	Mar 27, 2020 9:27:10 PM GMT+0530	57.0 B	Standard
<input type="checkbox"/> 📄 savi.jpg	Mar 31, 2020 8:05:50 PM GMT+0530	42.9 KB	Standard
<input type="checkbox"/> 📄 savi1.jpg	Mar 31, 2020 6:57:35 PM GMT+0530	112.3 KB	Standard

Viewing 1 to 4

4. Rekognition Dashboard

← → ↻ us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2/ ☆ 🧑🏽 🧑🏽 🔥 🔒

aws Services Resource Groups Satyanarayana 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


Amazon Rekognition

Deep learning-based visual analysis service
Search, verify, and organize millions of images and videos


[Try Demo](#)
[Download SDKs](#)



Easily Integrate Powerful Visual Analysis into Your App
You don't need computer vision or deep learning expertise to take advantage of



Continuously Learning
Amazon Rekognition is designed to use deep learning technology to analyze billions of images and videos daily. It is



Integrated with AWS Services
Amazon Rekognition is designed to work seamlessly with other AWS services. Rekognition integrates directly with Amazon

>> Screenshots for EC2

1. Choosing an AMI

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

1 to 40 of 40 AMIs

My AMIs

AWS Marketplace

Community AMIs



Amazon Linux

Free tier eligible

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

64-bit (x86)
64-bit (Arm)

2. Choosing an Instance type

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

3. Adding Storage

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.

4. Configure Security group

AWS
Services
Resource Groups
Satyanarayana
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

[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

I did not take the screenshot while downloading I can provide the image while using the ppk file

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](#).

Choose an existing key pair

Select a key pair

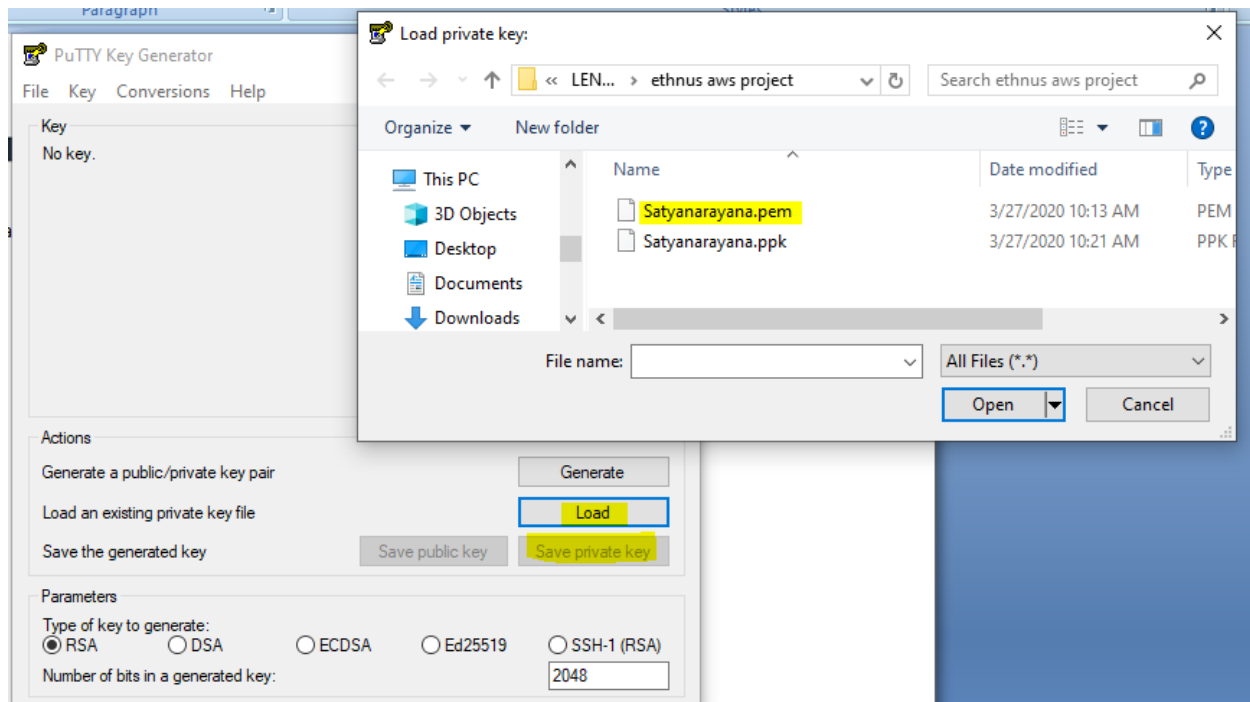
Satyanarayana

☐ I acknowledge that I have access to the selected private key file (Satyanarayana.pem), and that without this file, I won't be able to log into my instance.

Cancel

Launch Instances

6. PuTTYgen conversion from pem to ppk



7. Logged in EC2 black screen

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"

  _ | _ | _ )
  _ | ( _ | / 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.
```

>>Screenshots for S3

1. Creating a bucket

Create bucket

General configuration

Bucket name

savarnika-bucket

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

Region

US East (Ohio) us-east-2

Bucket settings for Block Public Access

2. Uploading an Object

1 Select files

2 Set permissions


3 Set properties

4 Review

1 Files Size: 57.0 B Target path: savarnika-bucket

To upload a file larger than 160 GB, use the AWS CLI, AWS SDK, or Amazon S3 REST API. [Learn more](#)

+ Add more files



savi.html

- 57.0 B

×

Upload

Next

Upload

×

✓ Select files

2 Set permissions

3 Set properties

4 Review

Manage users

User ID ⓘ	Objects ⓘ	Object permissions ⓘ	
seshuchitti2(Owner)	<input checked="" type="checkbox"/> Read	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> 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.

Do not grant public read access to this object(s) (Recommended) ▾

Upload

Previous

Next

Upload

Select files

Set permissions

3Set properties

4Review

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 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
<input type="radio"/> Glacier	Archive data with retrieval times ranging from minutes to hours	≥ 3	90 days	40KB	-	Per-GB fees apply

Upload

PreviousNext

English (US)© 2008 – 2020 Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.Privacy

Upload

Select files

Set permissions

Set properties

4Review

Files

Edit

1 FilesSize: 57.0 B

Permissions

Edit

1 grantees

Properties

Edit

Encryption

No

Storage class

Standard

Metadata

Tag

Previous

Upload

← → ↻ s3.console.aws.amazon.com/s3/buckets/savarnika-bucket/?region=us-east-2 ☆ ⓘ ⓘ

aws Services ▾ Resource Groups ▾ ⭐

🔔 Satyanarayana ▾ Global ▾ Support ▾

Amazon S3 > savarnika-bucket

savarnika-bucket

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 1

<input type="checkbox"/>	Name ▾	Last modified ▾	Size ▾	Storage class ▾
<input type="checkbox"/>	📄 savi.html	Mar 27, 2020 9:27:10 PM GMT+0530	57.0 B	Standard

Viewing 1 to 1

Operations 0 In progress 1 Success 0 Error

3. Enabling Static Website

Static website hosting

Endpoint : <http://savarnika-bucket.s3-website.us-east-2.amazonaws.com>

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

Index document [i](#)

savi.html

Error document [i](#)

error.html

Redirection rules (optional) [i](#)

☐ Redirect requests [Learn more](#)

☐ Disable website hosting

☒ Disabled

Cancel Save

4. Making object public

savi.html Latest version ▾

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

Owner
7eb7593fe9b8b953ed162fd416197bb5912bd72209209635f5cbffd26fb068e1

Last modified
Mar 27, 2020 9:27:10 PM GMT+0530

Etag
0249c0aa1dc9827a3d8033e4ab462989

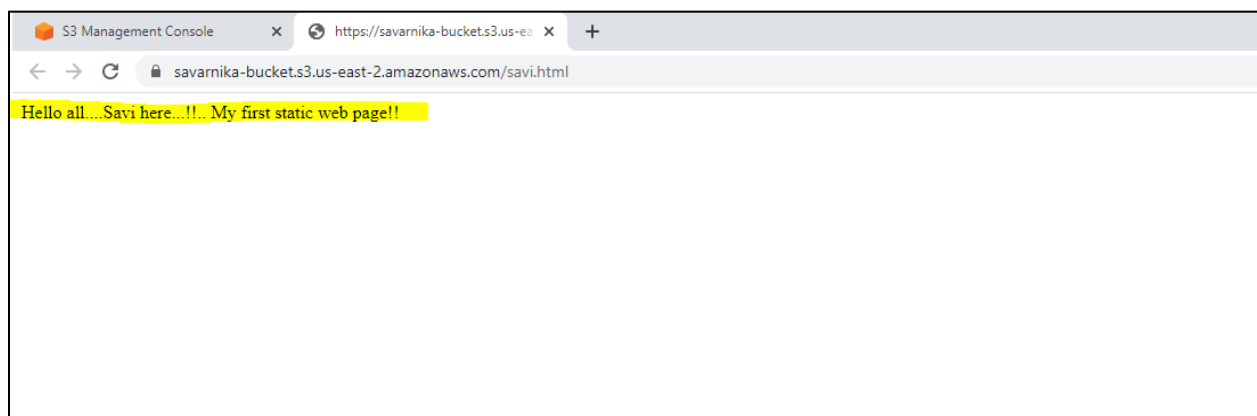
Storage class
Standard

Server-side encryption
None

Size
57.0 B

Key
savi.html

5. Checking the S3 link on the browser




>>Screenshots for Rekognition


1. Face detect

Object and scene detection

Rekognition automatically labels objects, concepts and scenes in your images, and provides a confidence score.



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.

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

▼ Results

Person	99.8 %
Human	99.8 %
Bicycle	99.8 %
Bike	99.8 %
Transportation	99.8 %
Vehicle	99.8 %

[Show more](#)


► Request

2. Face Compare


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		99.7 %
	⊥	
	⊥	
	⊥	
	⊥	

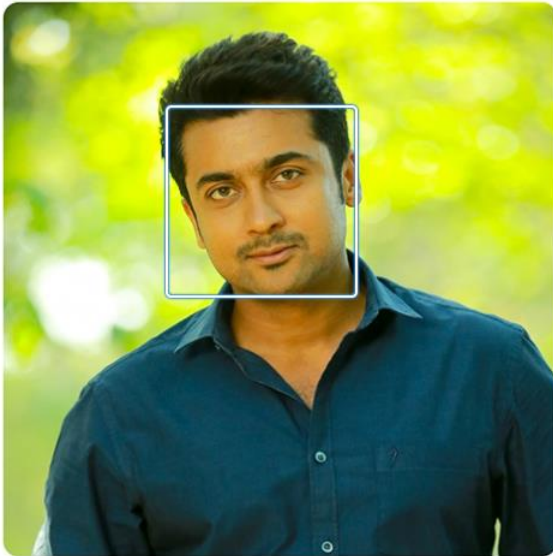
► Request

► Response

3. Celebrity Recognition

Celebrity recognition

Rekognition automatically recognizes celebrities in images and provides confidence scores.



Done with the demo?

[Learn more](#)

▼ Results



Suriya

[Learn More](#)

Match confidence

100 %

► Request

► Response

4. Text in image

Text in image

Rekognition automatically detects and extracts text in your images. [Learn More](#)



Done with the demo?

[Learn more](#)

▼ Results

US English only

Happy	Sunday		
Start	the	day	
right	with	a	smile!
Good	morning		
everyone.			
LoveThisPic.com			

► Request

► Response

>>Screenshots for EC2 and S3

1. Installing aws-sdk

```
[ec2-user@ip-172-31-0-194 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 you have installed, Guzzle 3, is deprecated.)
aws/aws-sdk-php suggests installing doctrines/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
```

2. Installing php

```
[ec2-user@ip-172-31-0-194 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
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-common-5.4.16-46.amzn2.0.2.x86_64.rpm                   | 563 kB  00:00:00
(4/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm                      | 2.8 MB  00:00:00
-----
Total                               15 MB/s | 4.7 MB  00:00:00
Running transaction check
```

3. index.php file code

```

<?php
error_reporting(0);

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

use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;
$bucket = 'savarnika-bucket';
$keyname = 'savi.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;
}

```

"index.php" 32L, 717C

4. Upload success screenshot

```

(ec2-user@ip-172-31-19-136 face)$ sudo php index.php
Image upload done... Here is the URL: https://savarnika-bucket.s3.us-east-2.amazonaws.com/savi.jpg(ec2-user@ip-172-31-19-136 face)$

```

>>Screenshots for EC2 and Rekognition

1.Faces detect success Screenshot

```
[ec2-user@ip-172-31-36-96 face]$ sudo php index.php
Image upload done... Here is the URL: https://savarnika-bucket.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9  faces[ec2-user@ip-172-31-36-96 face]$
[ec2-user@ip-172-31-36-96 face]$
```