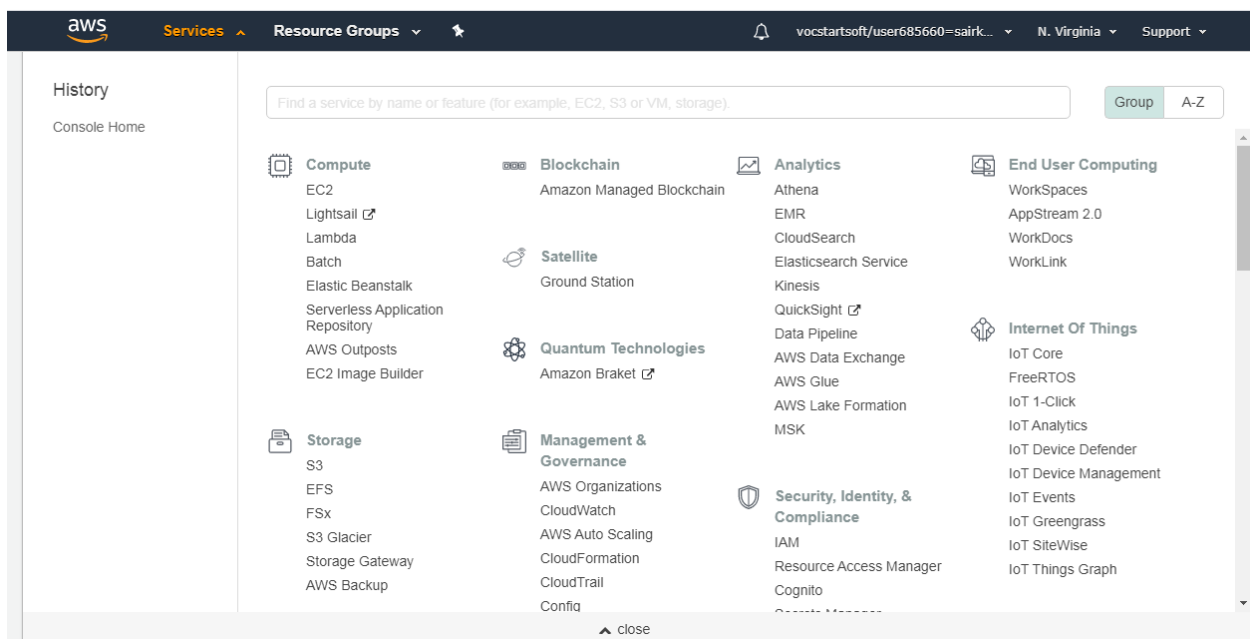
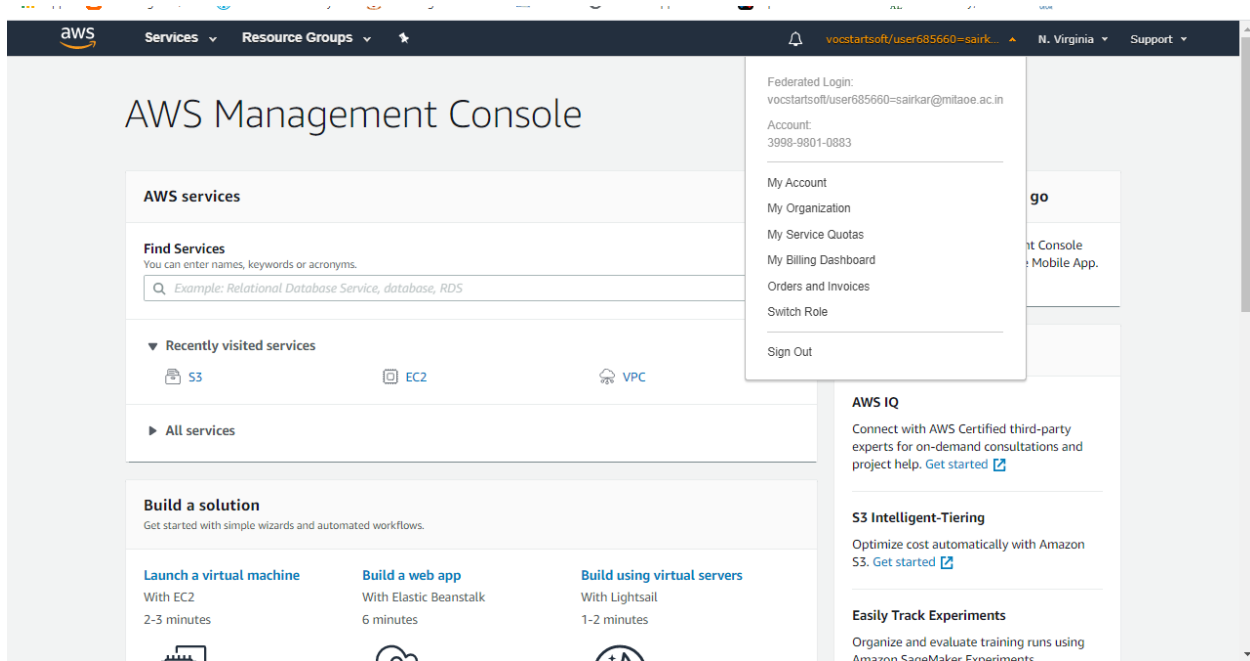


# AWS Project

Used AWS Educate account

Dashboard screenshot:

Aws login screen:



## EC 2Dashboard

The screenshot displays the AWS Management Console for the EC2 service. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile. A blue banner at the top right welcomes users to the new EC2 console. The left sidebar lists navigation options like 'EC2 Dashboard', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES', 'IMAGES', and 'ELASTIC BLOCK STORE'. The main content area, titled 'EC2', shows a 'Resources' section with a table of usage in the US East (N. Virginia) Region. To the right, there are sections for 'Account attributes' and 'Additional information'.

Resources	
You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:	
Running instances	0
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	0
Load balancers	0
Key pairs	0
Security groups	1
Placement groups	0

**Account attributes**

- Supported platforms
  - VPC
- Default VPC
  - vpc-abd0d7d1
- Console experiments
- Settings

**Additional information**

**Feature Spotlight:** Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

## S3 dashboard

The screenshot shows the AWS Management Console for the S3 service. The top navigation bar is consistent with the EC2 dashboard. A blue banner at the top right informs users about updates to the S3 console. The left sidebar lists navigation options like 'Amazon S3', 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main content area, titled 'Amazon S3', shows a 'Buckets (0)' section with a search bar and a table. Since there are no buckets, a message states 'No buckets. You don't have any buckets.' with a 'Create bucket' button.

Name	Region	Access	Bucket created
No buckets You don't have any buckets. <a href="#">Create bucket</a>			

## Recognition dashboard:

The screenshot shows the Amazon Rekognition dashboard. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar lists various features like 'Custom Labels', 'Demos', and 'Metrics'. The main content area has a large header with the text 'Amazon Rekognition' and 'Deep learning-based visual analysis service'. Below this, there are three columns of information: 'Easily Integrate Powerful Visual Analysis into Your App', 'Continuously Learning', and 'Integrated with AWS Services'. Each column includes an icon and a brief description of the service's capabilities.

## Choosing an AMI:

The screenshot shows the 'Step 1: Choose an Amazon Machine Image (AMI)' page in the AWS console. The page has a search bar at the top with the text 'Search for an AMI by entering a search term e.g. "Windows"'. Below the search bar, there is a 'Quick Start' section with a list of AMIs. The first AMI is 'Amazon Linux 2 AMI (HVM), SSD Volume Type' with a 'Free tier eligible' badge. The second AMI is 'Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type' with a 'Free tier eligible' badge. The page also includes a 'Cancel and Exit' button in the top right corner and a footer with 'Feedback', 'English (US)', and copyright information.

## Choosing instance type:

aws

Services

Resource Groups

🔔

vocstartsoft/user685660=sairk...

N. Virginia

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

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

Feedback

English (US)

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## Adding Storage:

aws

Services

Resource Groups

🔔

vocstartsoft/user685660=sairk...

N. Virginia

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-0e27a39c6e2f9f079	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](#)

Feedback

English (US)

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## Configure security group:

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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## Key pair download:

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 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**Improve your instances' security**

Your instances may be accessible from anywhere on the Internet. You can also open additional ports in your security groups.

**AMI Details**

Amazon Linux 2 AMI (HVM), SSD Volume Type

Free tier eligible

Amazon Linux 2 comes with five years support and security updates through extras.

Root Device Type: ebs Virtualization type: hvm

**Instance Type**

Instance Type	ECUs	vCPUs
t2.micro	Variable	1

**Security Groups**

Security group name: launch-wizard-1

**Network Performance**

Low to Moderate

Cancel Previous **Launch**

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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

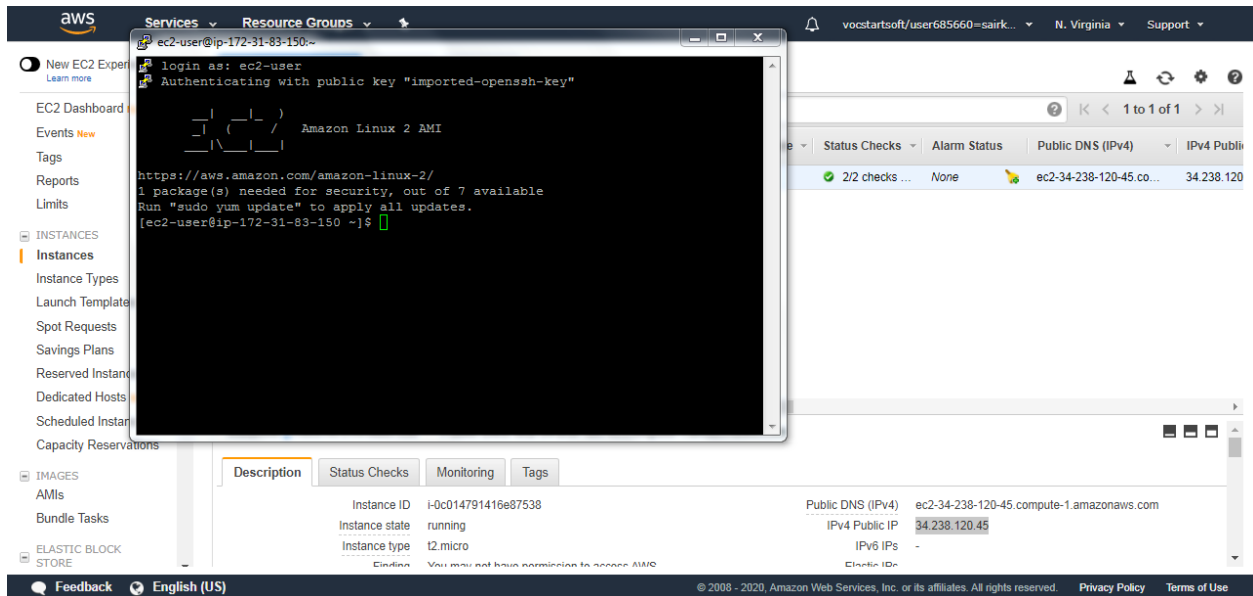
aws-webinar

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.

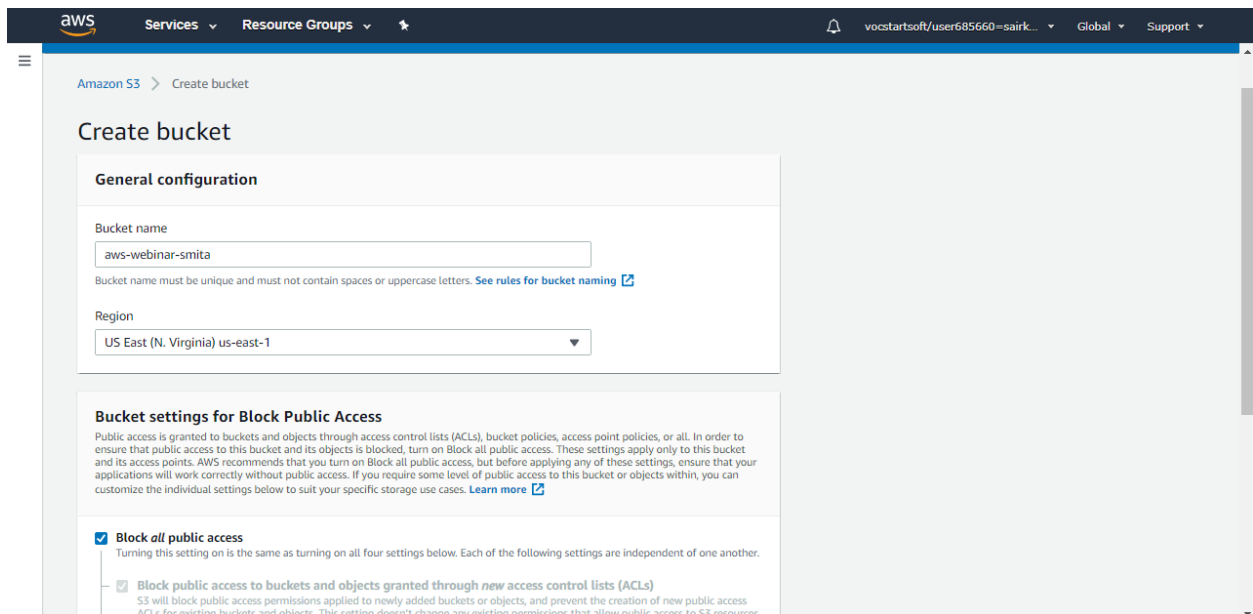
Cancel **Launch Instances**

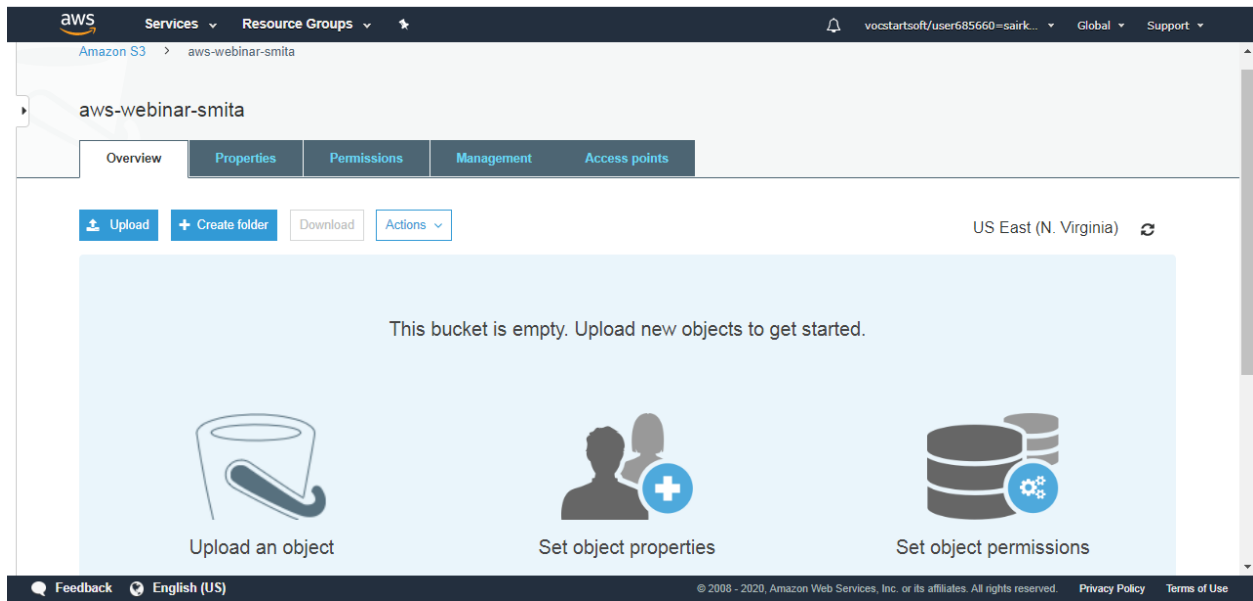
## Login in EC2:



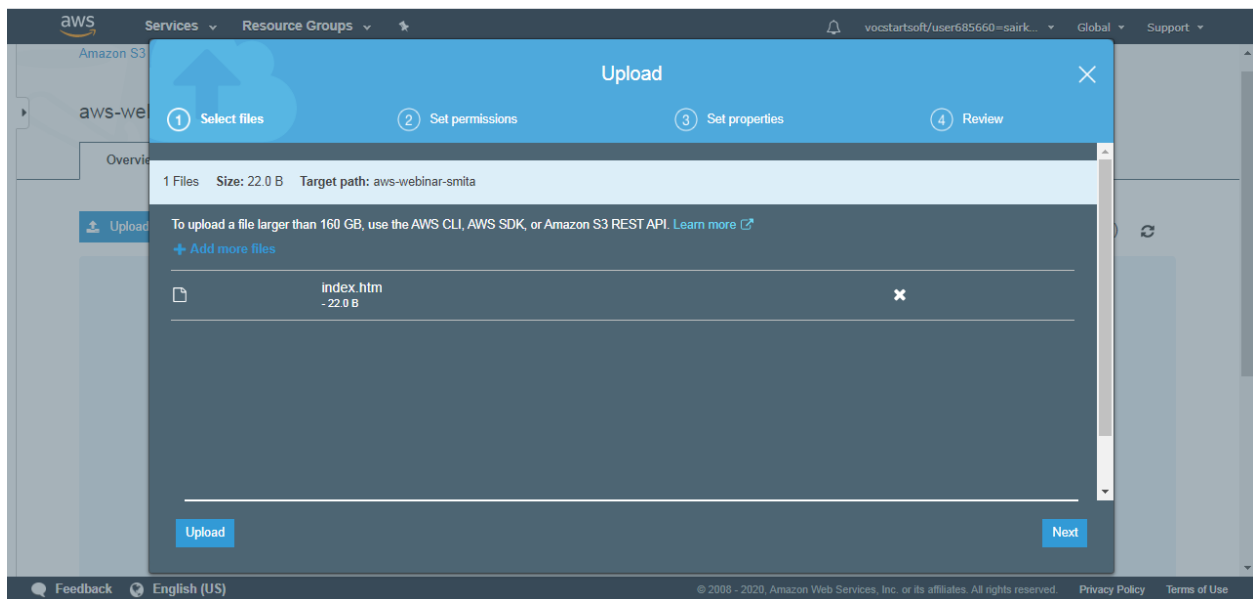
## Screenshot for s3

## Creating bucket





## Upload an object:



aws Services Resource Groups

Amazon S3 > aws-webinar-smita

aws-webinar-smita

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 (N. Virginia)

Viewing 1 to 1

Name	Last modified	Size	Storage class
<input type="checkbox"/> index.htm	Apr 1, 2020 2:32:48 PM GMT+0530	22.0 B	Standard

Viewing 1 to 1

Operations 0 In progress 1 Success 0 Error

Feedback English (US)

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## Enable static website:

aws Services Resource Groups

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

Endpoint : <http://aws-webinar-smita.s3-website-us-east-1.amazonaws.com>

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

Index document [i](#)

index.html

Error document [i](#)

error.html

Redirection rules (optional) [i](#)

☐ Redirect requests [Learn more](#)

☐ Disable website hosting

Operations 0 In progress 1 Success 0 Error



## Give public access:

The screenshot shows the AWS Management Console interface for a bucket named 'aws-webinar-smita'. The 'Access points' tab is selected, and the 'Block public access' button is highlighted. Below this, a modal window titled 'Block public access (bucket settings)' is open. It contains a section 'Block all public access' with a checkbox and a description: 'Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.' Below this are four checkboxes, all of which are currently unchecked:

- ☐ 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.

At the bottom of the modal are 'Cancel' and 'Save' buttons. Below the modal, a status bar shows 'Operations' with '0 In progress', '1 Success', and '0 Error'.

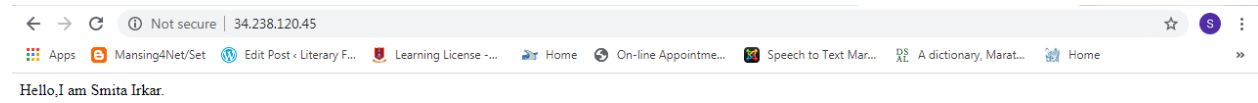
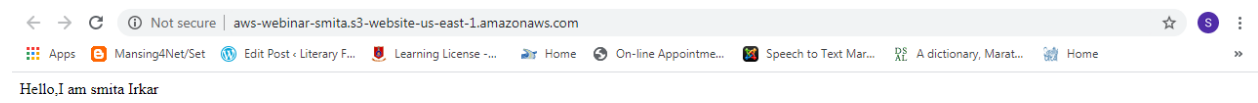
## Make public

The screenshot shows the AWS Management Console interface for the 'index.html' object in the 'aws-webinar-smita' bucket. The 'Properties' tab is selected. At the top, there are buttons for 'Open', 'Download', 'Download as', 'Make public', and 'Copy path'. Below these, the object's metadata is displayed:

- Owner:** aws:labs:0w691264t1585721528
- Last modified:** Apr 1, 2020 2:32:48 PM GMT+0530
- Etag:** 03bae8563983ce65f05a350167e6a205
- Storage class:** Standard
- Server-side encryption:** None
- Size:** 22.0 B

At the bottom, a status bar shows 'Operations' with '0 In progress', '2 Success', and '0 Error'. The footer includes a 'Feedback' button, 'English (US)' language selection, and copyright information: '© 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

## Creating s3 link on browser:



## Recognition screenshot:

## Face detect:

The screenshot shows the Amazon Rekognition console's 'Facial analysis' page. The left sidebar contains a navigation menu with options like 'Custom Labels', 'Demos', 'Object and scene detection', 'Image moderation', 'Facial analysis' (highlighted), 'Celebrity recognition', 'Face comparison', 'Text in image', 'Video Demos', 'Video analysis', 'Metrics', and 'Additional Resources'. The main content area is titled 'Facial analysis' and includes a large image of a family with three faces detected and boxed. Below this image are two sections: 'Choose a sample image' with a gallery of three images, and 'Use your own image' with an 'Upload' button and a note that images must be in .jpg or .png format and no larger than 5MB. On the right, a 'Results' panel lists various attributes and their confidence scores.

Attribute	Confidence Score
looks like a face	99.9 %
appears to be male	99.4 %
age range	22 - 34 years old
smiling	99.9 %
appears to be happy	99.7 %
not wearing glasses	99.6 %

## Face compare:

The screenshot shows the Amazon Rekognition console's 'Face comparison' page. The left sidebar is identical to the previous screenshot, with 'Face comparison' highlighted. The main content area is titled 'Face comparison' and includes a 'Reference face' section with a large image of a girl and a 'Comparison faces' section with a gallery of three images. Below these are two 'Choose a sample image' sections, each with a gallery of three images. On the right, a 'Results' panel shows three comparison results, each with a similarity percentage and a visual representation of the faces being compared.

Comparison	Similarity
Reference face vs. Comparison face 1	99.8 %
Reference face vs. Comparison face 2	Not similar
Reference face vs. Comparison face 3	Not similar

## Celebrity Recognition:

The screenshot shows the AWS Rekognition console interface for the Celebrity Recognition demo. The left sidebar lists various services, with 'Celebrity recognition' highlighted. The main content area displays a large image of Jeff Bezos with a bounding box around his face. Below the image, there are options to 'Choose a sample image' or 'Use your own image'. The right sidebar shows the results of the recognition, including a 'Learn more' link, a 'Results' section with a 'Jeff Bezos' entry, and a 'Match confidence' of 100%.

aws Services Resource Groups

Amazon Rekognition

Custom Labels <sup>New</sup>

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

Getting started guide

Feedback English (US)


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### 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

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

## Text in image:

The screenshot shows the AWS Rekognition console interface for the Text in Image demo. The left sidebar lists various services, with 'Text in image' highlighted. The main content area displays a large image of a coffee cup with a smiley face and the text 'IT'S MONDAY but keep Smiling'. Below the image, there are options to 'Choose a sample image' or 'Use your own image'. The right sidebar shows the results of the recognition, including a 'Learn more' link, a 'Results' section with 'US English only' and a list of detected text, and 'Request' and 'Response' sections.

aws Services Resource Groups

Amazon Rekognition

Custom Labels <sup>New</sup>

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

Getting started guide

Feedback English (US)

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### Text in image

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

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

▼ Results US English only

| IT'S |  
| MONDAY |  
| but | keep |  
| Smiling |

► 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

## Installing AWS-SDK:

The screenshot shows the AWS Management Console with a terminal window open on an EC2 instance. The terminal output shows the installation of the AWS SDK for PHP. The package manager (yum) is installing the aws-sdk-php package, which includes various dependencies like symfony/polyfill-mbstring, mtdowling/jmespath.php, guzzlehttp/promises, ralouphie/getallheaders, psr/http-message, guzzlehttp/psr7, and guzzlehttp/guzzle. The installation is successful, and the package is now installed.

```
php
Using version ^3.134 for aws/aws-sdk-php
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 7 installs, 1 update, 0 removals
- Installing symfony/polyfill-mbstring (v1.15.0): Downloading (100%)
- Installing mtdowling/jmespath.php (2.5.0): Downloading (100%)
- Installing guzzlehttp/promises (v1.3.1): Downloading (100%)
- Installing ralouphie/getallheaders (3.0.3): Downloading (100%)
- Installing psr/http-message (1.0.1): Downloading (100%)
- Installing guzzlehttp/psr7 (1.6.1): Downloading (100%)
- Installing guzzlehttp/guzzle (6.5.2): Downloading (100%)
- Updating aws/aws-sdk-php (2.8.31 => 3.134.3): Downloading (100%)
guzzlehttp/psr7 suggests installing zendframework/zend-httpdierrunner (Emit PSR-7 responses)
guzzlehttp/guzzle suggests installing psr/log (Required for using the Log middleware)
guzzlehttp/guzzle suggests installing ext-intl (Required for Internationalized Domain Name (IDN) support)
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/guzzle instead.
Writing lock file
Generating autoload files
1 package you are using is looking for funding.
Use the `composer fund` command to find out more!
[ec2-user@ip-172-31-83-150 face]$
```

Instance ID	Instance state	Instance type	Private DNS	Public DNS (IPv4)	IPV4 Public IP	IPV6 IPs	Elastic IPs	Availability zone
i-0c014791416e87538	running	t2.micro	ip-172-31-83-150.ec2.internal	ec2-34-238-120-45.compute-1.amazonaws.com	34.238.120.45	-	-	us-east-1a

## Installing php:

The screenshot shows the AWS Management Console with a terminal window open on an EC2 instance. The terminal output shows the installation of PHP using yum. The package manager is installing the php.x86\_64 package, which includes various dependencies like php.x86\_64, php.x86\_64, and php.x86\_64. The installation is successful, and the package is now installed.

```
[ec2-user@ip-172-31-83-150 ~]$ yum install php
--bash: Install: command not found
[ec2-user@ip-172-31-83-150 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB | 00:00
amzn2extra-docker | 1.8 kB | 00:00
amzn2extra-php7.2 | 1.8 kB | 00:00
Resolving Dependencies
--> Running transaction check
--> Package php.x86_64 0:7.2.28-1.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
php x86_64 7.2.28-1.amzn2 amzn2extra-php7.2 2.9 M
Transaction Summary
-----
Install 1 Package
```

Instance ID	Instance state	Instance type	Private DNS	Public DNS (IPv4)	IPV4 Public IP	IPV6 IPs	Elastic IPs	Availability zone
i-0c014791416e87538	running	t2.micro	ip-172-31-83-150.ec2.internal	ec2-34-238-120-45.compute-1.amazonaws.com	34.238.120.45	-	-	us-east-1a

aws Services Resource Groups

ec2-user@ip-172-31-83-150-~

```
Installing:
php      x86_64      7.2.28-1.amzn2      amzn2extra-php7.2      2.9 M

Transaction Summary
-----
Install 1 Package

Total download size: 2.9 M
Installed size: 9.1 M
Is this ok [y/d/N]: y
Downloading packages:
php-7.2.28-1.amzn2.x86_64.rpm | 2.9 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : php-7.2.28-1.amzn2.x86_64      1/1
  Verifying  : php-7.2.28-1.amzn2.x86_64      1/1

Installed:
php.x86_64 0:7.2.28-1.amzn2

Complete!
[ec2-user@ip-172-31-83-150 ~]$
```

Instance ID: i-0c014791416e87538  
Instance state: running  
Instance type: t2.micro  
Finding: You may not have permission to access AWS Compute Optimizer.  
Private DNS: ip-172-31-83-150.ec2.internal  
Public DNS (IPv4): ec2-34-238-120-45.compute-1.amazonaws.com  
IPv4 Public IP: 34.238.120.45  
IPv6 IPs: -  
Elastic IPs: -  
Availability zone: us-east-1a

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## Index.php file code:

aws Services Resource Groups

Amazon S3 Buckets

Batch operations

Access analyzer for S3

Block public access (account settings)

Feature spotlight 2

ec2-user@ip-172-31-83-150:/var/www/html/face

```
// error_reporting(0);

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

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

$bucket = 'aws-webinar-smi[a]';
$keyname = 'a.jpg';

$s3 = new S3Client([
    'region' => 'us-east-1',
    '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;
    }
}

-- INSERT --
```

39,27 56%

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## Upload success:

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes sections for EC2 Dashboard, INSTANCES, IMAGES, and ELASTIC BLOCK STORE. The main content area shows the details of an EC2 instance with the ID `i-0c014791416e97538`. The instance is in a `running` state and is of type `t2.micro`. A terminal window is open on the instance, showing the command `sudo php index.php` and its output: `Image upload done...Here is the URL: https://aws-ethnus-smita.s3.amazonaws.com/`. Below the terminal, the instance's metadata is displayed in a table format.

Description		Status Checks	Monitoring	Tags
Instance ID	i-0c014791416e97538			
Instance state	running			
Instance type	t2.micro			
Finding	You may not have permission to access AWS Compute Optimizer.			
Private DNS	ip-172-31-83-150.ec2.internal			
Public DNS (IPv4)	ec2-34-238-120-45.compute-1.amazonaws.com			
IPv4 Public IP	34.238.120.45			
IPv6 IPs	-			
Elastic IPs				
Availability zone	us-east-1a			

At the bottom of the console, there is a footer with the text: © 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use.

