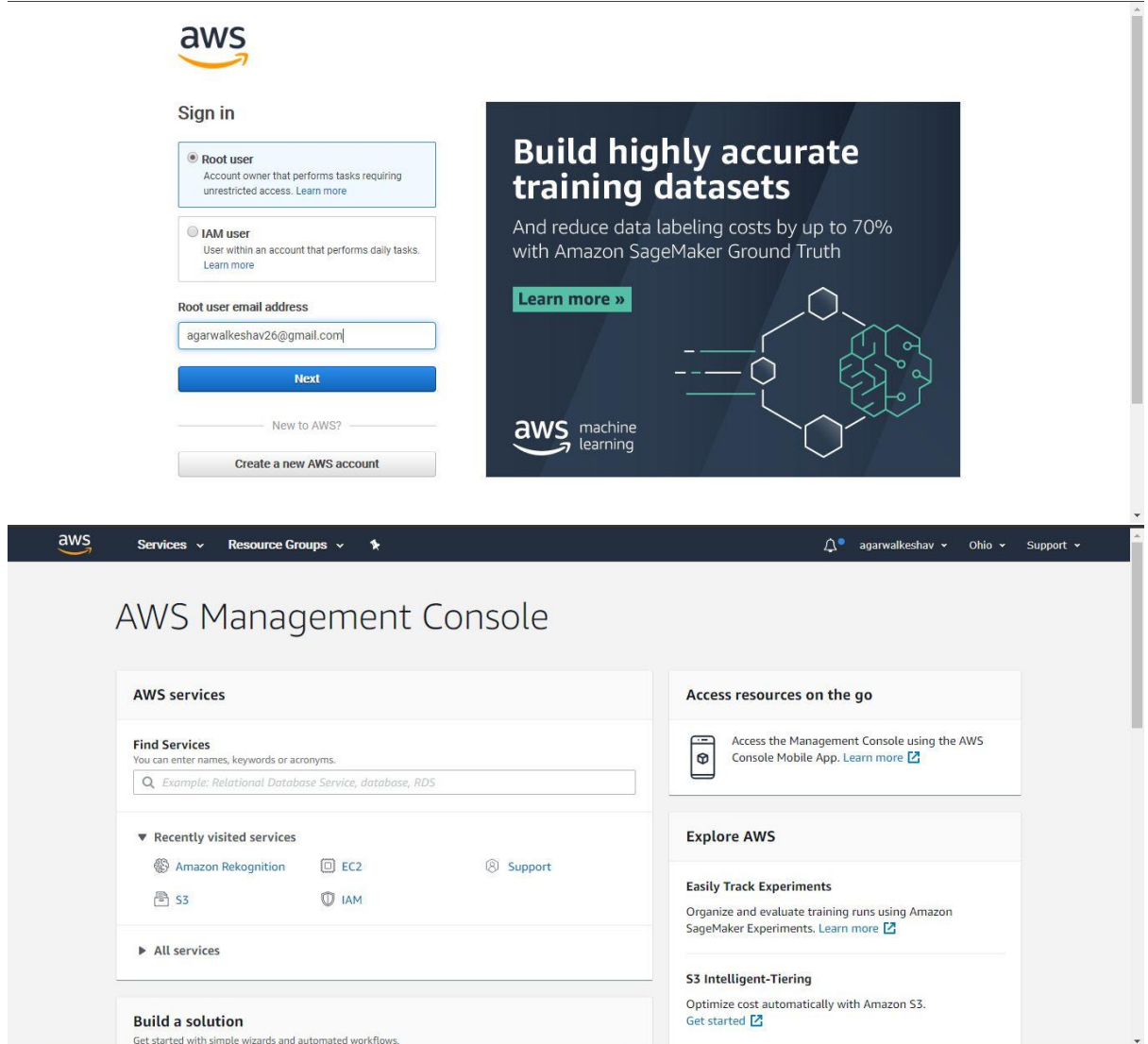


# AWS COURSE BY ETHNUS-CODEMITHRA

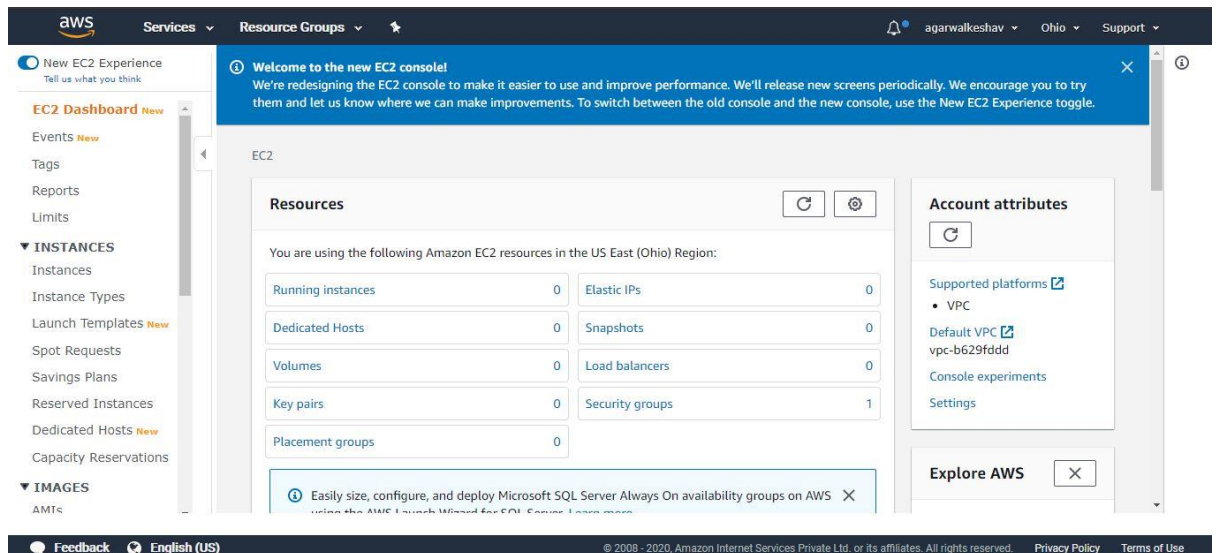
Efforts by Keshav Agarwal

## Screenshots for Dashboard

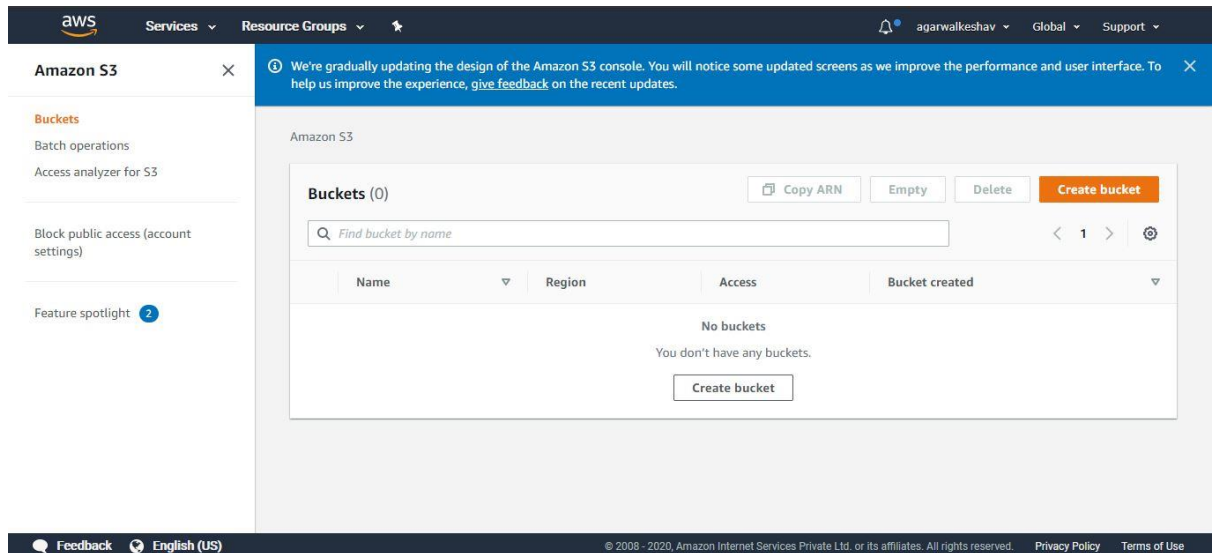
### 1. AWS Login Screen with username



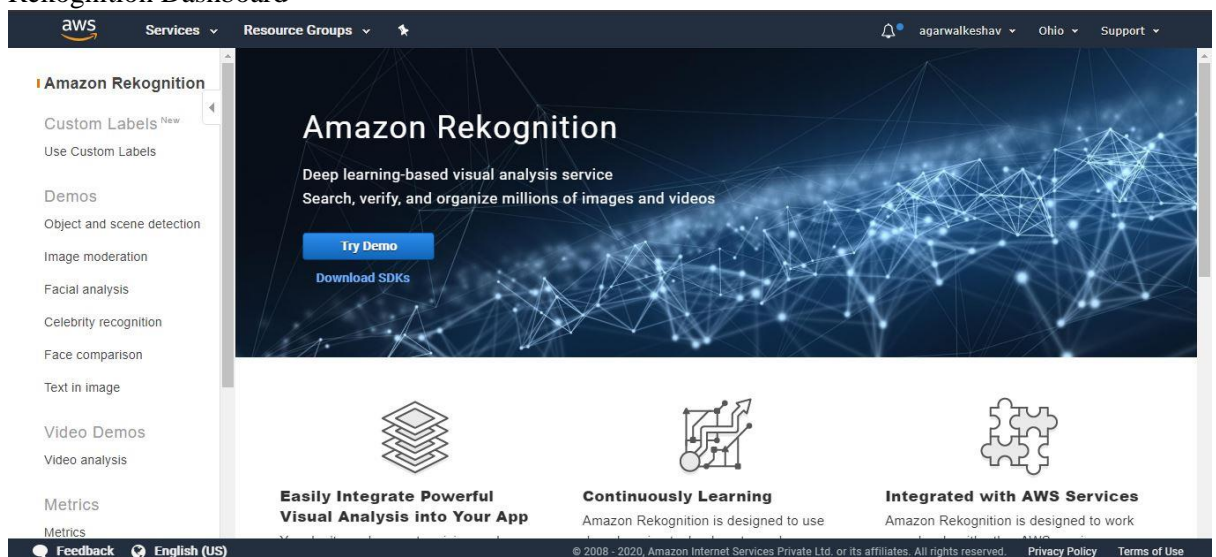
### 2. EC2 Dashboard



### 3. S3 Dashboard



### 4. Rekognition Dashboard



Screenshots for EC2

## 1. Choosing AMI

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

Cancel and Exit

### Step 1: Choose an Amazon Machine Image (AMI)

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

My AMIs

AWS Marketplace

Community AMIs

Free tier only

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0e01ce4ee18447327 (64-bit x86) / ami-03201f374ab66a26e (64-bit Arm)

Amazon Linux Free tier eligible

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)

Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-01b01bbd08f24c7a8

Amazon Linux Free tier eligible

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

64-bit (x86)

## 2. Choosing instance type

Feedback English (US)

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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	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

## 3. Adding storage

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	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

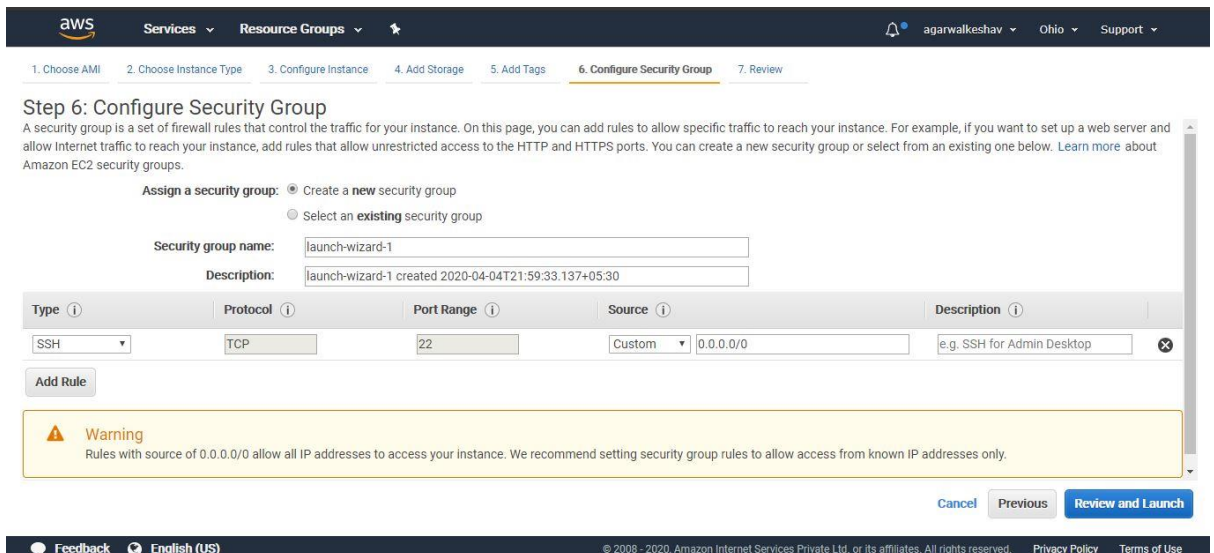
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous Review and Launch Next: Add Tags

Feedback English (US)

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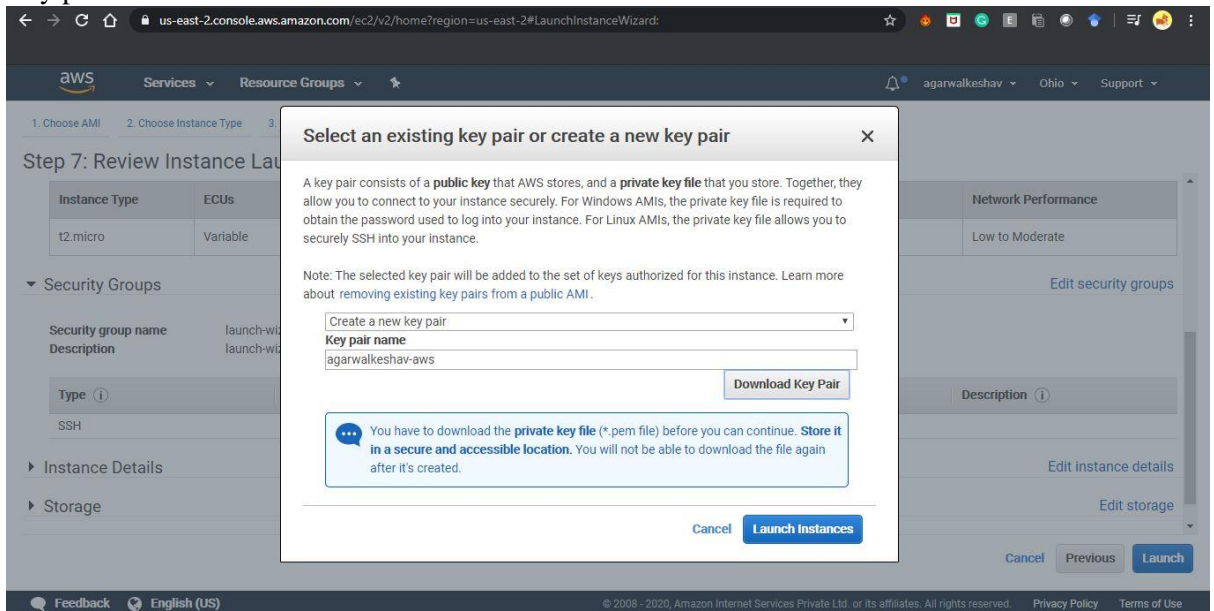
## 4. Configuring Security group



The screenshot shows the 'Step 6: Configure Security Group' page in the AWS Management Console. The 'Assign a security group' section has 'Create a new security group' selected. The 'Security group name' is 'launch-wizard-1' and the 'Description' is 'launch-wizard-1 created 2020-04-04T21:59:33.137+05:30'. Below this is a table of rules with one rule: Type 'SSH', Protocol 'TCP', Port Range '22', Source 'Custom' with IP '0.0.0.0/0', and Description 'e.g. SSH for Admin Desktop'. A warning message states: '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.' At the bottom are 'Cancel', 'Previous', and 'Review and Launch' buttons.

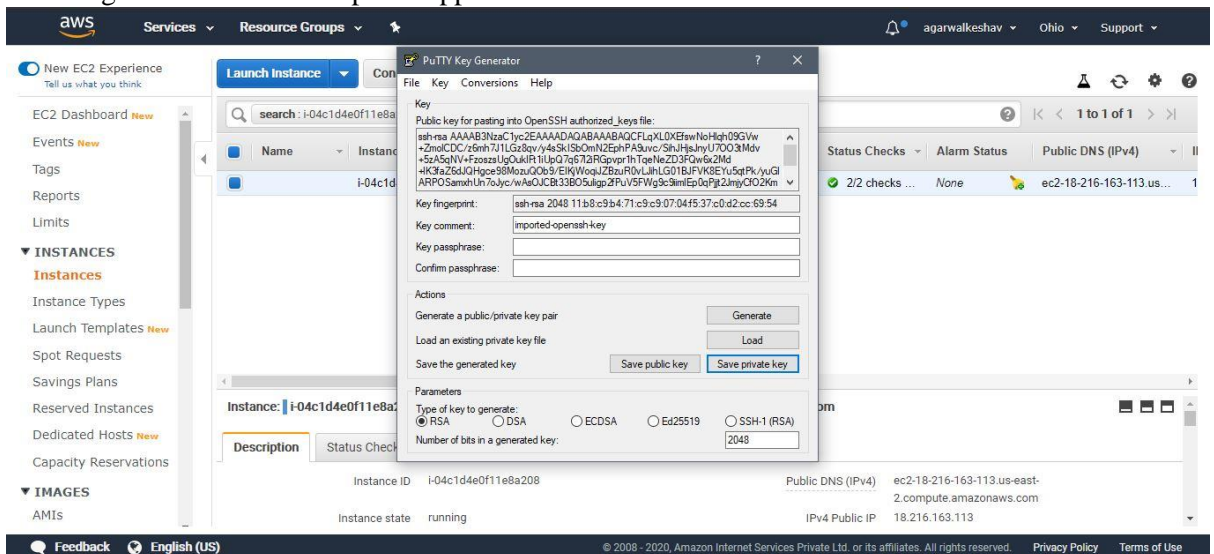
Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

## 5. Key pair download



The screenshot shows the 'Step 7: Review Instance Launch' page. A modal dialog titled 'Select an existing key pair or create a new key pair' is open. It explains that a key pair consists of a public key (AWS stores) and a private key (user stores). It notes that the selected key pair will be added to the set of keys authorized for this instance. The dialog has a dropdown for 'Create a new key pair' and a text input for 'Key pair name' with the value 'agarwalkeshav-aws'. There is a 'Download Key Pair' button. A message box says: '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.' At the bottom of the dialog are 'Cancel' and 'Launch Instances' buttons.

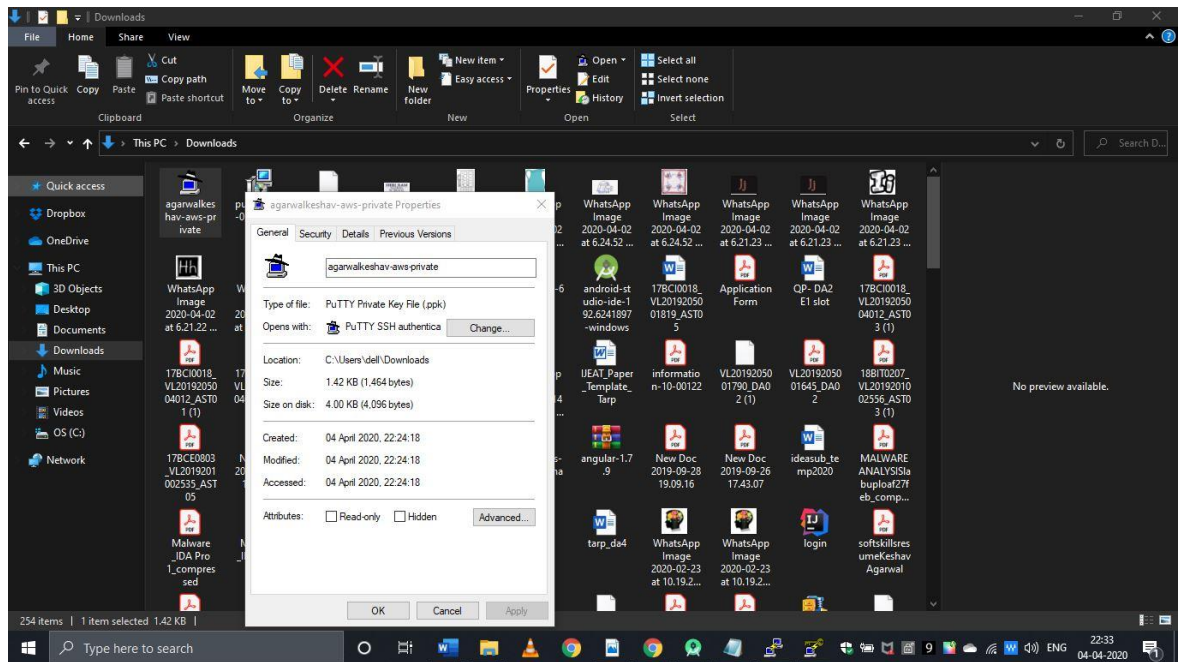
## 6. PuTTYgen conversion from pem to ppk



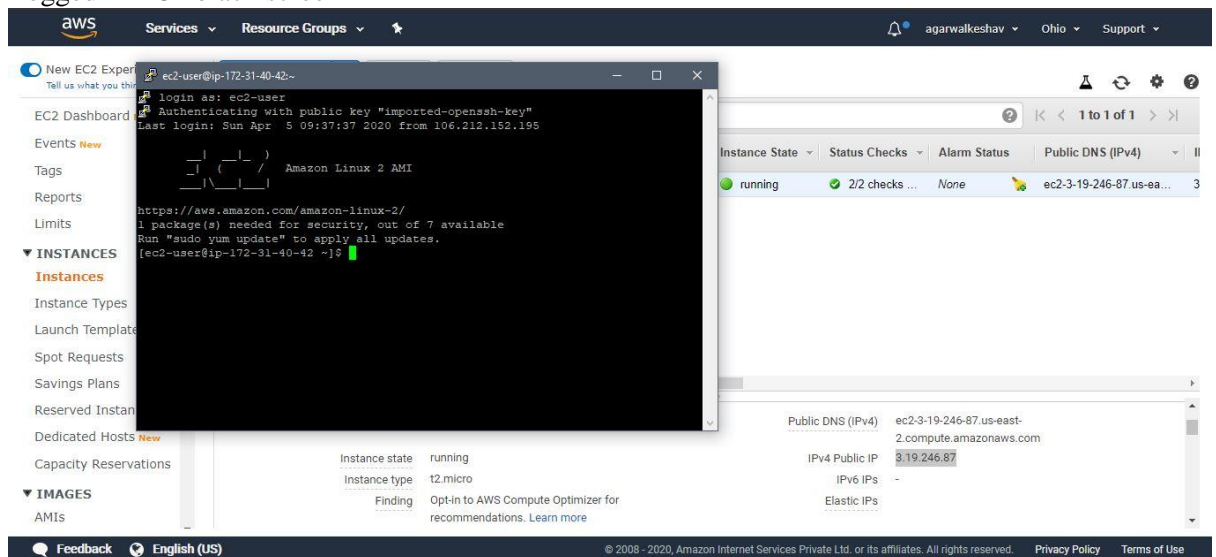
The screenshot shows the AWS Management Console with the 'PuTTY Key Generator' application open. The 'Key' tab is selected, showing a public key for pasting into an OpenSSH authorized\_keys file. The 'Key fingerprint' is 'ssh-rsa 2048 11b8c9b471c9c90704f537c0d2cc6954'. The 'Key comment' is 'imported-openssh-key'. The 'Key passphrase' and 'Confirm passphrase' fields are empty. The 'Actions' section has 'Generate', 'Load', 'Save public key', and 'Save private key' buttons. The 'Parameters' section shows 'Type of key to generate' as 'RSA' and 'Number of bits in a generated key' as '2048'. In the background, the AWS console shows the 'Instance Details' for instance 'i-04c1d4e0f11e8a208', which is in the 'running' state. The 'Public DNS (IPv4)' is 'ec2-18-216-163-113 us-east-2.compute.amazonaws.com'.



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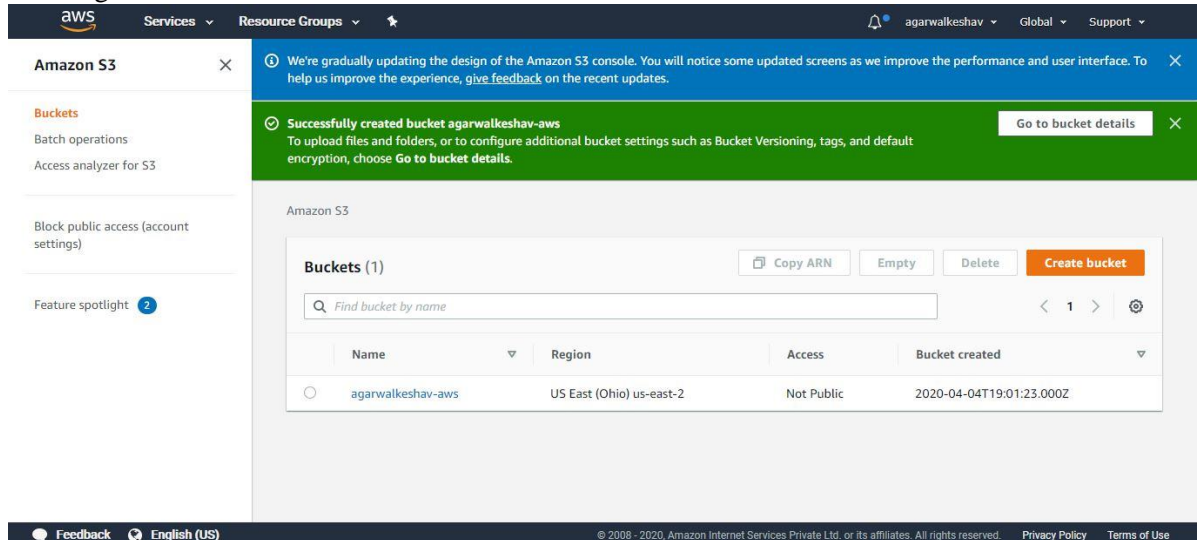


## 7. Logged in EC2 black screen

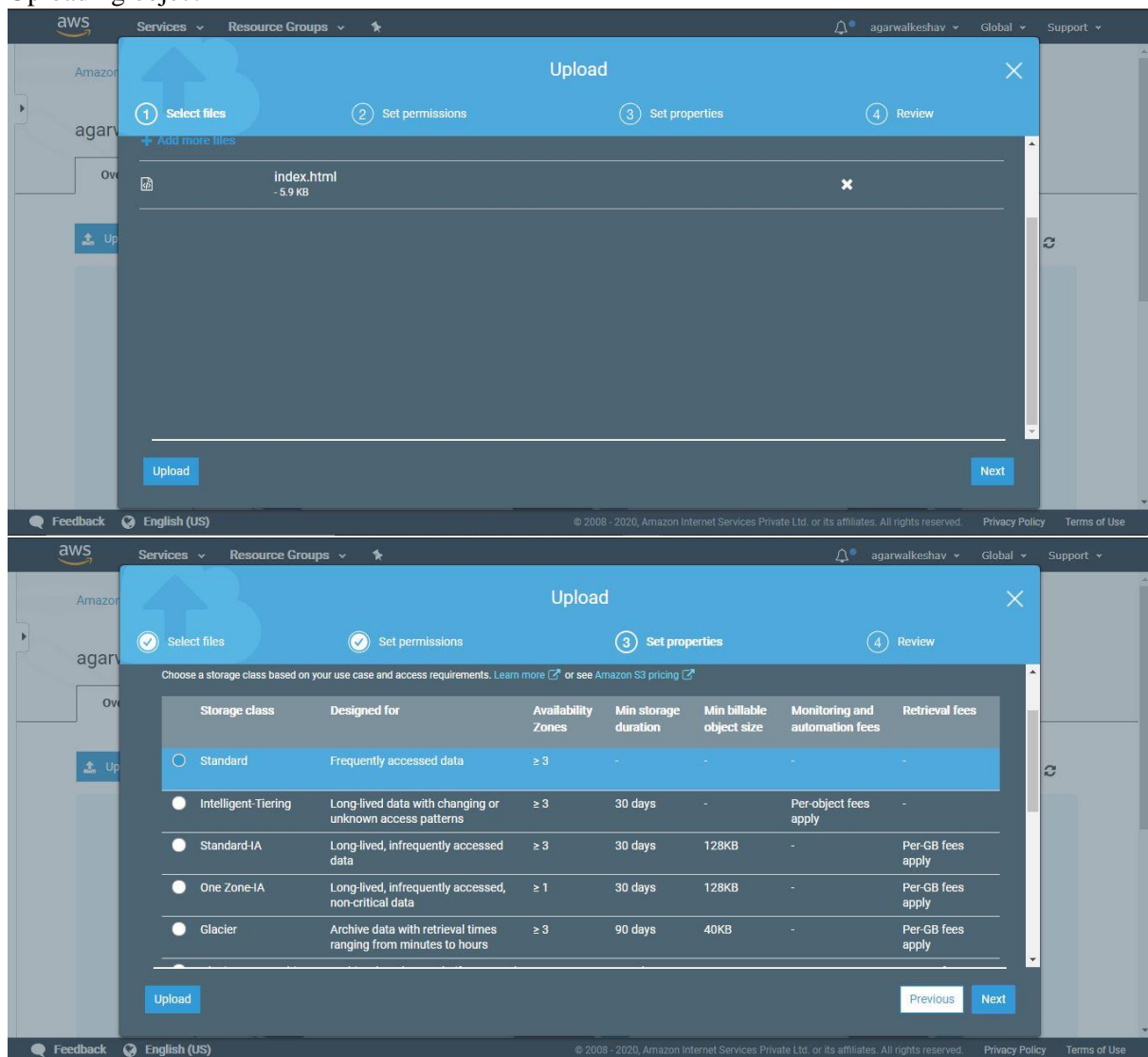


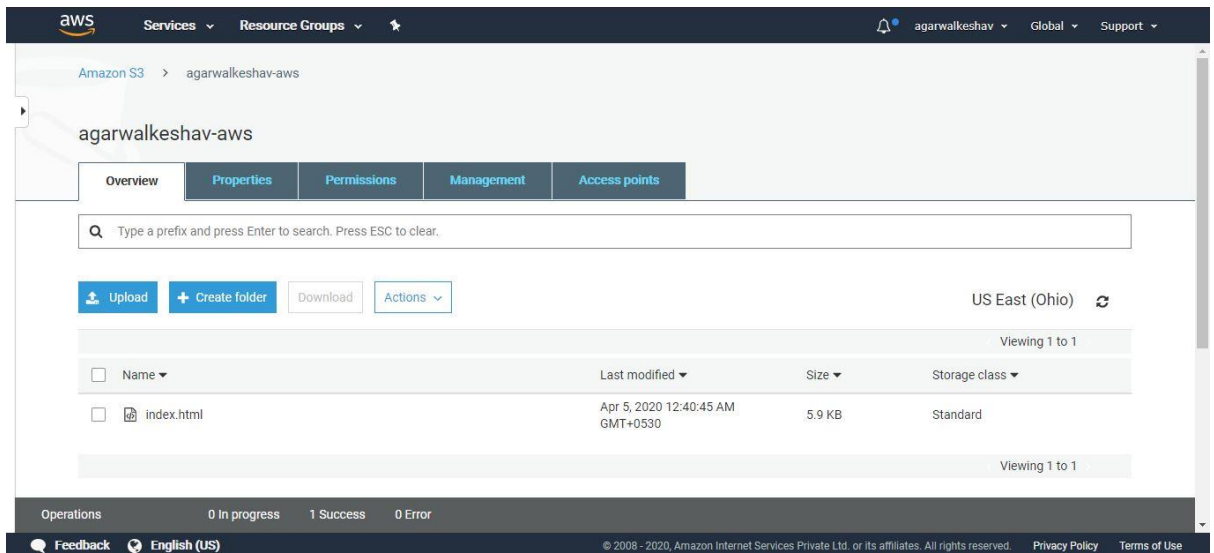
Screenshots for S3

## 1. Creating bucket

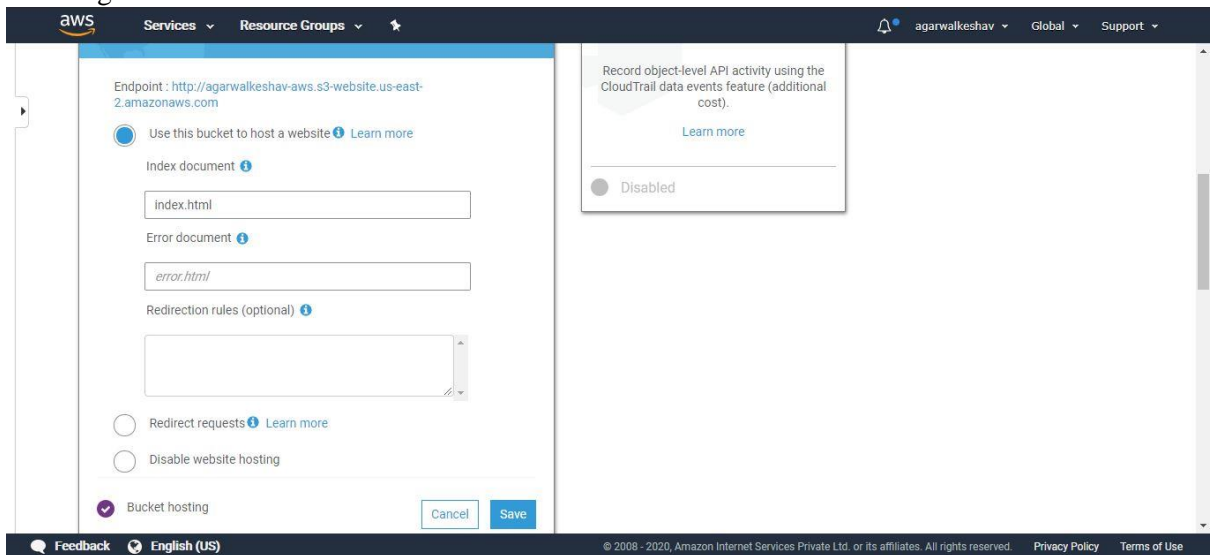


## 2. Uploading object

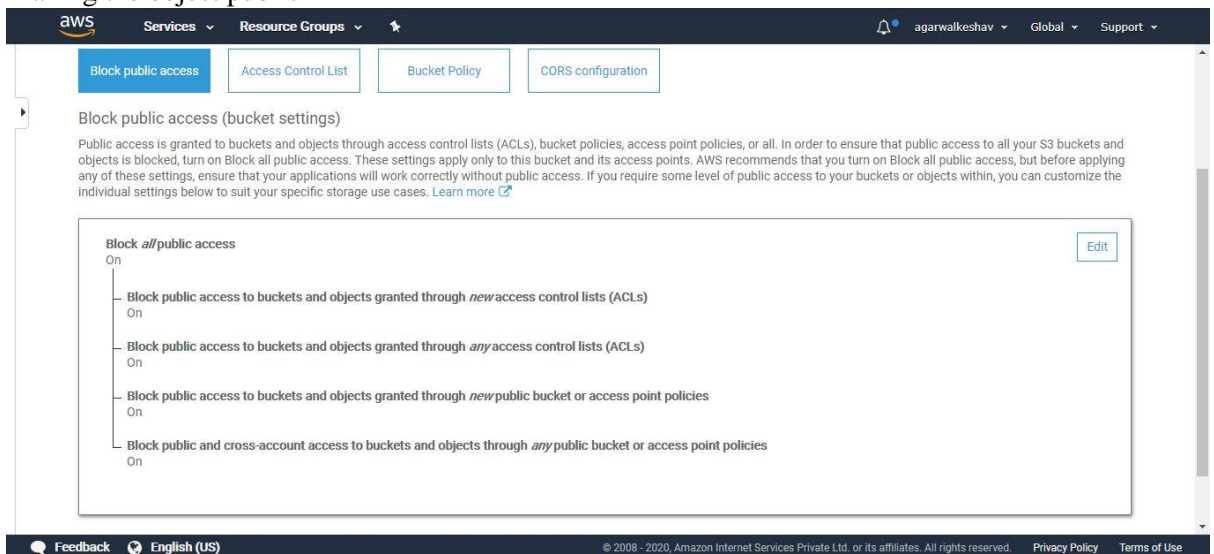




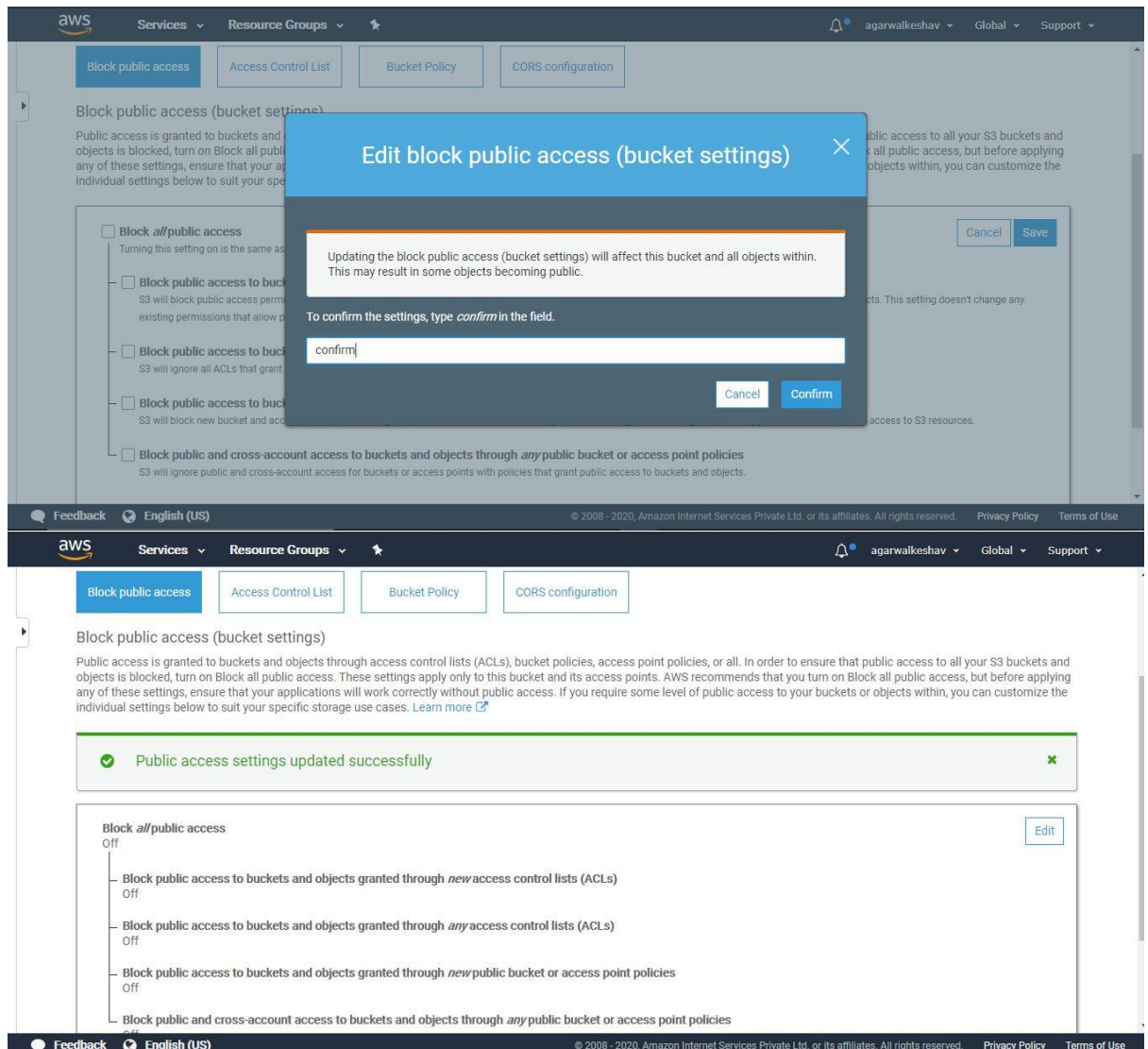
### 3. Enabling static website



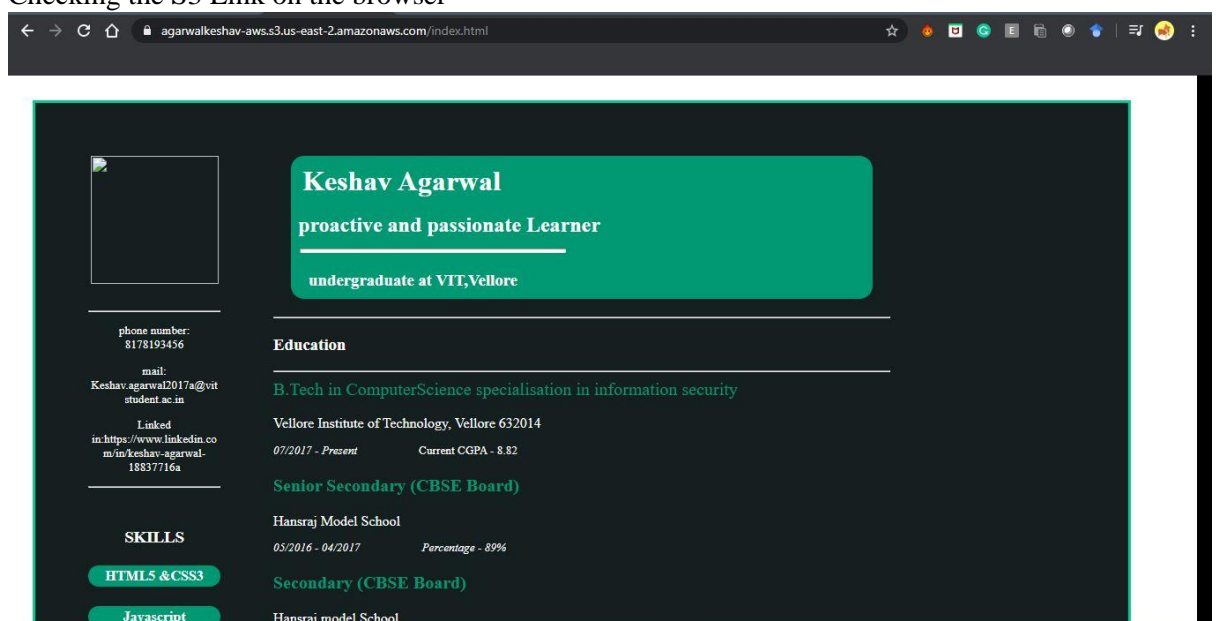
### 4. Making the object public



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## 5. Checking the S3 Link on the browser





## Screenshot needed for Rekognition

### 1. Face Detect

The screenshot shows the AWS Rekognition 'Facial analysis' demo. On the left is a navigation menu with options like 'Amazon Rekognition', '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 'Feedback'. The main content area is titled 'Facial analysis' and includes a description: 'Get a complete analysis of facial attributes, including confidence scores.' Below this is a large image of a woman wearing sunglasses, with a white bounding box around her face. To the right of the image is a 'Results' section with a table of attributes and their confidence scores:

Attribute	Confidence Score
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 %

At the bottom, there are links for 'Choose a sample image' and 'Use your own image' (with a note: 'Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.'). The footer includes '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' and links for 'Privacy Policy' and 'Terms of Use'.

### 2. Face compare

The screenshot shows the AWS Rekognition 'Face comparison' demo. The navigation menu is similar to the first screenshot, with 'Face comparison' highlighted. The main content area is titled 'Face comparison' and includes a description: 'Compare faces to see how closely they match based on a similarity percentage.' Below this are two image upload sections: 'Reference face' and 'Comparison faces'. The 'Reference face' section shows a photo of a young girl. The 'Comparison faces' section shows a photo of three young girls. To the right is a 'Results' section with a table showing the similarity score:

Comparison	Similarity Score
Reference face vs. Comparison faces	99.8 %

Below the table, there are links for 'Choose a sample image' and 'Choose a sample image' (with a note: 'Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.'). The footer includes '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' and links for 'Privacy Policy' and 'Terms of Use'.

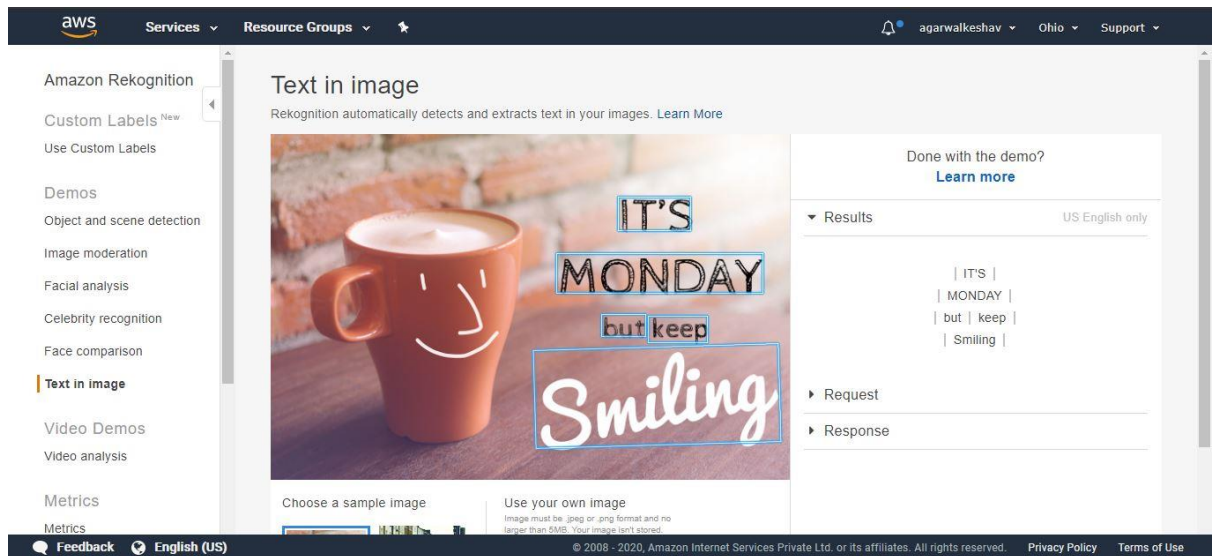
### 3. Celebrity recognition

The screenshot shows the AWS Rekognition 'Celebrity recognition' demo. The navigation menu is similar to the previous screenshots, with 'Celebrity recognition' highlighted. The main content area is titled 'Celebrity recognition' and includes a description: 'Rekognition automatically recognizes celebrities in images and provides confidence scores.' Below this is a large image of Jeff Bezos, with a white bounding box around his face. To the right is a 'Results' section with a table showing the match confidence:

Celebrity	Match confidence
Jeff Bezos	100 %

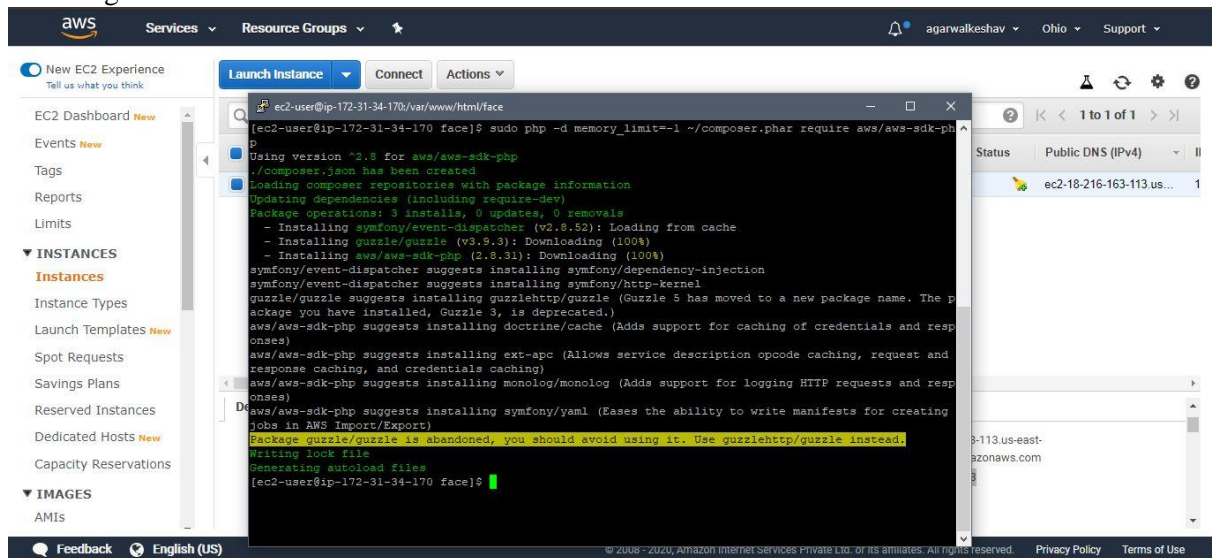
Below the table, there are links for 'Choose a sample image' and 'Use your own image' (with a note: 'Image must be .jpg or .png format and no larger than 5MB. Your image isn't stored.'). The footer includes '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' and links for 'Privacy Policy' and 'Terms of Use'.

### 4. Text in image



## Screenshot for EC2 and S3

### 1. Installing aws-sdk



### 2. Installing php

```
[ec2-user@ip-172-31-34-170 ~]$ 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-172-31-34-170 ~]$ 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: 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 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
(2/4): php-5.4.16-46.amzn2.0.2.x86_64.rpm | 1.4 MB 00:00
(3/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm | 2.8 MB 00:00
(4/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm | 563 kB 00:00
-----
Total 19 MB/s | 4.7 MB 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
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 : libzip010-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

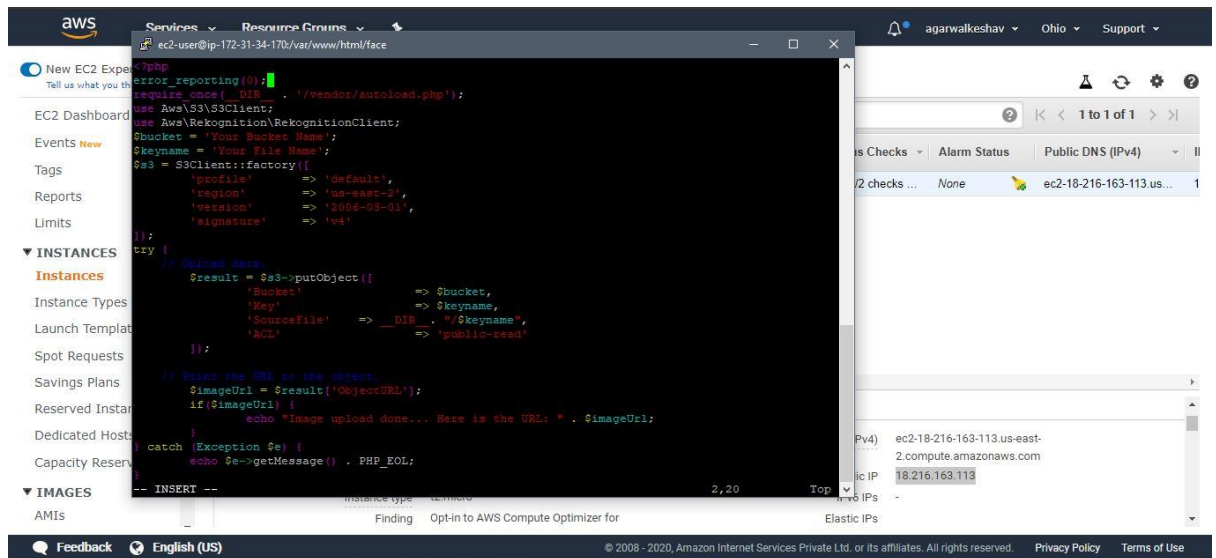
Installed:
php.x86_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:
libzip010-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

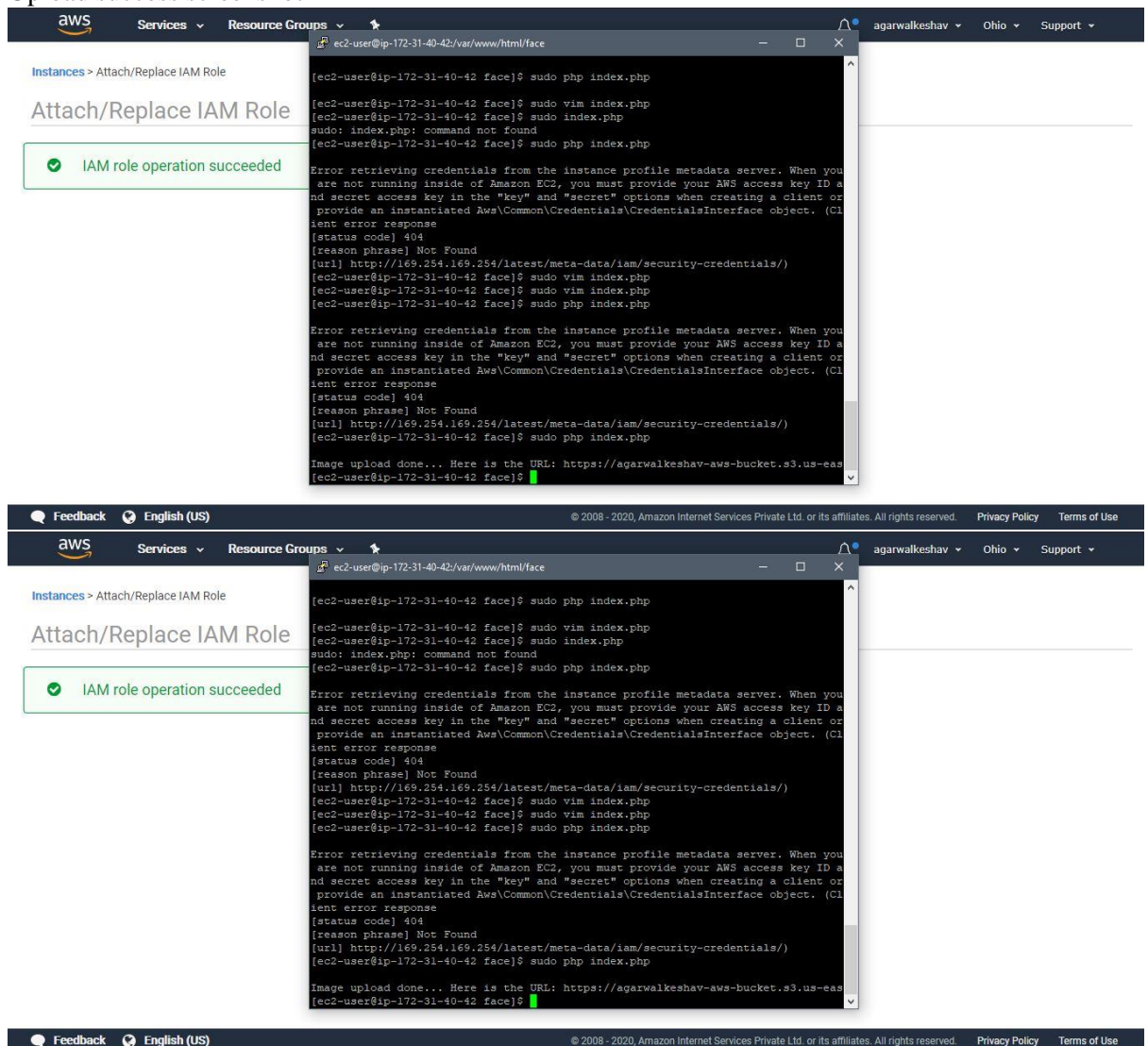
Complete!
[ec2-user@ip-172-31-34-170 ~]$
```

### 3. Index.php file code





#### 4. Upload success screenshot





## 1. Face detect success

The screenshot displays the AWS Management Console interface. On the left, the 'Amazon Rekognition' service is selected under the 'Text in image' category. The main content area shows a terminal window with the command 'sudo php index.php' executed, resulting in a successful face detection. The output of the command is displayed in the 'Results' section, showing the detected text: 'IT'S MONDAY but keep Smiling'. The 'Request' and 'Response' sections are also visible, showing the input image and the corresponding JSON response.

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

Results US English only

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

Request

Response

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THANKYOU