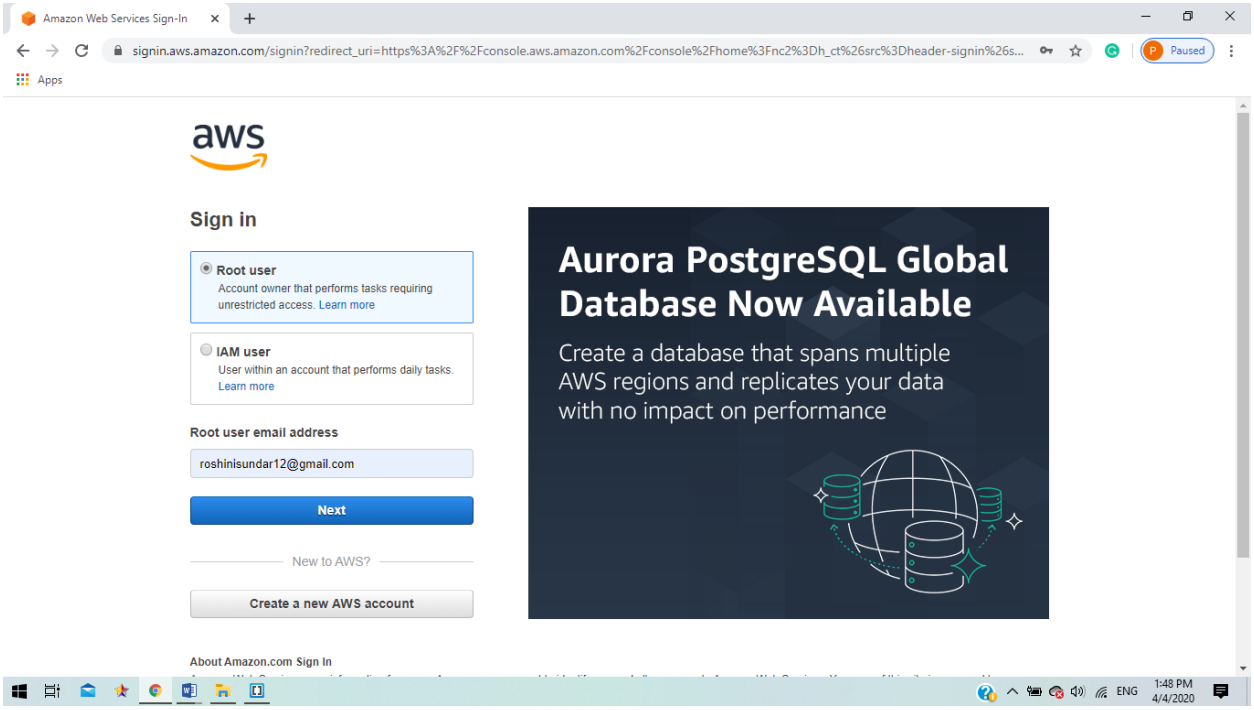
AMAZON WEB SERVICES (AWS) WEBINAR

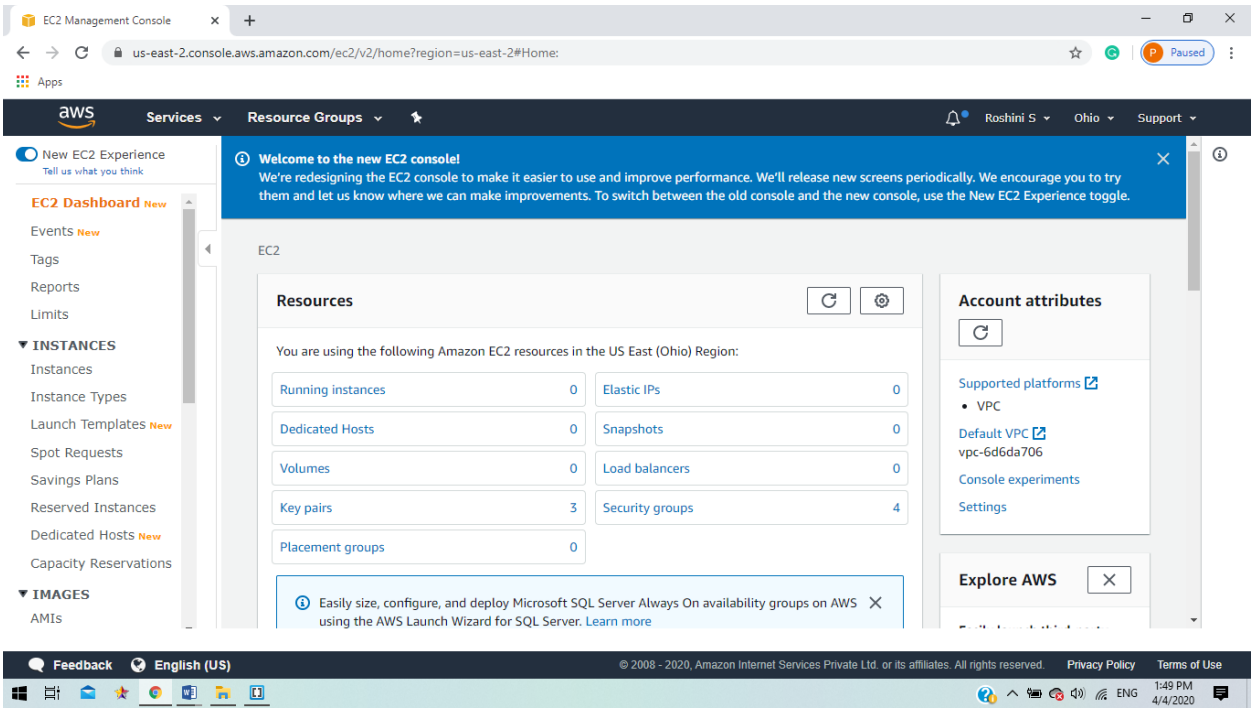
FACE DETECTION APP

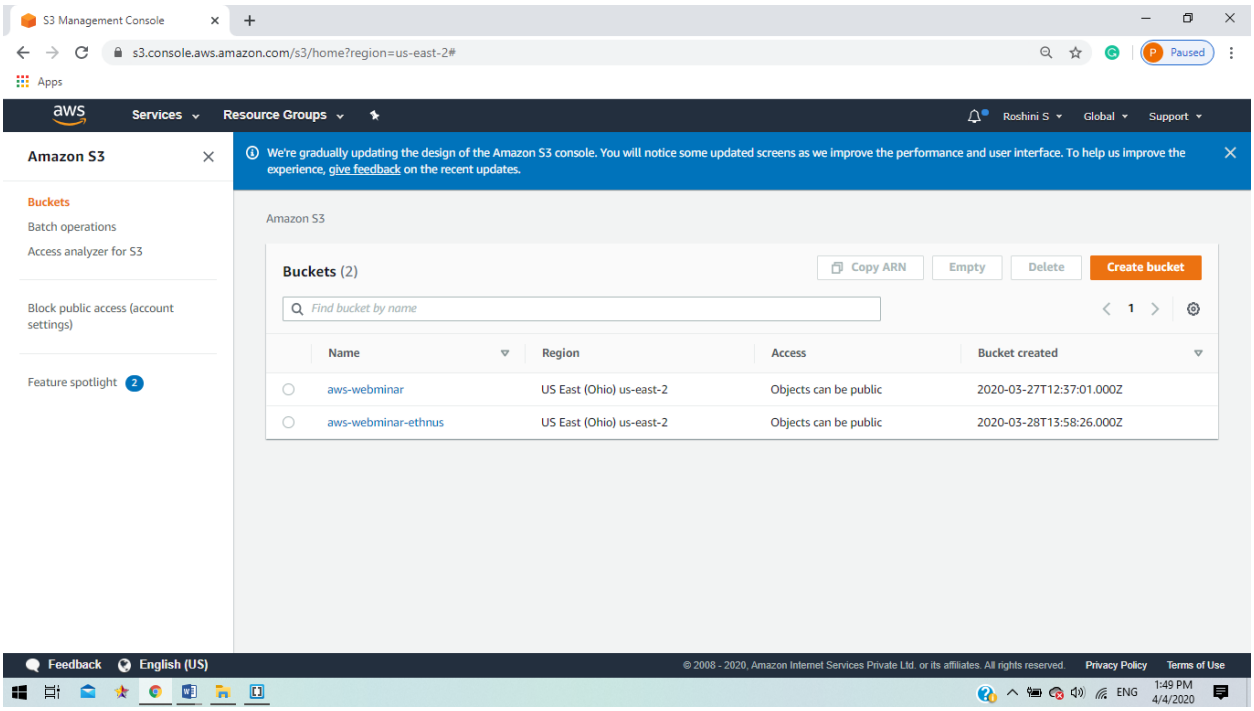
Name: S.Roshini

E-mail: roshinisundar12@gmail.com

AWS:






S3 Management Console
s3.console.aws.amazon.com/s3/home?region=us-east-2#
Apps
Services
Resource Groups
Roshini S
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
Batch operations
Access analyzer for S3
Block public access (account settings)
Feature spotlight
Amazon S3
Buckets (2)
Copy ARN
Empty
Delete
Create bucket
Find bucket by name
Name
Region
Access
Bucket created
aws-webminar
US East (Ohio) us-east-2
Objects can be public
2020-03-27T12:37:01.000Z
aws-webminar-ethnus
US East (Ohio) us-east-2
Objects can be public
2020-03-28T13:58:26.000Z
Feedback
English (US)
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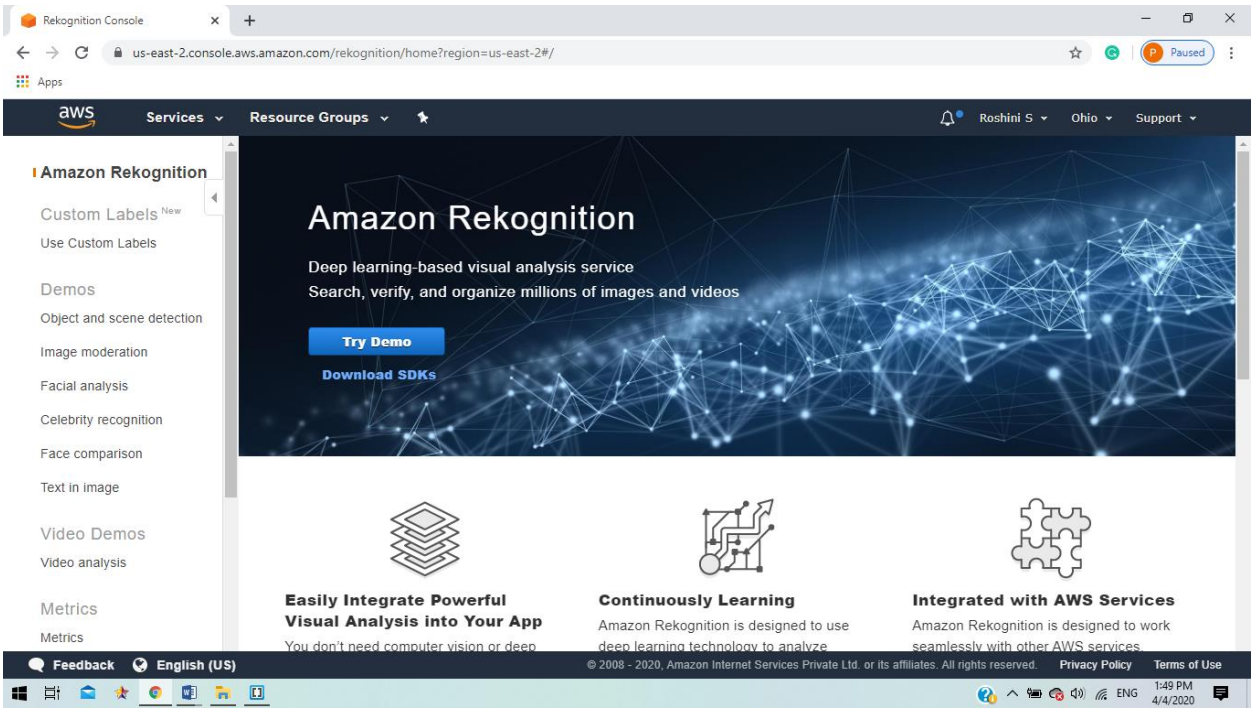
Rekognition Console
us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/
Apps
Services
Resource Groups
Roshini S
Ohio
Support
Amazon Rekognition
Custom Labels New
Use Custom Labels
Demos
Object and scene detection
Image moderation
Facial analysis
Celebrity recognition
Face comparison
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
Continuously Learning
Amazon Rekognition is designed to use deep learning technology to analyze
Integrated with AWS Services
Amazon Rekognition is designed to work seamlessly with other AWS services
Feedback
English (US)
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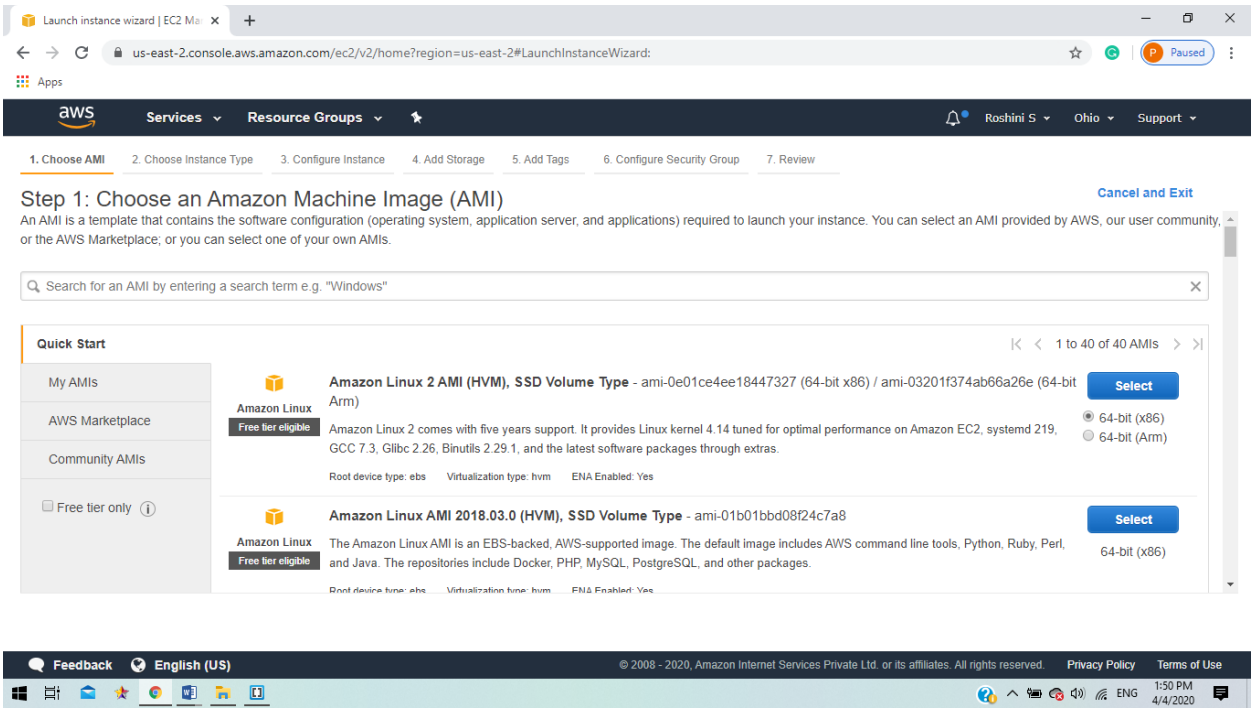
EC2:


Launch instance wizard | EC2 Ma
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Paused
Apps
aws
Services
Resource Groups
Roshini S
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 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
Free tier only
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.
64-bit (x86)
64-bit (Arm)
Root device type: ebs
Virtualization type: hvm
ENA Enabled: Yes
Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-01b01bbd08f24c7a8
Select
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)
Feedback
English (US)
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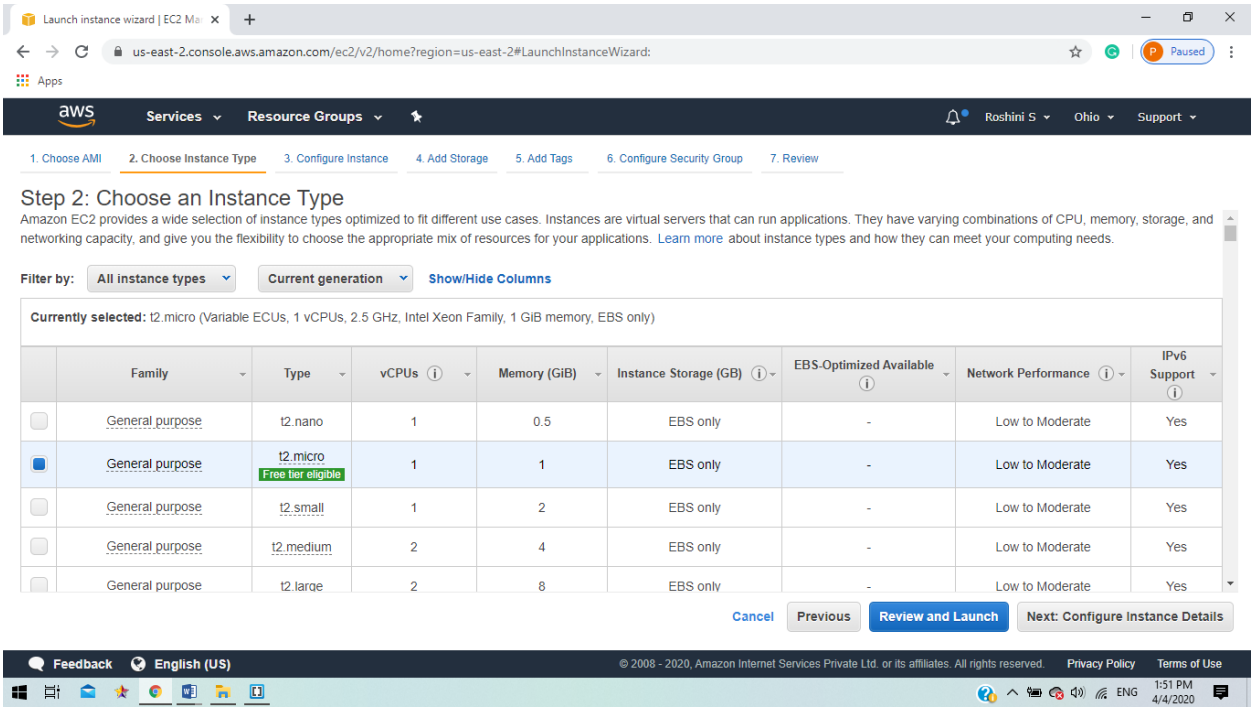
Launch instance wizard | EC2 Ma
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Paused
Apps
aws
Services
Resource Groups
Roshini S
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
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
General purpose
t2.nano
1
0.5
EBS only
-
Low to Moderate
Yes
General purpose
t2.micro
Free tier eligible
1
1
EBS only
-
Low to Moderate
Yes
General purpose
t2.small
1
2
EBS only
-
Low to Moderate
Yes
General purpose
t2.medium
2
4
EBS only
-
Low to Moderate
Yes
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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ENG
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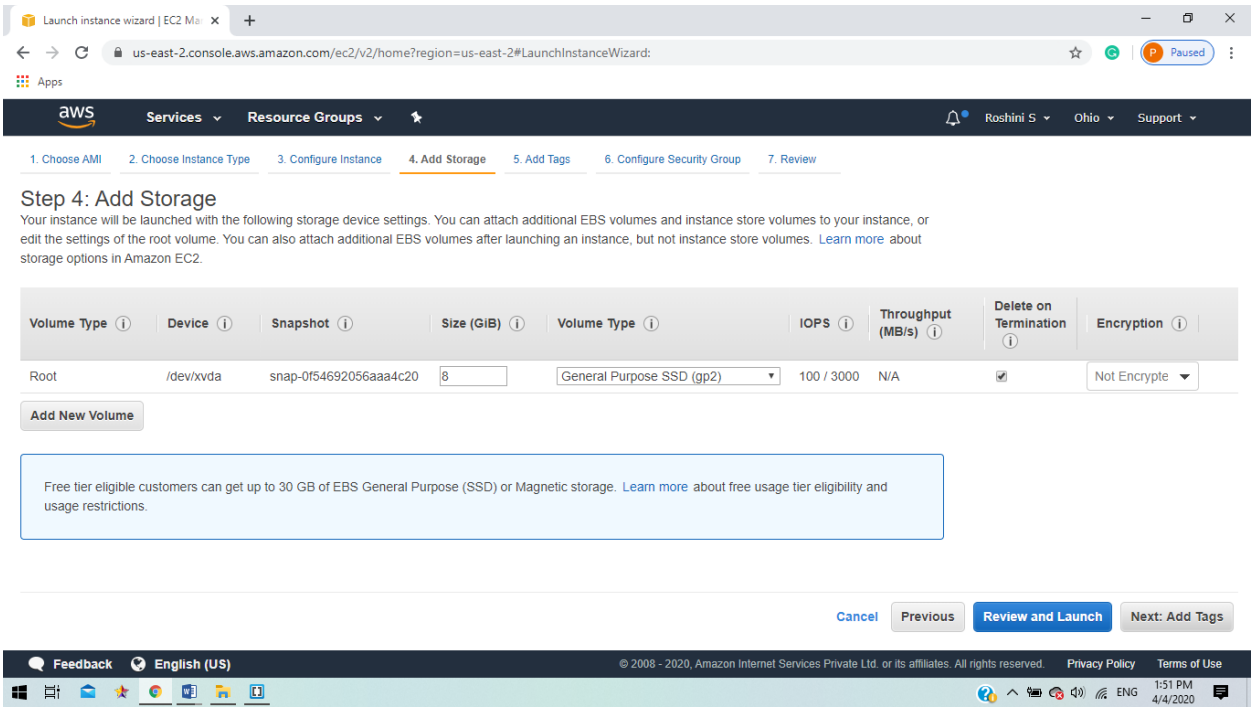
Launch instance wizard | EC2 Ma
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Paused
Apps
aws
Services
Resource Groups
Roshini S
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
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
Not Encrypte
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
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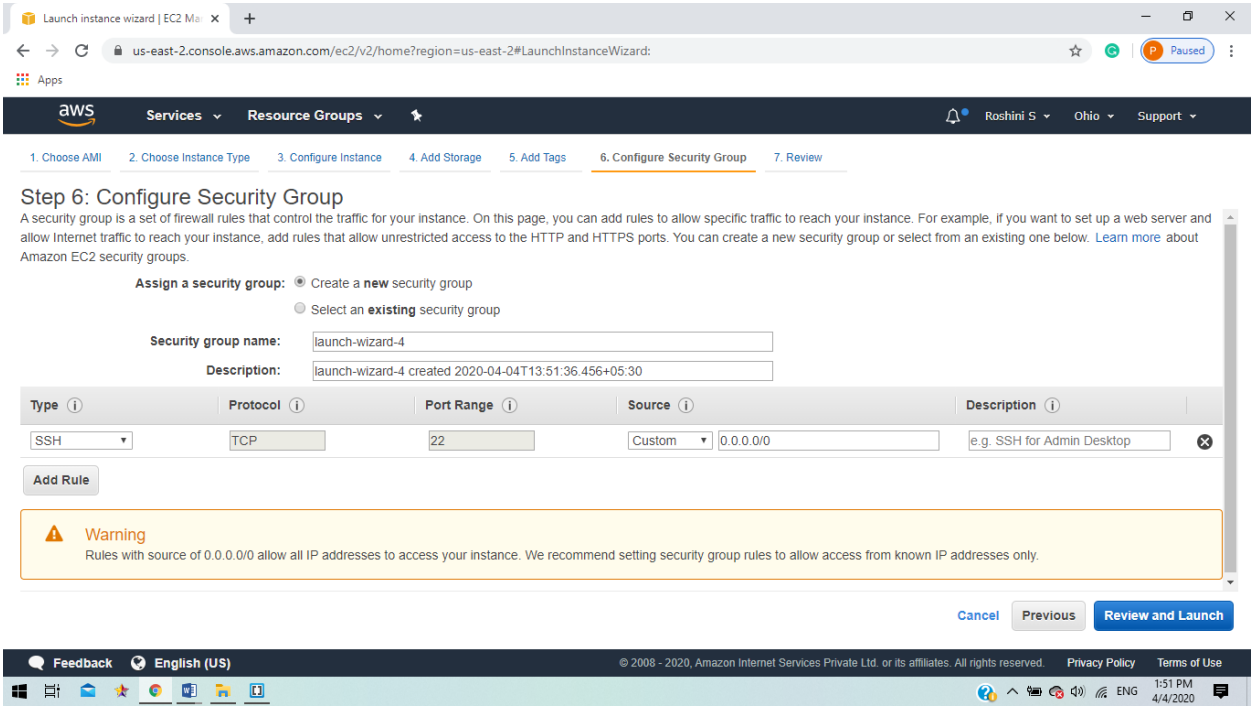
Launch instance wizard | EC2 Ma
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Paused
Apps
aws
Services
Resource Groups
Roshini S
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
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:
launch-wizard-4
Description:
launch-wizard-4 created 2020-04-04T13:51:36.456+05:30
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
Feedback
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ENG
1:51 PM
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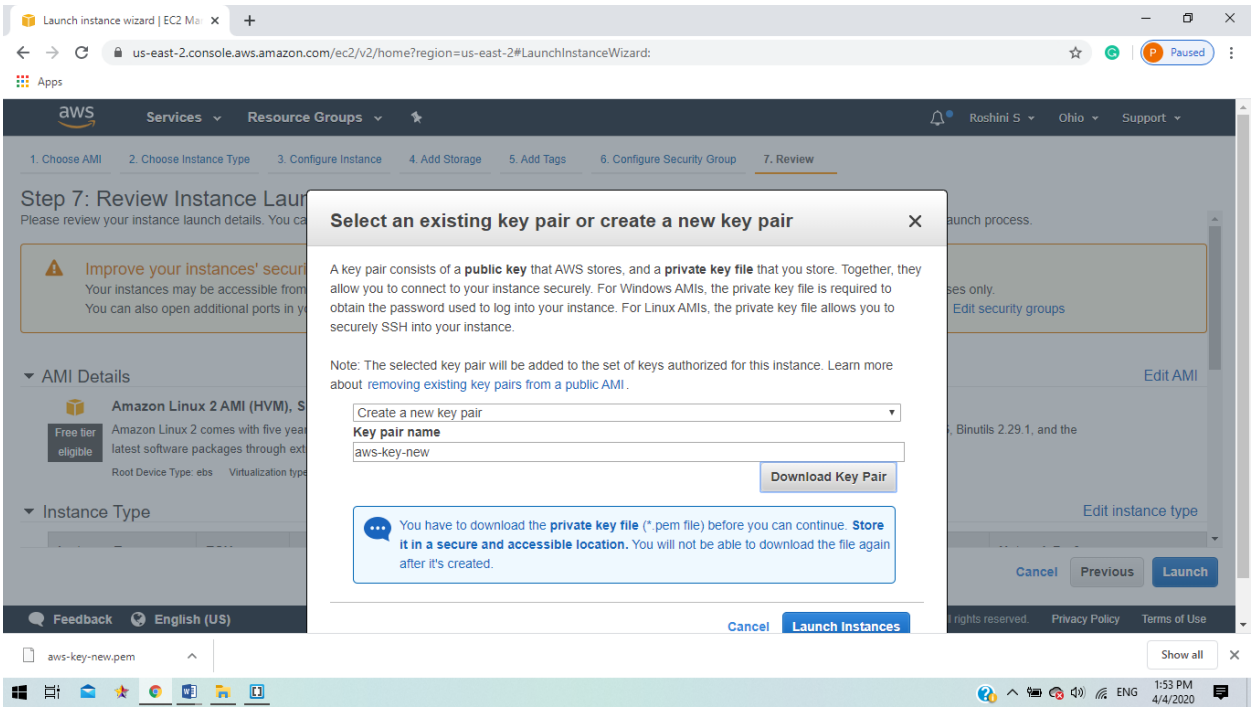
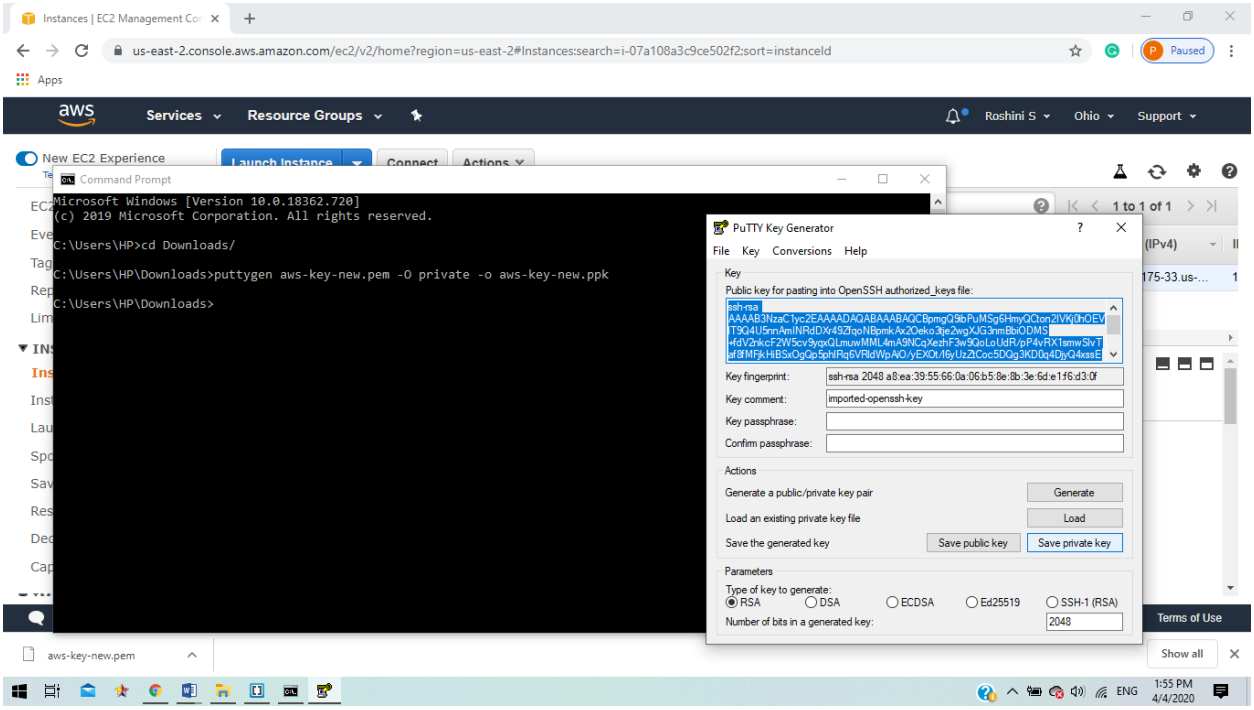
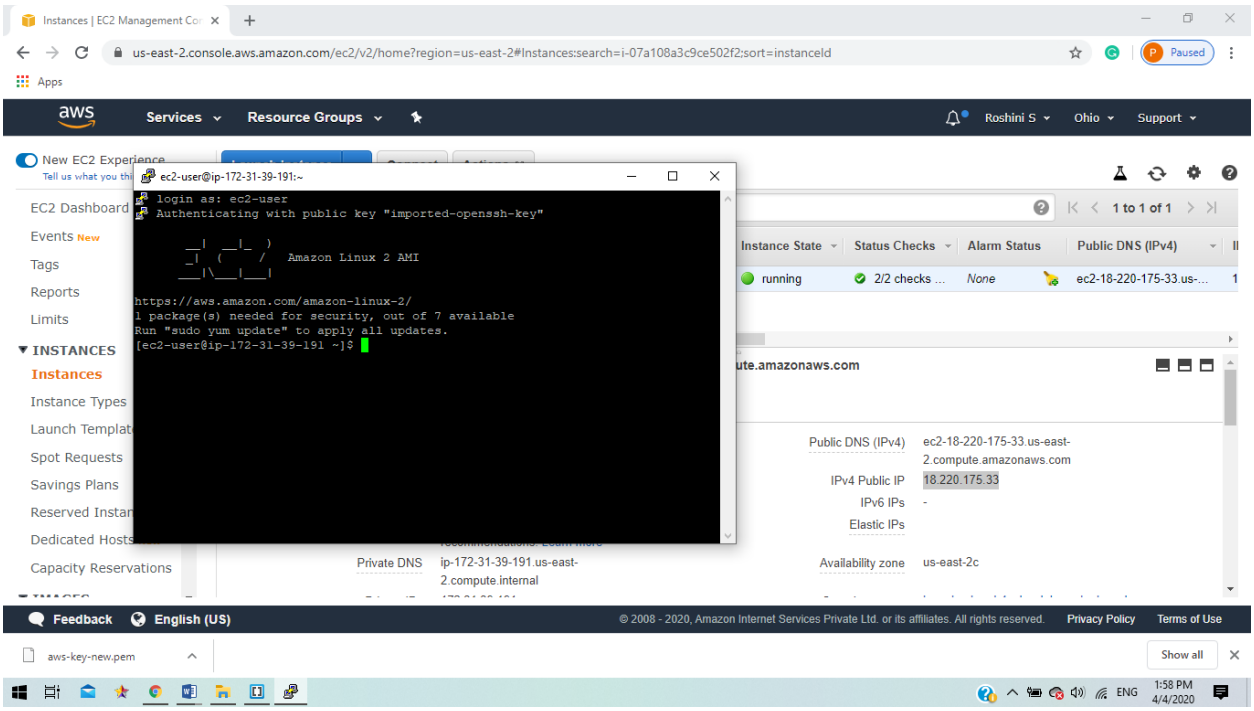

Select an existing key pair or create a new key pair
A key pair consists of a public key that AWS stores, and a private key file that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your 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-key-new
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


Command Prompt
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\HP>cd Downloads/
C:\Users\HP\Downloads>puttygen aws-key-new.pem -O private -o aws-key-new.ppk
C:\Users\HP\Downloads>
PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
Key fingerprint:
Key comment:
Key passphrase:
Confirm passphrase:
Actions
Generate a public/private key pair
Generate
Load an existing private key file
Load
Save the generated key
Save public key
Save private key
Parameters
Type of key to generate:
RSA
DSA
ECDSA
Ed25519
SSH-1 (RSA)
Number of bits in a generated key:
2048


Instances | EC2 Management Co
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-07a108a3c9ce502f2;sort=instanceId
Paused
Apps
aws
Services
Resource Groups
Roshini S
Ohio
Support
New EC2 Experience
EC2 Dashboard
Events New
Tags
Reports
Limits
INSTANCES
Instances
Instance Types
Launch Templat
Spot Requests
Savings Plans
Reserved Instar
Dedicated Hosts
Capacity Reservations
ec2-user@ip-172-31-39-191:~
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.
[ec2-user@ip-172-31-39-191 ~]$
1 to 1 of 1
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
running
2/2 checks ...
None
ec2-18-220-175-33.us-...
ute.amazonaws.com
Public DNS (IPv4)
ec2-18-220-175-33.us-east-2.compute.amazonaws.com
IPv4 Public IP
18.220.175.33
IPv6 IPs
Elastic IPs
Private DNS
ip-172-31-39-191.us-east-2.compute.internal
Availability zone
us-east-2c
Feedback
English (US)
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aws-key-new.pem
Show all
ENG
1:58 PM
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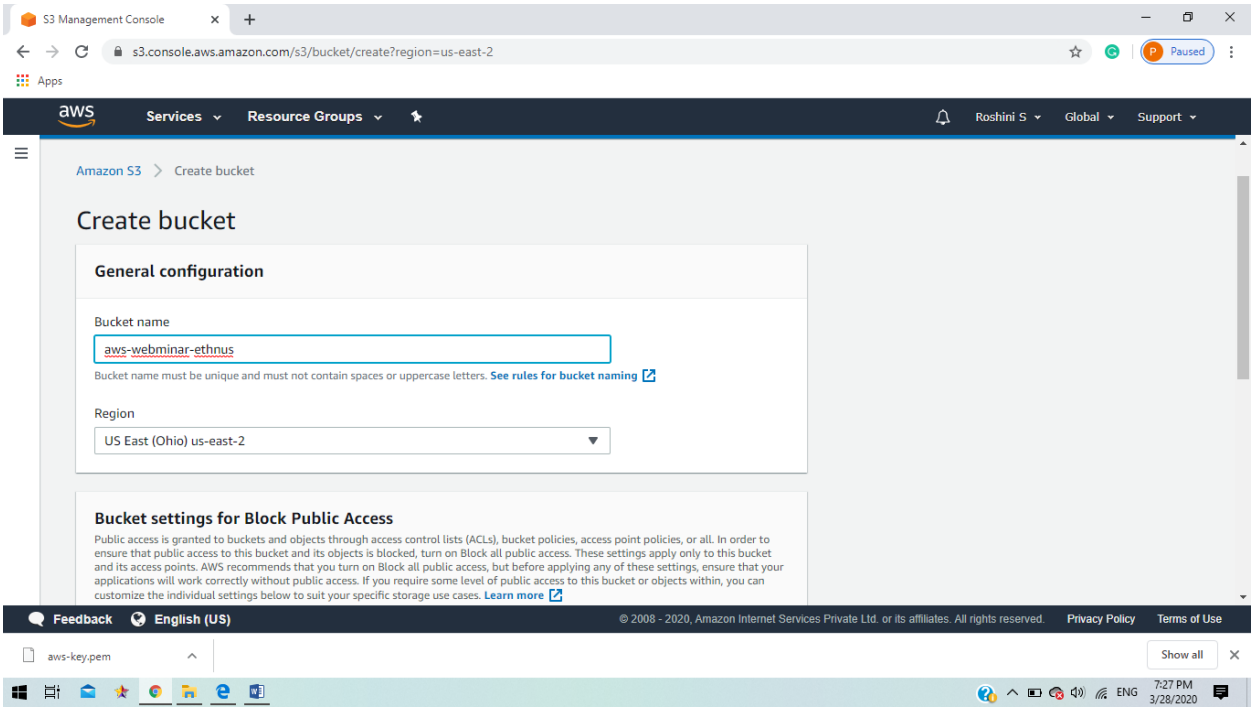
S3:


S3 Management Console
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-2
Paused
Apps
aws
Services
Resource Groups
Roshini S
Global
Support
Amazon S3
Create bucket
Create bucket
General configuration
Bucket name
aws-webminar-ethnus
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
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 this bucket and its 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 this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more
Feedback
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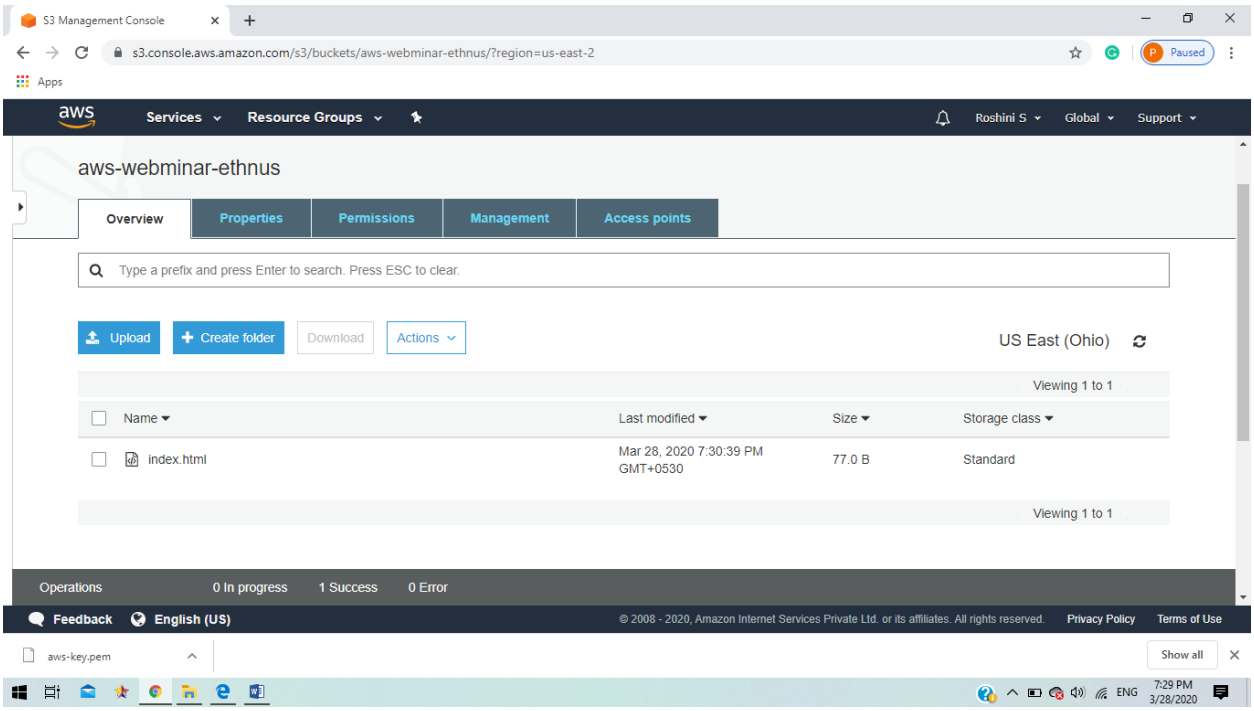
Terms of Use
aws-key.pem
Show all
ENG
7:27 PM
3/28/2020


S3 Management Console
s3.console.aws.amazon.com/s3/buckets/aws-webminar-ethnus/?region=us-east-2
Paused
Apps
aws
Services
Resource Groups
Roshini S
Global
Support
aws-webminar-ethnus
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
Name
Last modified
Size
Storage class
index.html
Mar 28, 2020 7:30:39 PM GMT+0530
77.0 B
Standard
Viewing 1 to 1
Operations
0 In progress
1 Success
0 Error
Feedback
English (US)
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aws-key.pem
Show all
7:29 PM
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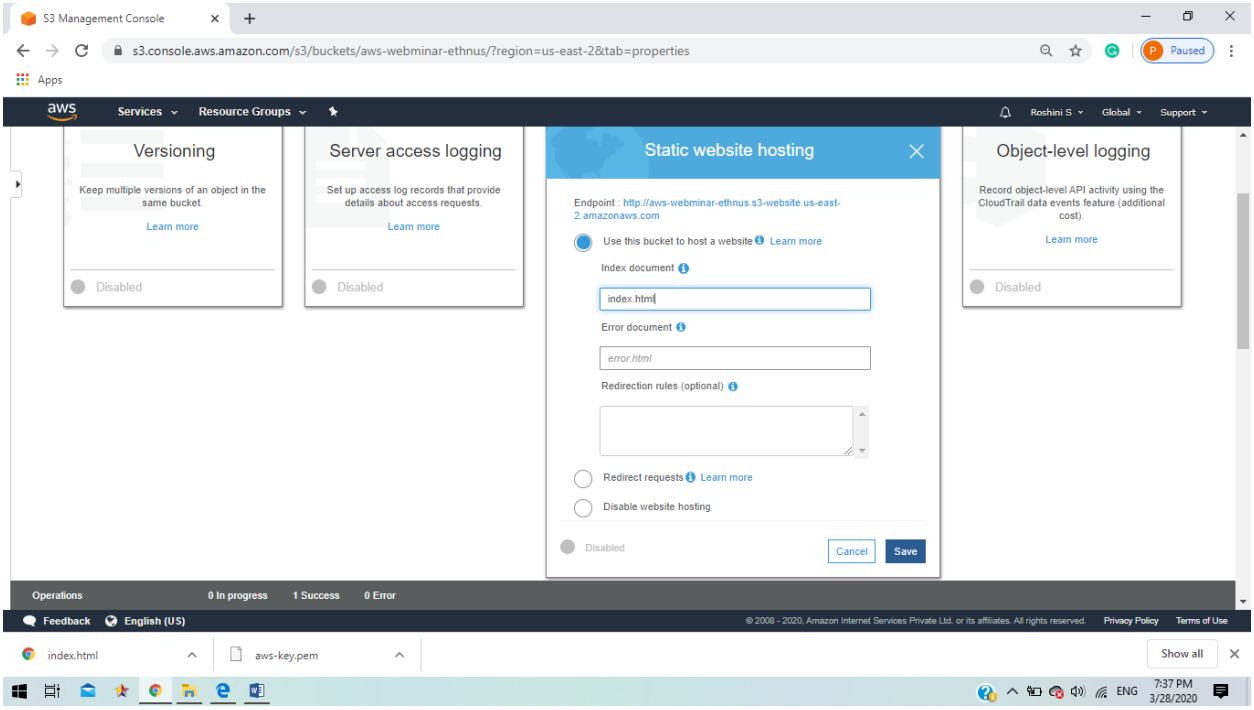
S3 Management Console
s3.console.aws.amazon.com/s3/buckets/aws-webminar-ethnus/?region=us-east-2&tab=properties
Paused
Apps
aws
Services
Resource Groups
Roshini S
Global
Support
Versioning
Keep multiple versions of an object in the same bucket.
Learn more
Disabled
Server access logging
Set up access log records that provide details about access requests.
Learn more
Disabled
Static website hosting
Endpoint : http://aws-webminar-ethnus.s3-website.us-east-2.amazonaws.com
Use this bucket to host a website
Learn more
Index document
index.html
Error document
error.html
Redirection rules (optional)
Redirect requests
Learn more
Disable website hosting
Disabled
Cancel
Save
Object-level logging
Record object-level API activity using the CloudTrail data events feature (additional cost).
Learn more
Disabled
Operations
0 In progress
1 Success
0 Error
Feedback
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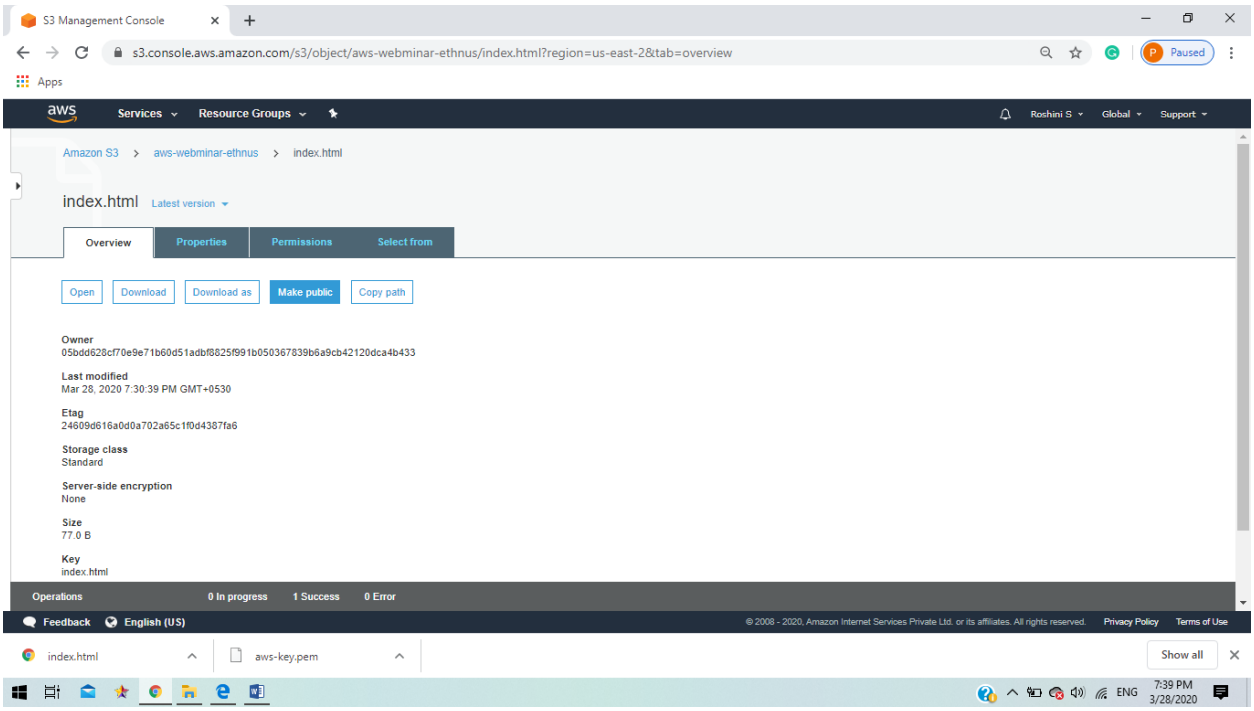
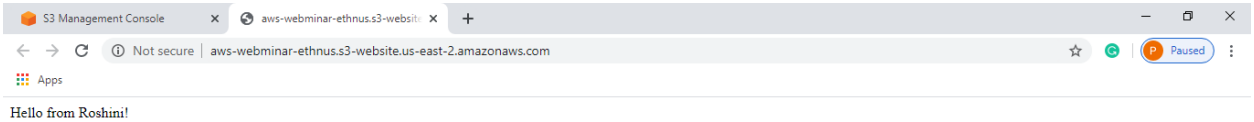
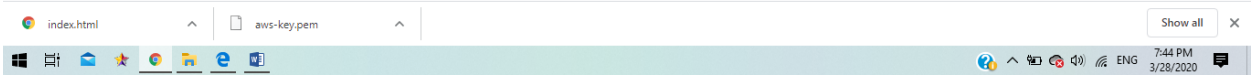
Terms of Use
index.html
aws-key.pem
Show all
7:37 PM
3/28/2020

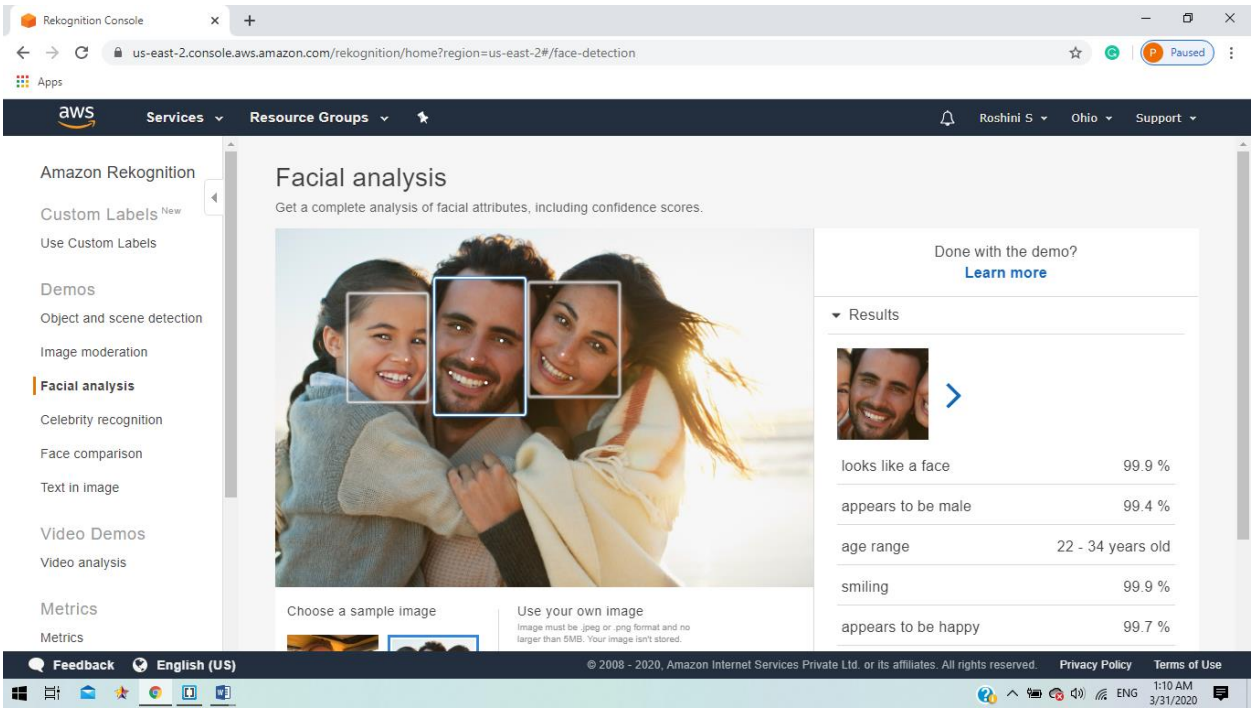


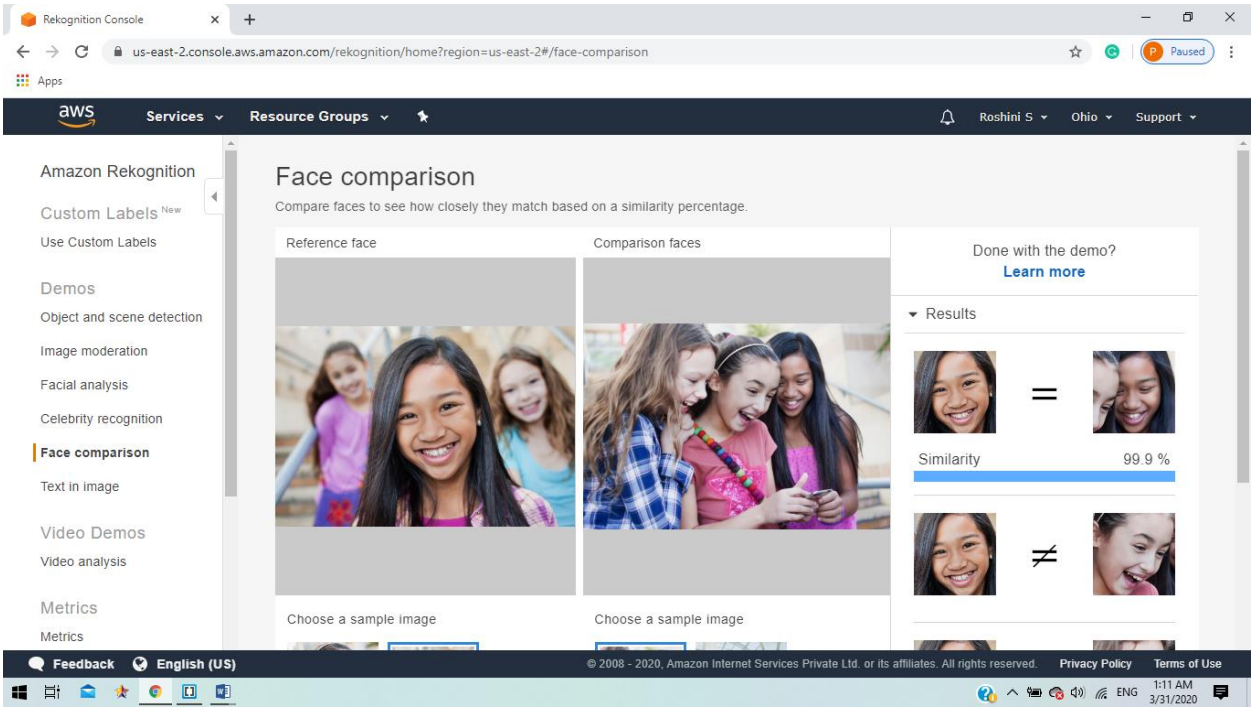


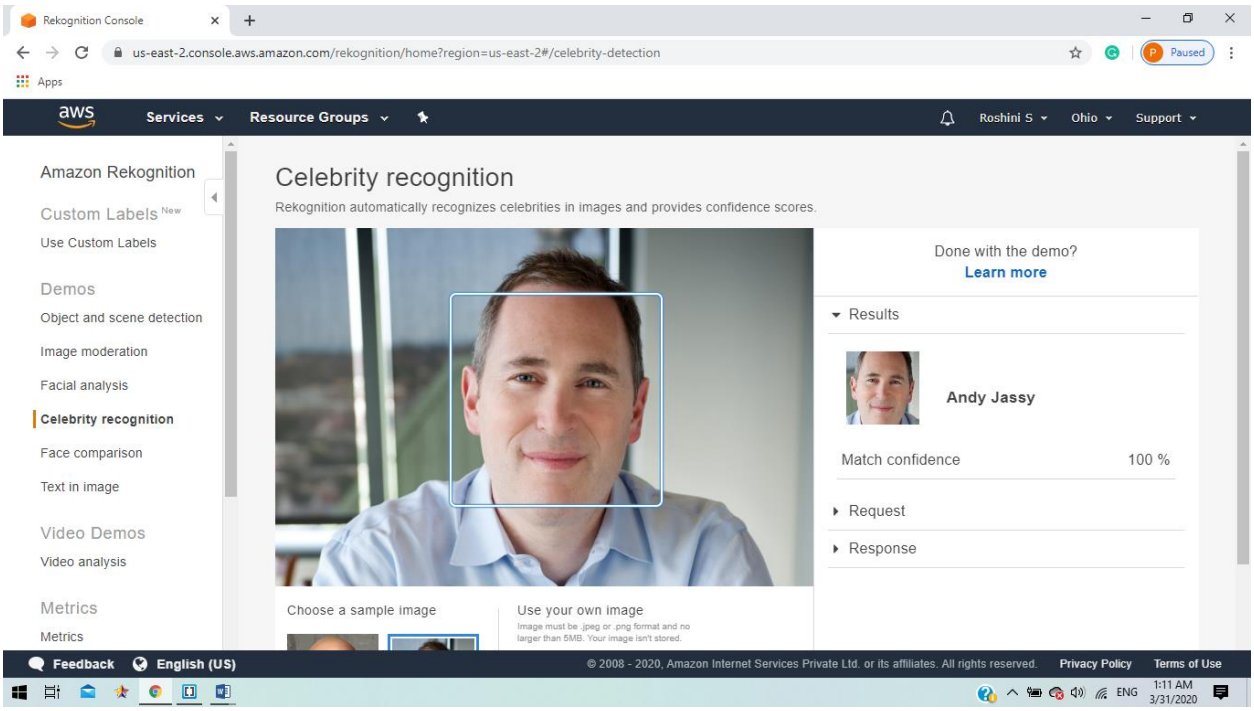
Hello from Roshini!



REKOGNITION:






Rekognition Console
us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/celebrity-detection
Paused
Apps
aws
Services
Resource Groups
Roshini S
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
Celebrity recognition
Rekognition automatically recognizes celebrities in images and provides confidence scores.
Done with the demo?
Learn more
Results
Andy Jassy
Match confidence
100 %
Request
Response
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.
Feedback
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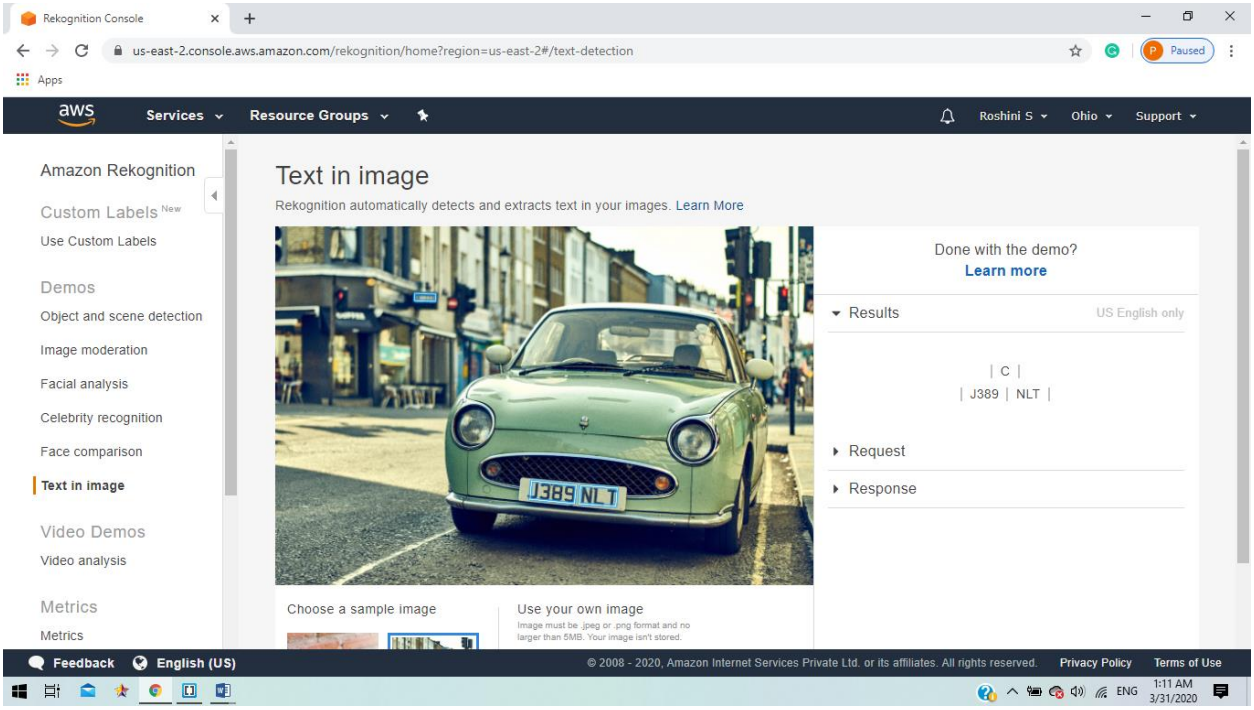
Rekognition Console
us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/text-detection
Paused
Apps
aws
Services
Resource Groups
Roshini S
Ohio
Support
Amazon Rekognition
Custom Labels New
Use Custom Labels
Demos
Object and scene detection
Image moderation
Facial analysis
Celebrity recognition
Face comparison
Text in image
Video Demos
Video analysis
Metrics
Metrics
Text in image
Rekognition automatically detects and extracts text in your images. Learn More
Done with the demo?
Learn more
Results
US English only
| C |
| J389 | NLT |
Request
Response
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.
Feedback
English (US)
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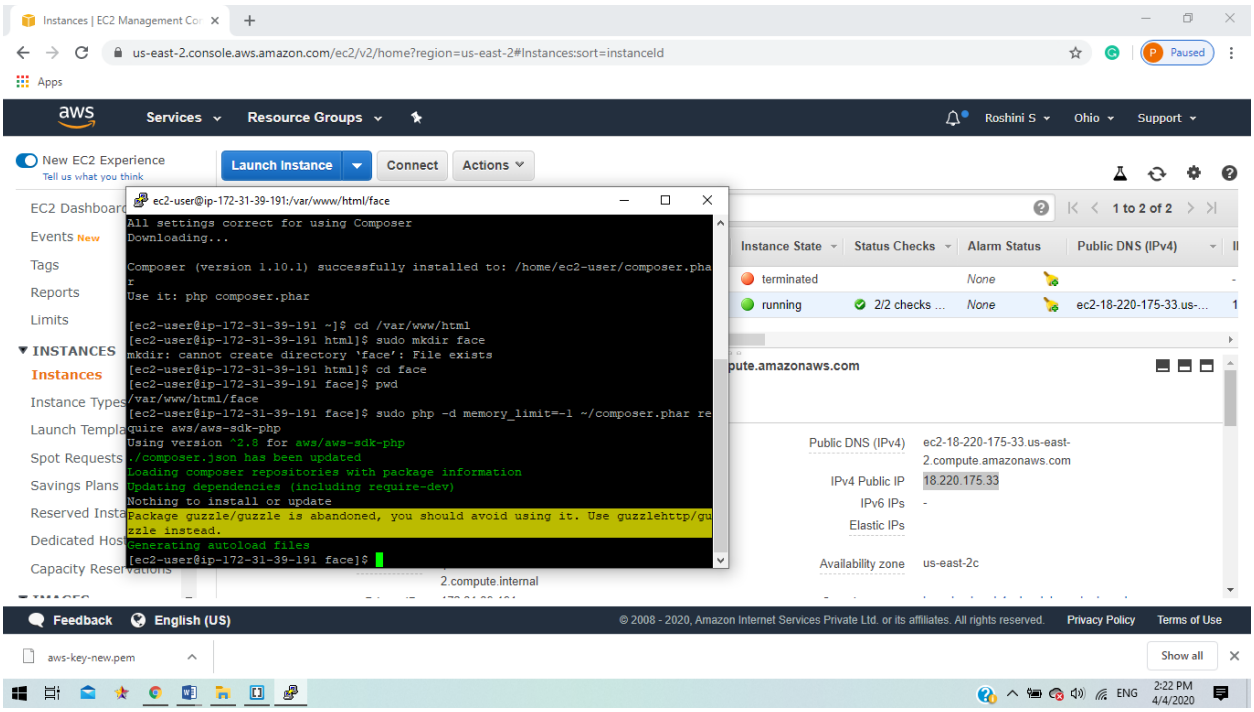
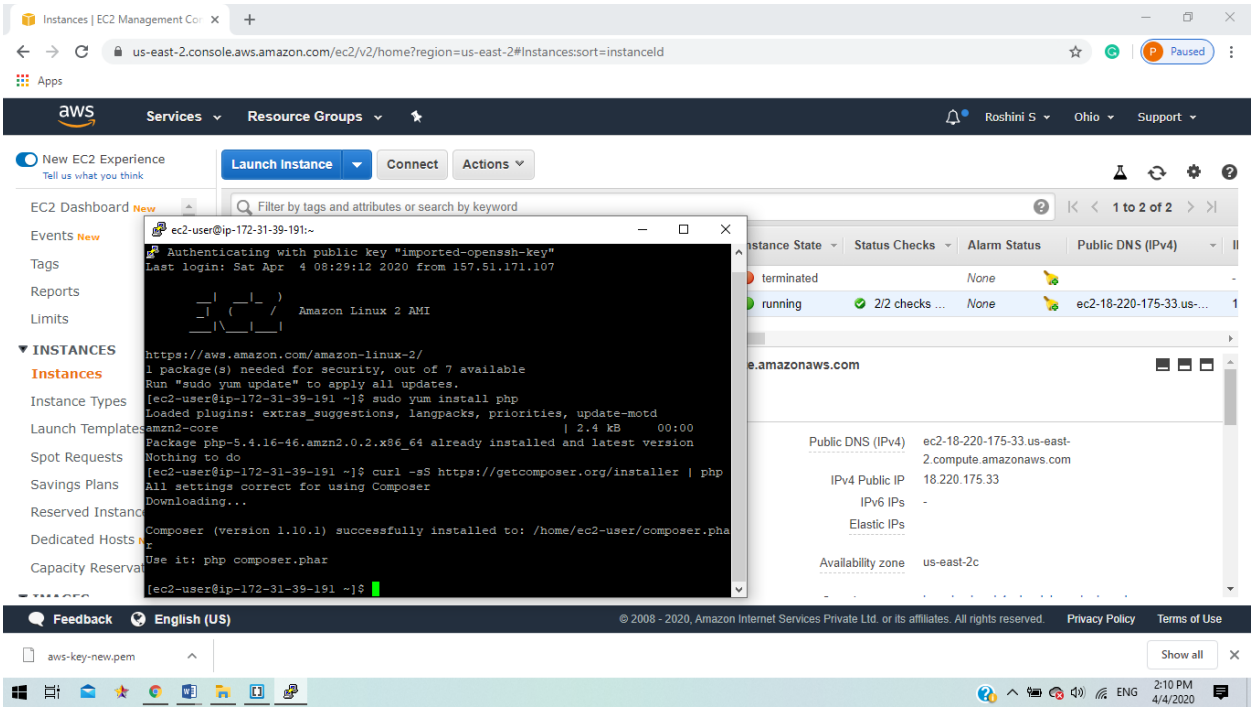
3/31/2020

EC2 & S3:


ec2-user@ip-172-31-39-191:/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-172-31-39-191 ~]$ cd /var/www/html
[ec2-user@ip-172-31-39-191 html]$ sudo mkdir face
mkdir: cannot create directory ‘face’: File exists
[ec2-user@ip-172-31-39-191 html]$ cd face
[ec2-user@ip-172-31-39-191 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-39-191 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-172-31-39-191 face]$
Launch Instance
Connect
Actions
Public DNS (IPv4)
IPv4 Public IP
18.220.175.33
Availability zone
us-east-2c


ec2-user@ip-172-31-39-191:~
Authenticating with public key "imported-openssh-key"
Last login: Sat Apr 4 08:29:12 2020 from 157.51.171.107
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-172-31-39-191 ~]$ sudo yum install php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 2.4 kB 00:00
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-39-191 ~]$ 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
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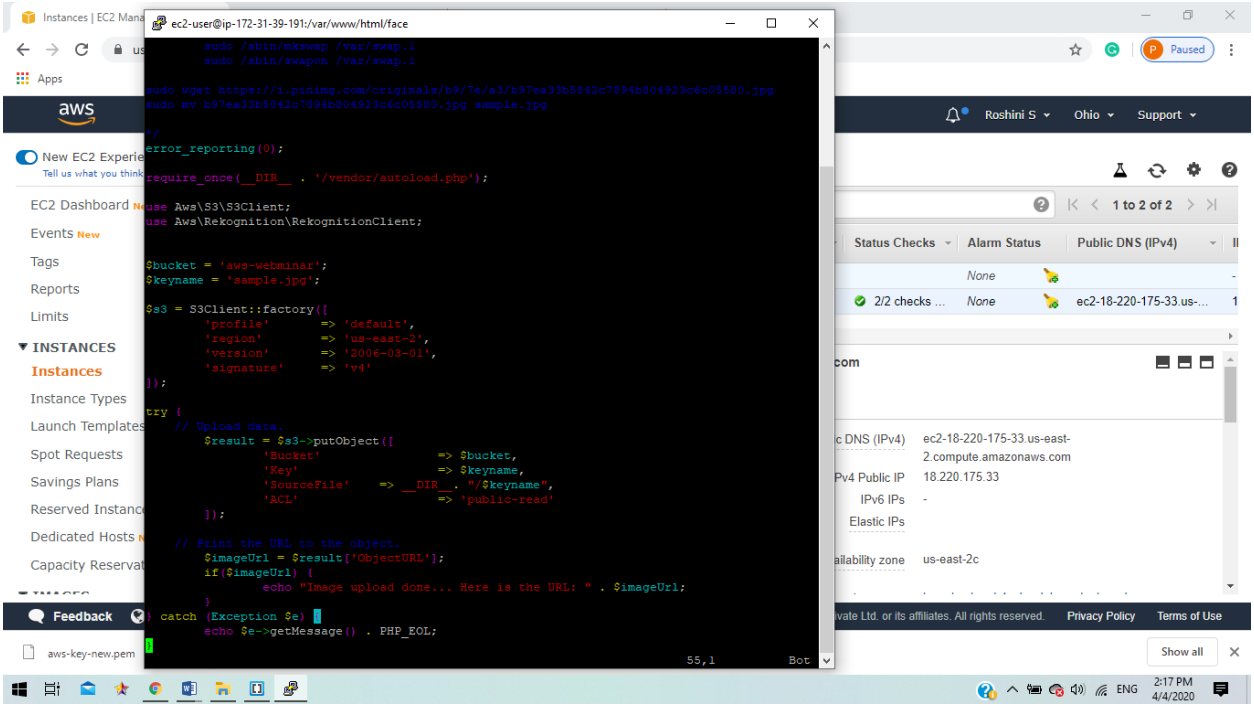
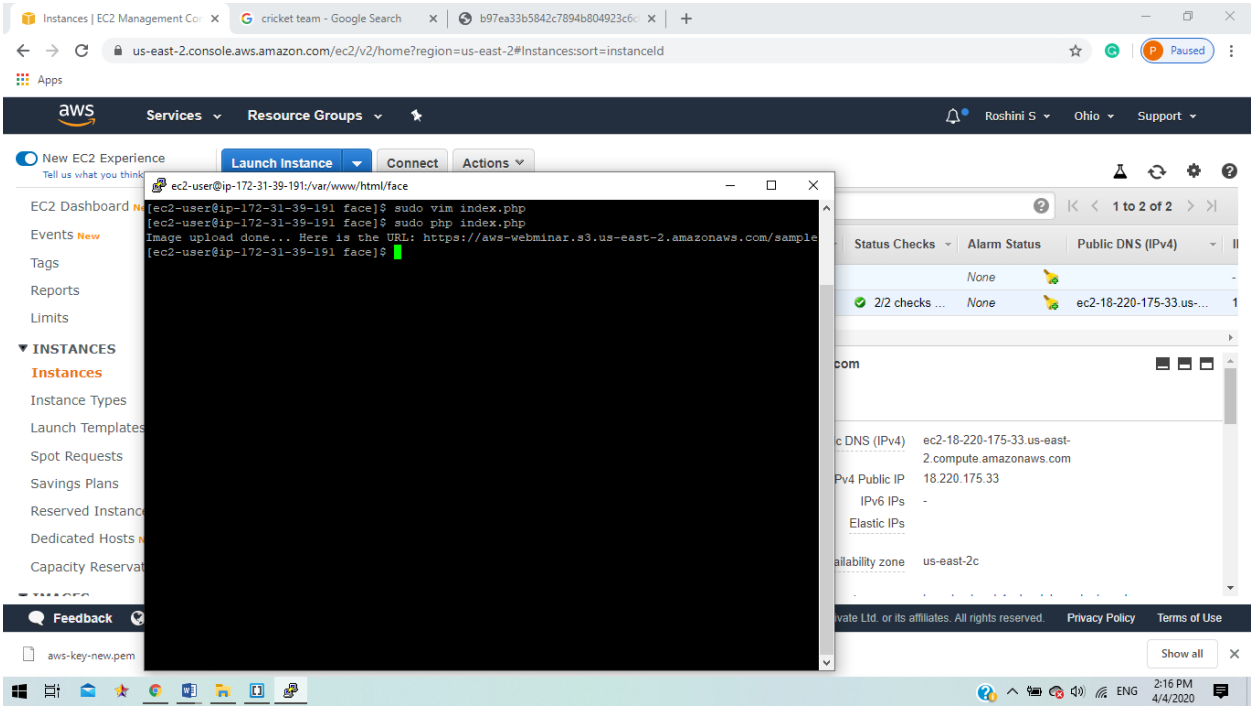
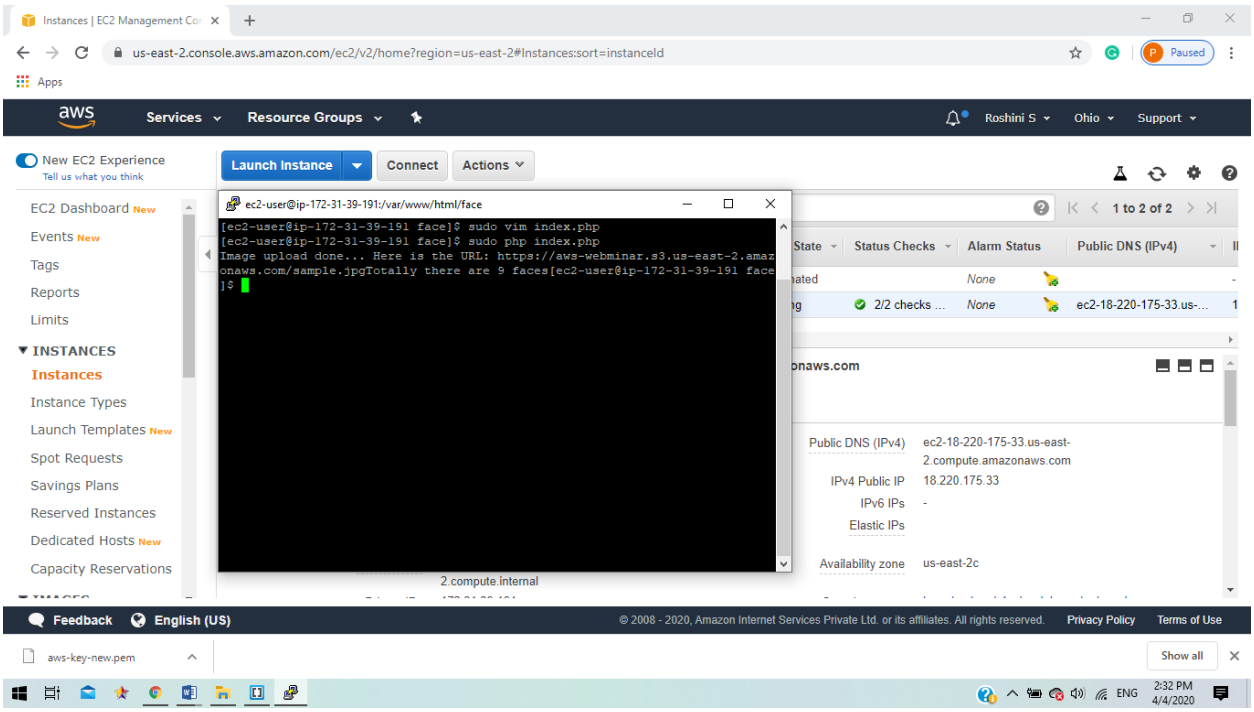

ec2-user@ip-172-31-39-191:/var/www/html/face
sudo /sbin/mkswap /var/swap.1
sudo /sbin/swapon /var/swap.1
sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
*/
error_reporting(0);
require_once(__DIR__ . '/vendor/autoload.php');
use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;
$bucket = 'aws-webminar';
$keyname = 'sample.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;
}
55,1 Bot


ec2-user@ip-172-31-39-191:/var/www/html/face
[ec2-user@ip-172-31-39-191 face]$ sudo vim index.php
[ec2-user@ip-172-31-39-191 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-webminar.s3.us-east-2.amazonaws.com/sample
[ec2-user@ip-172-31-39-191 face]$

EC2 & REKOGNITION: