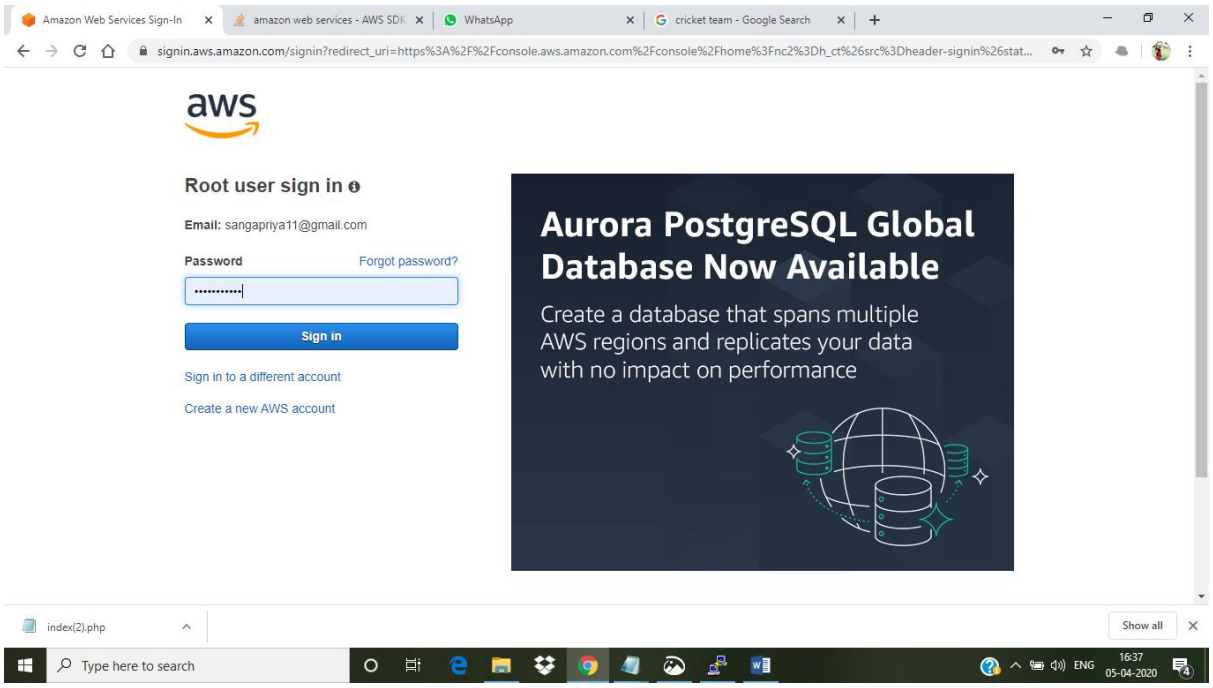
ETHNUS WEBINAR – AWS PROJECT DOCUMENT

NAME: SANGA PRIYA.JB

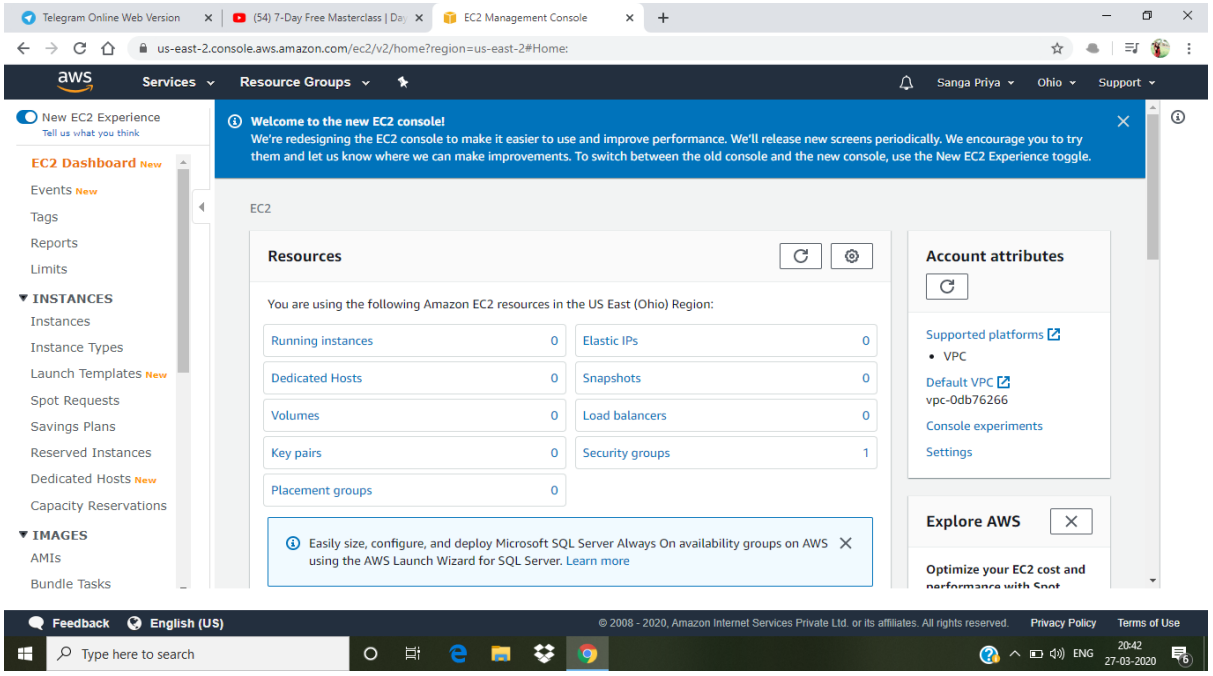
SCREENSHOTS

DASHBOARDS:

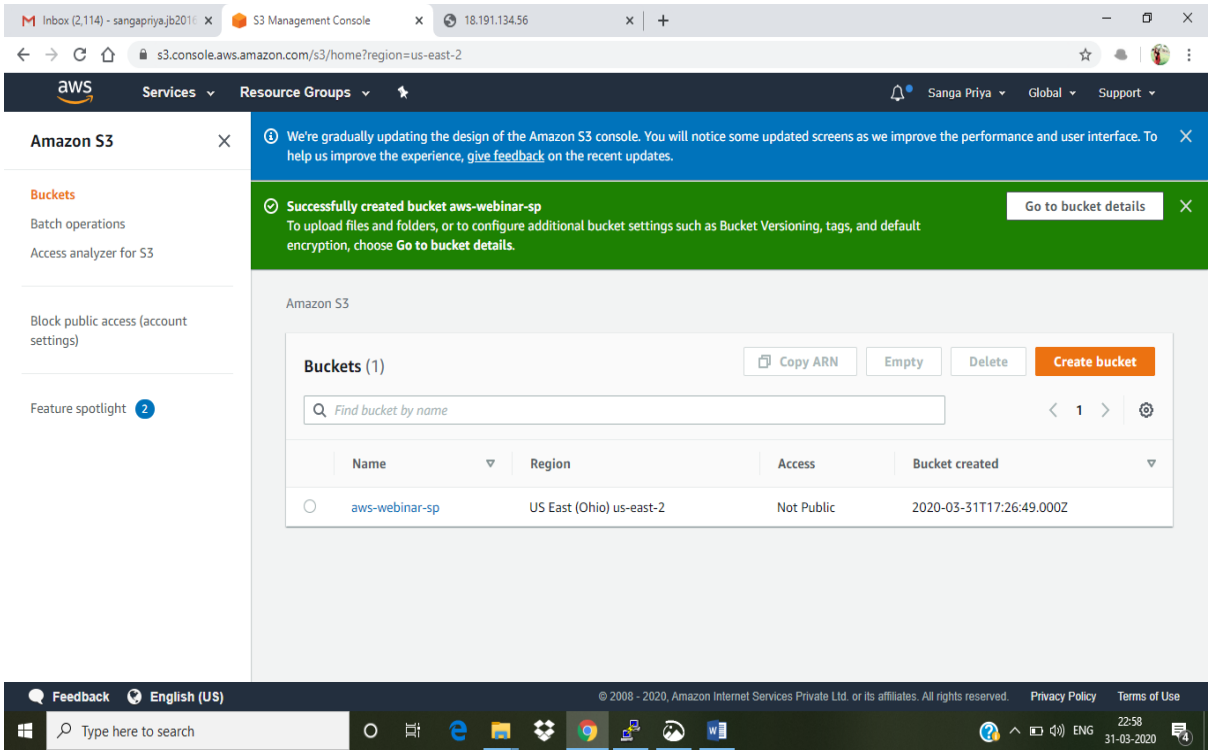
1. AWS login screen



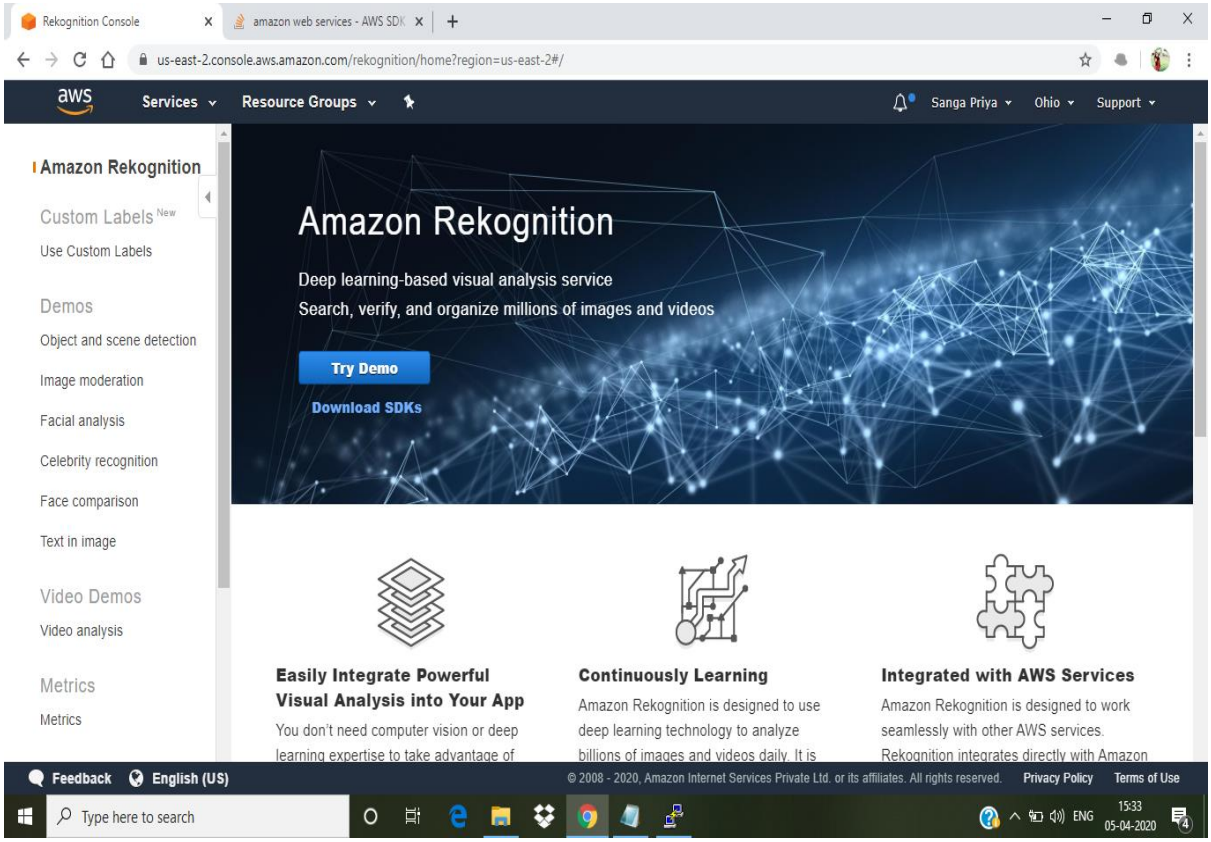
2. EC2 Dashboard



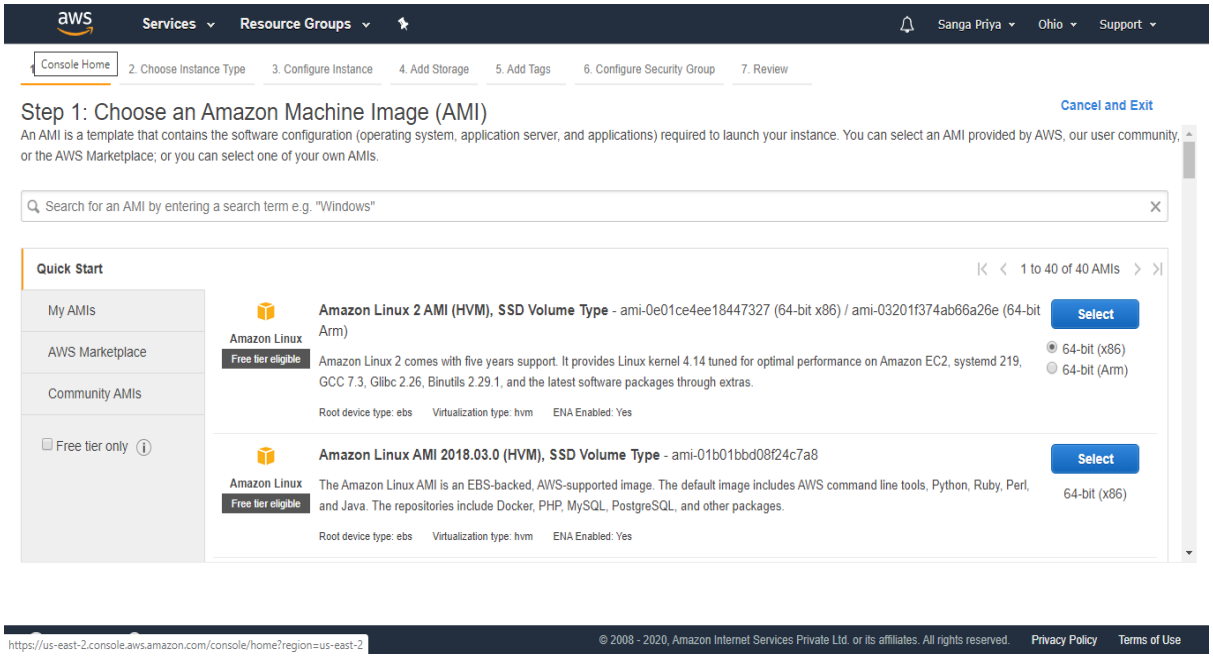
3. S3 Dashboard



4. Rekognition Dashboard



EC2:


aws
Services
Resource Groups
Sanga Priya
Ohio
Support
Console Home
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
64-bit (x86)
64-bit (Arm)
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
Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-01b01bbd08f24c7a8
Select
64-bit (x86)
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.
Root device type: ebs
Virtualization type: hvm
ENA Enabled: Yes
https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2
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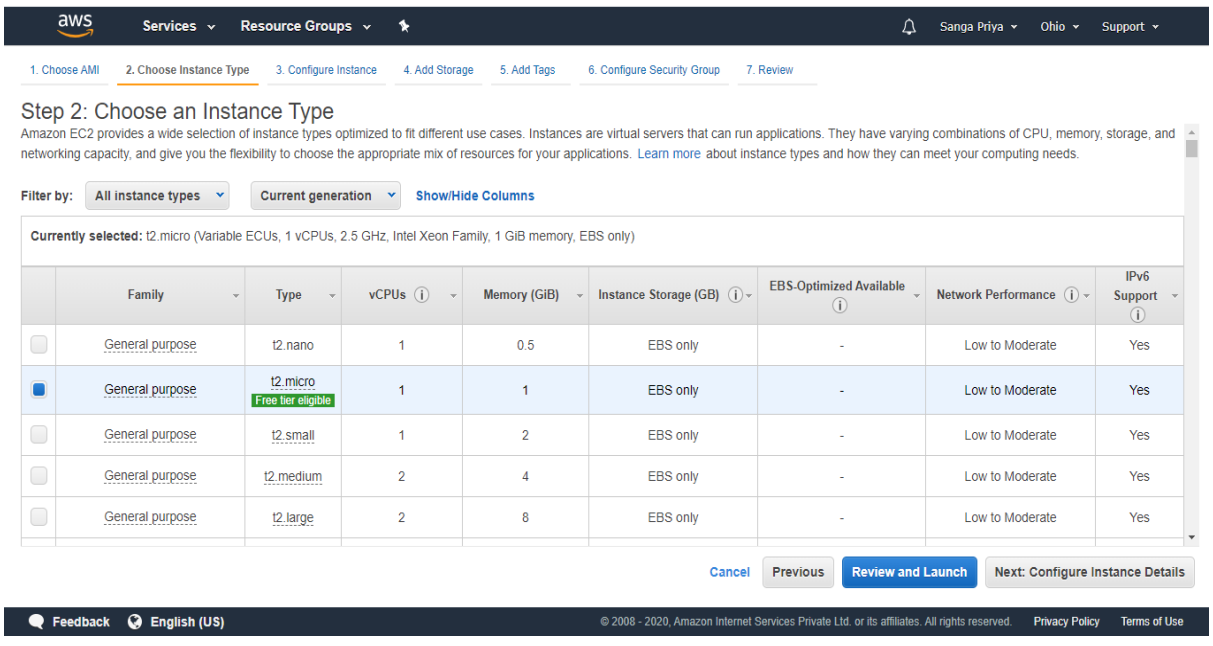
aws
Services
Resource Groups
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Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance 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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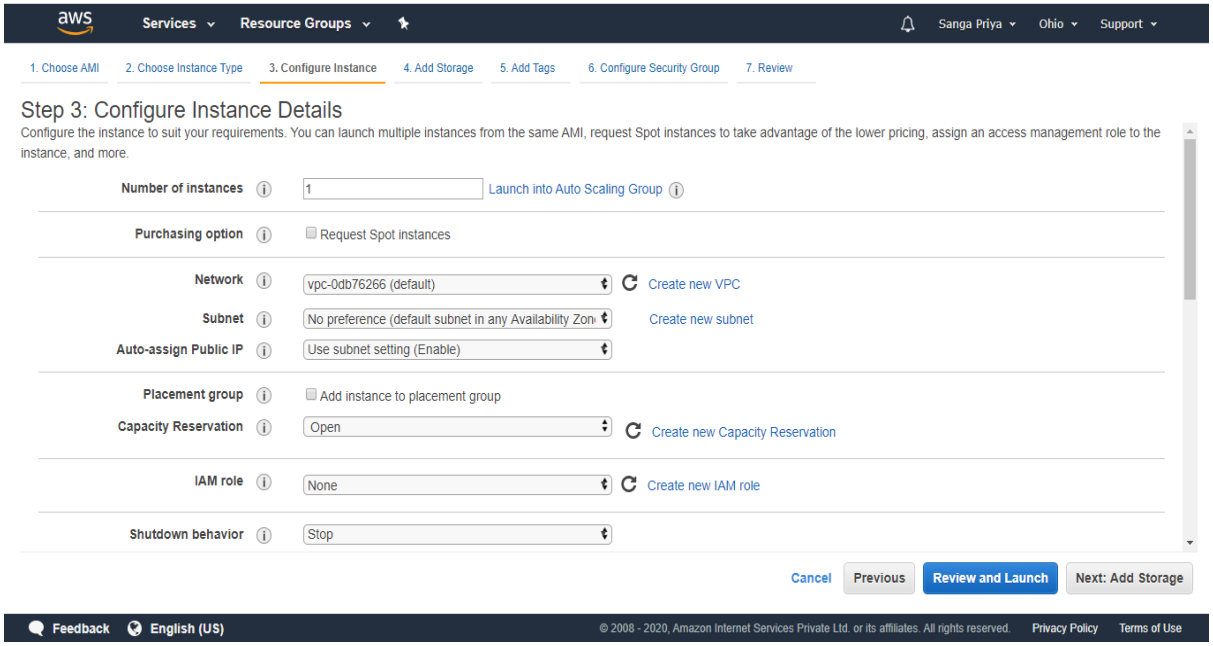
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Services
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
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6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.
Number of instances
1
Launch into Auto Scaling Group
Purchasing option
Request Spot instances
Network
vpc-0db76266 (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zon
Create new subnet
Auto-assign Public IP
Use subnet setting (Enable)
Placement group
Add instance to placement group
Capacity Reservation
Open
Create new Capacity Reservation
IAM role
None
Create new IAM role
Shutdown behavior
Stop
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
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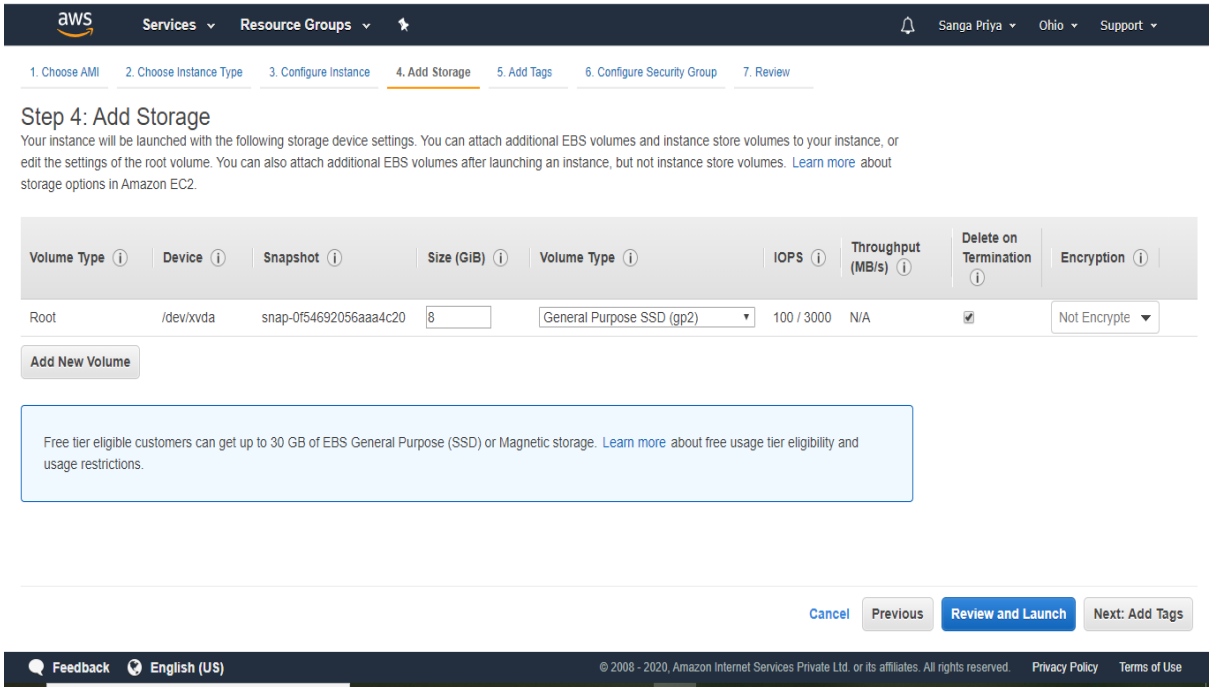
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1. Choose AMI
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5. Add Tags
6. Configure Security Group
7. Review
Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes 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
English (US)
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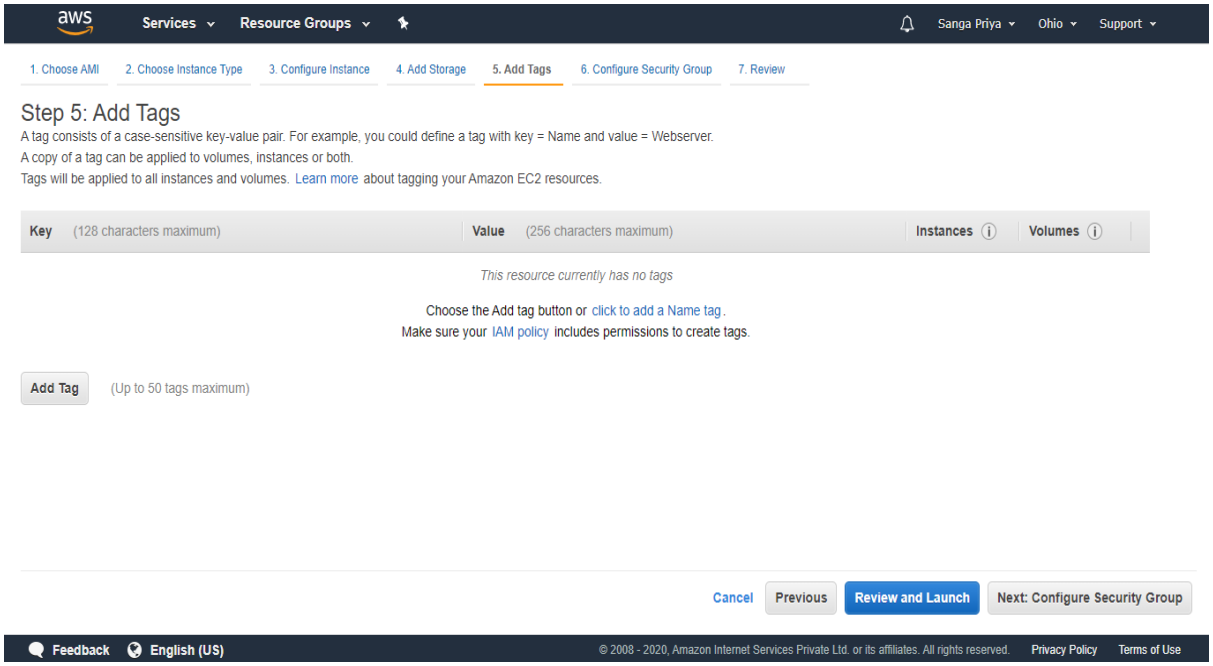
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7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.
Key (128 characters maximum)
Value (256 characters maximum)
Instances
Volumes
This resource currently has no tags
Choose the Add tag button or click to add a Name tag.
Make sure your IAM policy includes permissions to create tags.
Add Tag
(Up to 50 tags maximum)
Cancel
Previous
Review and Launch
Next: Configure Security Group
Feedback
English (US)
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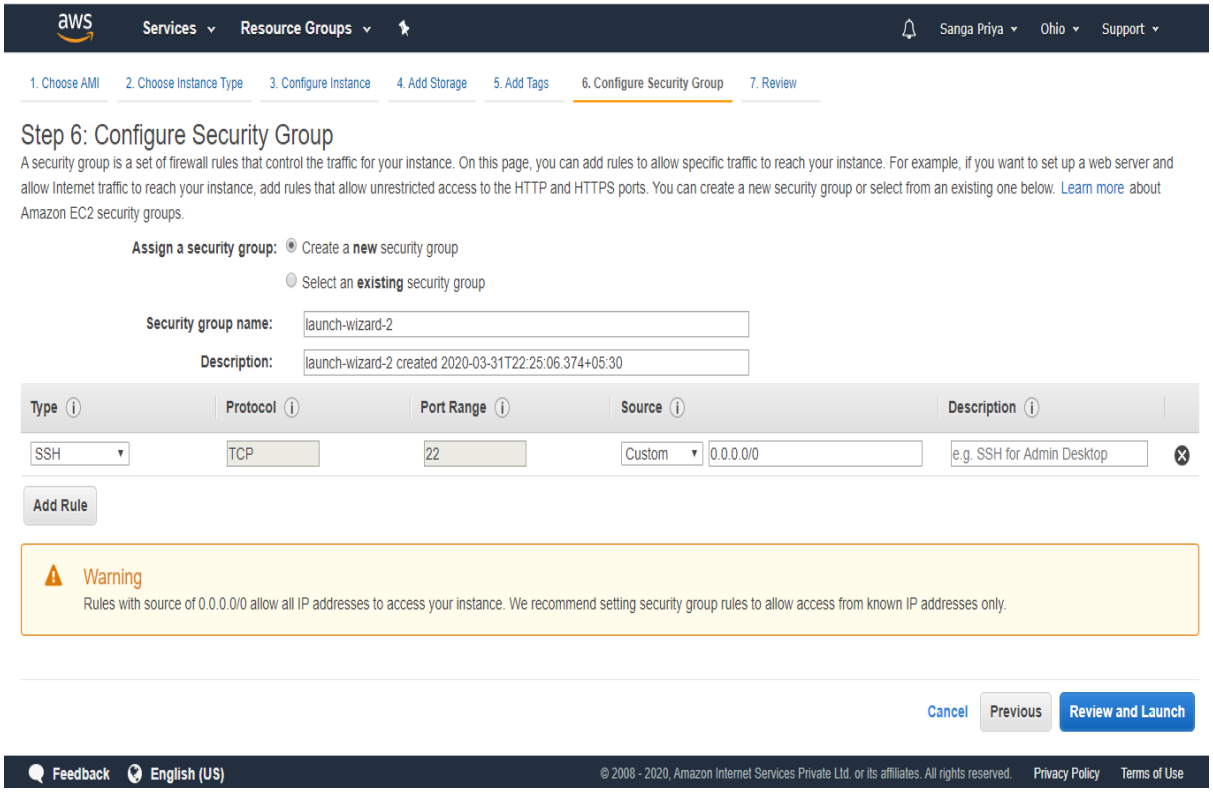
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 6: Configure Security Group
A security group is a set of firewall rules that control the traffic for your instance. 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-2
Description:
launch-wizard-2 created 2020-03-31T22:25:06.374+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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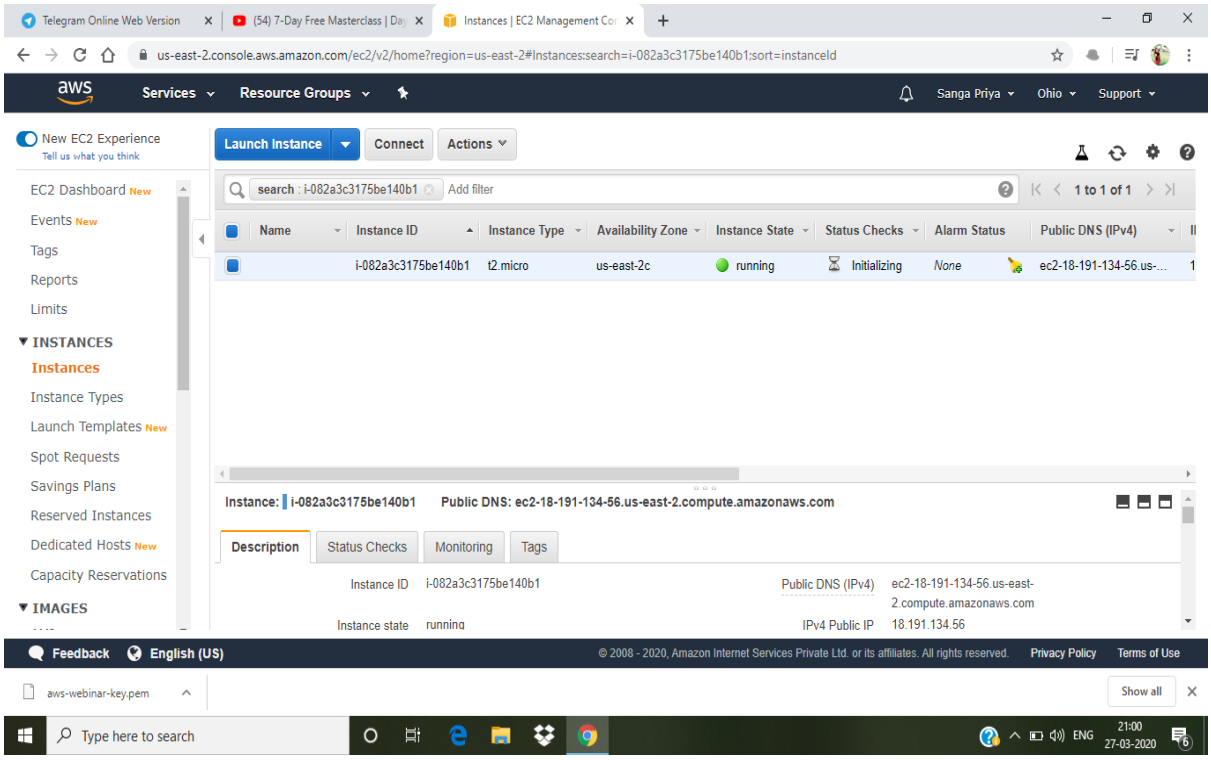
Telegram Online Web Version
(54) 7-Day Free Masterclass | Da
Instances | EC2 Management Cor
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-082a3c3175be140b1;sort=instanceId
aws
Services
Resource Groups
Sanga Priya
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Support
New EC2 Experience
Tell us what you think
EC2 Dashboard New
Events New
Tags
Reports
Limits
INSTANCES
Instances
Instance Types
Launch Templates New
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts New
Capacity Reservations
IMAGES
Launch Instance
Connect
Actions
search : i-082a3c3175be140b1
Add filter
1 to 1 of 1
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
i-082a3c3175be140b1
t2.micro
us-east-2c
running
Initializing
None
ec2-18-191-134-56.us-...
Instance: i-082a3c3175be140b1
Public DNS: ec2-18-191-134-56.us-east-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-082a3c3175be140b1
Instance state
running
Public DNS (IPv4)
ec2-18-191-134-56.us-east-2.compute.amazonaws.com
IPv4 Public IP
18.191.134.56
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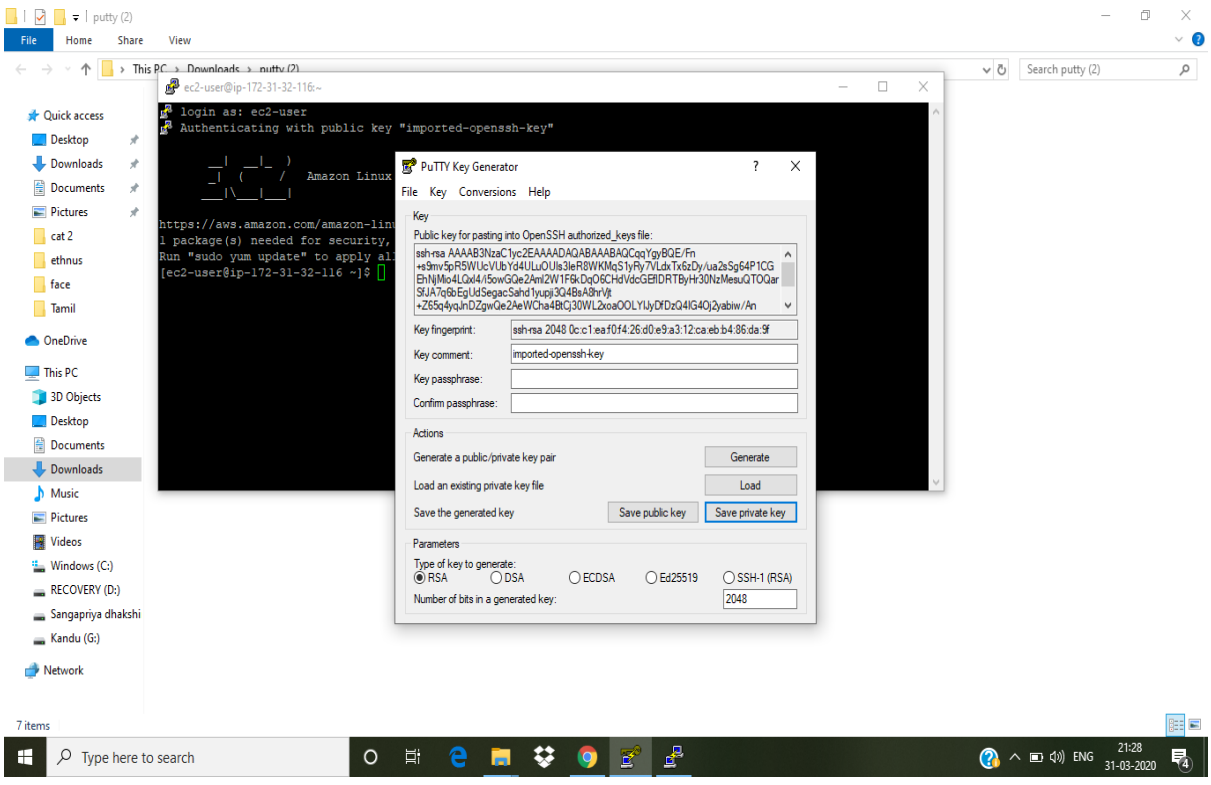
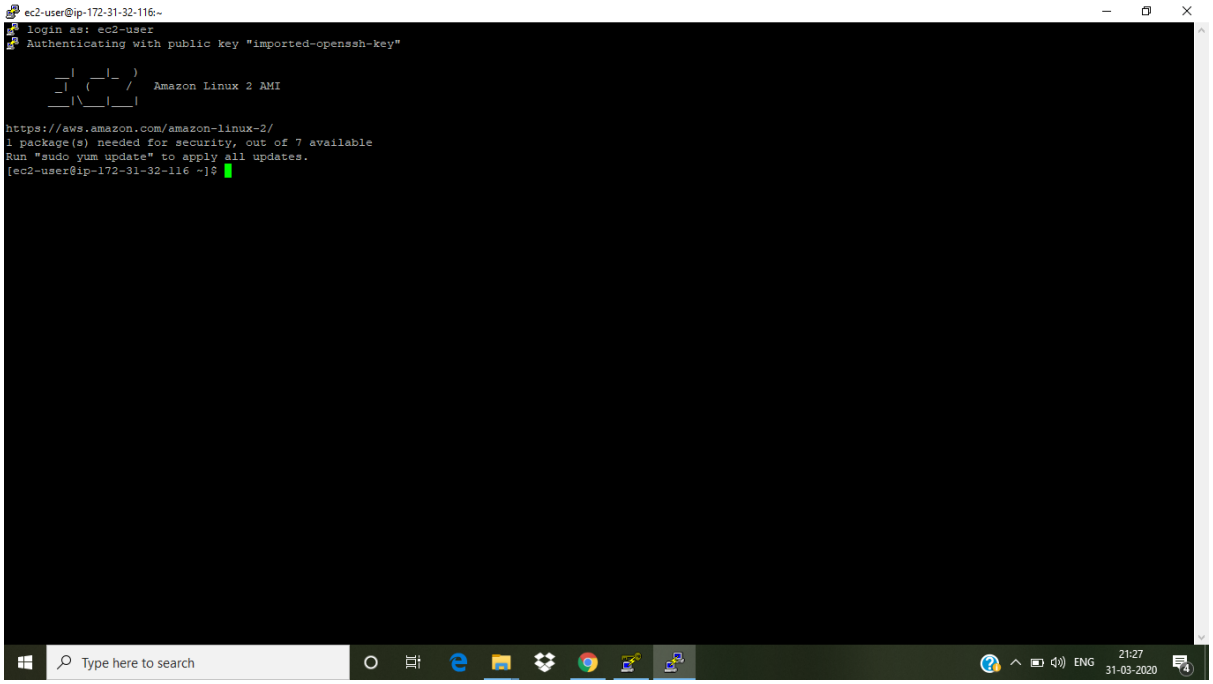
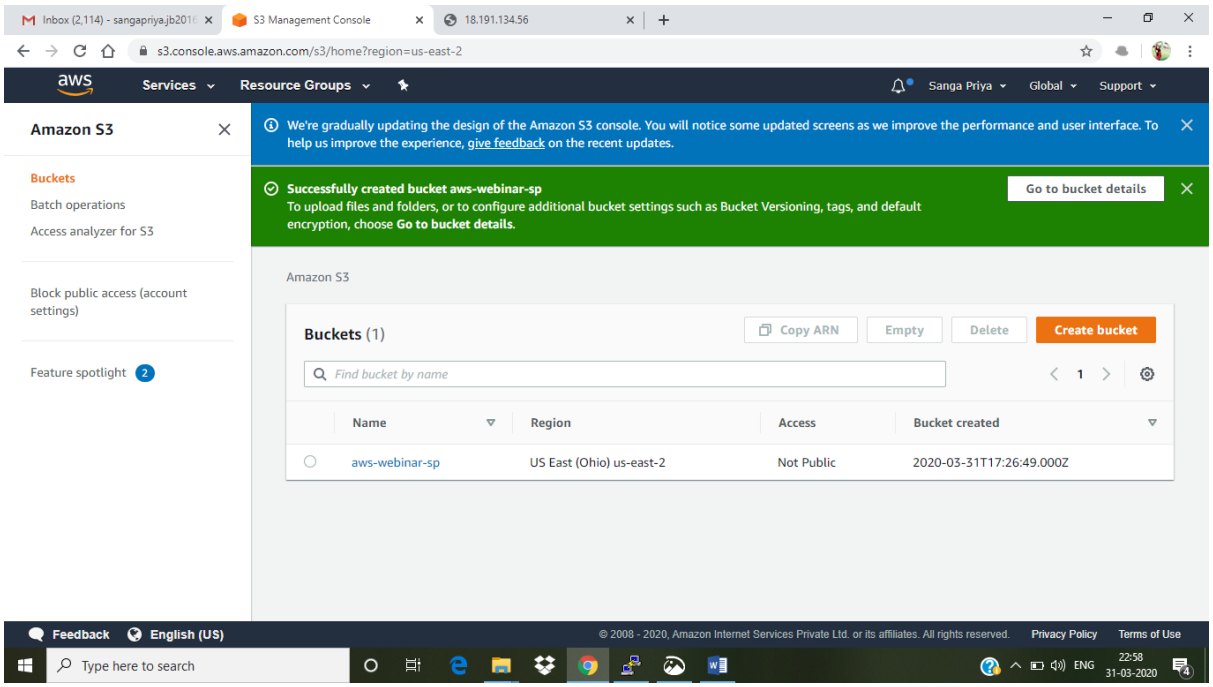
21:00
27-03-2020


putty (2)
File
Home
Share
View
This PC
Downloads
putty (2)
Search putty (2)
Quick access
Desktop
Downloads
Documents
Pictures
cat 2
ethnus
face
Tamil
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
RECOVERY (D:)
Sangapriya dhakshi
Kandu (G:)
Network
ec2-user@ip-172-31-32-116:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Amazon Linux
https://aws.amazon.com/amazon-linux
1 package(s) needed for security,
Run "sudo yum update" to apply all
[ec2-user@ip-172-31-32-116 ~]$
PuTTY Key Generator
File
Key
Conversions
Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQCqqYgyBQE/Fn
+s9mv5pR5WUcVUbYd4ULuOUls3leR8WKMqS1yRy7VLdxTx6zDy/ua2sSg64P1CG
EhNjMio4LQd4/i5owGQe2AmI2W1F6kDqO6CHdVdcGEflDRTByHr30NzMesuQTOQar
SfJA7q8bEgUdSegacSahd1yupji3Q4BsA8hrVjt
+Z65q4yqJnDZgwQe2AeWCha4BtCj30WL2xoaOOLYLlyDfDzQ4lG4Oj2yabiw/An
Key fingerprint:
ssh-rsa 2048 0c:c1:ea:f0:f4:26:d0:e9:a3:12:ca:eb:b4:86:da:9f
Key comment:
imported-openssh-key
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
7 items
Type here to search
ENG
21:28
31-03-2020


ec2-user@ip-172-31-32-116:~
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-172-31-32-116 ~]$
Type here to search
ENG
21:27
31-03-2020

S3:


s3.console.aws.amazon.com/s3/home?region=us-east-2
Services
Resource Groups
Sanga Priya
Global
Support
Amazon S3
Buckets
Batch operations
Access analyzer for S3
Block public access (account settings)
Feature spotlight
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.
Successfully created bucket aws-webinar-sp
To upload files and folders, or to configure additional bucket settings such as Bucket Versioning, tags, and default encryption, choose Go to bucket details.
Go to bucket details
Amazon S3
Buckets (1)
Copy ARN
Empty
Delete
Create bucket
Find bucket by name
Name
Region
Access
Bucket created
aws-webinar-sp
US East (Ohio) us-east-2
Not Public
2020-03-31T17:26:49.000Z
Feedback
English (US)
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22:58
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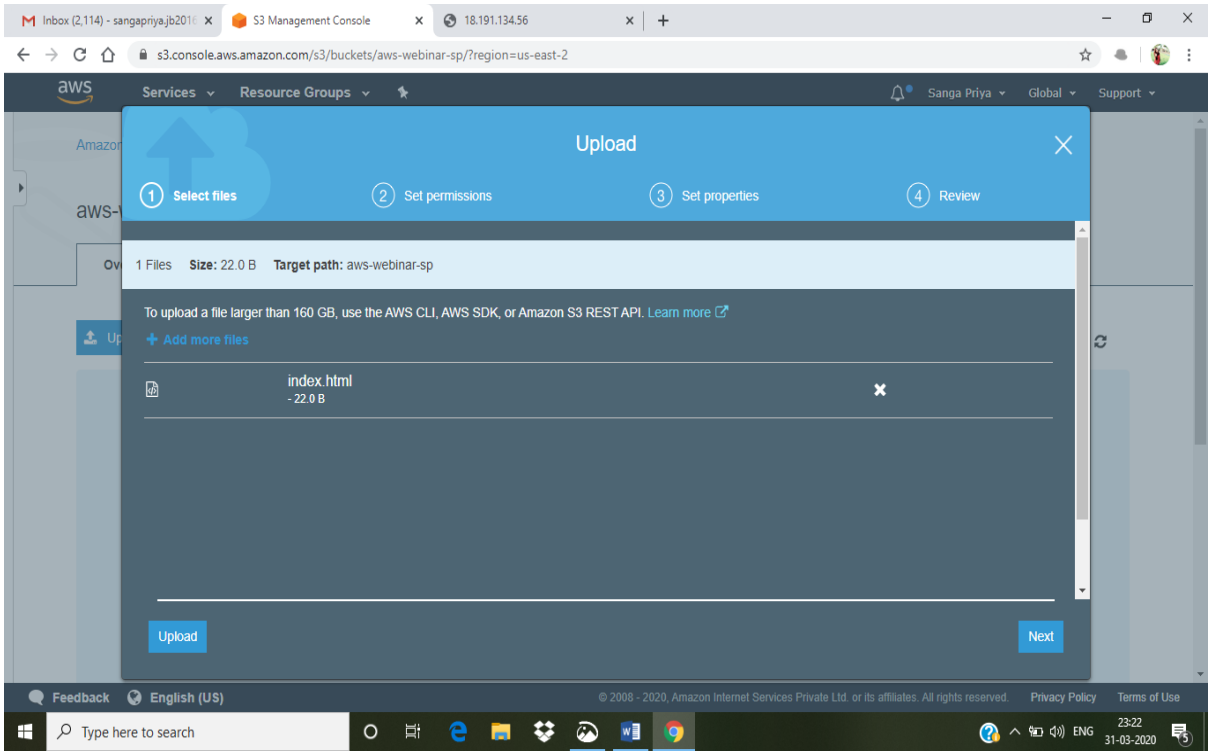
Inbox (2,114) - sangapriya.jb201
S3 Management Console
18.191.134.56
s3.console.aws.amazon.com/s3/buckets/aws-webinar-sp/?region=us-east-2
Services
Resource Groups
Sanga Priya
Global
Support
Upload
1 Select files
2 Set permissions
3 Set properties
4 Review
1 Files Size: 22.0 B Target path: aws-webinar-sp
To upload a file larger than 160 GB, use the AWS CLI, AWS SDK, or Amazon S3 REST API. Learn more
Add more files
index.html
- 22.0 B
Upload
Next
Feedback
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23:22
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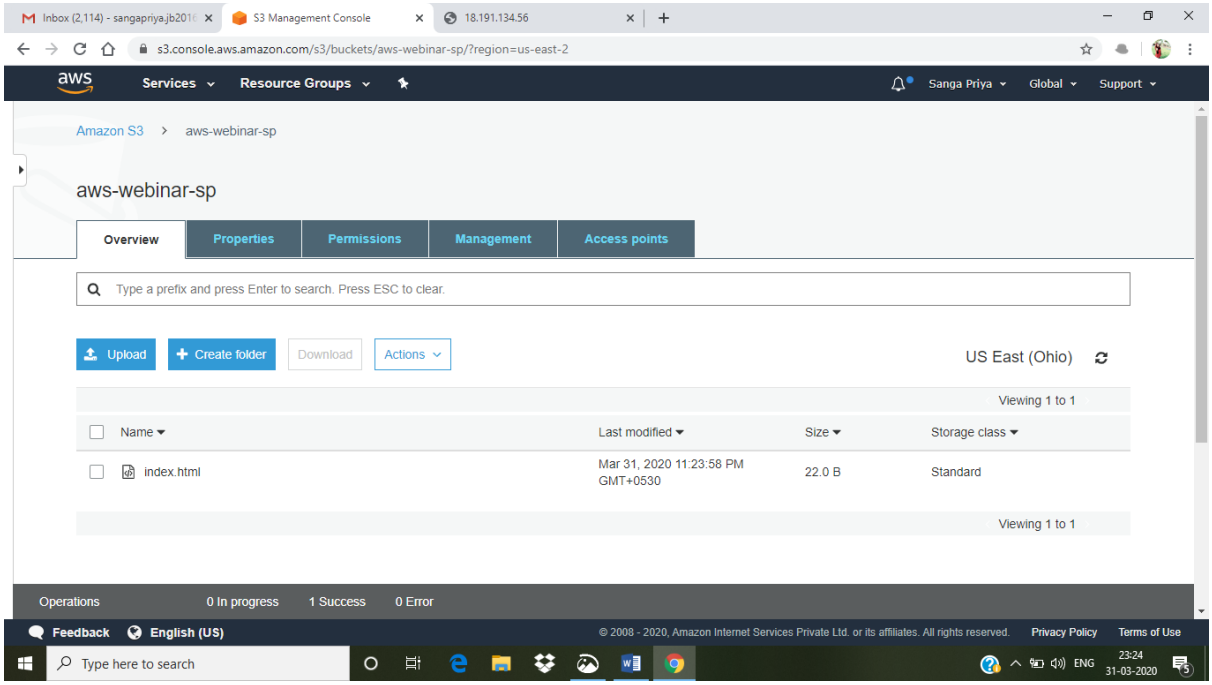
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S3 Management Console
18.191.134.56
s3.console.aws.amazon.com/s3/buckets/aws-webinar-sp/?region=us-east-2
Services
Resource Groups
Sanga Priya
Global
Support
Amazon S3
aws-webinar-sp
aws-webinar-sp
Overview
Properties
Permissions
Management
Access 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 31, 2020 11:23:58 PM GMT+0530
22.0 B
Standard
Viewing 1 to 1
Operations
0 In progress
1 Success
0 Error
Feedback
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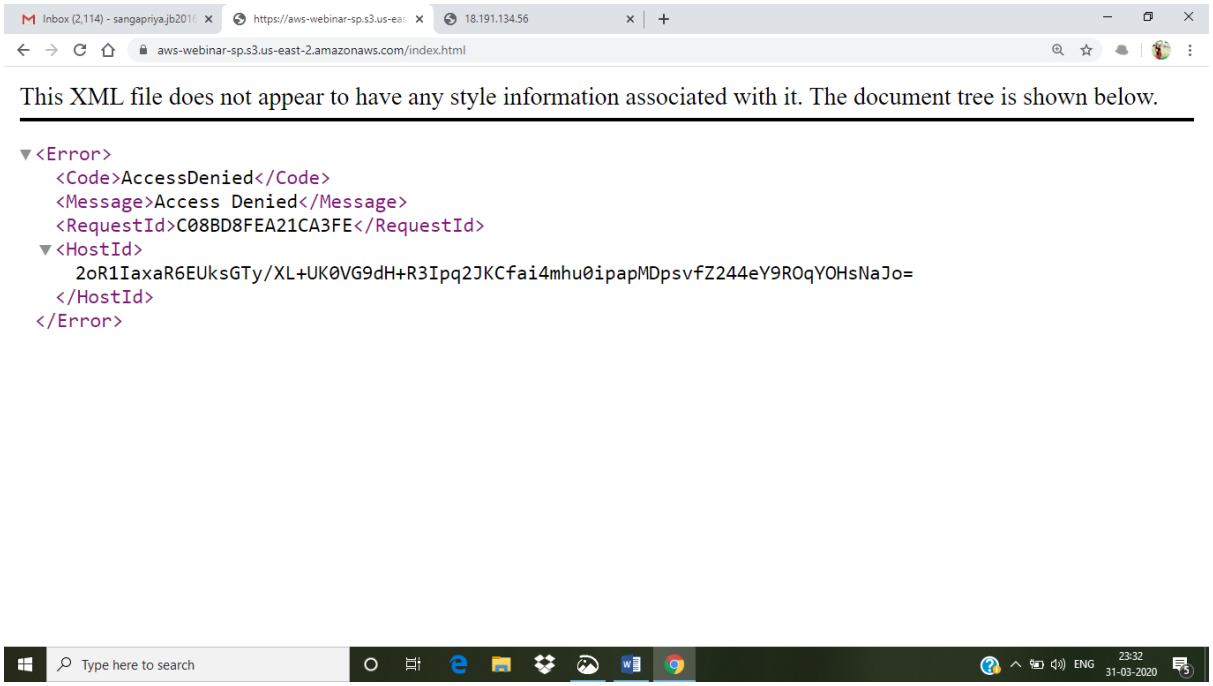
ENG
23:24
31-03-2020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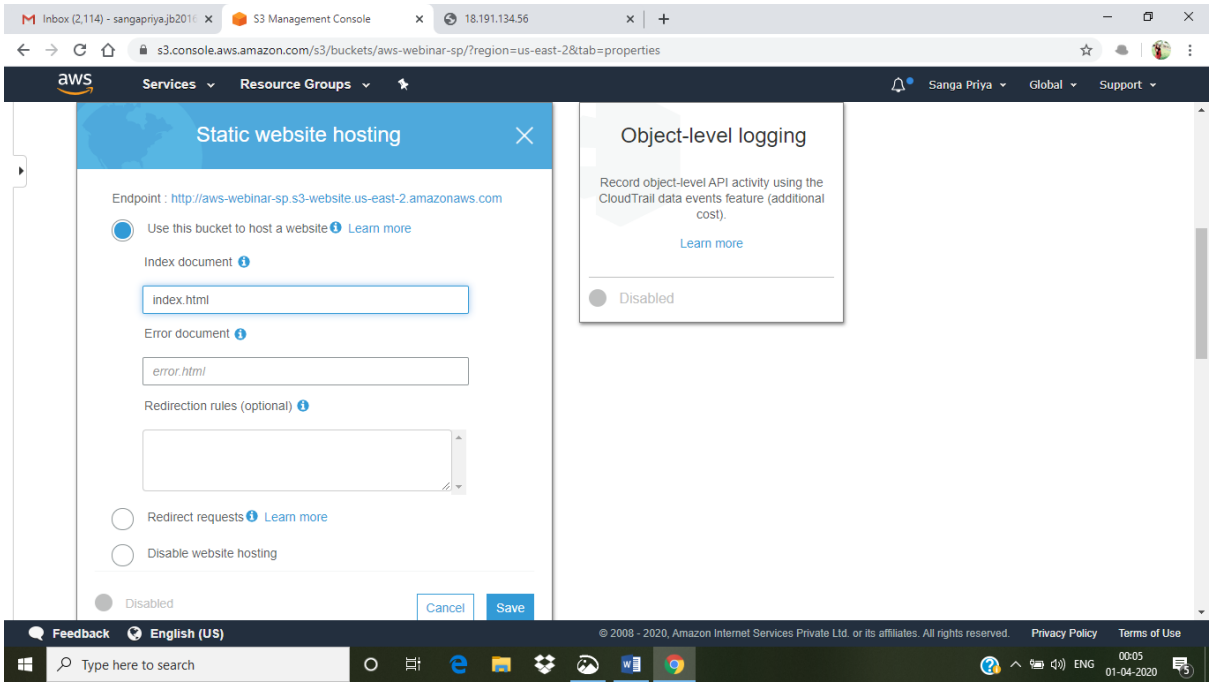
https://aws-webinar-sp.s3.us-ea
18.191.134.56
aws-webinar-sp.s3.us-east-2.amazonaws.com/index.html
This XML file does not appear to have any style information associated with it. The document tree is shown below.
<Error>
<Code>AccessDenied</Code>
<Message>Access Denied</Message>
<RequestId>C08BD8FEA21CA3FE</RequestId>
<HostId>
2oR1IaxaR6EUksGTy/XL+UK0VG9dH+R3Ipq2JKCfai4mhu0ipapMDpsvfZ244eY9ROqYOHsNaJo=
</HostId>
</Error>
Type here to search
ENG
23:32
31-03-2020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S3 Management Console
18.191.134.56
s3.console.aws.amazon.com/s3/buckets/aws-webinar-sp/?region=us-east-2&tab=properties
aws
Services
Resource Groups
Sanga Priya
Global
Support
Static website hosting
Endpoint : http://aws-webinar-sp.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
Feedback
English (US)
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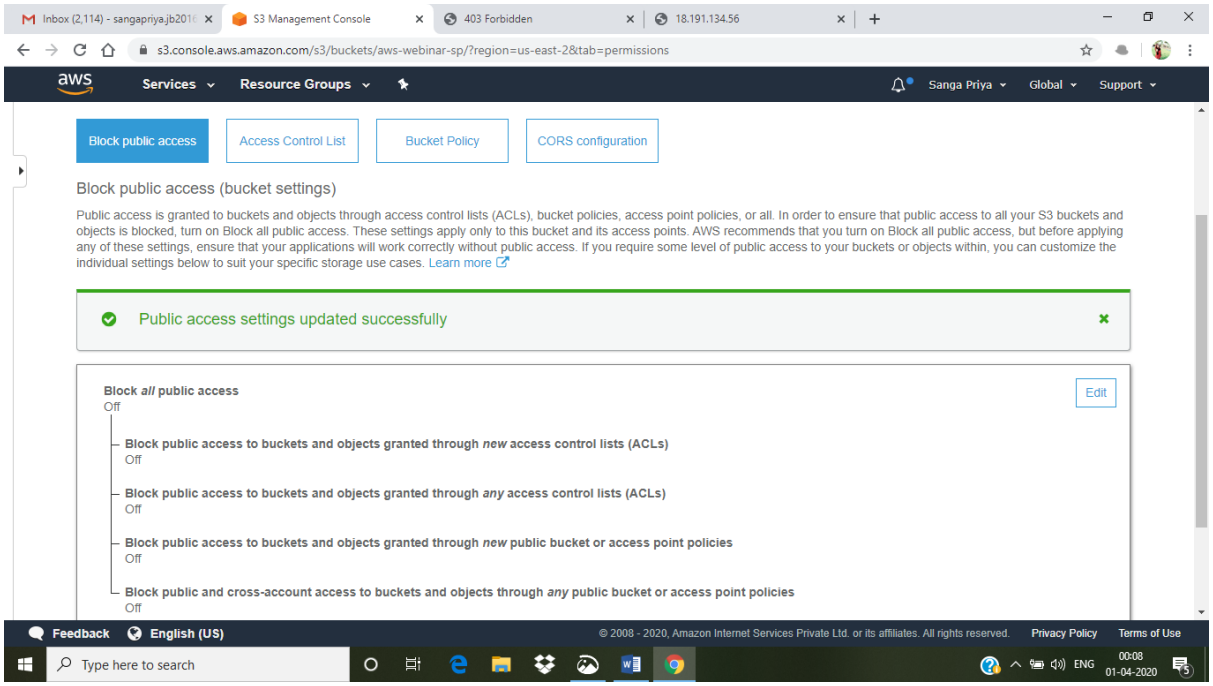
Inbox (2,114) - sangapriya.jb201
S3 Management Console
403 Forbidden
18.191.134.56
s3.console.aws.amazon.com/s3/buckets/aws-webinar-sp/?region=us-east-2&tab=permissions
aws
Services
Resource Groups
Sanga Priya
Global
Support
Block public access
Access Control List
Bucket Policy
CORS configuration
Block public access (bucket settings)
Public access settings updated successfully
Edit
Block all public access
Off
Block public access to buckets and objects granted through new access control lists (ACLs)
Off
Block public access to buckets and objects granted through any access control lists (ACLs)
Off
Block public access to buckets and objects granted through new public bucket or access point policies
Off
Block public and cross-account access to buckets and objects through any public bucket or access point policies
Off
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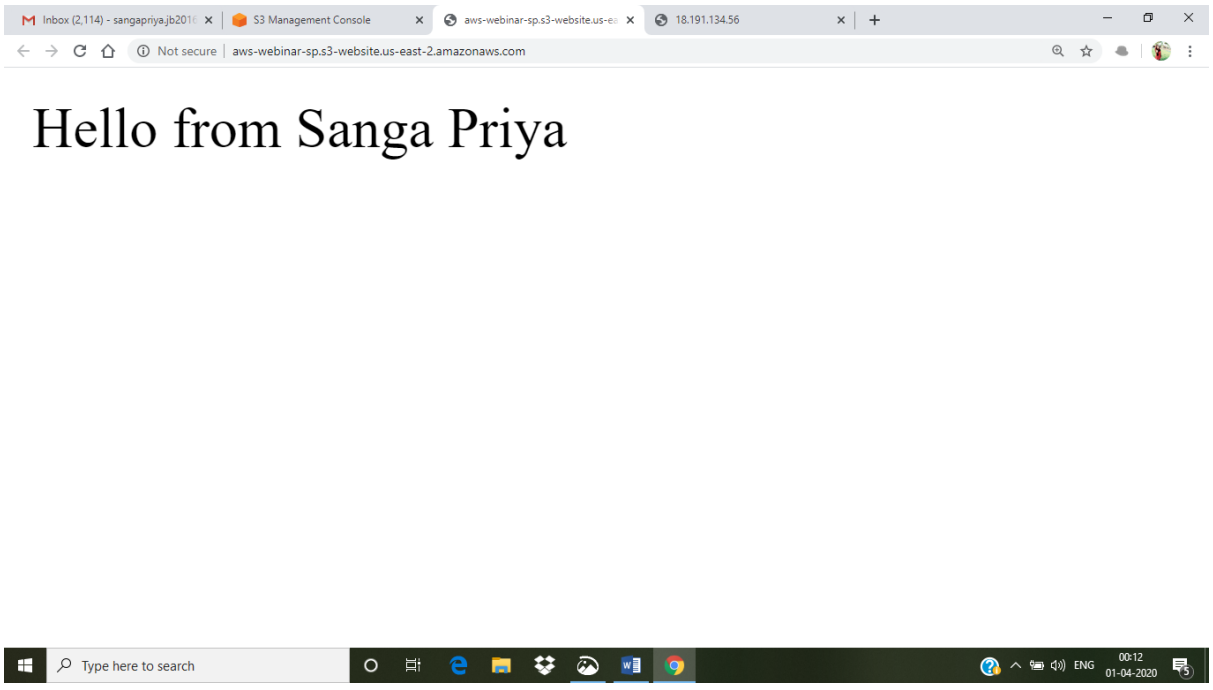
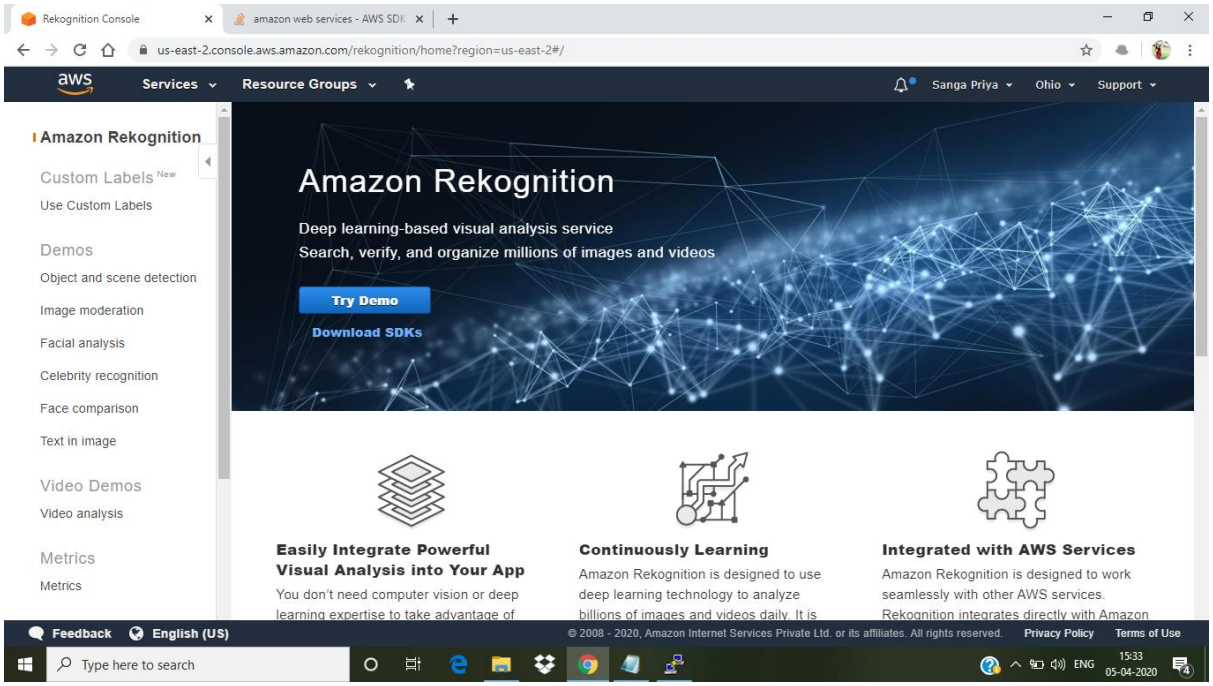
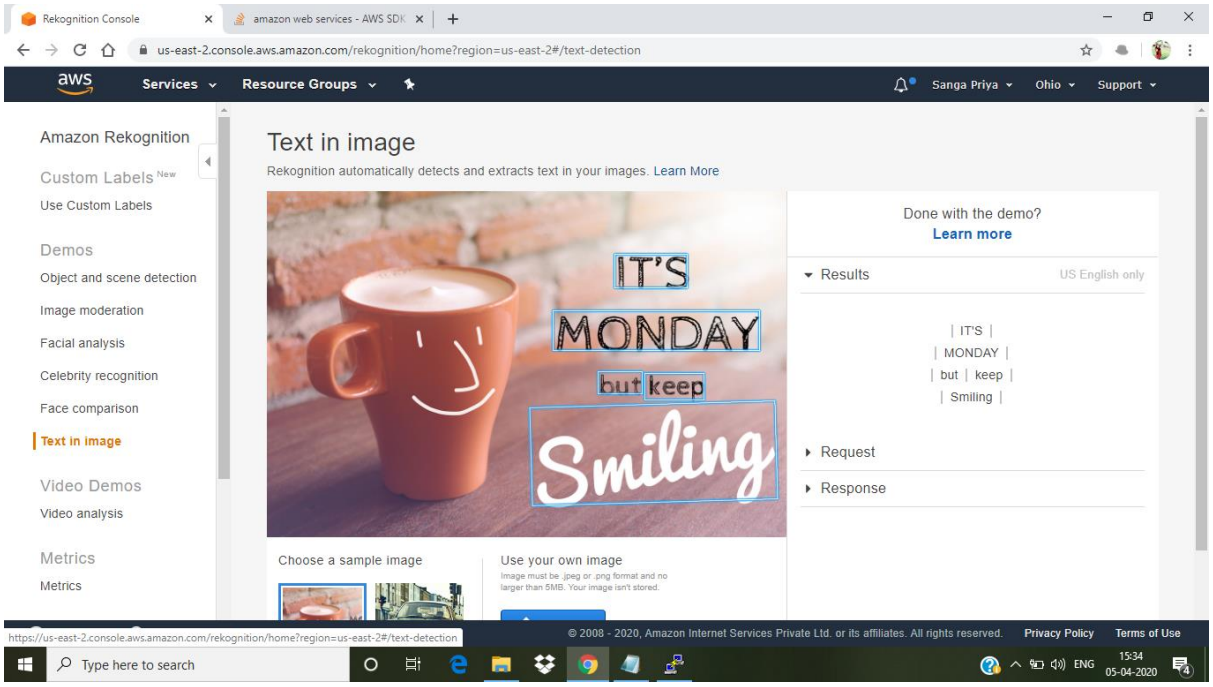
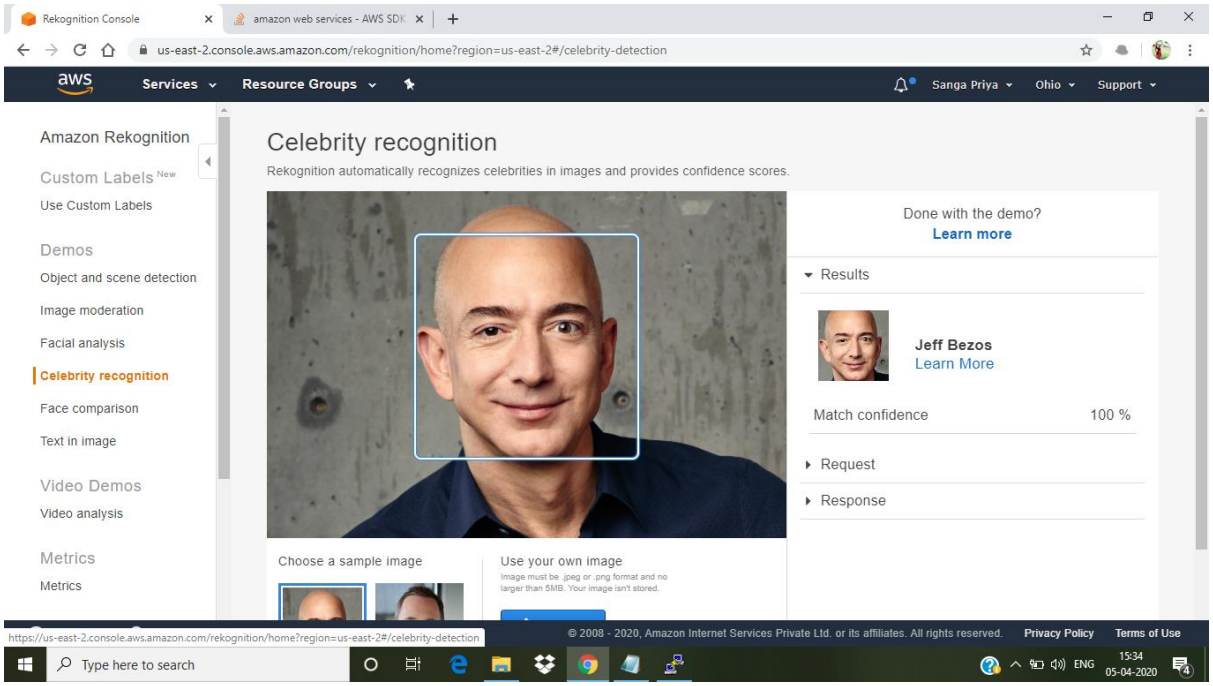
00:08
01-04-2020


Inbox (2,114) - sangapriya.jb201
S3 Management Console
aws-webinar-sp.s3-website.us-ea
18.191.134.56
Not secure
aws-webinar-sp.s3-website.us-east-2.amazonaws.com
Hello from Sanga Priya
Type here to search
ENG
00:12
01-04-2020

Rekognition:






Rekognition Console
amazon web services - AWS SDK
us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/celebrity-detection
aws
Services
Resource Groups
Sanga Priya
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
Jeff Bezos
Learn More
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.
https://us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/celebrity-detection
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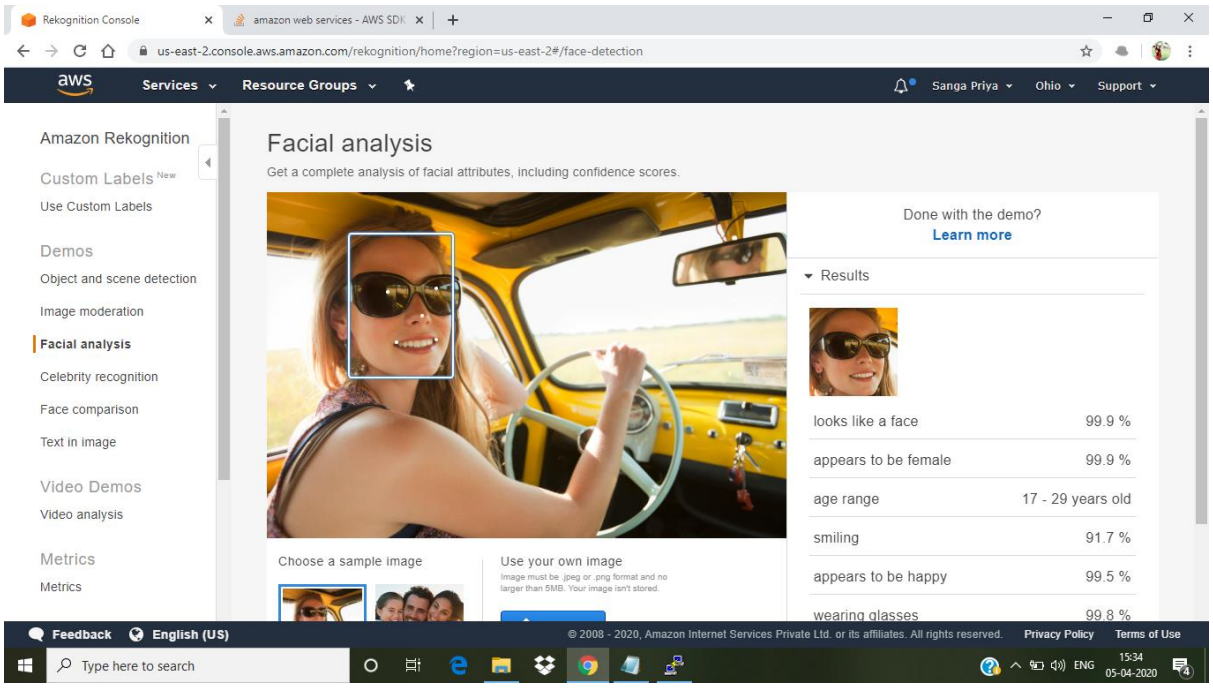
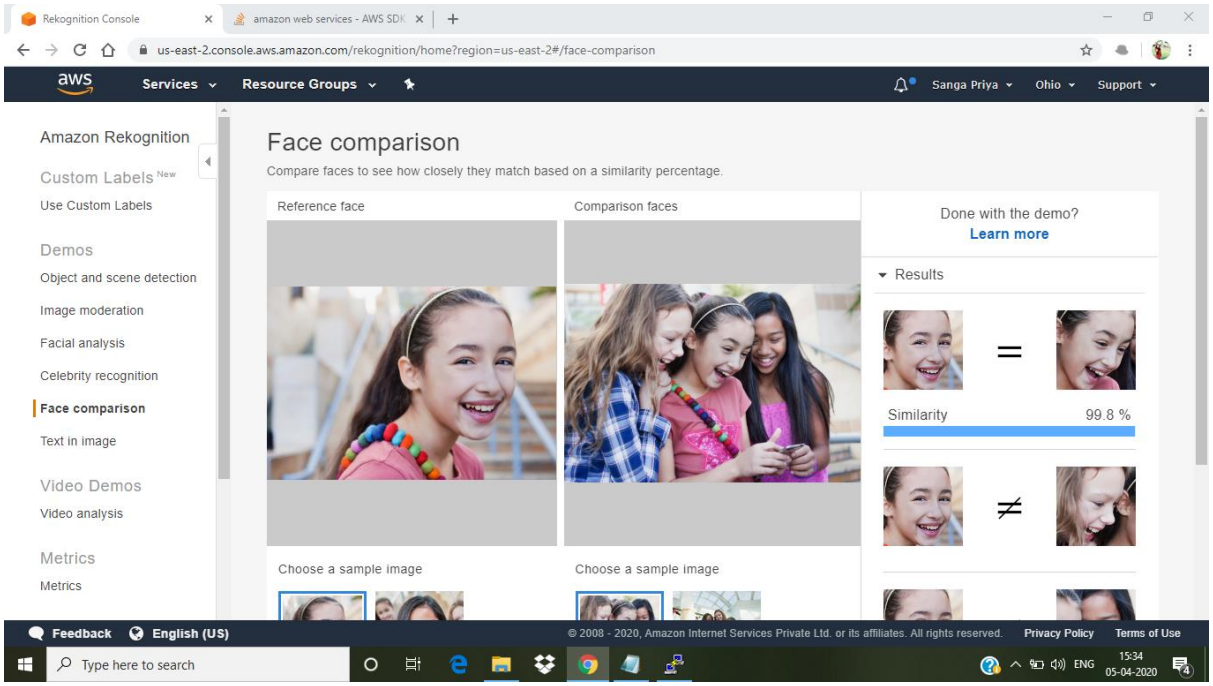
Privacy Policy
Terms of Use
Type here to search
ENG
15:34
05-04-2020


Rekognition Console
amazon web services - AWS SDK
us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/face-detection
aws
Services
Resource Groups
Sanga Priya
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
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 %
appears to be happy
99.5 %
wearing glasses
99.8 %
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)
© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
Type here to search
ENG
15:34
05-04-2020


Rekognition Console
amazon web services - AWS SDK
us-east-2.console.aws.amazon.com/rekognition/home?region=us-east-2#/face-comparison
aws
Services
Resource Groups
Sanga Priya
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
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 %
Choose a sample image
Choose a sample image
Feedback
English (US)
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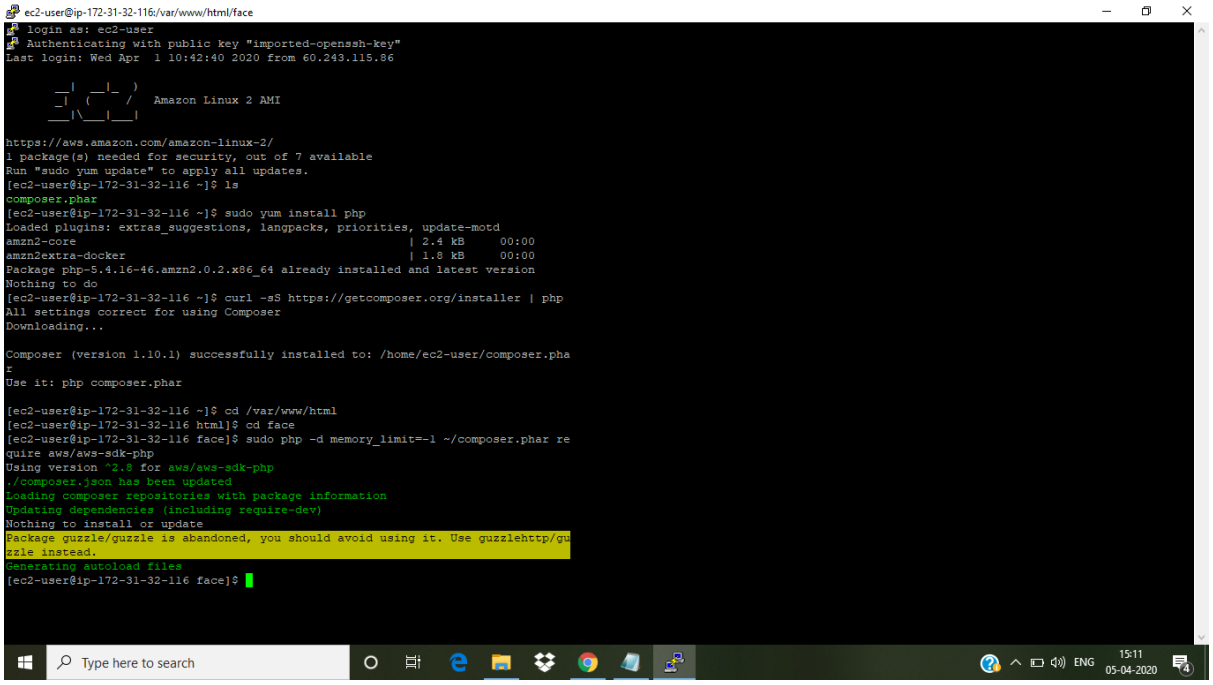
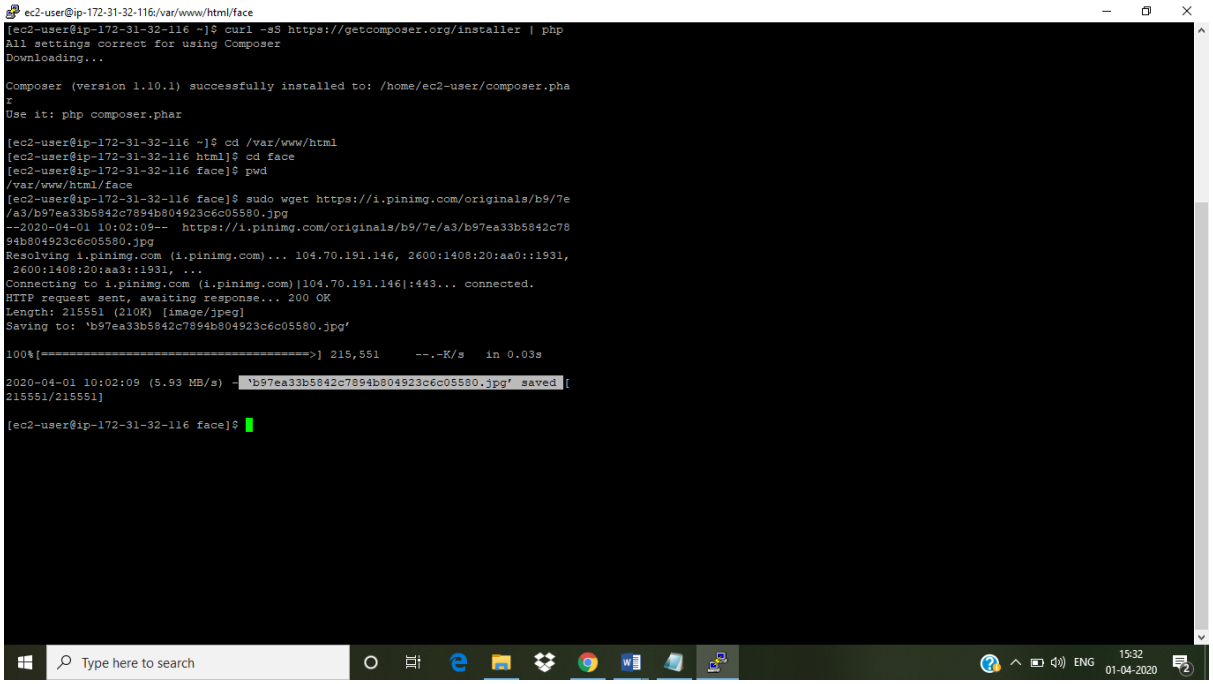
Terms of Use
Type here to search
ENG
15:34
05-04-2020

EC2 AND S3:


ec2-user@ip-172-31-32-116:/var/www/html/face
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Wed Apr 1 10:42:40 2020 from 60.243.115.86
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-172-31-32-116 ~]$ ls
composer.phar
[ec2-user@ip-172-31-32-116 ~]$ 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
Package php-5.4.16-46.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-32-116 ~]$ 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-172-31-32-116 ~]$ cd /var/www/html
[ec2-user@ip-172-31-32-116 html]$ cd face
[ec2-user@ip-172-31-32-116 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-172-31-32-116 face]$
Type here to search
ENG
15:11
05-04-2020



Index.php file code:

<?php

/*

Install php - sudo yum install php

curl -sS https://getcomposer.org/installer | php

cd /var/www/html

sudo mkdir face

cd face

sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php

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

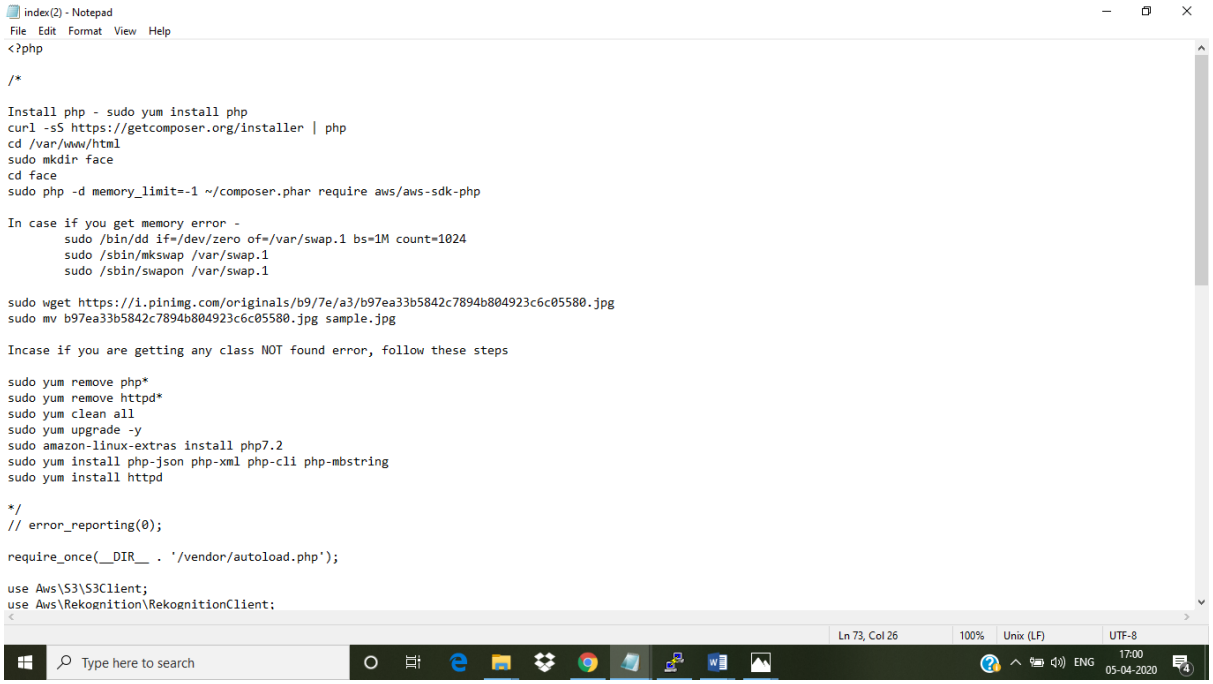
sudo /sbin/swapon /var/swap.1

sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg

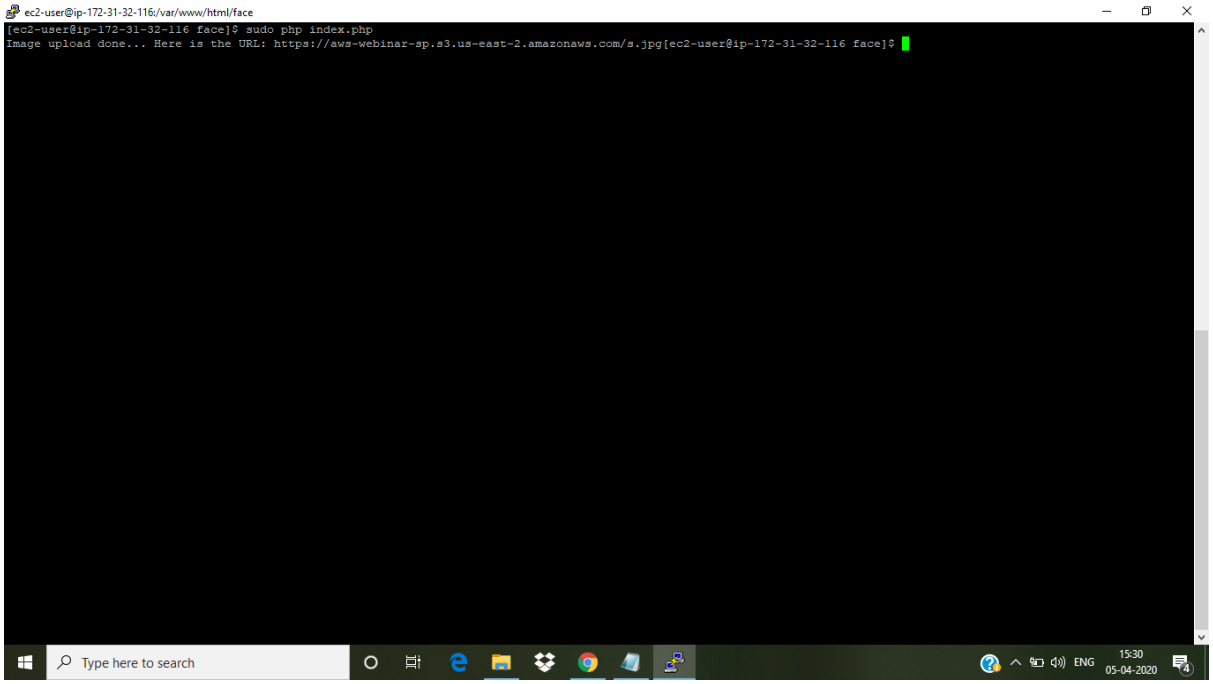
sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg

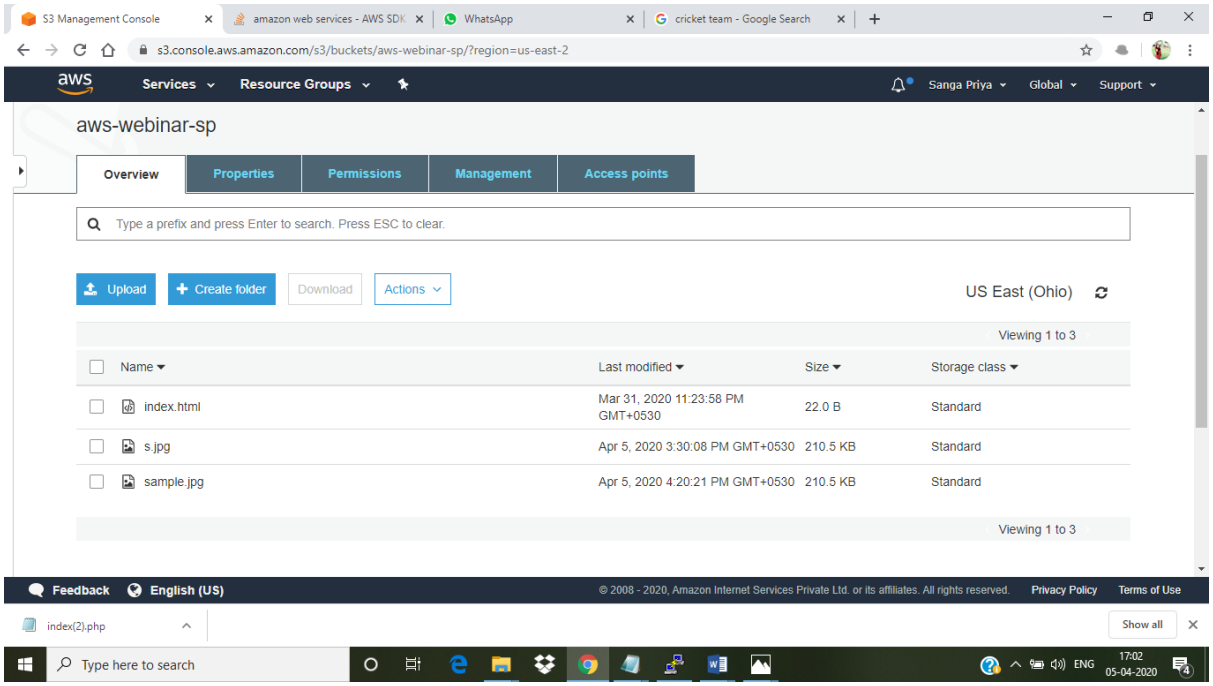
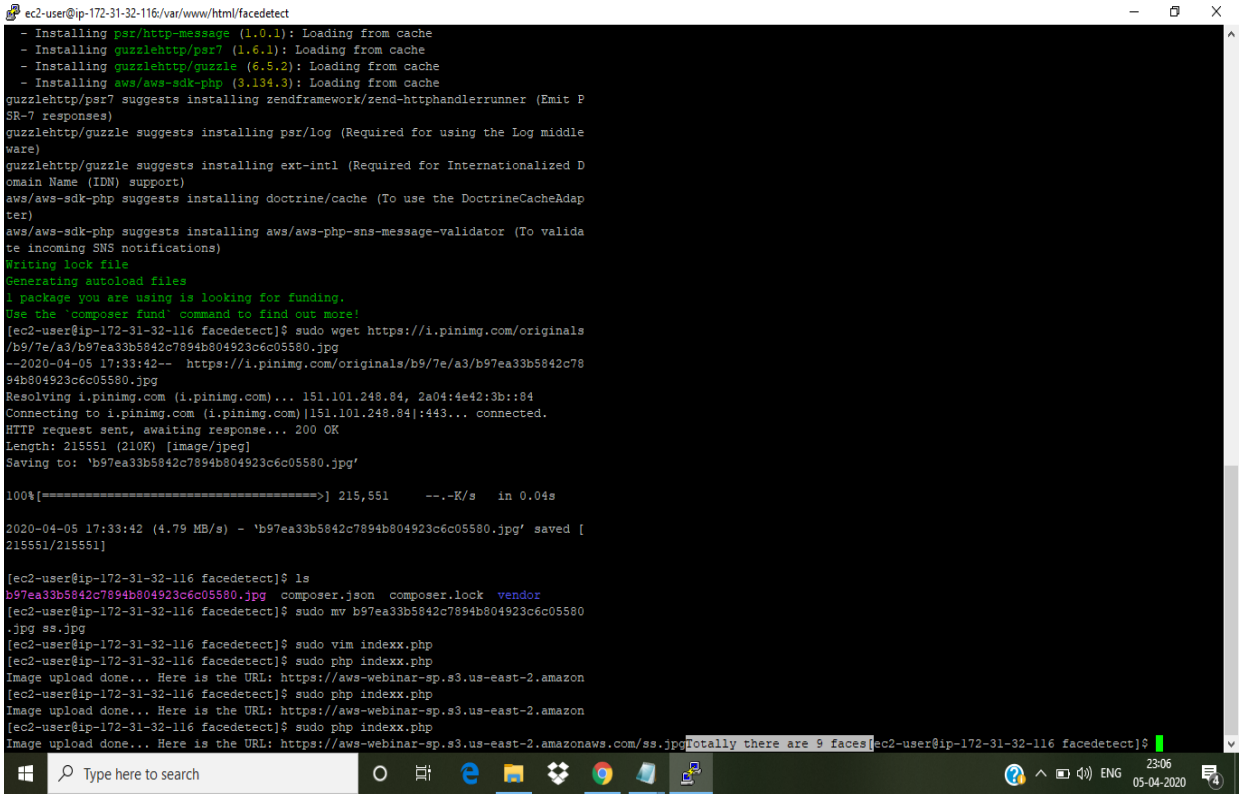
```
Incase if you are getting any class NOT found error, follow these steps

sudo yum remove php*
sudo yum remove httpd*
sudo yum clean all
sudo yum upgrade -y
sudo amazon-linux-extras install php7.2
sudo yum install php-json php-xml php-cli php-mbstring
sudo yum install httpd

*/
// error_reporting(0);

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

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


$bucket = 'aws-webinar-sp';
$keyname = 'sample.jpg';

$s3 = new S3Client([
        '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-write'
        ]);
```

```
    // Print the URL to the object.
        $imageUrl = $result['ObjectURL'];
        if($imageUrl) {
            echo "Image upload done... Here is the URL: " . $imageUrl;

            $rekognition = new RekognitionClient([
                'region'  => 'us-east-2',
                'version'         => 'latest',
            ]);

            $result = $rekognition->detectFaces([
                'Attributes'      => ['DEFAULT'],
                'Image' => [
                    'S3Object' => [
                        'Bucket' => $bucket,
                        'Name'  =>      $keyname,
                        'Key'   =>      $keyname,
                    ],
                ],
            ]);

            echo "Totally there are " . count($result["FaceDetails"]) . " faces";
        }
} catch (Exception $e) {
        echo $e->getMessage() . PHP_EOL;
}
```


index(2) - Notepad
File Edit Format View Help
<?php
/*
Install php - sudo yum install php
curl -sS https://getcomposer.org/installer | php
cd /var/www/html
sudo mkdir face
cd face
sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php
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
Incase if you are getting any class NOT found error, follow these steps
sudo yum remove php*
sudo yum remove httpd*
sudo yum clean all
sudo yum upgrade -y
sudo amazon-linux-extras install php7.2
sudo yum install php-json php-xml php-cli php-mbstring
sudo yum install httpd
*/
// error_reporting(0);
require_once(__DIR__ . '/vendor/autoload.php');
use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;
Ln 73, Col 26
100%
Unix (LF)
UTF-8
Type here to search
ENG
17:00
05-04-2020

File upload:


ec2-user@ip-172-31-32-116:/var/www/html/face
[ec2-user@ip-172-31-32-116 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-webinar-sp.s3.us-east-2.amazonaws.com/s.jpg[ec2-user@ip-172-31-32-116 face]$
Type here to search
ENG
15:30
05-04-2020



EC2 AND REKOGNITION: