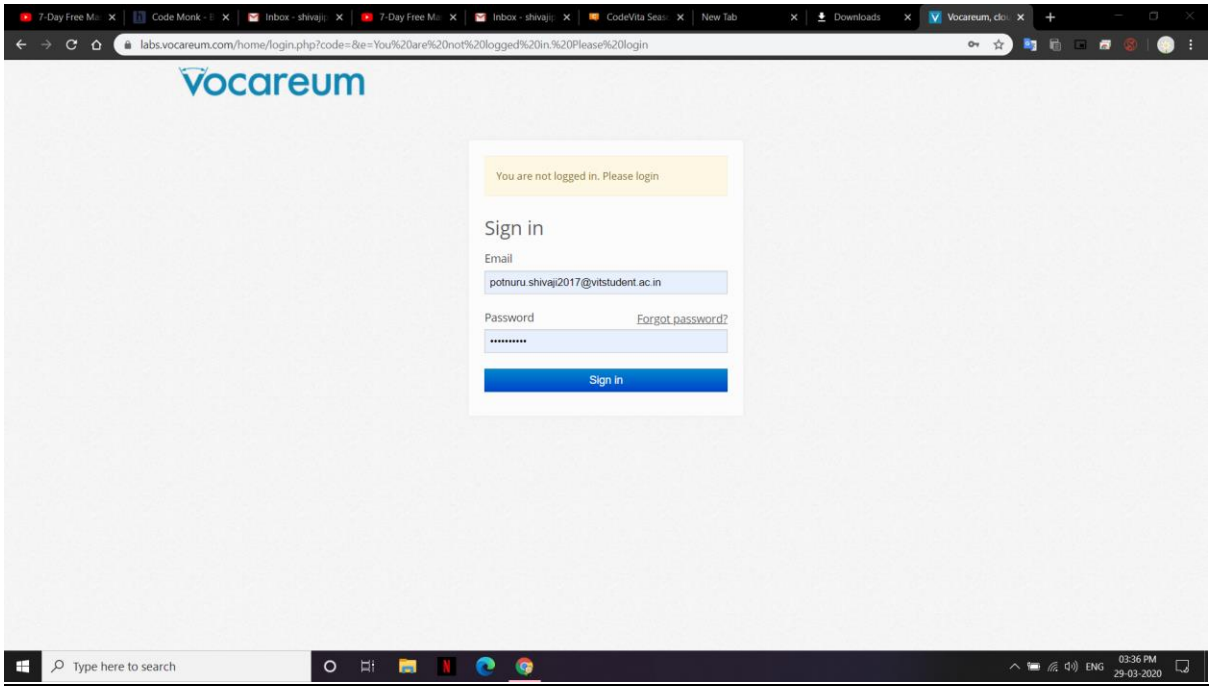
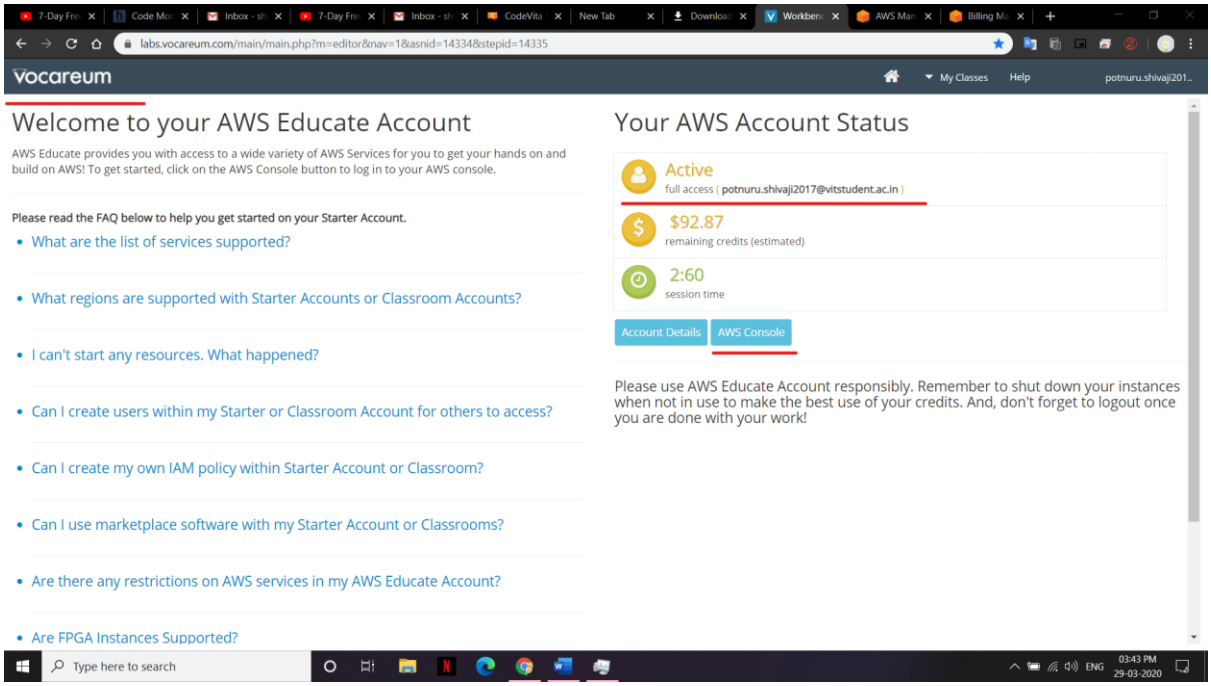
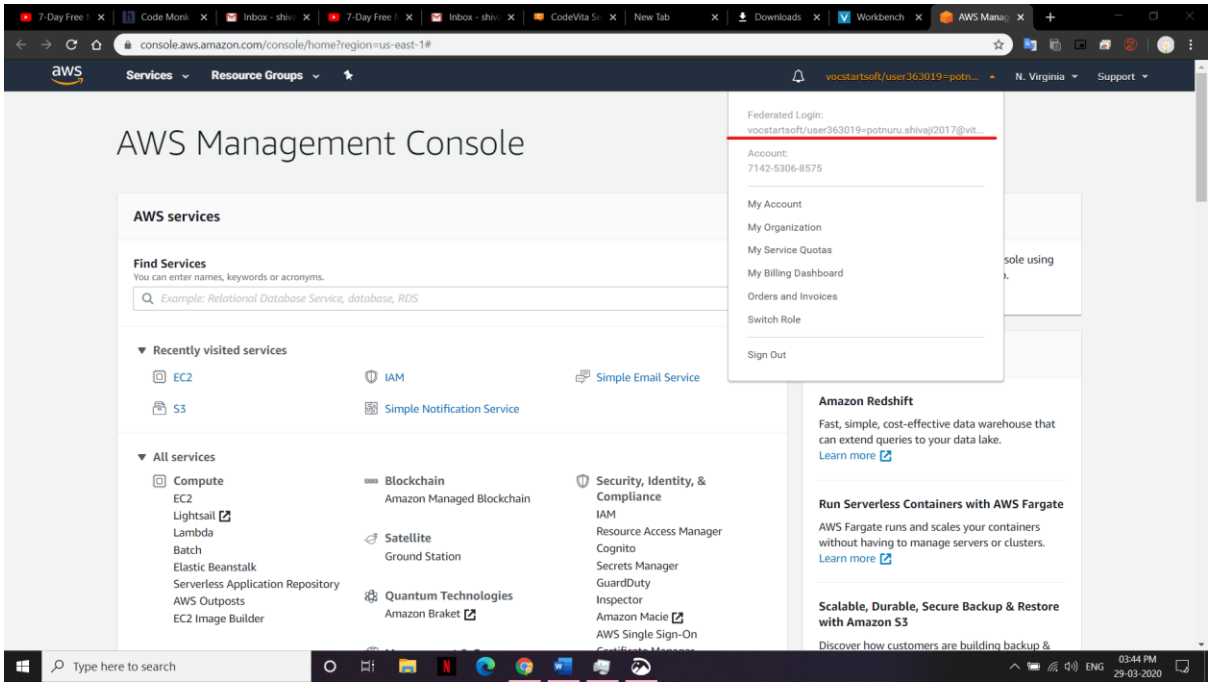
BUILDING FACE DETECTION APP USING AWS

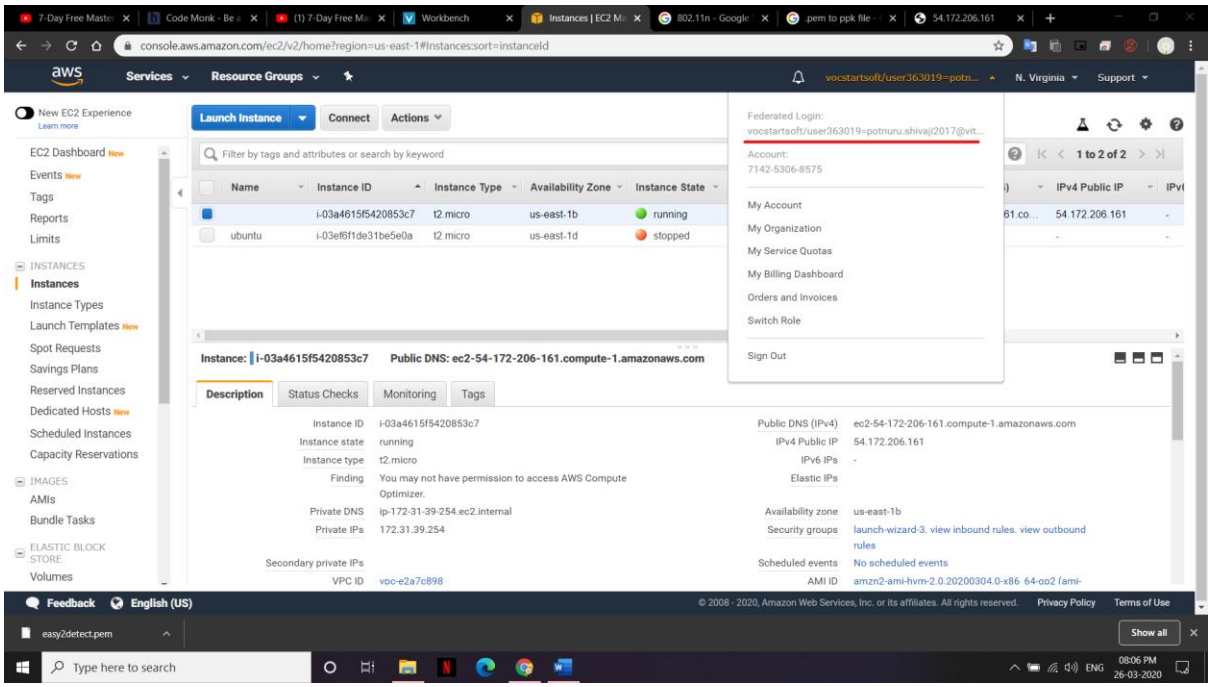
POTNURU SHIVAJI

USING MY AWS EDUCATE ACCOUNT






console.aws.amazon.com/console/home?region=us-east-1#
Services
Resource Groups
N. Virginia
Support
AWS Management Console
AWS services
Find Services
You can enter names, keywords or acronyms.
Example: Relational Database Service, database, RDS
Recently visited services
EC2
IAM
Simple Email Service
S3
Simple Notification Service
All services
Compute
EC2
Lightsail
Lambda
Batch
Elastic Beanstalk
Serverless Application Repository
AWS Outposts
EC2 Image Builder
Blockchain
Amazon Managed Blockchain
Satellite
Ground Station
Quantum Technologies
Amazon Braket
Security, Identity, & Compliance
IAM
Resource Access Manager
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Federated Login:
vocstartsoft/user363019=potnuru.shivaji2017@vit...
Account:
7142-5306-8575
My Account
My Organization
My Service Quotas
My Billing Dashboard
Orders and Invoices
Switch Role
Sign Out
Amazon Redshift
Fast, simple, cost-effective data warehouse that can extend queries to your data lake.
Learn more
Run Serverless Containers with AWS Fargate
AWS Fargate runs and scales your containers without having to manage servers or clusters.
Learn more
Scalable, Durable, Secure Backup & Restore with Amazon S3
Type here to search
ENG
03:44 PM
29-03-2020


console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=instanceId
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
Name
Instance ID
Instance Type
Availability Zone
Instance State
IPv4 Public IP
i-03a4615f5420853c7
t2.micro
us-east-1b
running
54.172.206.161
ubuntu
i-03ef6f1de31be5e0a
t2.micro
us-east-1d
stopped
Instance: i-03a4615f5420853c7
Public DNS: ec2-54-172-206-161.compute-1.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-03a4615f5420853c7
Instance state
running
Instance type
t2.micro
Finding
You may not have permission to access AWS Compute Optimizer.
Private DNS
ip-172-31-39-254.ec2.internal
Private IPs
172.31.39.254
Secondary private IPs
VPC ID
vpc-e2a7c898
Public DNS (IPv4)
ec2-54-172-206-161.compute-1.amazonaws.com
IPv4 Public IP
54.172.206.161
IPv6 IPs
Elastic IPs
Availability zone
us-east-1b
Security groups
launch-wizard-3. view inbound rules. view outbound rules
Scheduled events
No scheduled events
AMI ID
Feedback
English (US)
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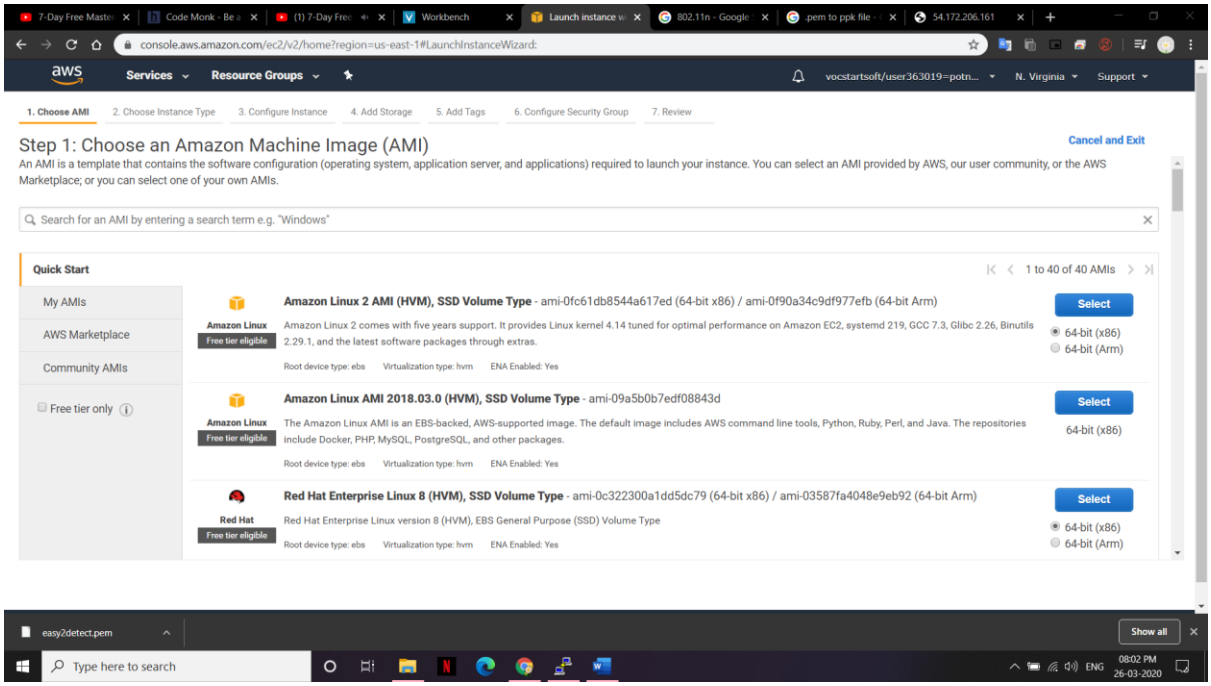
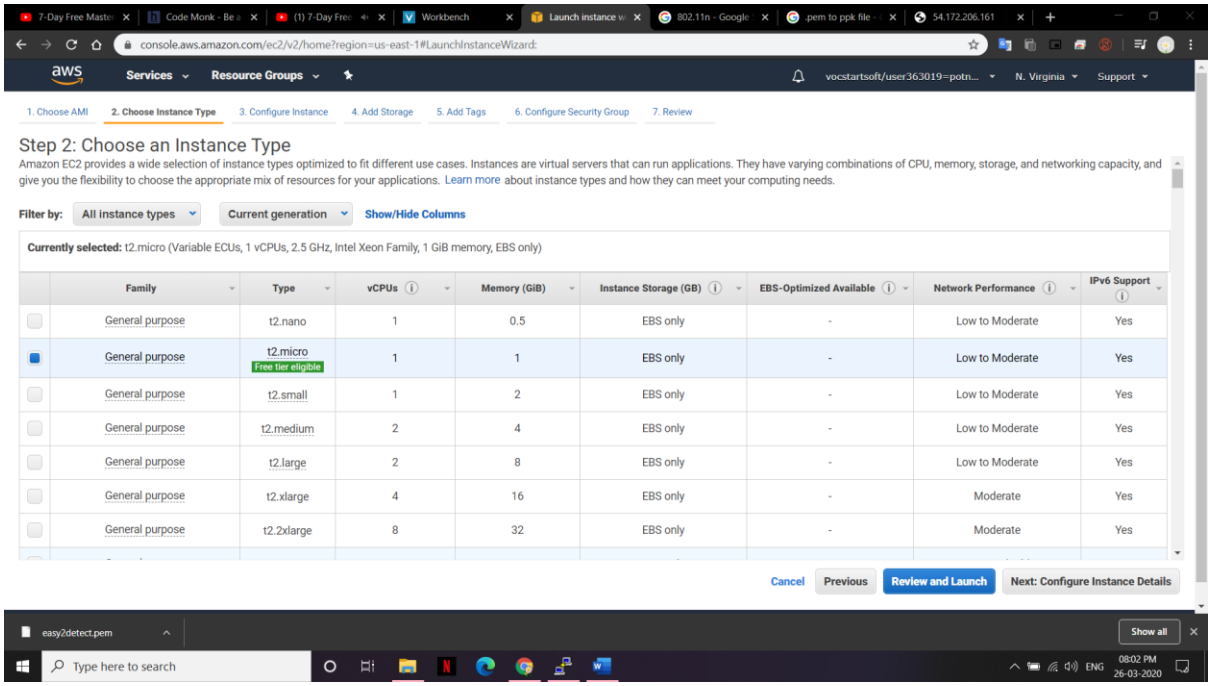
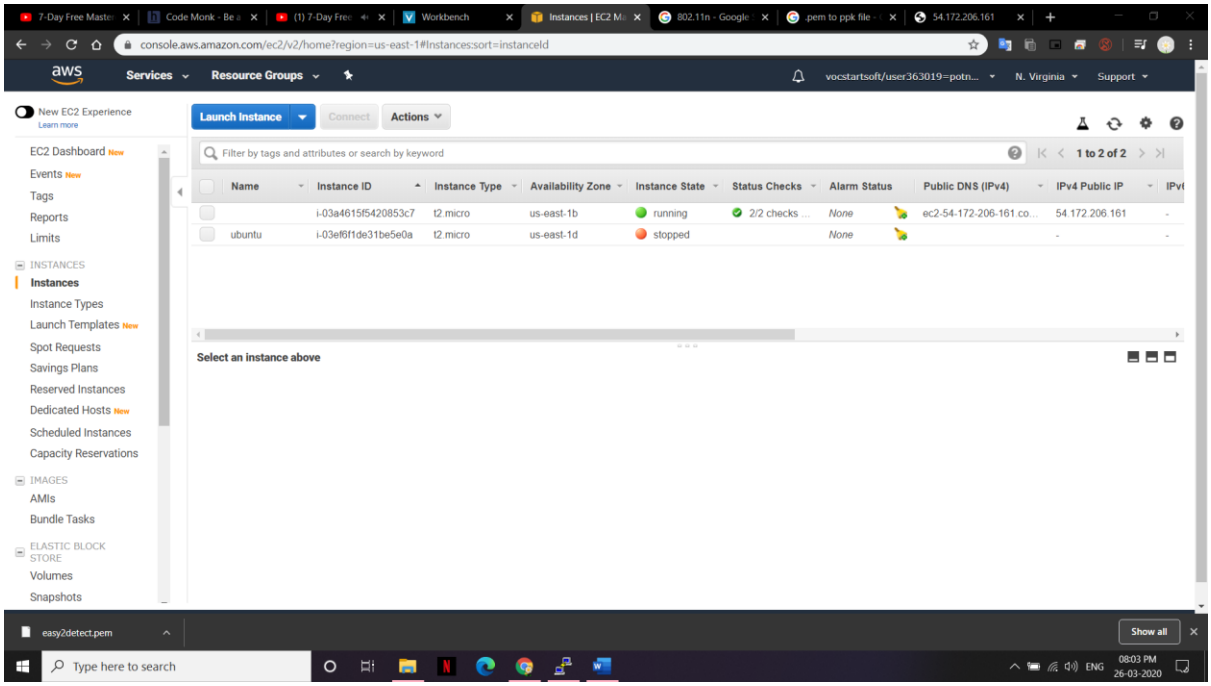
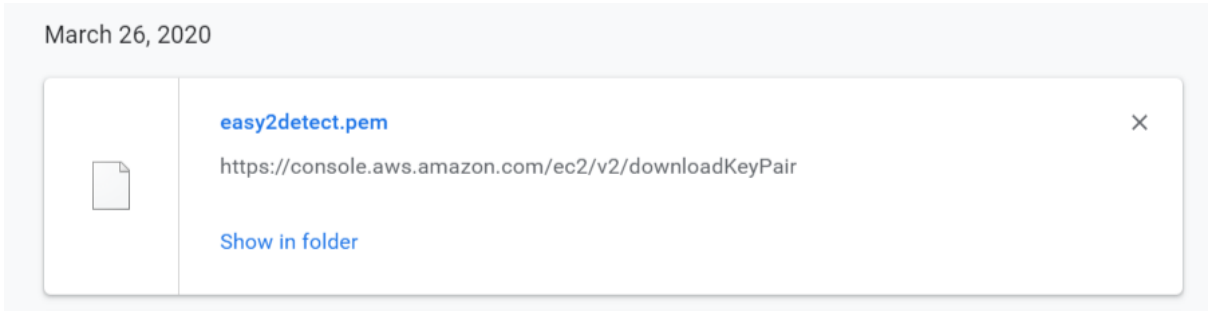
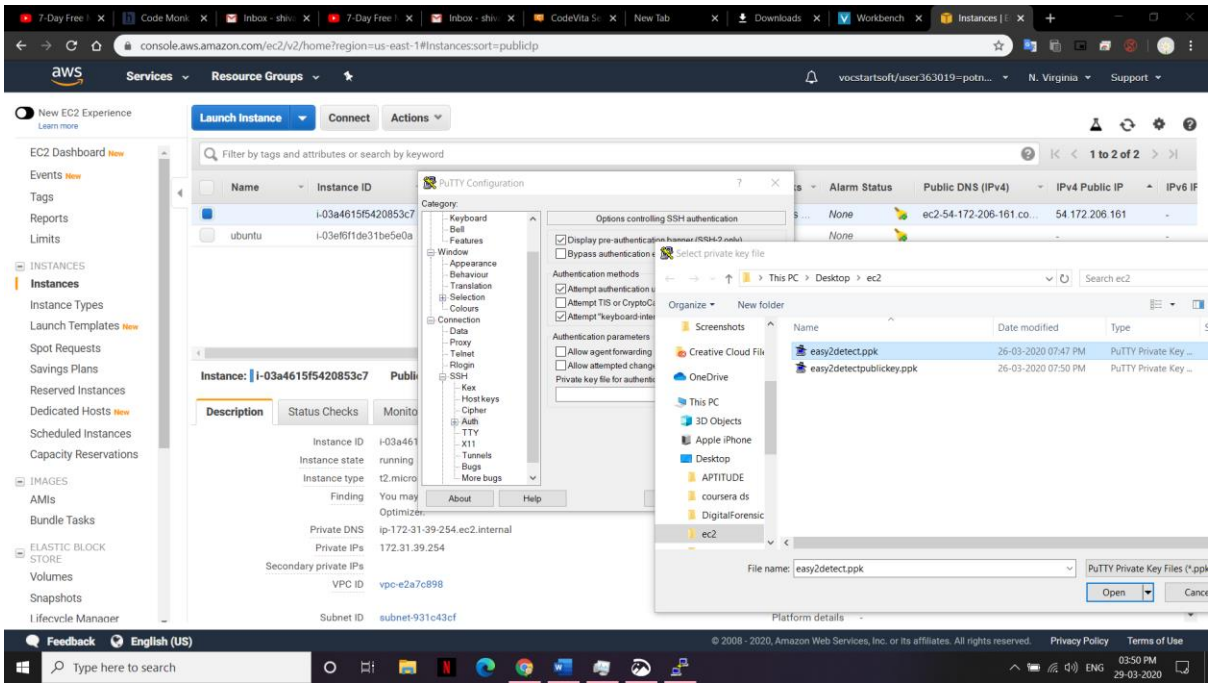
Privacy Policy
Terms of Use
easy2detect.pem
Show all
Type here to search
ENG
08:06 PM
26-03-2020


console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
Services
Resource Groups
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 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 2 AMI (HVM), SSD Volume Type - ami-0fc61db8544a617ed (64-bit x86) / ami-0f90a34c9df977efb (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
Select
64-bit (x86)
64-bit (Arm)
Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-09a5b0b7edf08843d
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)
Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0c322300a1dd5dc79 (64-bit x86) / ami-03587fa4048e9eb92 (64-bit Arm)
Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type
Free tier eligible
Amazon Linux
Red Hat
easy2detect.pem
Show all
Type here to search
ENG
08:02 PM
26-03-2020

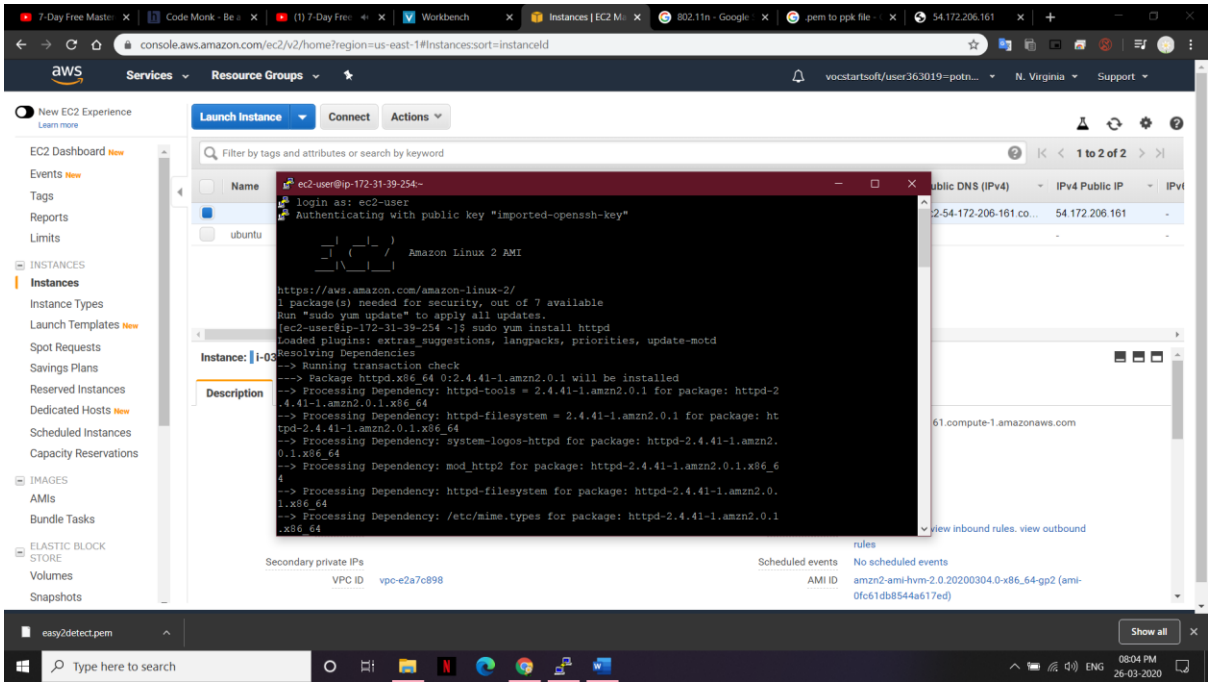

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
Services
Resource Groups
N. Virginia
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide 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
General purpose
t2.nano
1
0.5
EBS only
-
Low to Moderate
Yes
t2.micro
Free tier eligible
1
1
EBS only
-
Low to Moderate
Yes
t2.small
1
2
EBS only
-
Low to Moderate
Yes
t2.medium
2
4
EBS only
-
Low to Moderate
Yes
t2.large
2
8
EBS only
-
Low to Moderate
Yes
t2.xlarge
4
16
EBS only
-
Moderate
Yes
t2.2xlarge
8
32
EBS only
-
Moderate
Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
easy2detect.pem
Show all
Type here to search
ENG
08:02 PM
26-03-2020







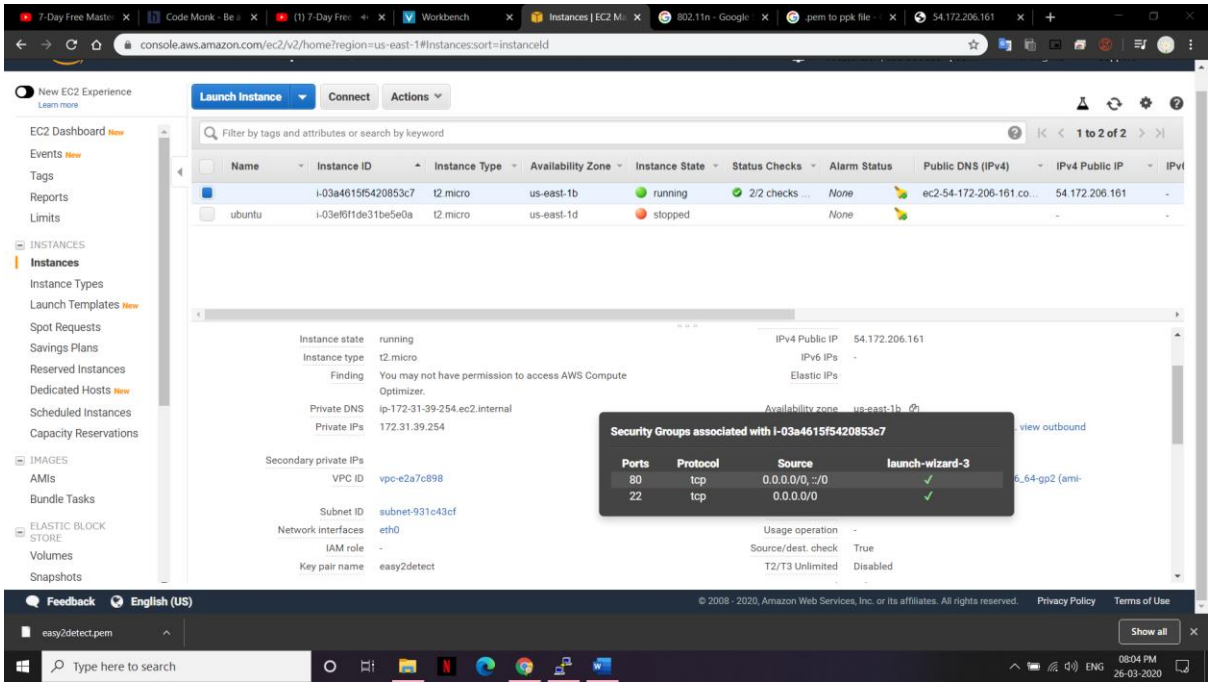
➢ ACCESSING MY INSTANCE THROUGH Putty



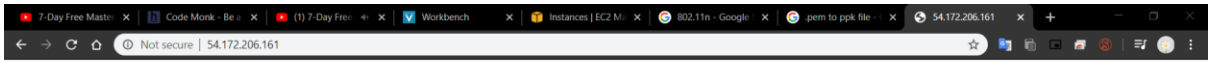
INSTALLING THE DEPENDENCIES

- Sudo yum install httpd
- Sudo service httpd start
- Sudo service httpd status
- Sudo vim /var/www/html/index.html

➢ GIVING SECURITY PERMISSIONS

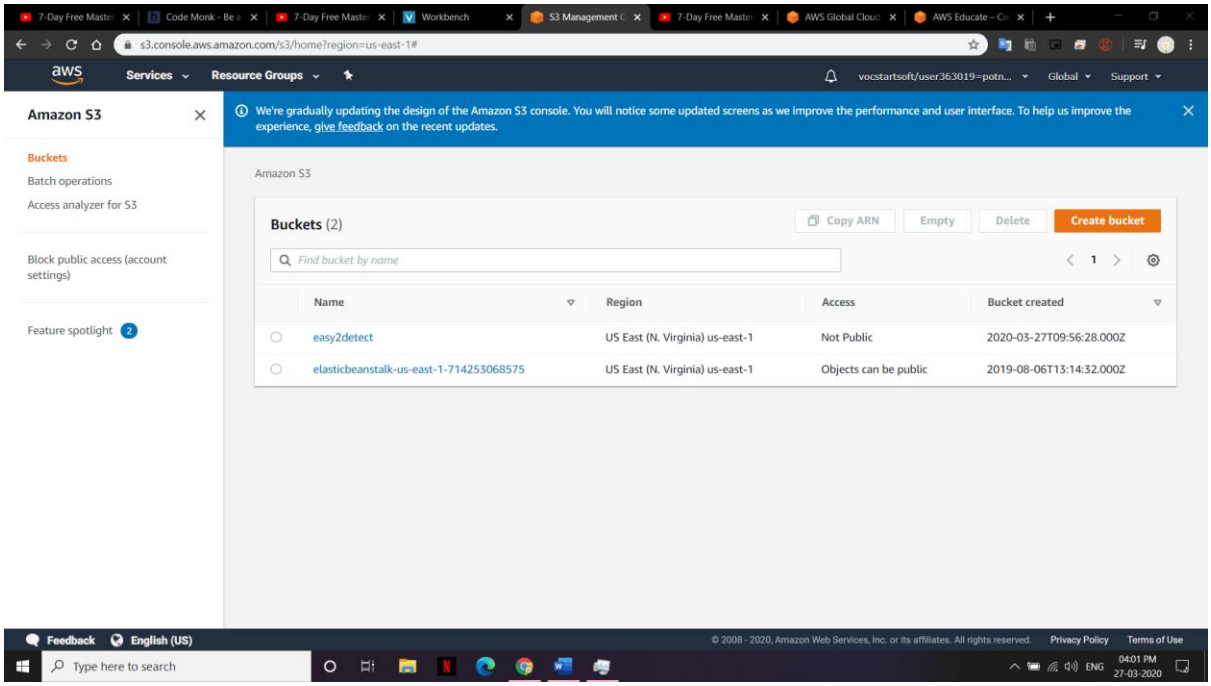


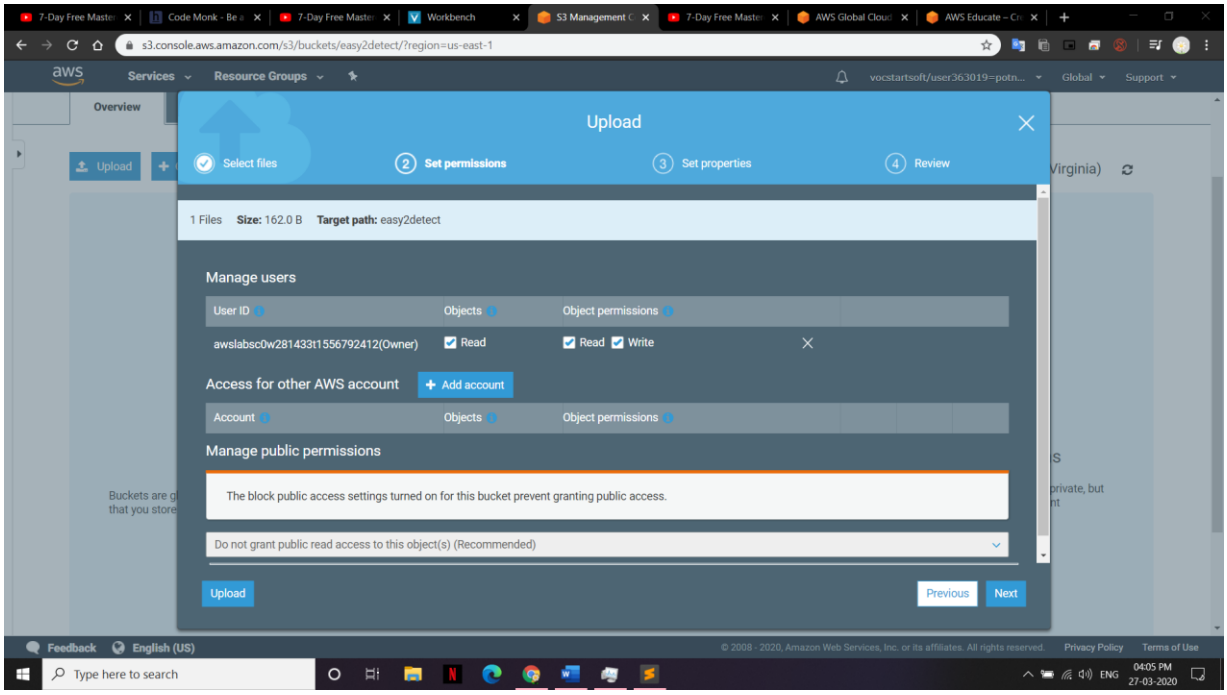
➢ ACCESING THE WEBPAGE

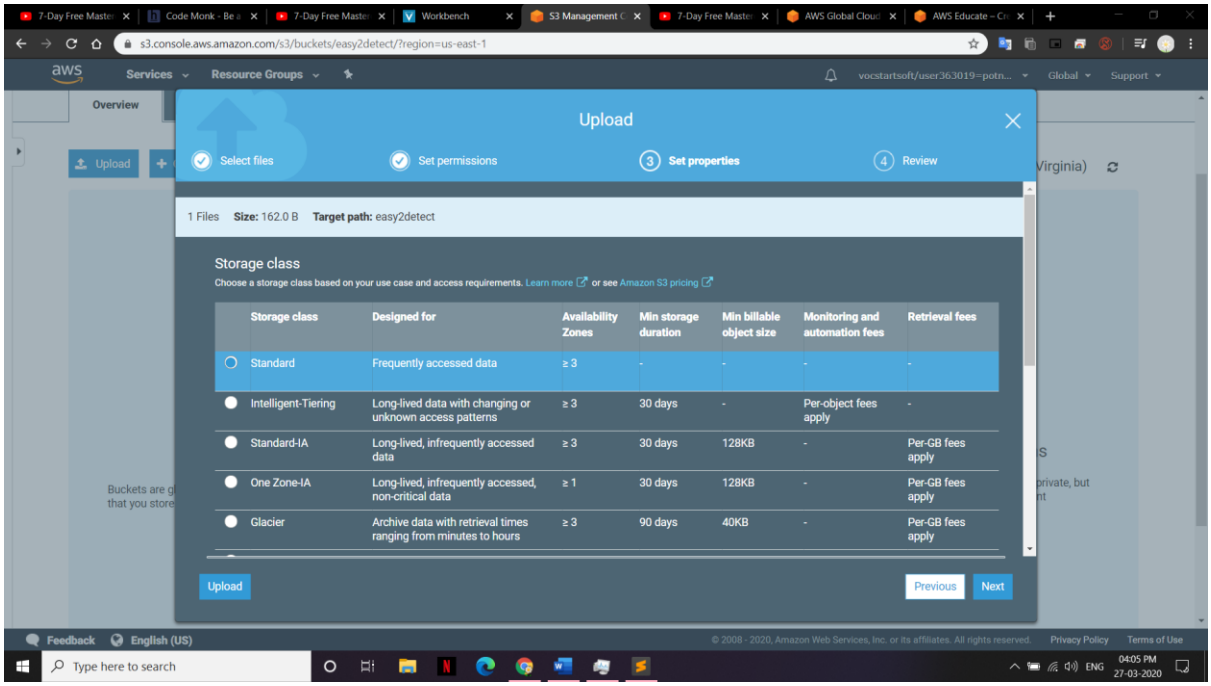


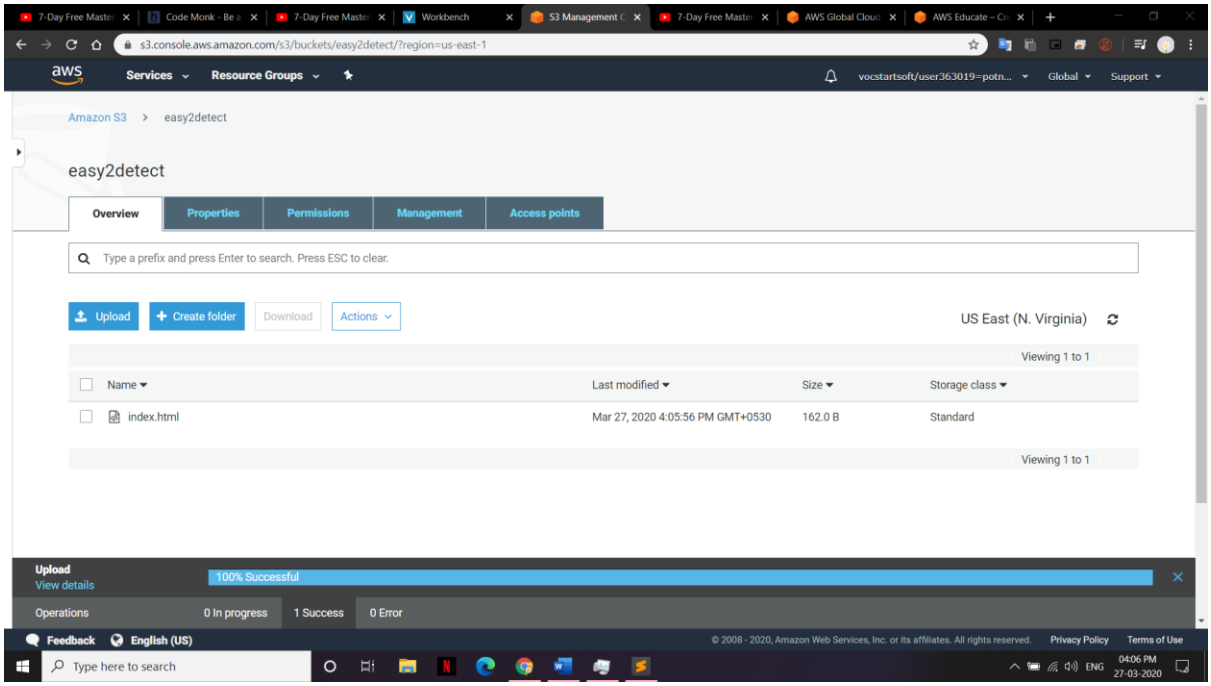
PART-2

CREATING S3 BUCKET



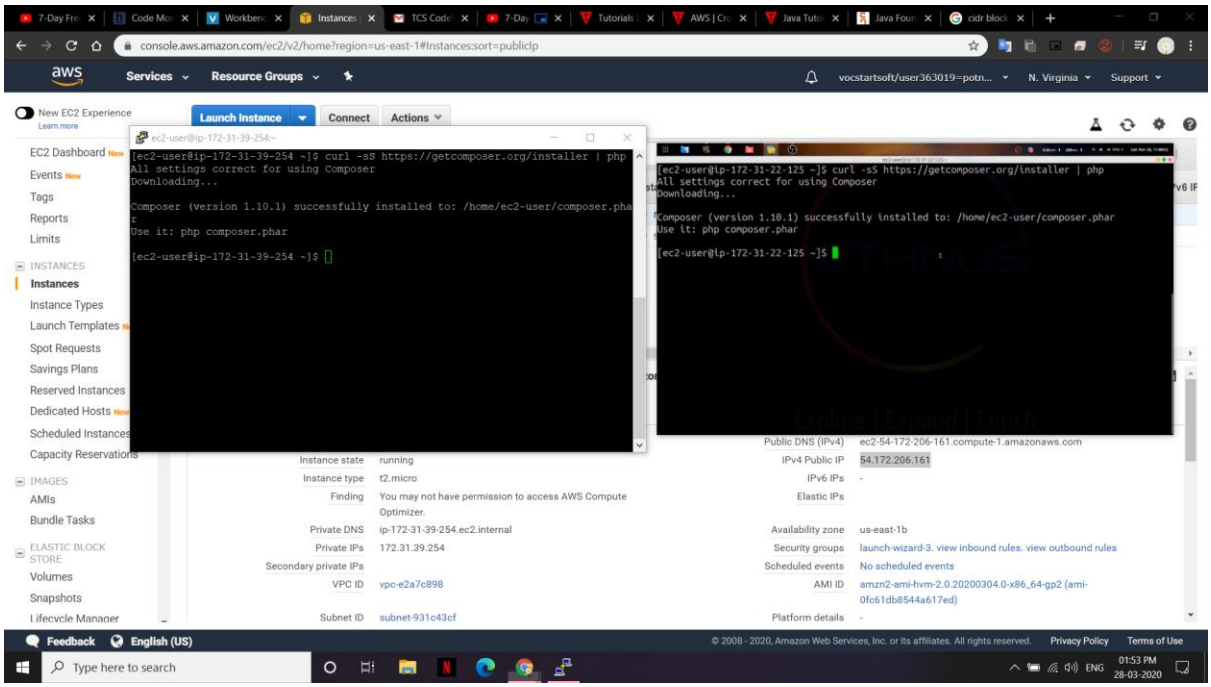

Upload
Select files
2 Set permissions
3 Set properties
4 Review
1 Files Size: 162.0 B Target path: easy2detect
Manage users
User ID
Objects
Object permissions
awslabsc0w281433t1556792412(Owner)
Read
Read Write
Access for other AWS account
+ Add account
Account
Objects
Object permissions
Manage public permissions
The block public access settings turned on for this bucket prevent granting public access.
Do not grant public read access to this object(s) (Recommended)
Upload
Previous
Next


Upload
Select files
Set permissions
3 Set properties
4 Review
1 Files Size: 162.0 B Target path: easy2detect
Storage class
Choose a storage class based on your use case and access requirements. Learn more or see Amazon S3 pricing
Storage class
Designed for
Availability Zones
Min storage duration
Min billable object size
Monitoring and automation fees
Retrieval fees
Standard
Frequently accessed data
≥ 3
Intelligent-Tiering
Long-lived data with changing or unknown access patterns
≥ 3
30 days
Per-object fees apply
Standard-IA
Long-lived, infrequently accessed data
≥ 3
30 days
128KB
Per-GB fees apply
One Zone-IA
Long-lived, infrequently accessed, non-critical data
≥ 1
30 days
128KB
Per-GB fees apply
Glacier
Archive data with retrieval times ranging from minutes to hours
≥ 3
90 days
40KB
Per-GB fees apply
Upload
Previous
Next



HI!!! ETHNUS,
thank you for teaching AWS, YOU GUYS ARE AWSomeeee!!!!!

PART-3


console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=publicIp
Launch Instance
Connect
Actions
[ec2-user@ip-172-31-39-254 ~]$ 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-172-31-39-254 ~]$
[ec2-user@ip-172-31-22-125 ~]$ 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-172-31-22-125 ~]$
Public DNS (IPv4) ec2-54-172-206-161.compute-1.amazonaws.com
IPv4 Public IP 54.172.206.161
Instance state running
Instance type t2.micro
Private DNS ip-172-31-39-254.ec2.internal
Private IPs 172.31.39.254
VPC ID vpc-e2a7c898
Subnet ID subnet-931c43cf
Availability zone us-east-1b
Security groups launch-wizard-3. view inbound rules. view outbound rules
Scheduled events No scheduled events
AMI ID amzn2-ami-hvm-2.0.20200304.0-x86_64-gp2 (ami-0fc61db8544a617ed)
Feedback
English (US)
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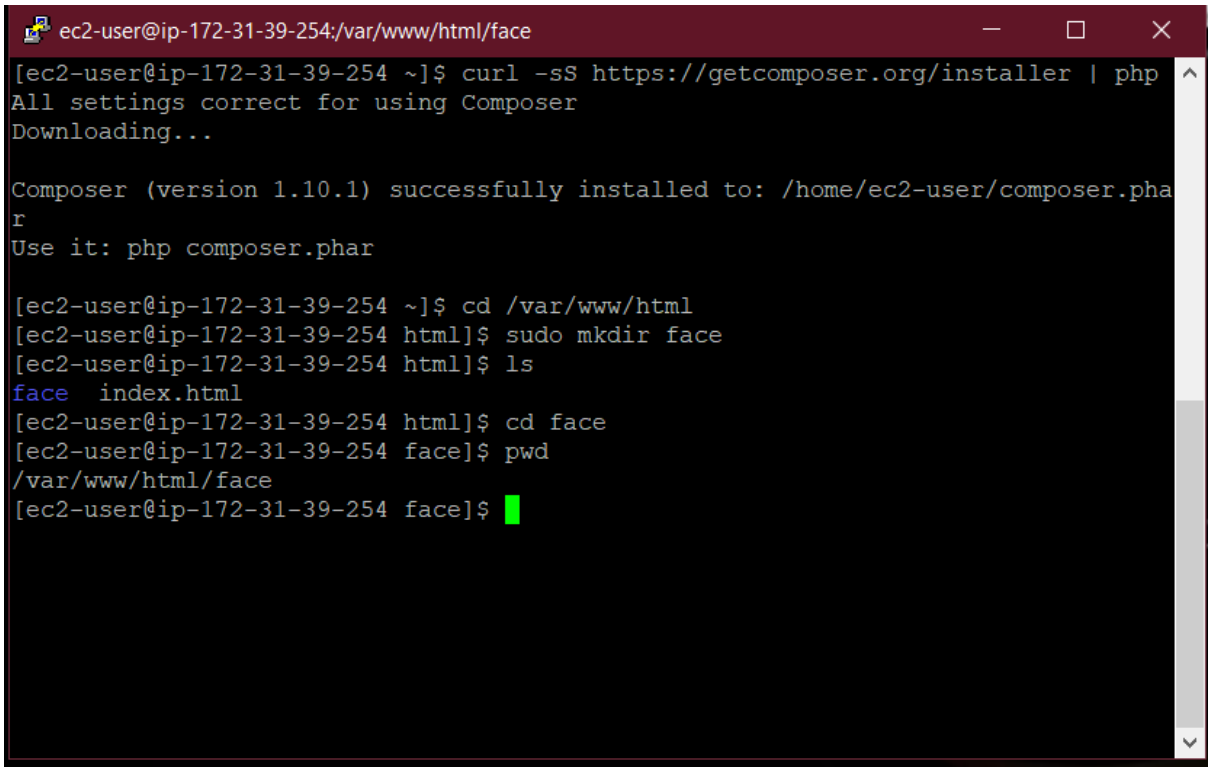
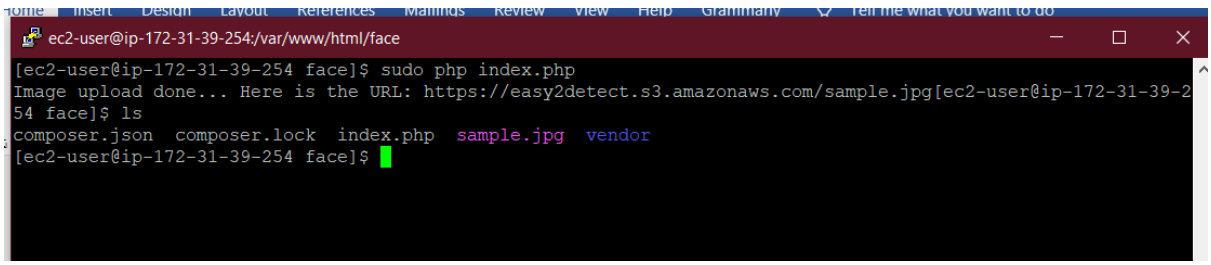
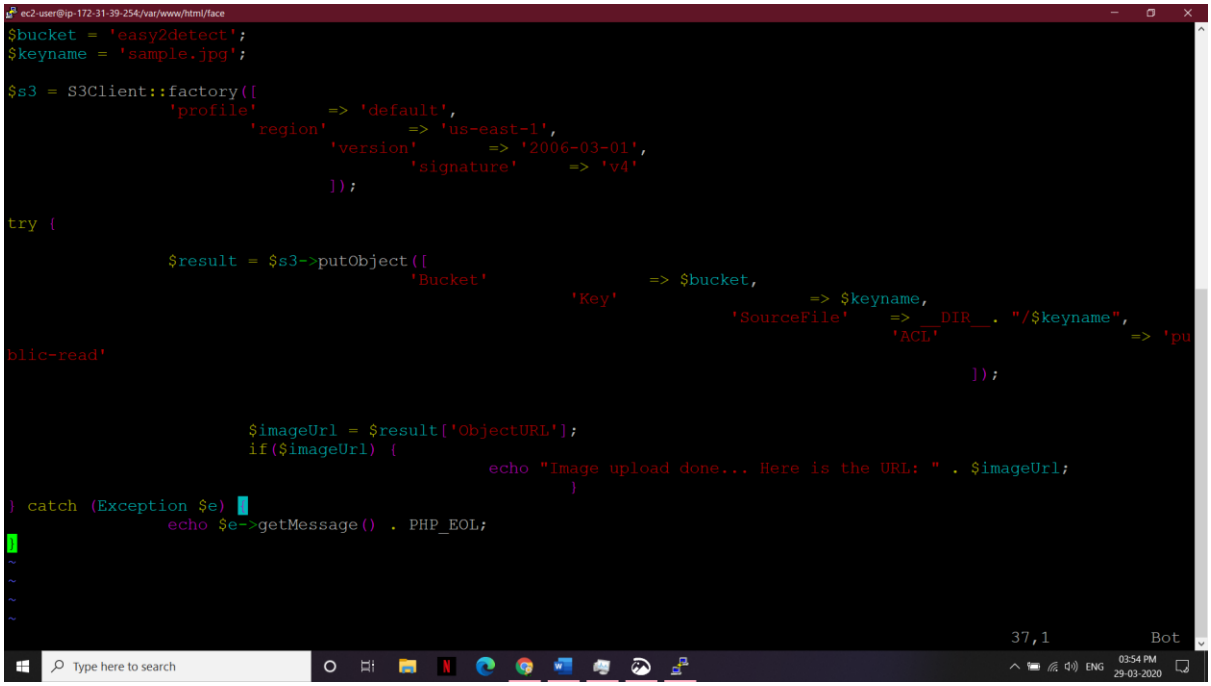
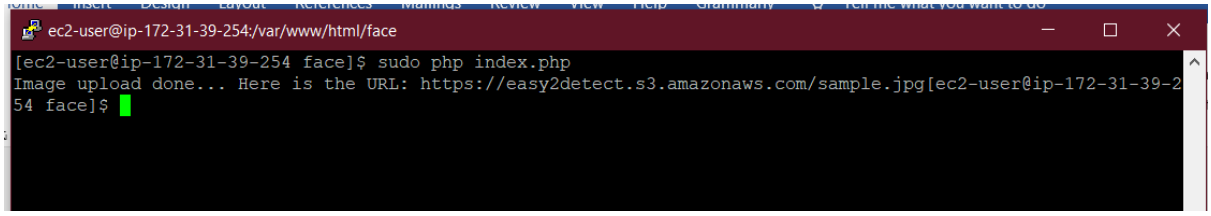
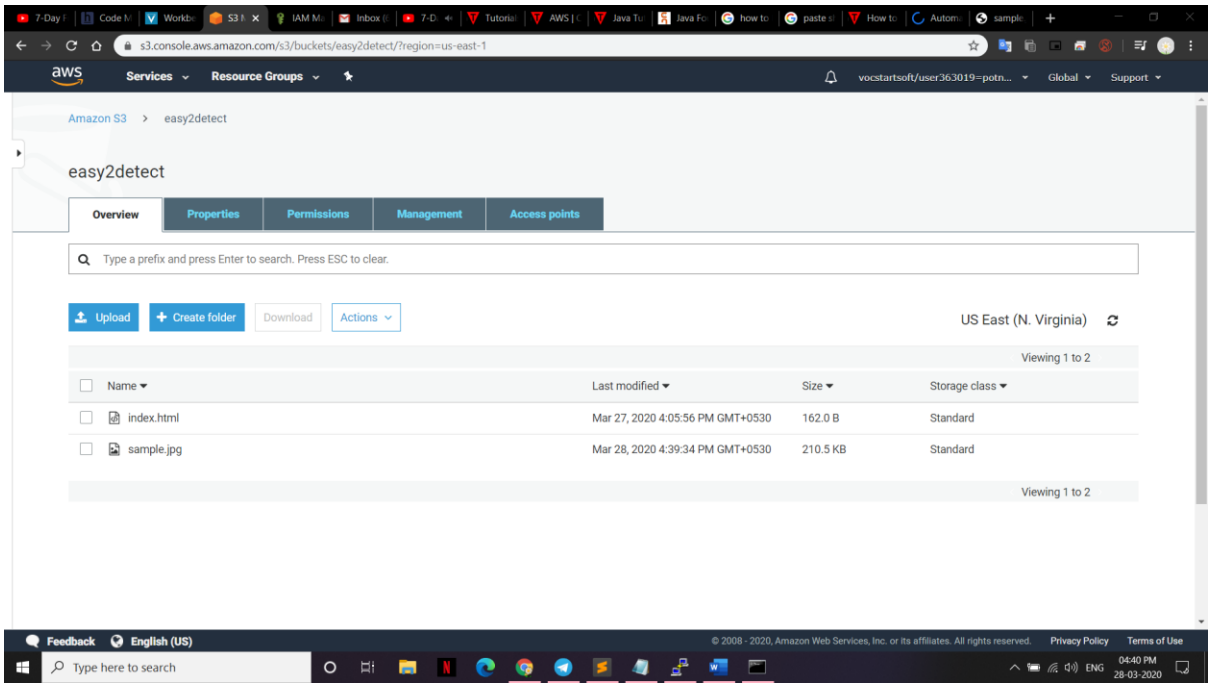
Terms of Use
Type here to search
01:53 PM
28-03-2020


ec2-user@ip-172-31-39-254:/var/www/html/face
[ec2-user@ip-172-31-39-254 ~]$ 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-172-31-39-254 ~]$ cd /var/www/html
[ec2-user@ip-172-31-39-254 html]$ sudo mkdir face
[ec2-user@ip-172-31-39-254 html]$ ls
face index.html
[ec2-user@ip-172-31-39-254 html]$ cd face
[ec2-user@ip-172-31-39-254 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-39-254 face]$


ec2-user@ip-172-31-39-254:/var/www/html/face
[ec2-user@ip-172-31-39-254 face]$ sudo php index.php
Image upload done... Here is the URL: https://easy2detect.s3.amazonaws.com/sample.jpg[ec2-user@ip-172-31-39-254 face]$ ls
composer.json composer.lock index.php sample.jpg vendor
[ec2-user@ip-172-31-39-254 face]$


ec2-user@ip-172-31-39-254:/var/www/html/face
$bucket = 'easy2detect';
$keyname = 'sample.jpg';
$s3 = S3Client::factory([
'profile' => 'default',
'region' => 'us-east-1',
'version' => '2006-03-01',
'signature' => 'v4'
]);
try {
$result = $s3->putObject([
'Bucket' => $bucket,
'Key' => $keyname,
'SourceFile' => __DIR__ . "/$keyname",
'ACL' => 'public-read'
]);
$imageUrl = $result['ObjectURL'];
if($imageUrl) {
echo "Image upload done... Here is the URL: " . $imageUrl;
}
} catch (Exception $e) {
echo $e->getMessage() . PHP_EOL;
}
37,1 Bot
Type here to search
ENG
03:54 PM
29-03-2020


ec2-user@ip-172-31-39-254:/var/www/html/face
[ec2-user@ip-172-31-39-254 face]$ sudo php index.php
Image upload done... Here is the URL: https://easy2detect.s3.amazonaws.com/sample.jpg[ec2-user@ip-172-31-39-254 face]$


s3.console.aws.amazon.com/s3/buckets/easy2detect/?region=us-east-1
aws
Services
Resource Groups
Global
Support
Amazon S3 > easy2detect
easy2detect
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 (N. Virginia)
Viewing 1 to 2
Name
Last modified
Size
Storage class
index.html
Mar 27, 2020 4:05:56 PM GMT+0530
162.0 B
Standard
sample.jpg
Mar 28, 2020 4:39:34 PM GMT+0530
210.5 KB
Standard
Viewing 1 to 2
Feedback
English (US)
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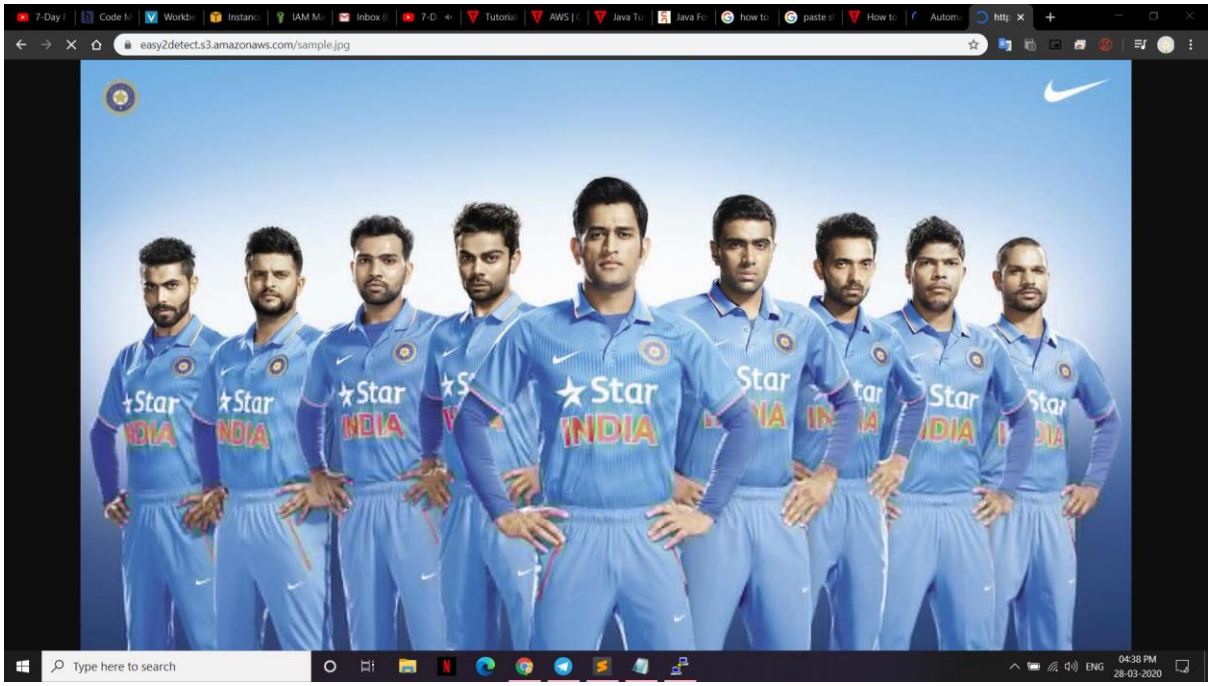
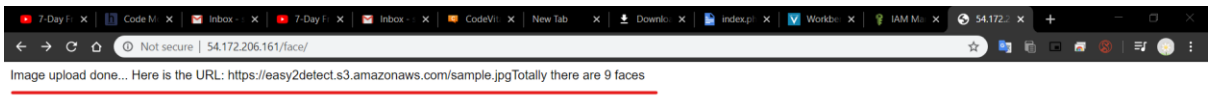
Privacy Policy
Terms of Use
Type here to search
ENG
04:40 PM
28-03-2020

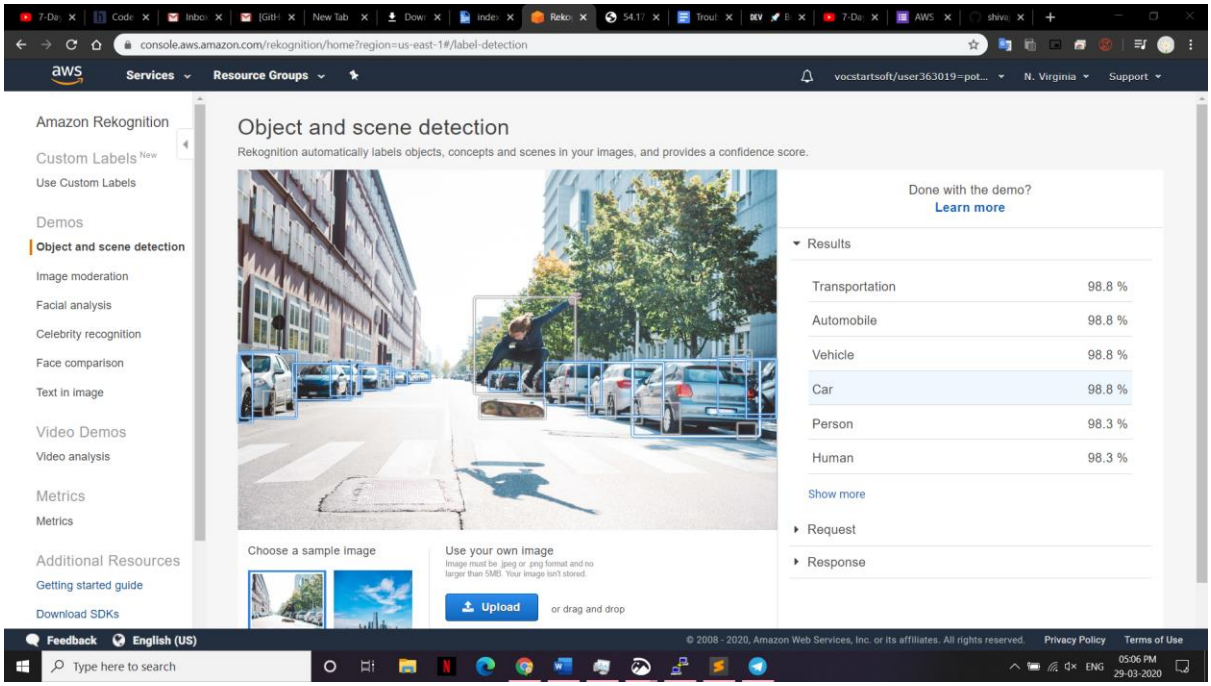

easy2detect.s3.amazonaws.com/sample.jpg
Type here to search
ENG
04:38 PM
28-03-2020

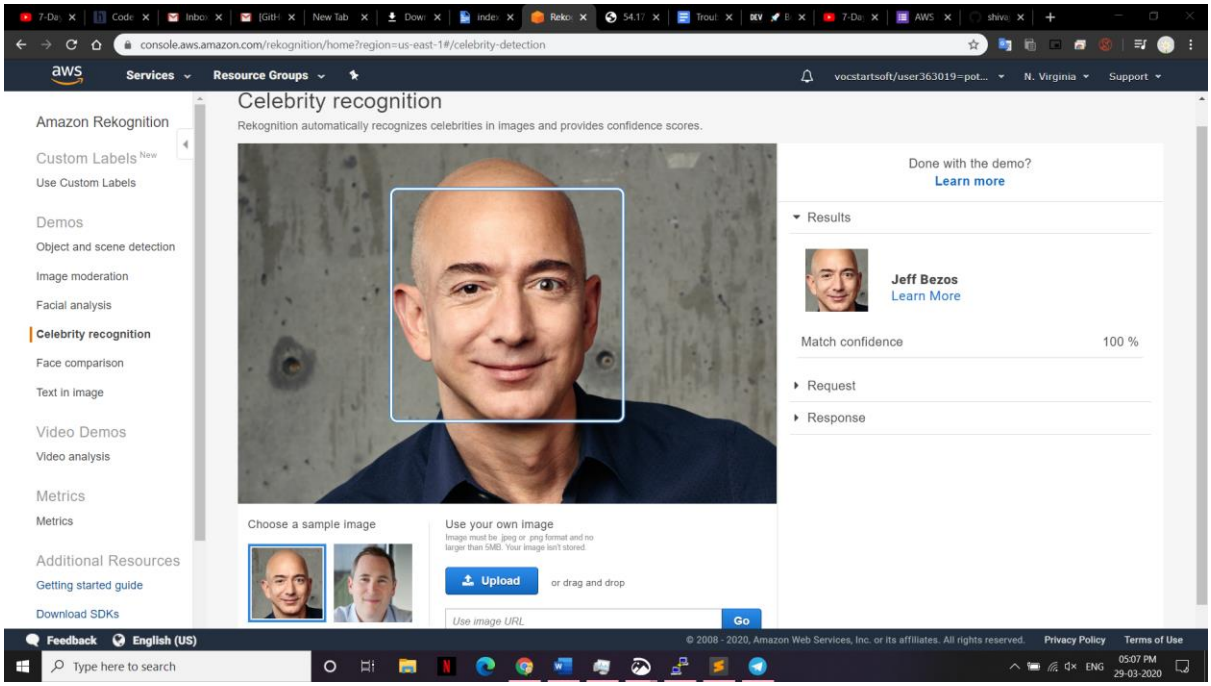
ec2-user@ip-172-31-39-254:/var/www/html/face
[ec2-user@ip-172-31-39-254 face]$ sudo php index.php
Image upload done... Here is the URL: https://easy2detect.s3.amazonaws.com/sample.jpgTotally there are 9 faces[ec2-use
r@ip-172-31-39-254 face]$

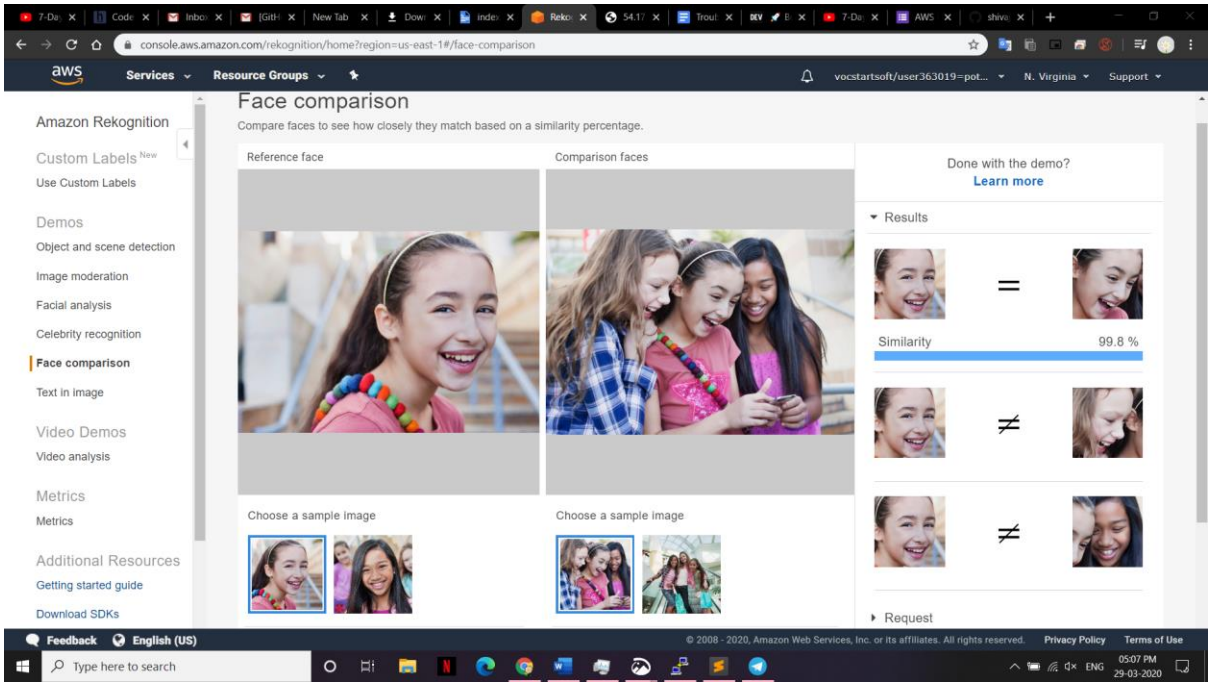

Not secure | 54.172.206.161/face/
Image upload done... Here is the URL: https://easy2detect.s3.amazonaws.com/sample.jpgTotally there are 9 faces

Type here to search
ENG
04:42 PM
29-03-2020

AMAZON REKOGNITION



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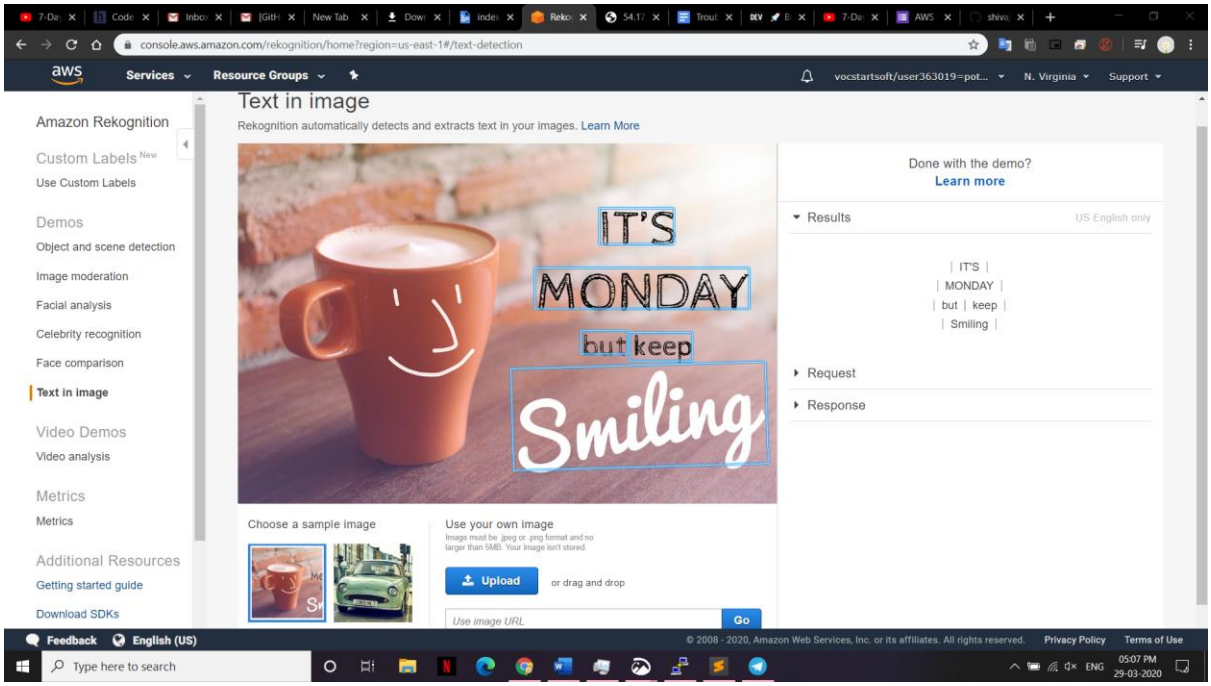
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