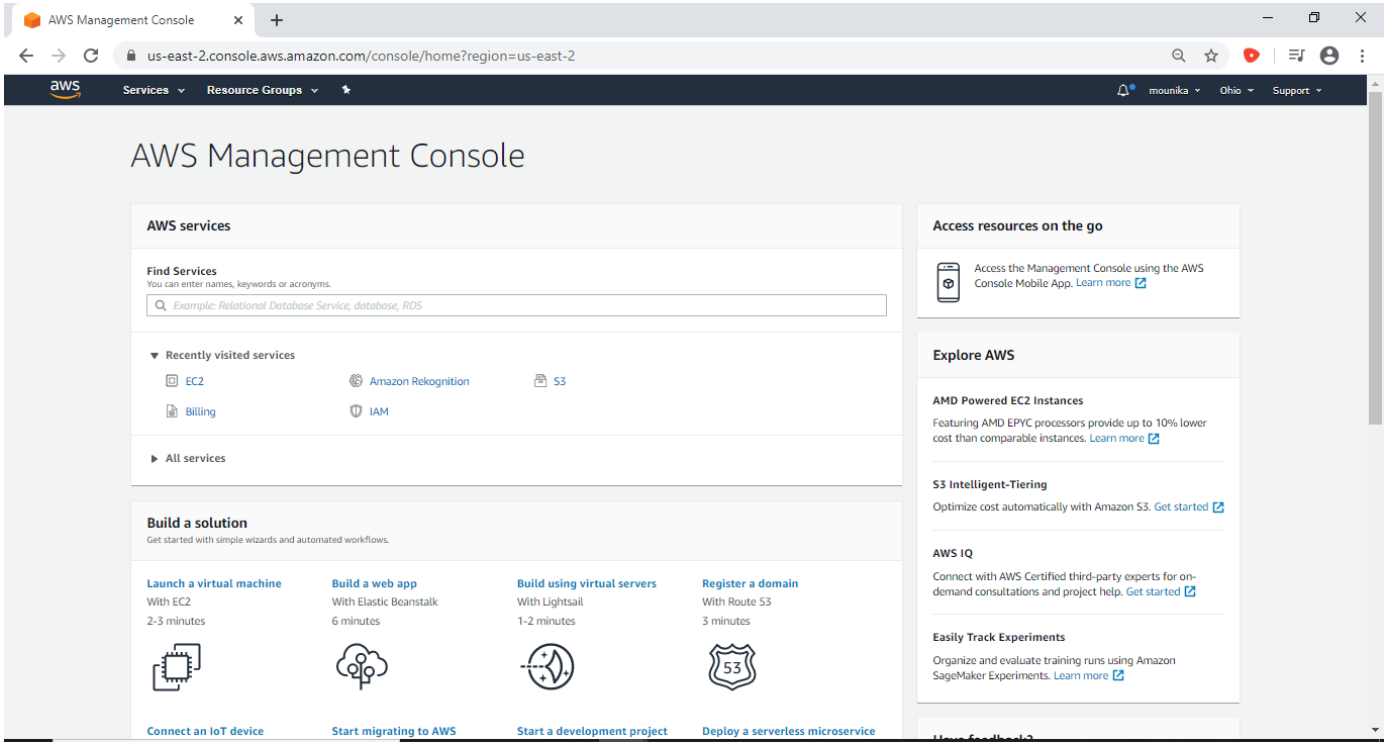
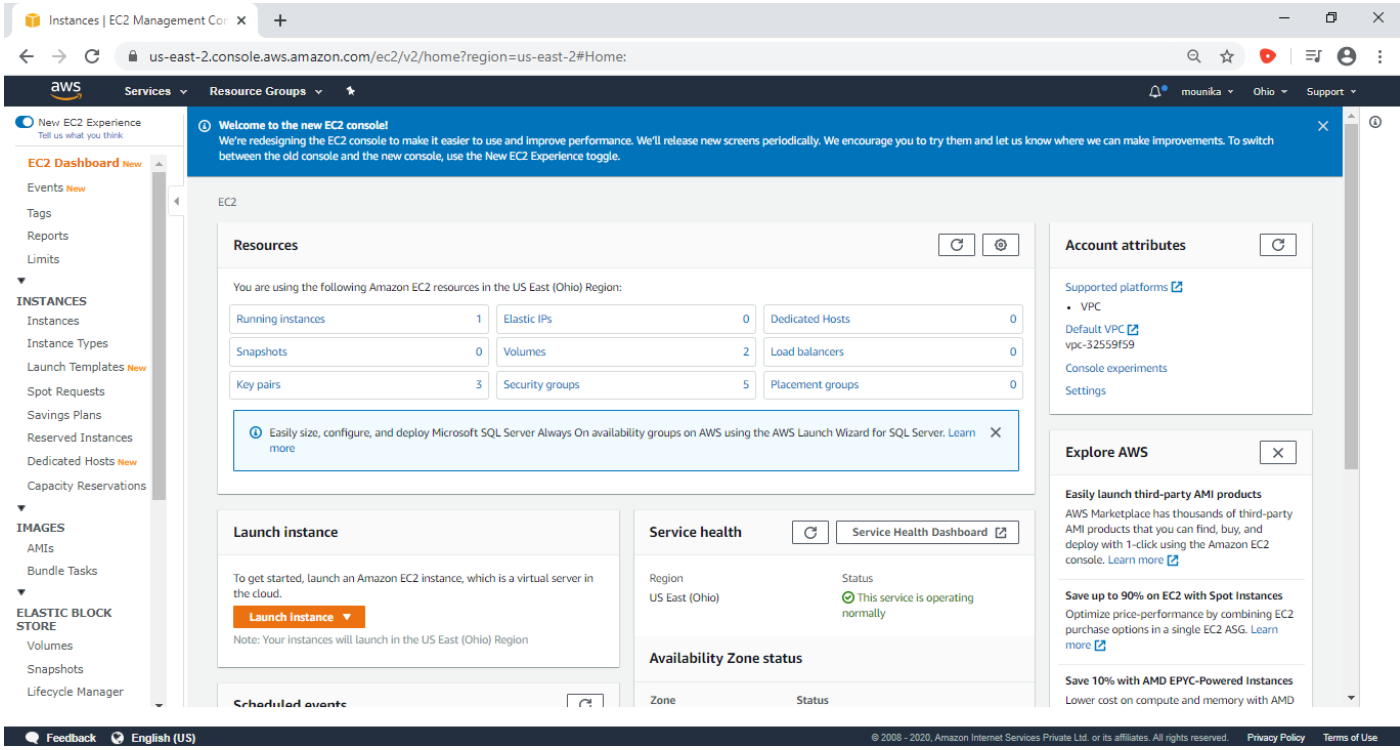
Number of Faces Detection using AWS Rekognition

-By Y. Mounika

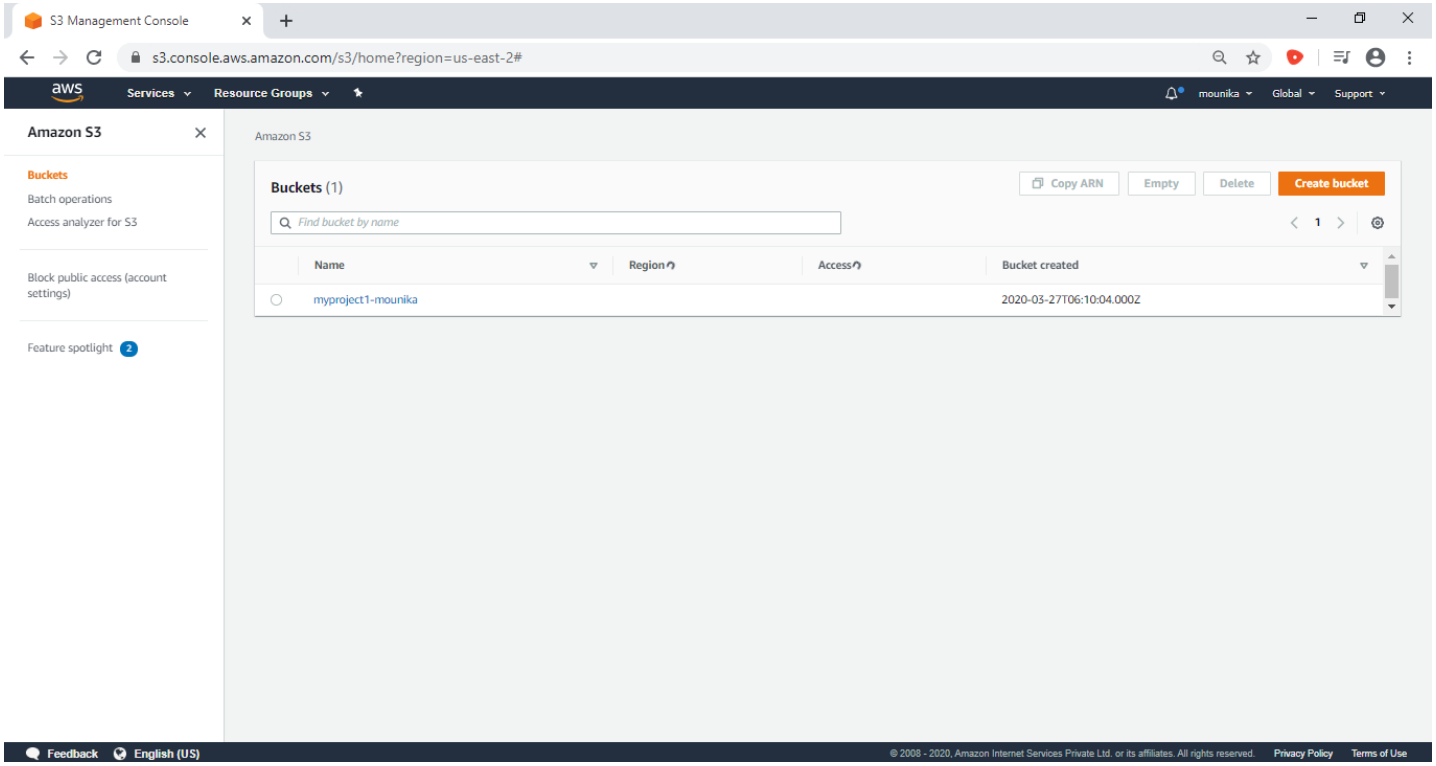
1. AWS Login screen with username



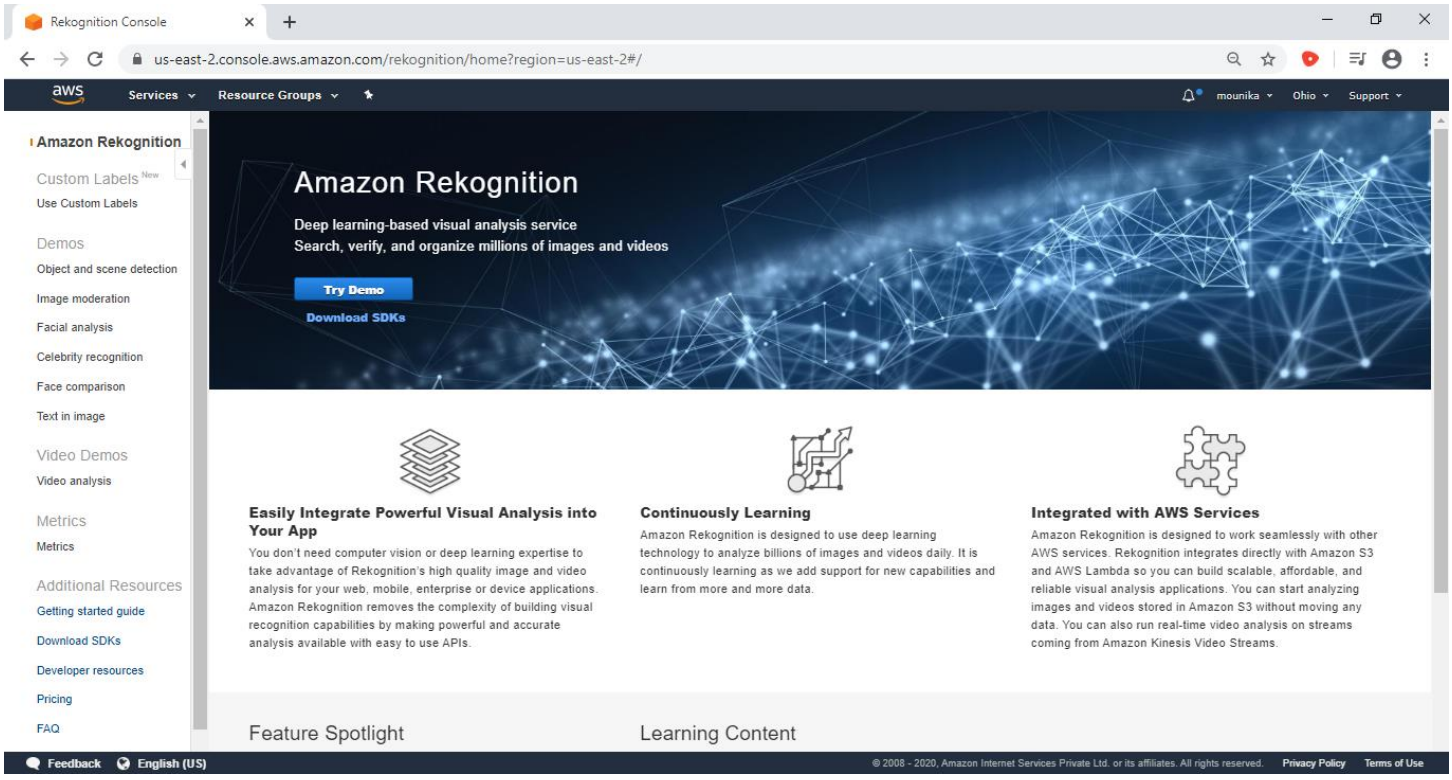
2. EC2 Dashboard



3. S3 Dashboard

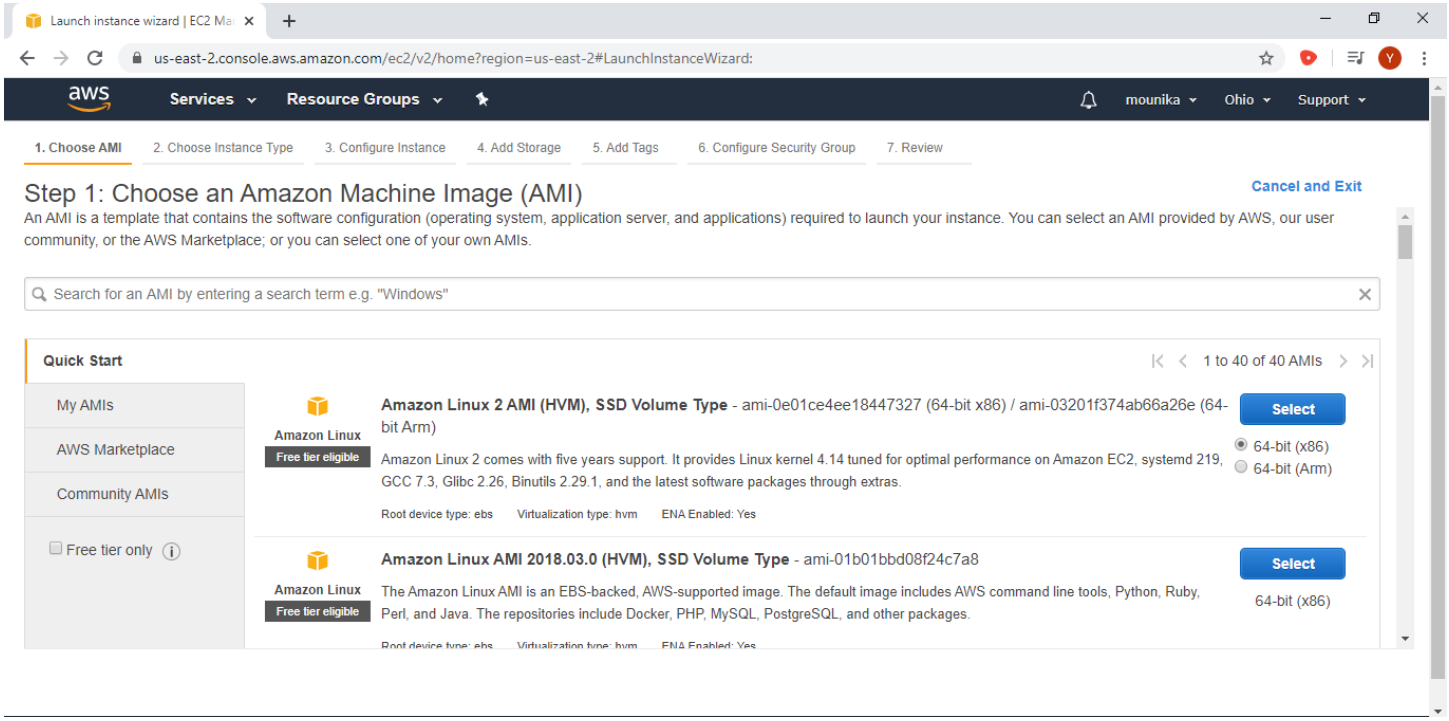


4. Rekognition Dashboard

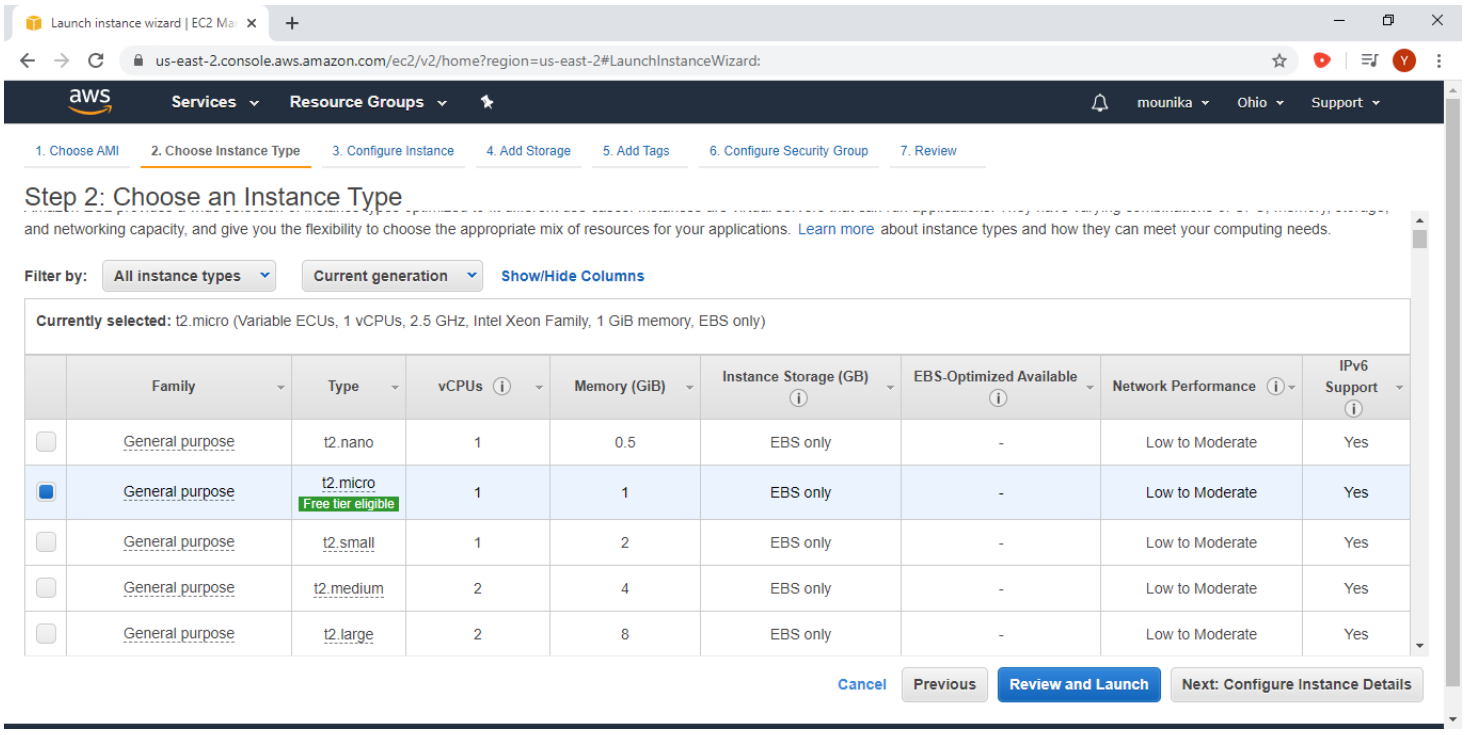


Screenshots for EC2

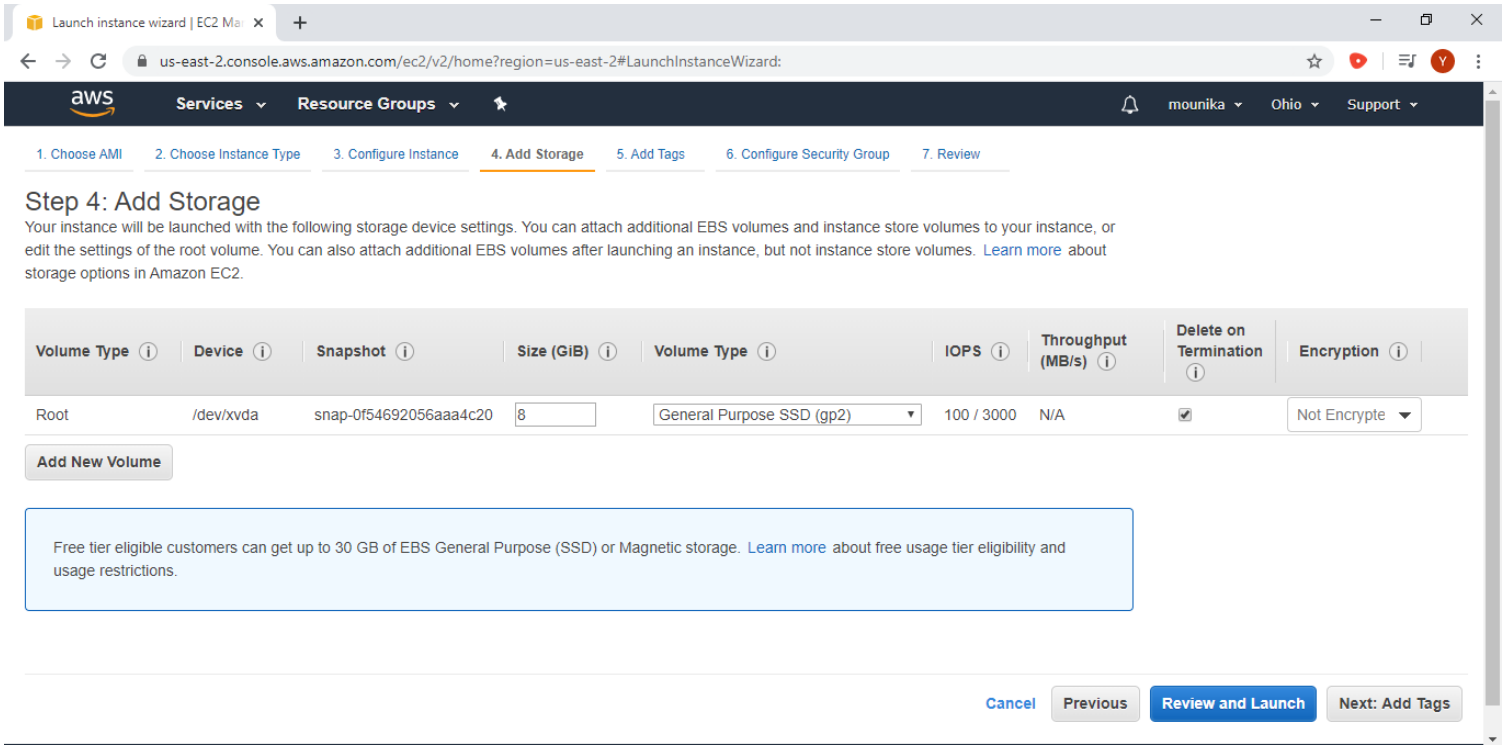
1. Choosing an AMI



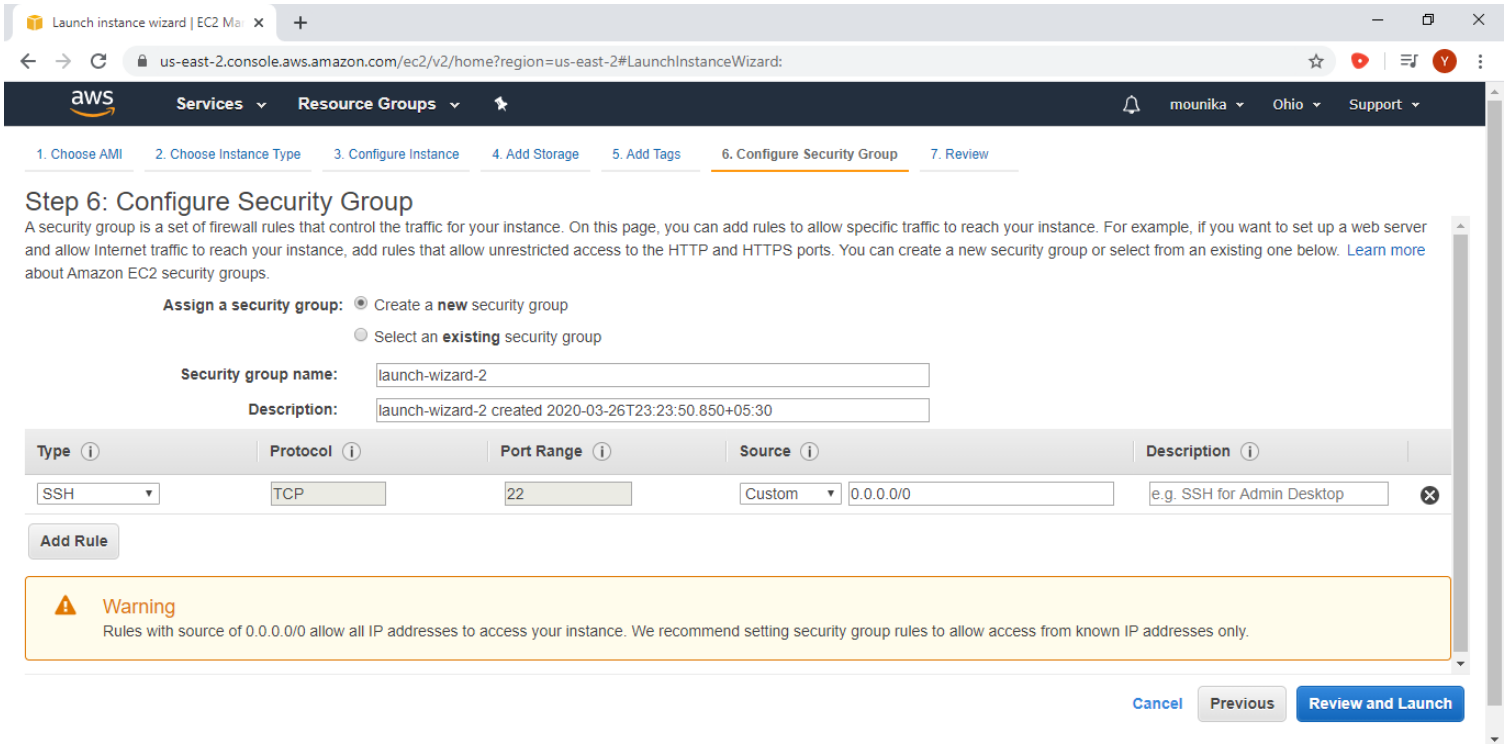
2. Choosing an Instance Type



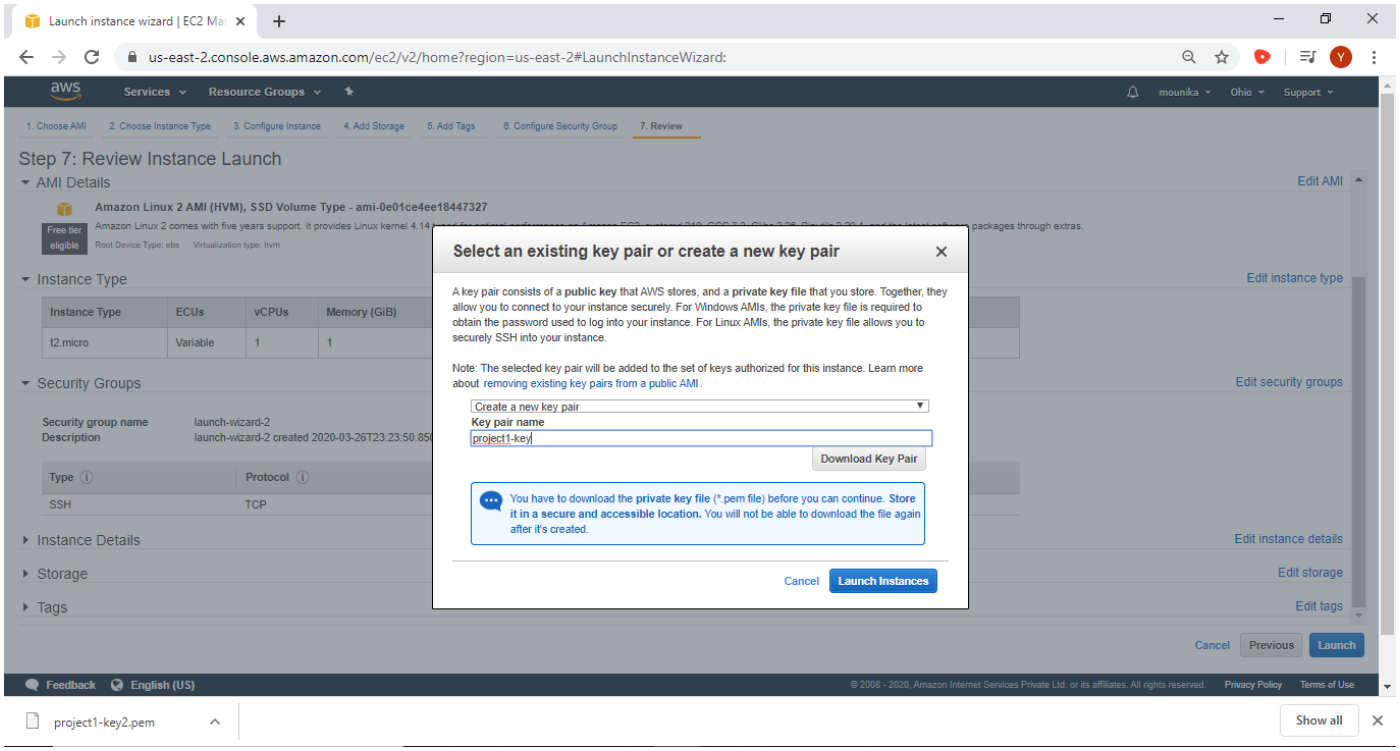
3. Adding Storage



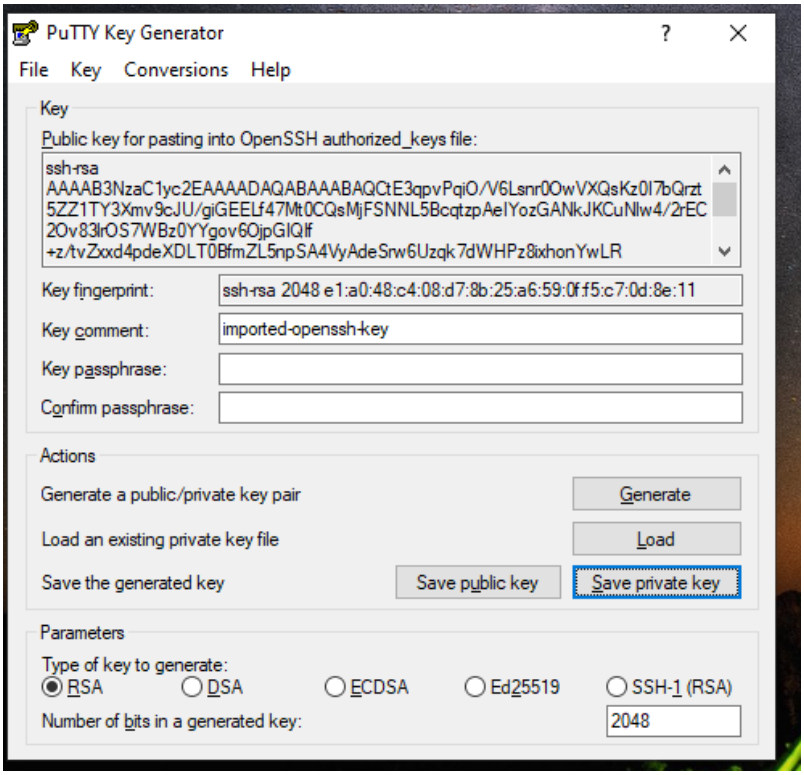
4. Configuring Security Group



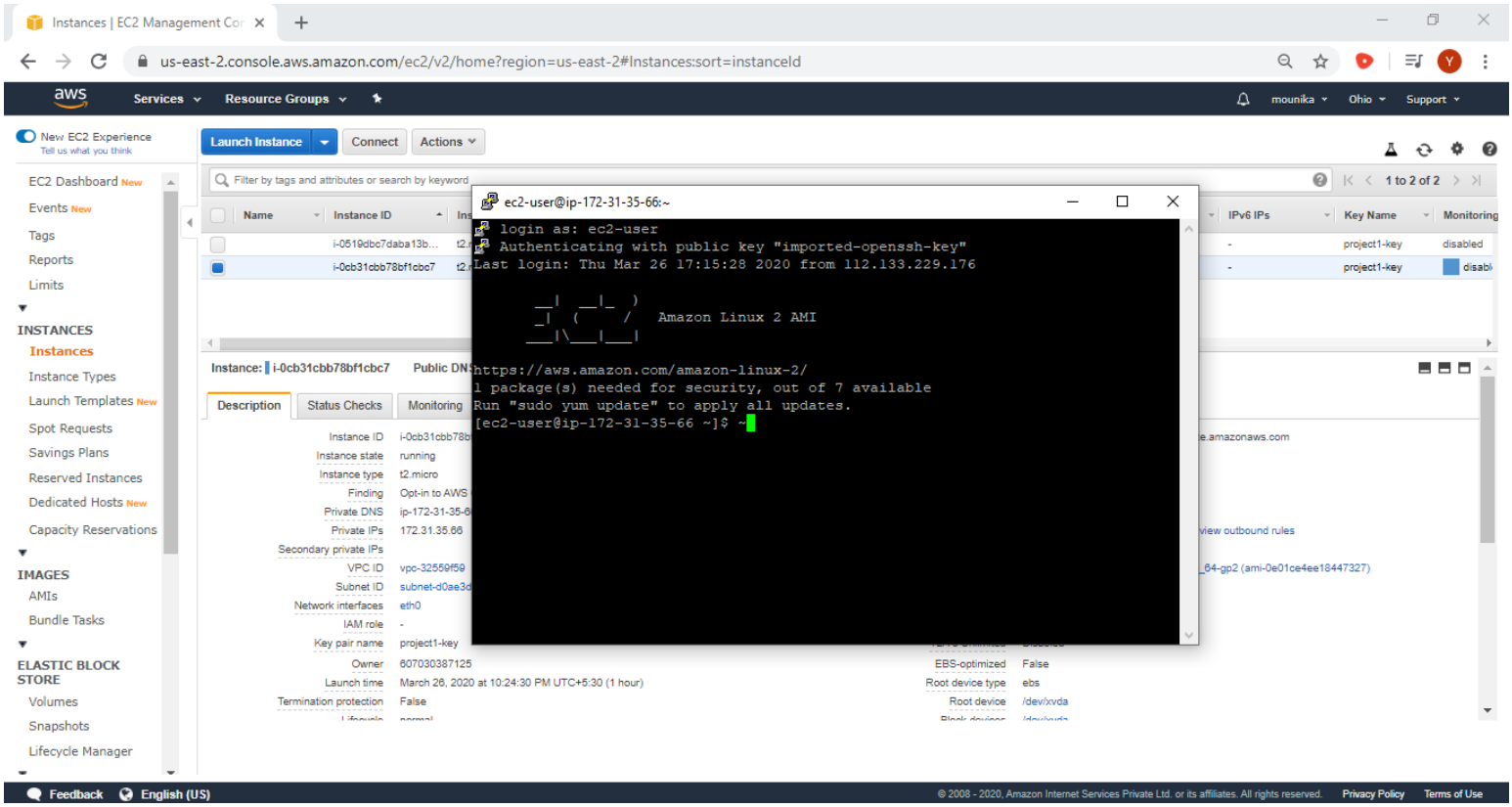
5. Key Pair Download



6. PuTTYgen conversion from pem to ppk

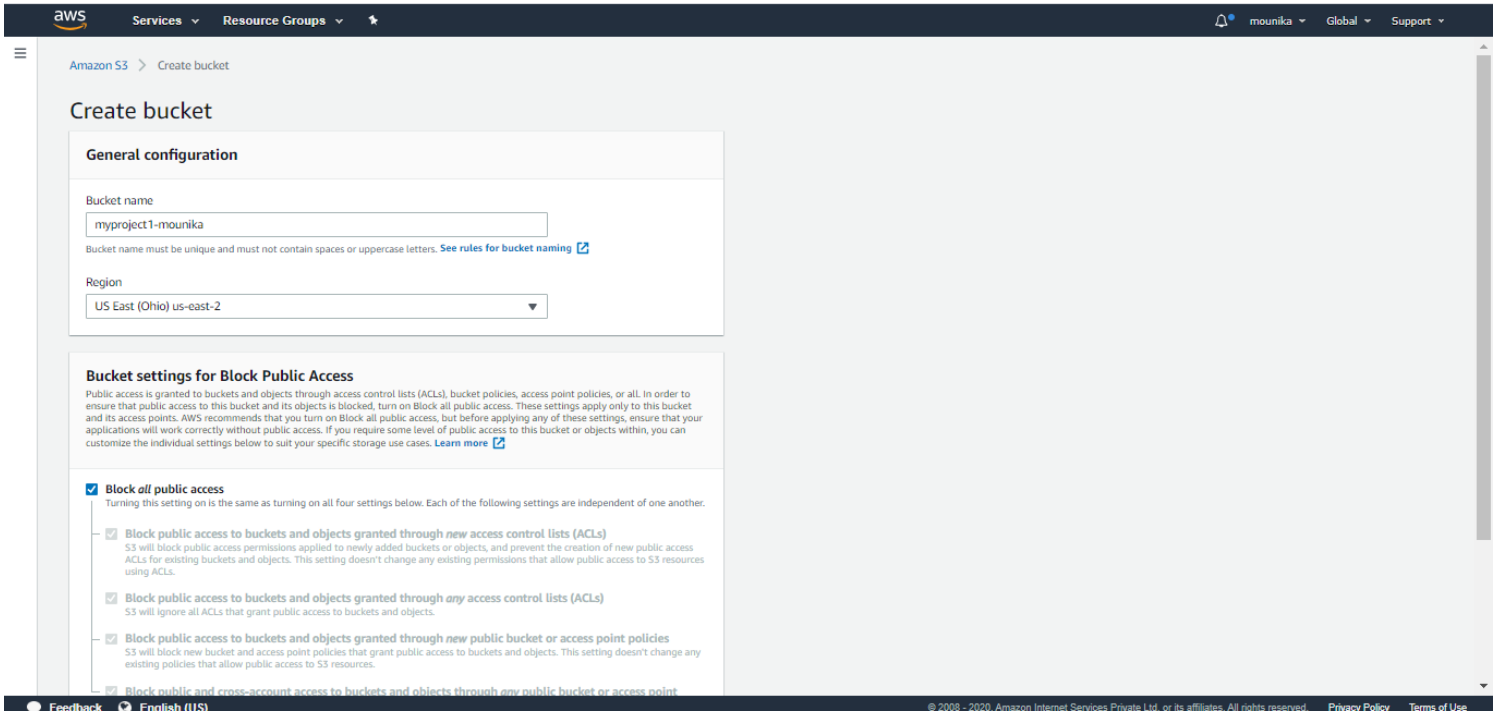


7. Logged in EC2 black screen

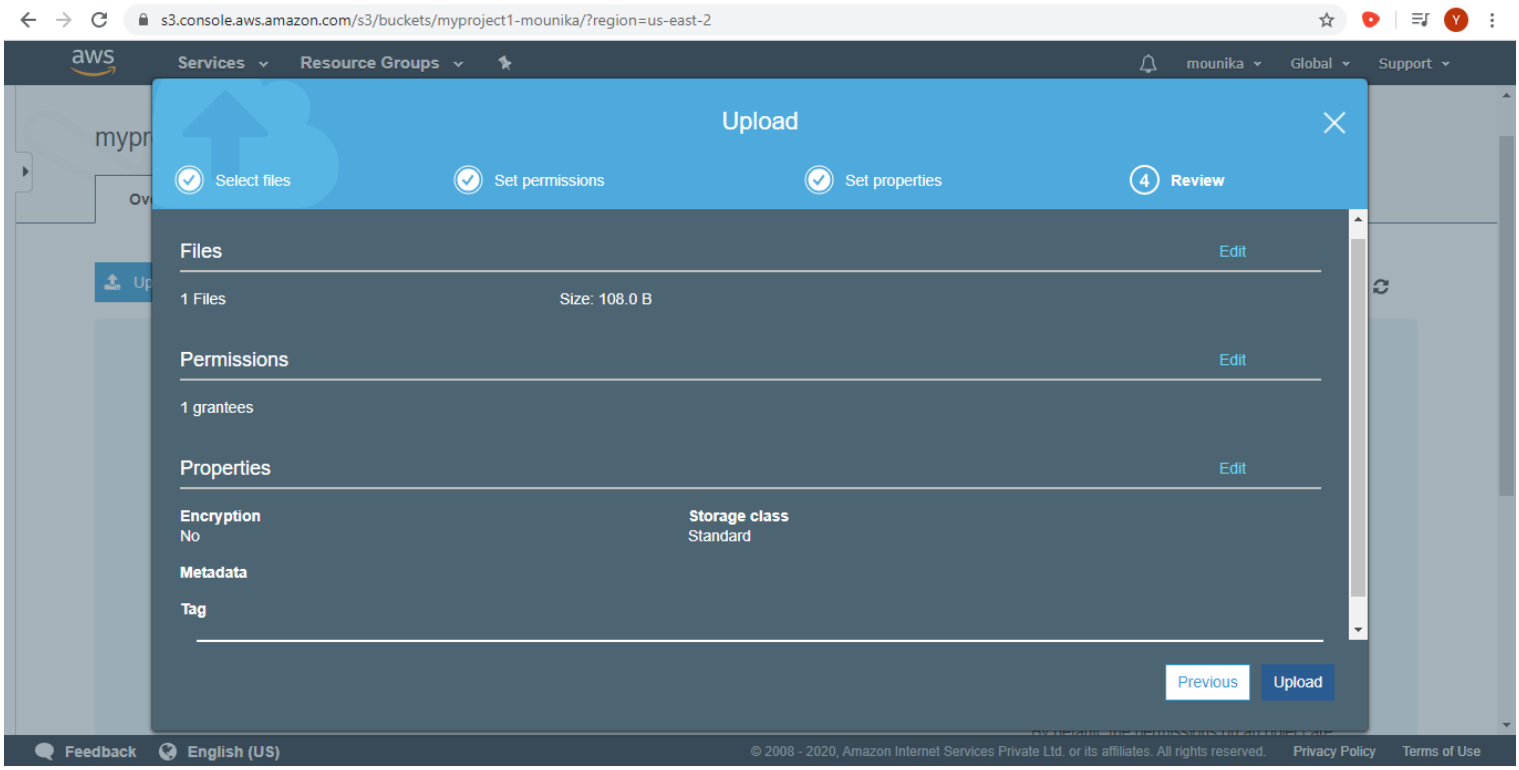


Screenshots needed for S3

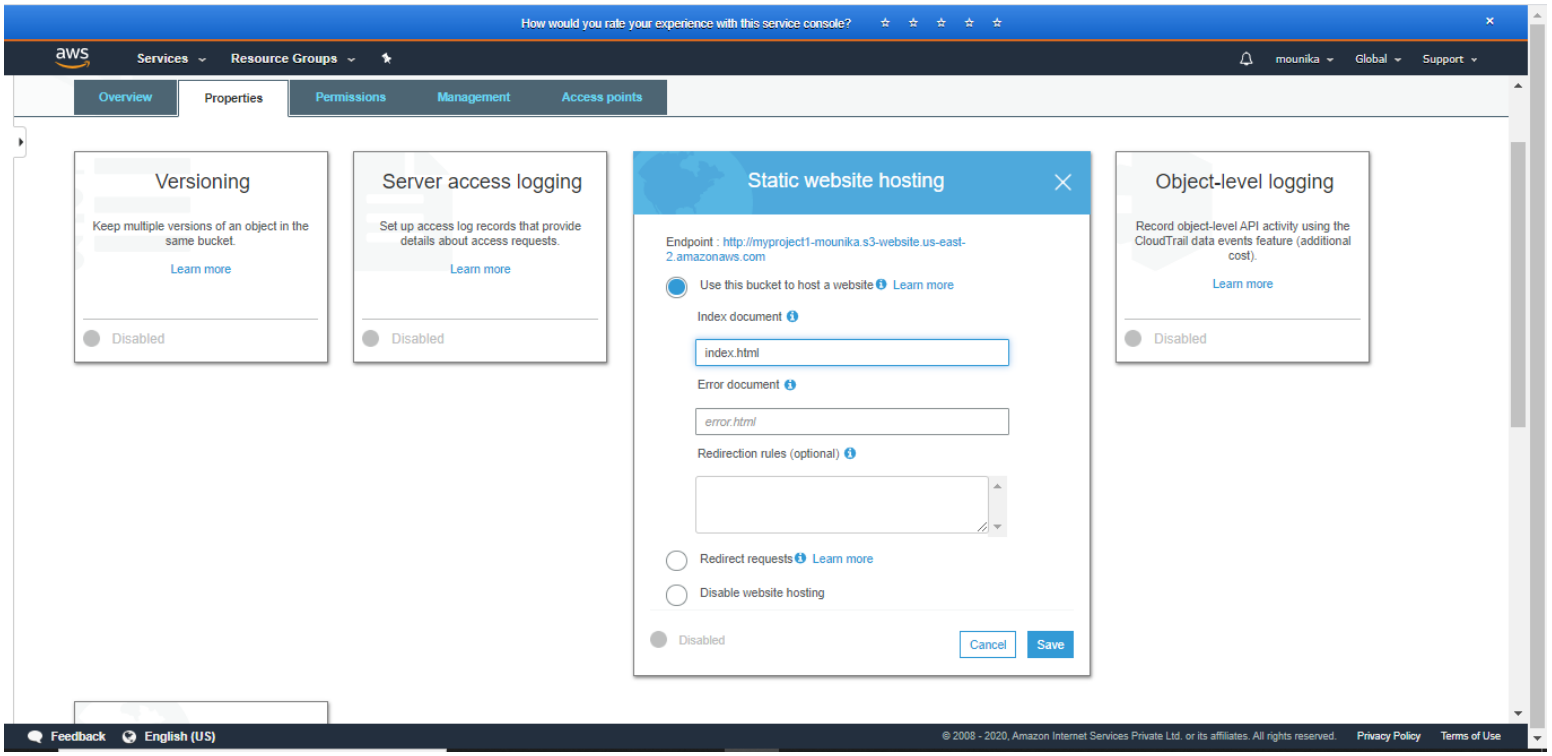
1. Creating a bucket

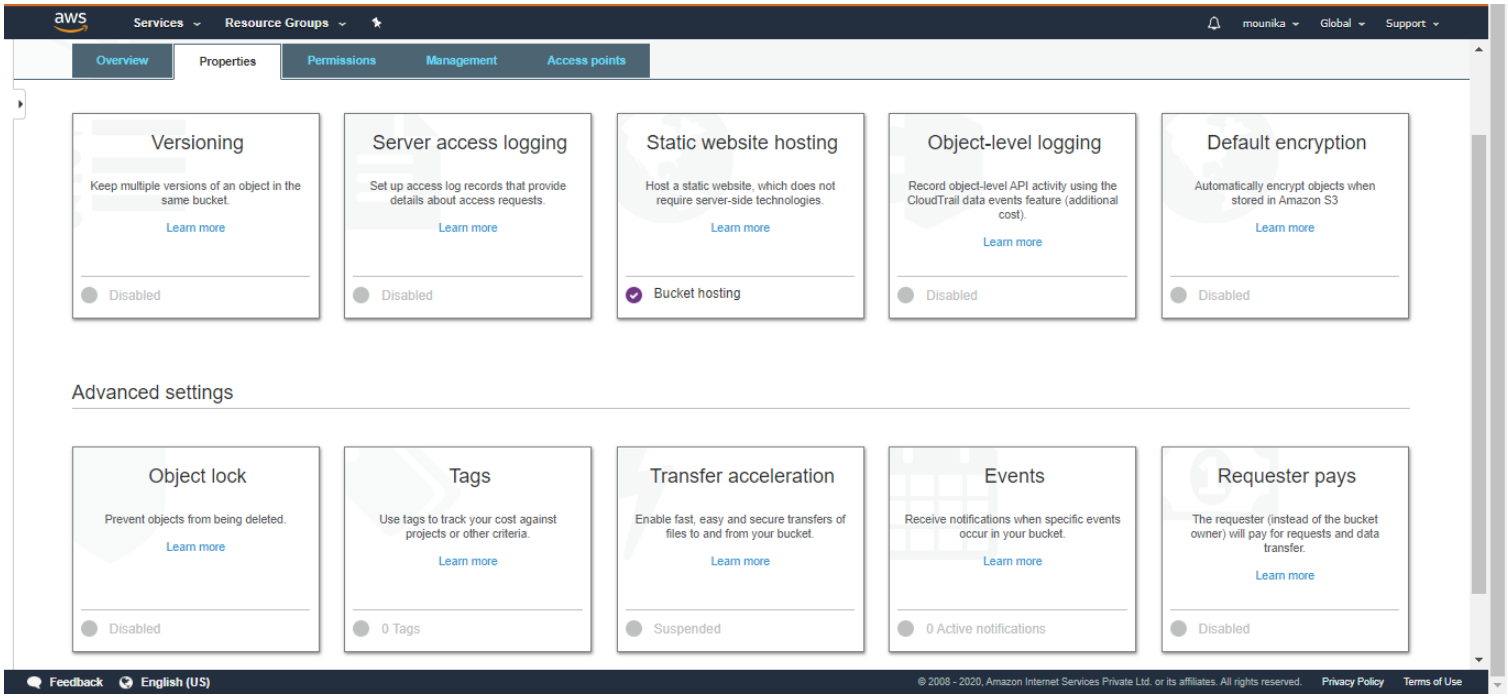


2. Uploading an Object

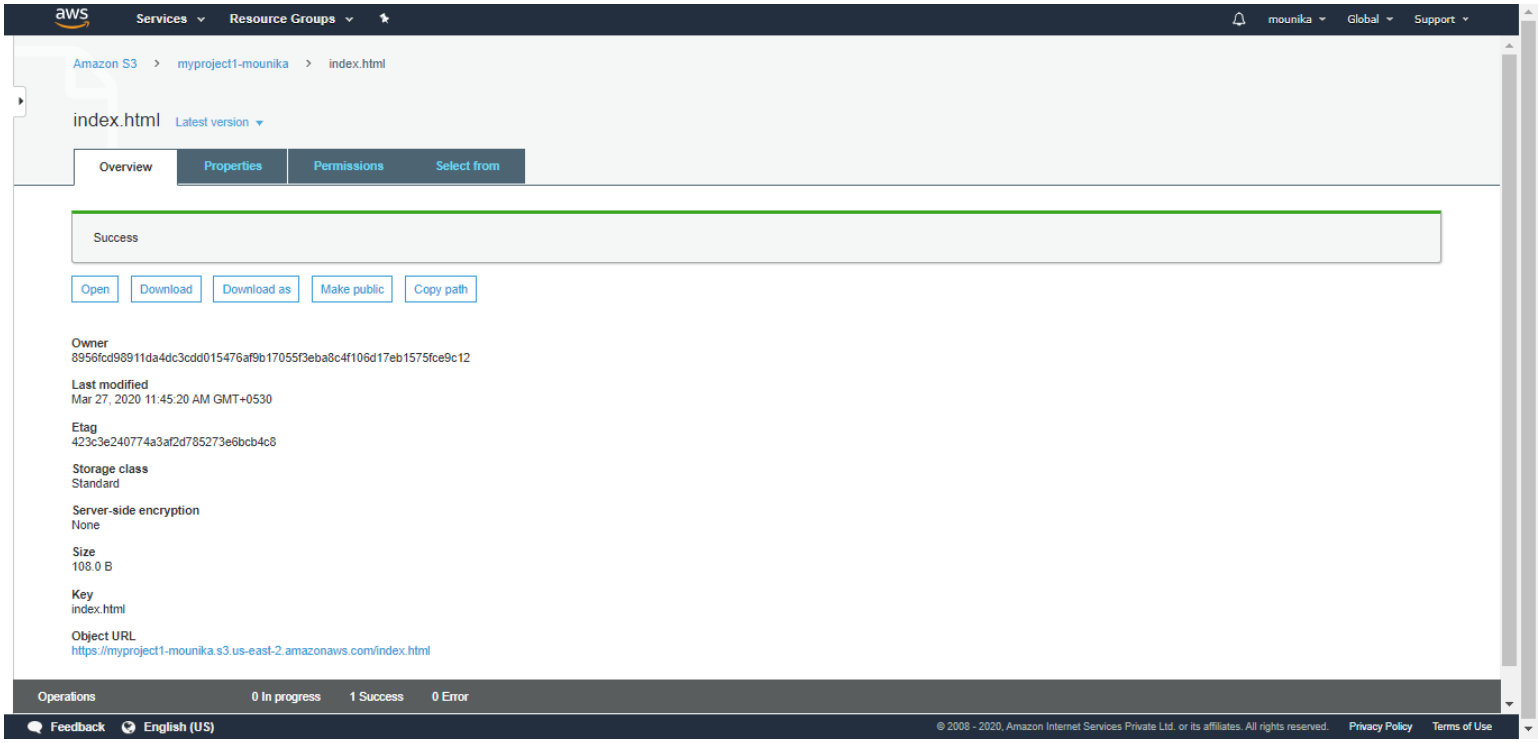


3. Enabling Static Website

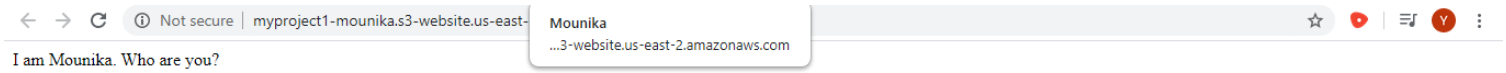




4. Making the Object Public

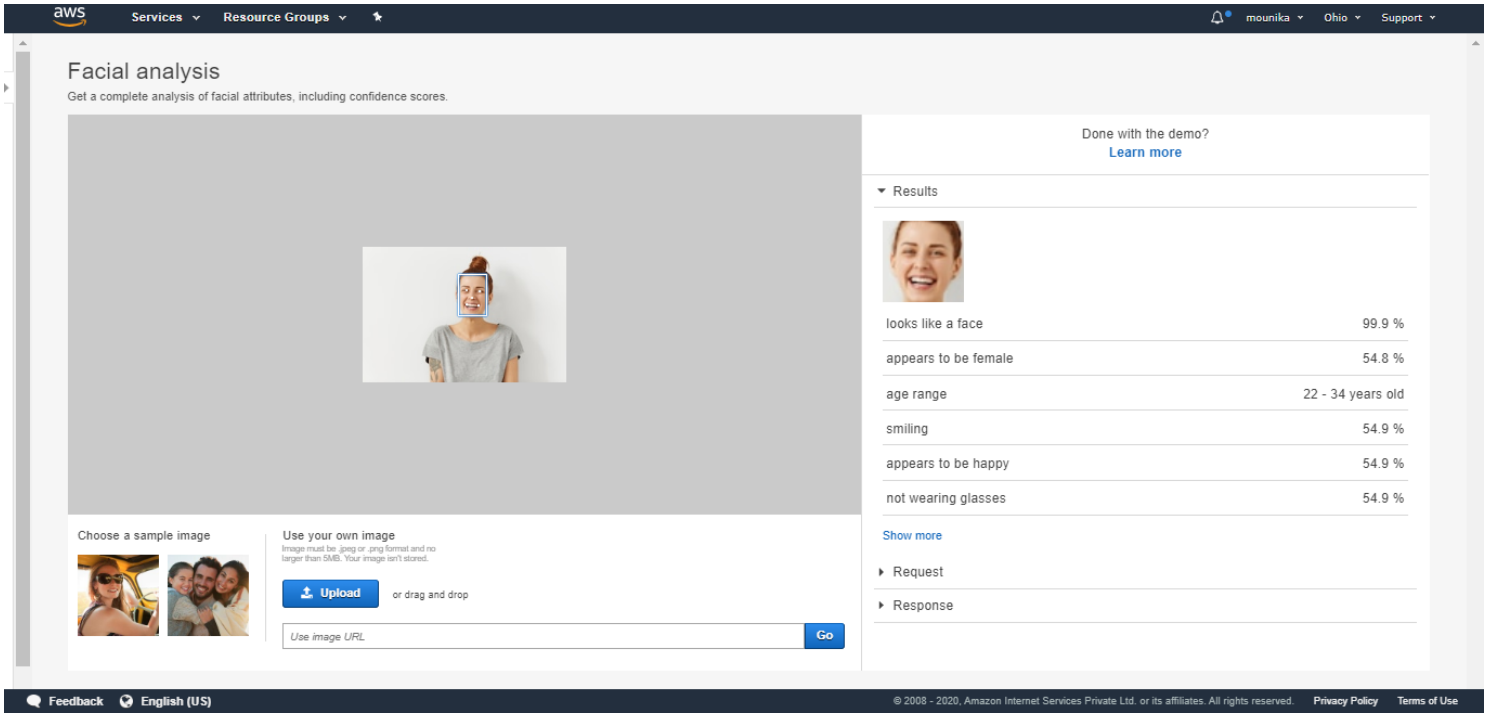


5. Checking the S3 link on the browser

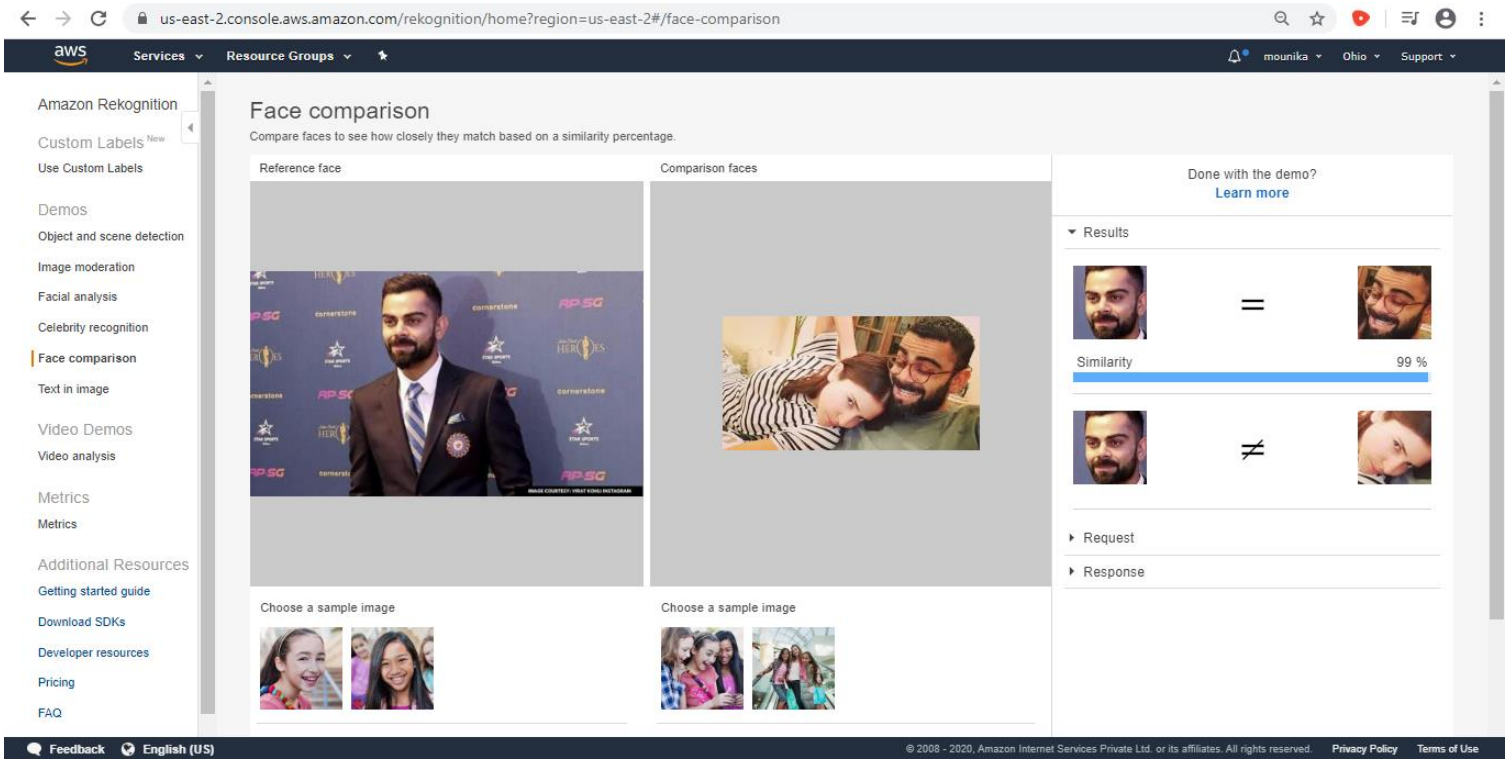


Screenshots for Rekognition

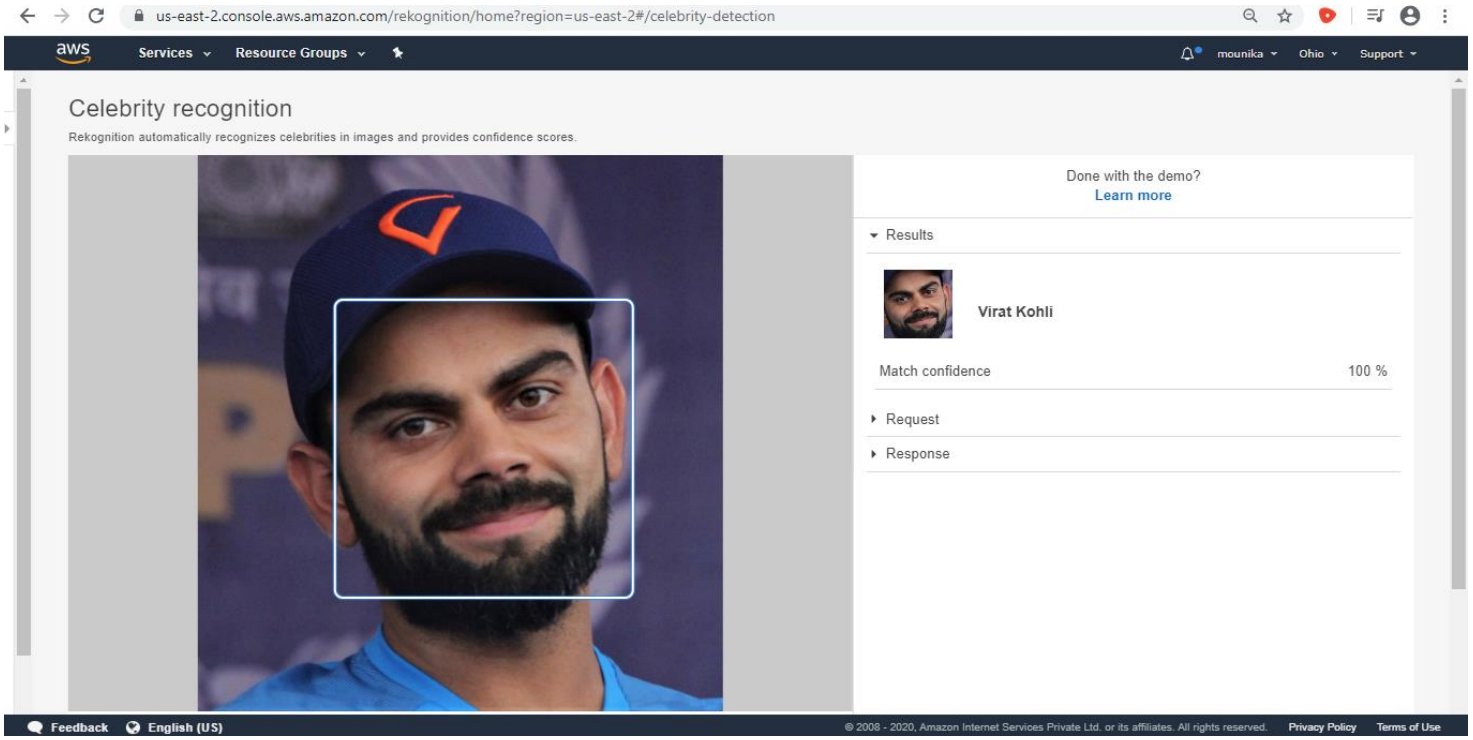
1. Face Detect



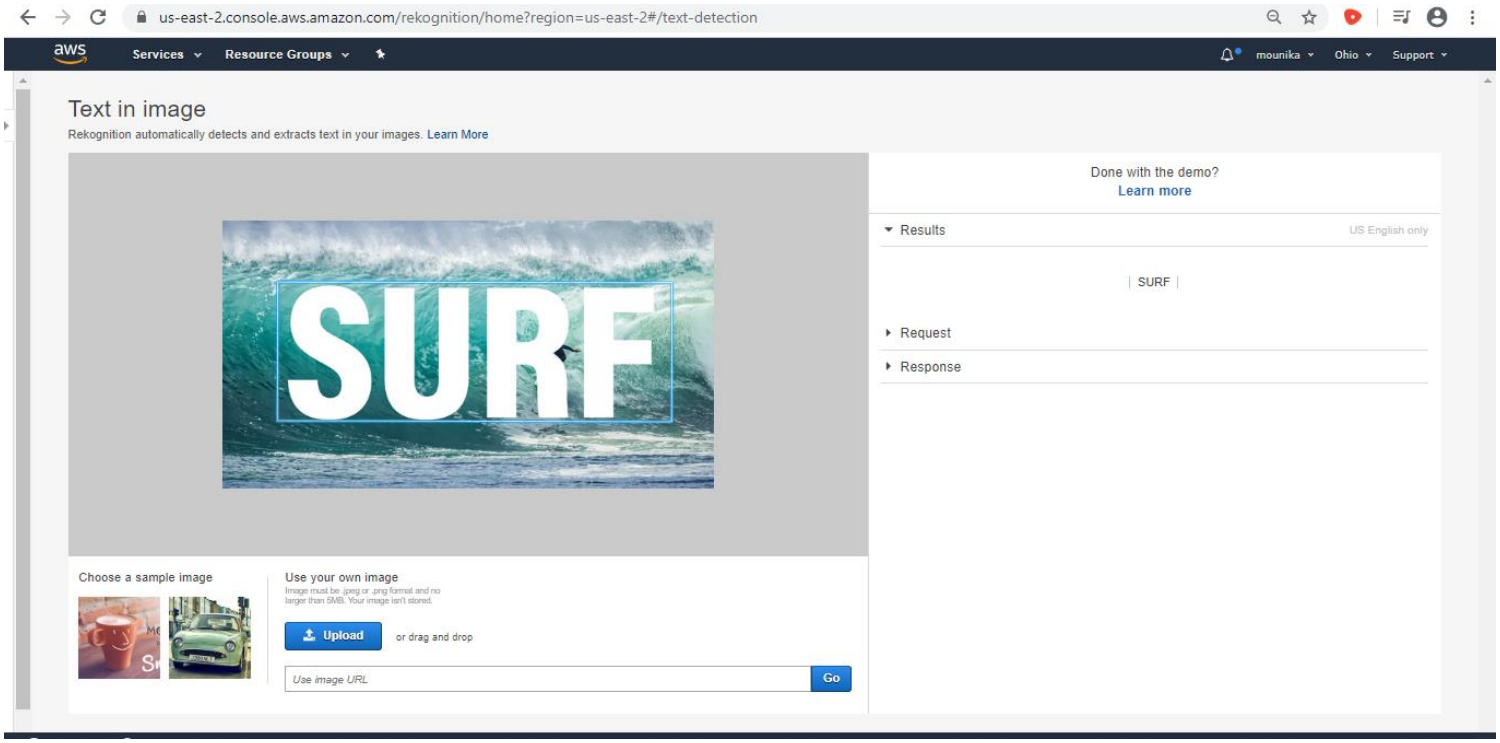
2. Face Compare



3. Celebrity Recognition

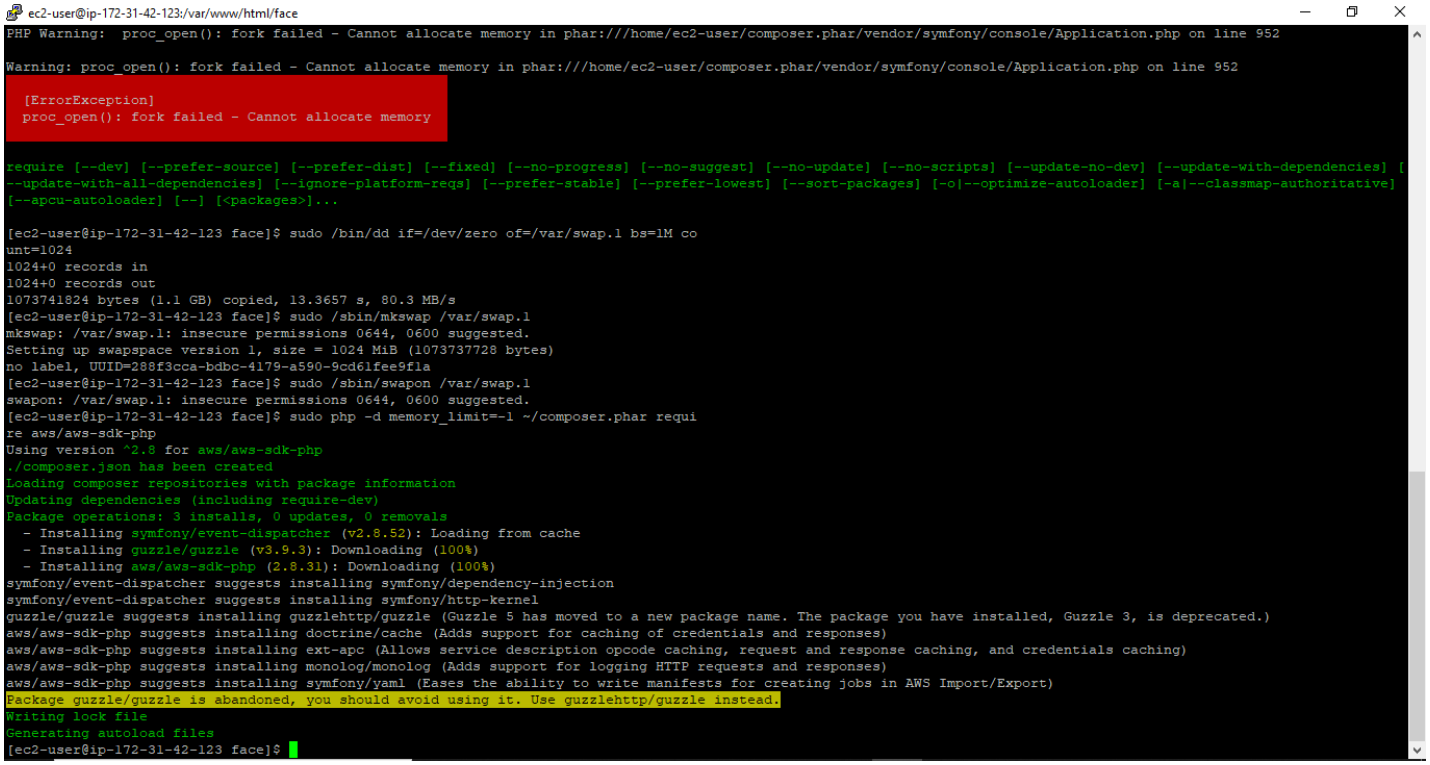


4. Text in Image

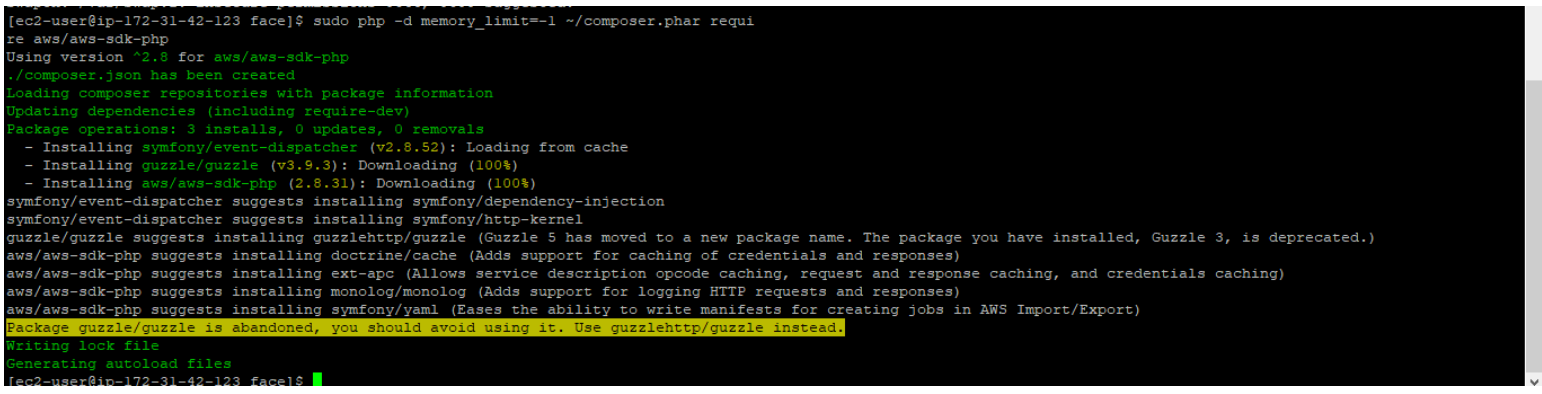


Screenshots for EC2 & S3

1. Installing aws-sdk



If the command isn't clear in the above screenshot, I have cropped it for better visibility in the below screen shot.



2. Installing php

ec2-user@ip-172-31-42-123:~

```
[ec2-user@ip-172-31-42-123 ~]$ 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-172-31-42-123 ~]$
```

2. index.php file code

ec2-user@ip-172-31-42-123:/var/www/html/face

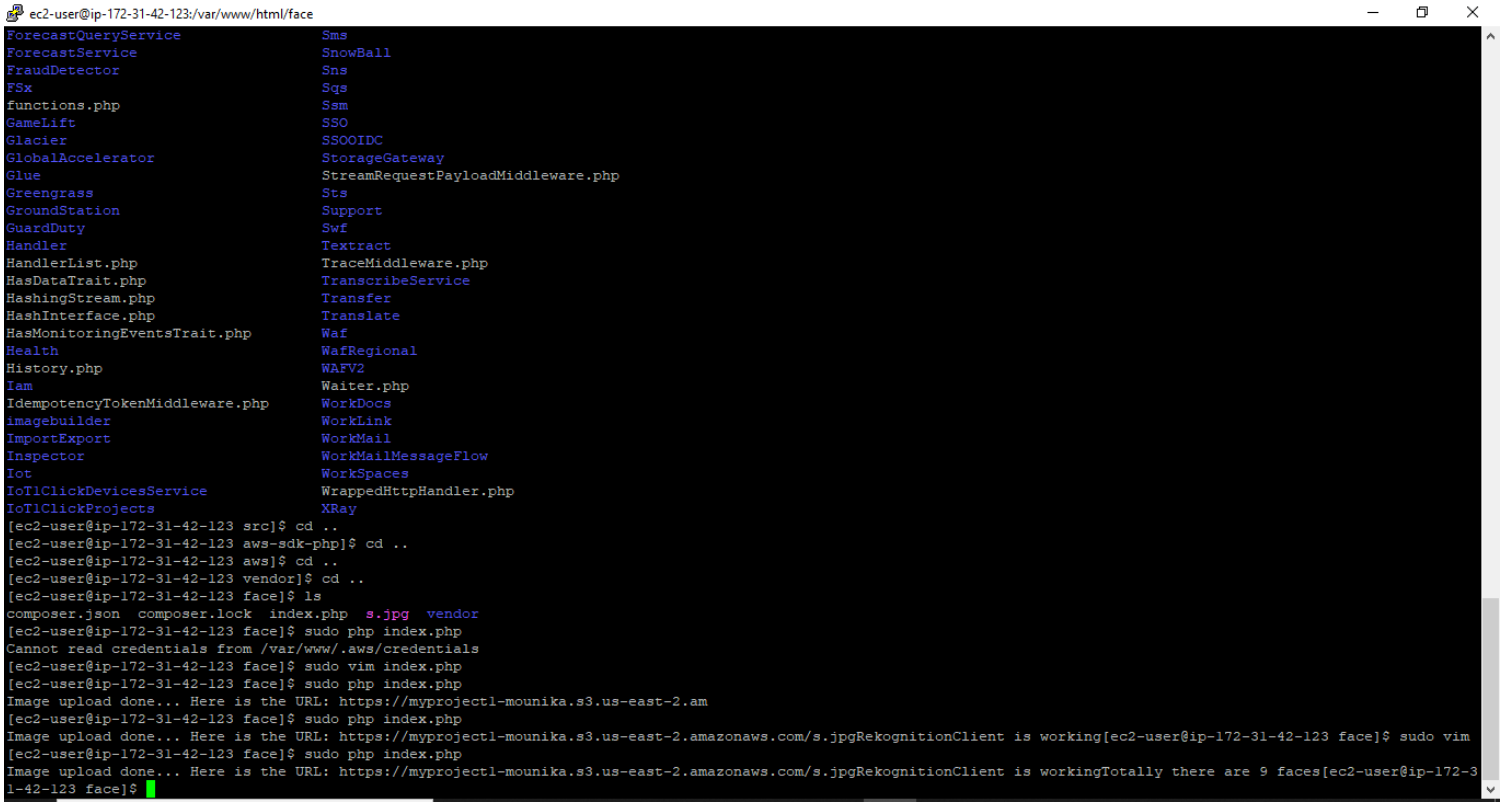
```
<?php
require_once(__DIR__ . '/vendor/autoload.php');

use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;
$bucket = 'myproject1-mounika';
$keyname = 's.jpg';
$s3 = S3Client::factory([
        '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',
                ]);
                echo "RekognitionClient is working";

                $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;
}
~
                                                                                15,1-8          All
```

3. Upload success screenshot

```
ec2-user@ip-172-31-42-123:/var/www/html/face
Error retrieving credentials from the instance profile metadata server. When you ar
e not running inside of Amazon EC2, you must provide your AWS access key ID and sec
ret access key in the "key" and "secret" options when creating a client or provide
an instantiated Aws\Common\Credentials\CredentialsInterface object. (Client error r
esponse
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-42-123 face]$ sudo vim index.php
[ec2-user@ip-172-31-42-123 face]$ sudo php index.php
You must specify a non-null value for the Body or SourceFile parameters.
[ec2-user@ip-172-31-42-123 face]$ sudo vim index.php
[ec2-user@ip-172-31-42-123 face]$ sudo php index.php
Error retrieving credentials from the instance profile metadata server. When you are not running inside of Amazon EC2, you must provide your AWS access key ID and secre
t access key in the "key" and "secret" options when creating a client or provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Client error respo
nse
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-42-123 face]$ sudo vim index.php
[ec2-user@ip-172-31-42-123 face]$ sudo php index.php
Error retrieving credentials from the instance profile metadata server. When you are not running inside of Amazon EC2, you must provide your AWS access key ID and secre
t access key in the "key" and "secret" options when creating a client or provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Client error respo
nse
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-42-123 face]$ sudo vim index.php
[ec2-user@ip-172-31-42-123 face]$ sudo php index.php
Error retrieving credentials from the instance profile metadata server. When you are not running inside of Amazon EC2, you must provide your AWS access key ID and secre
t access key in the "key" and "secret" options when creating a client or provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Client error respo
nse
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-42-123 face]$ sudo php index.php
Error retrieving credentials from the instance profile metadata server. When you are not running inside of Amazon EC2, you must provide your AWS access key ID and secre
t access key in the "key" and "secret" options when creating a client or provide an instantiated Aws\Common\Credentials\CredentialsInterface object. (Client error respo
nse
[status code] 404
[reason phrase] Not Found
[url] http://169.254.169.254/latest/meta-data/iam/security-credentials/)
[ec2-user@ip-172-31-42-123 face]$ sudo php index.php
Image upload done... Here is the URL: https://myproject1-mounika.s3.us-east-2.amazonaws.com/s.jpg[ec2-user@ip-172-31-42-123 face]$
```

Screenshots needed for EC2 & Rekognition

1. Face Detect success screenshot



The output is: Image upload done. Here is the URL: https://myproject1-mounika.s3.us-east-2.amazon.aws.com/s.jpgRekognitionClient is workingTotally there are 9 faces.