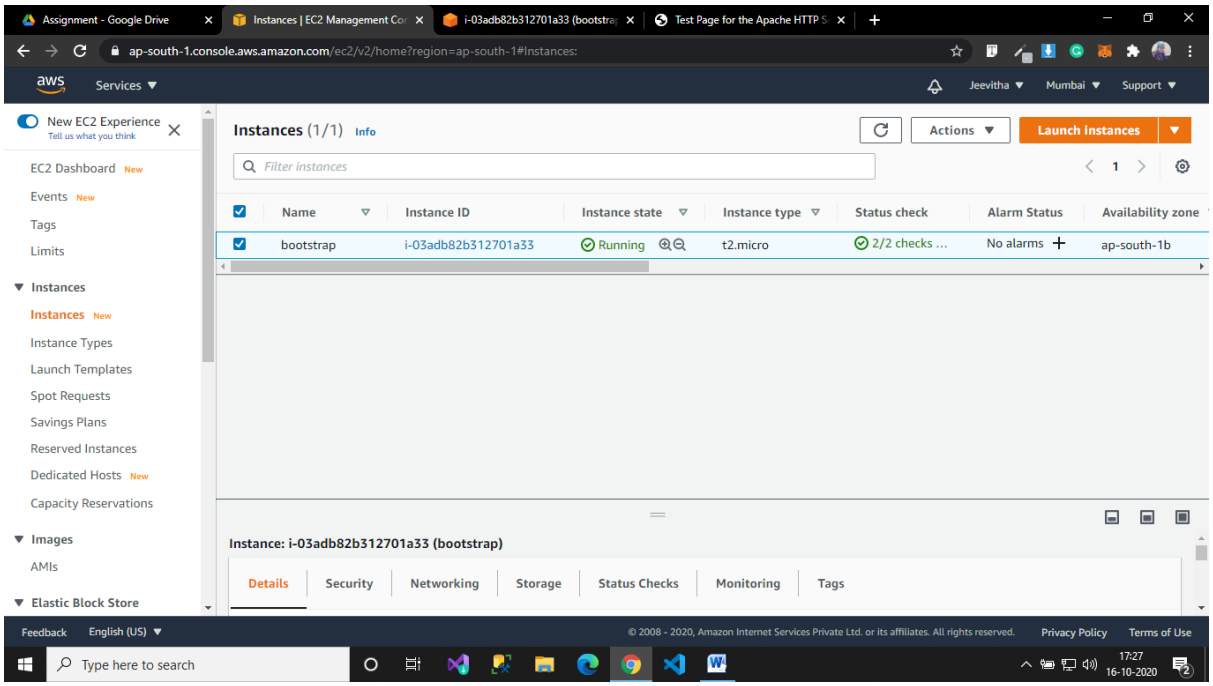
PROJECT 1: Working with IAM Roles with S3 and bootstrapping with EC2

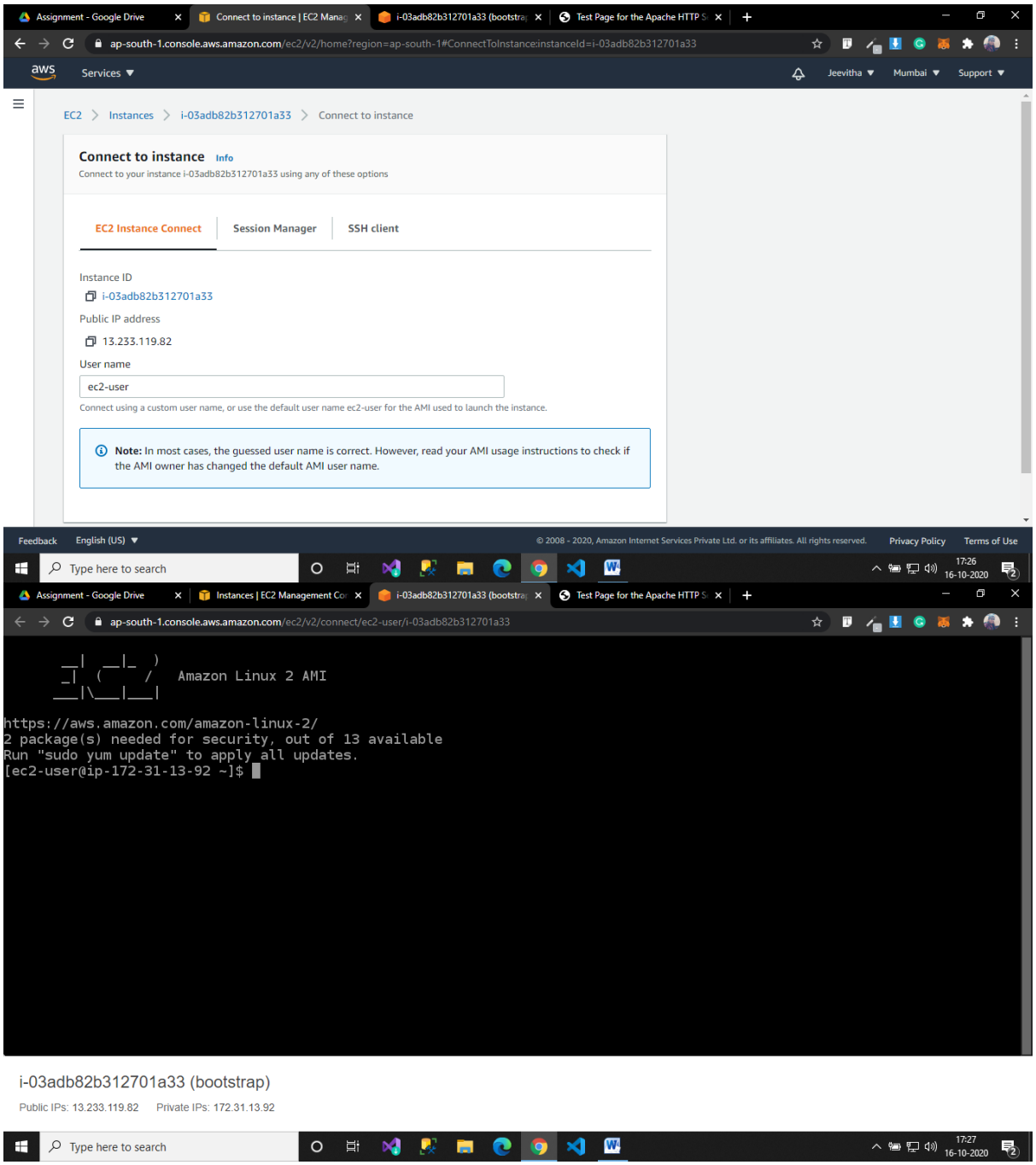
Task1: Creating a bootstrapped instance

SS1: edit user data

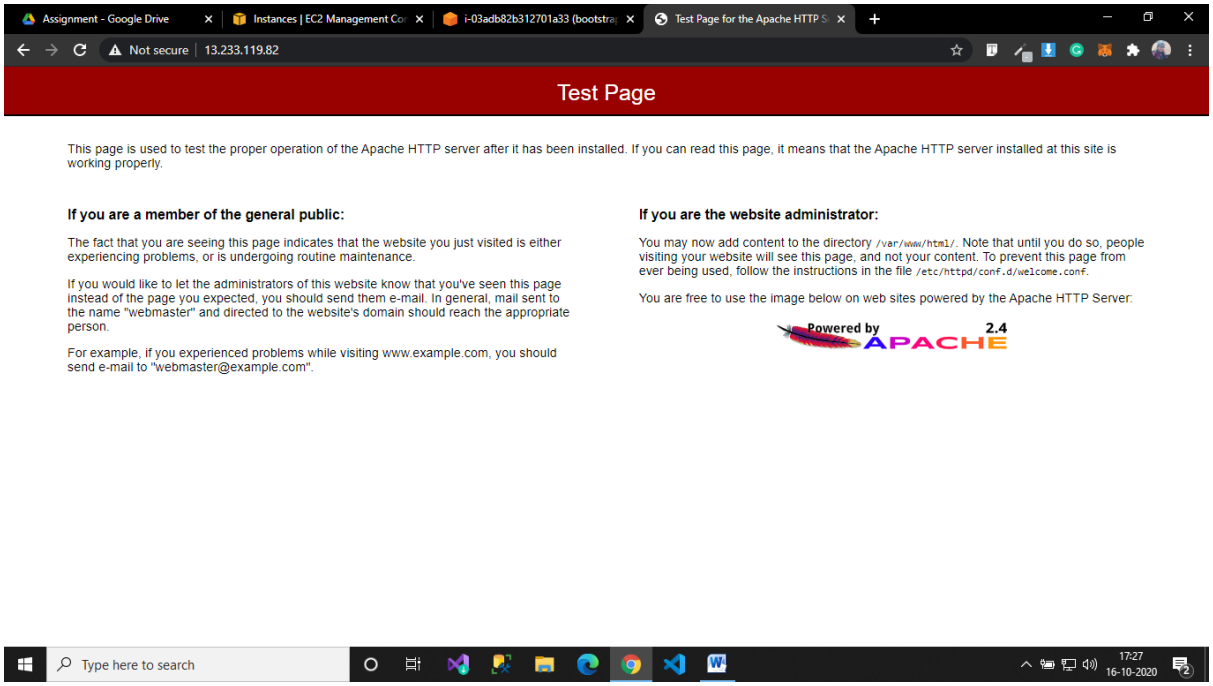
```
#!/bin/bash
yum –y install httpd
service httpd start
```



Ss2: list of ec2 instances with description

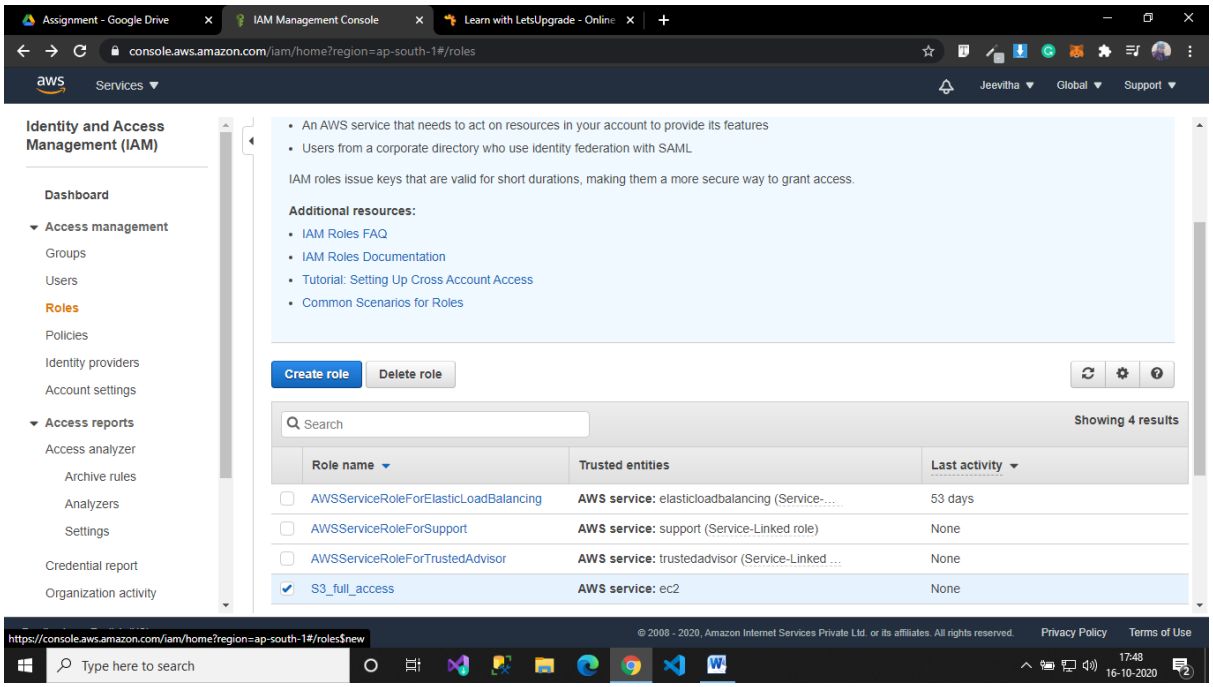


Ss3: test page

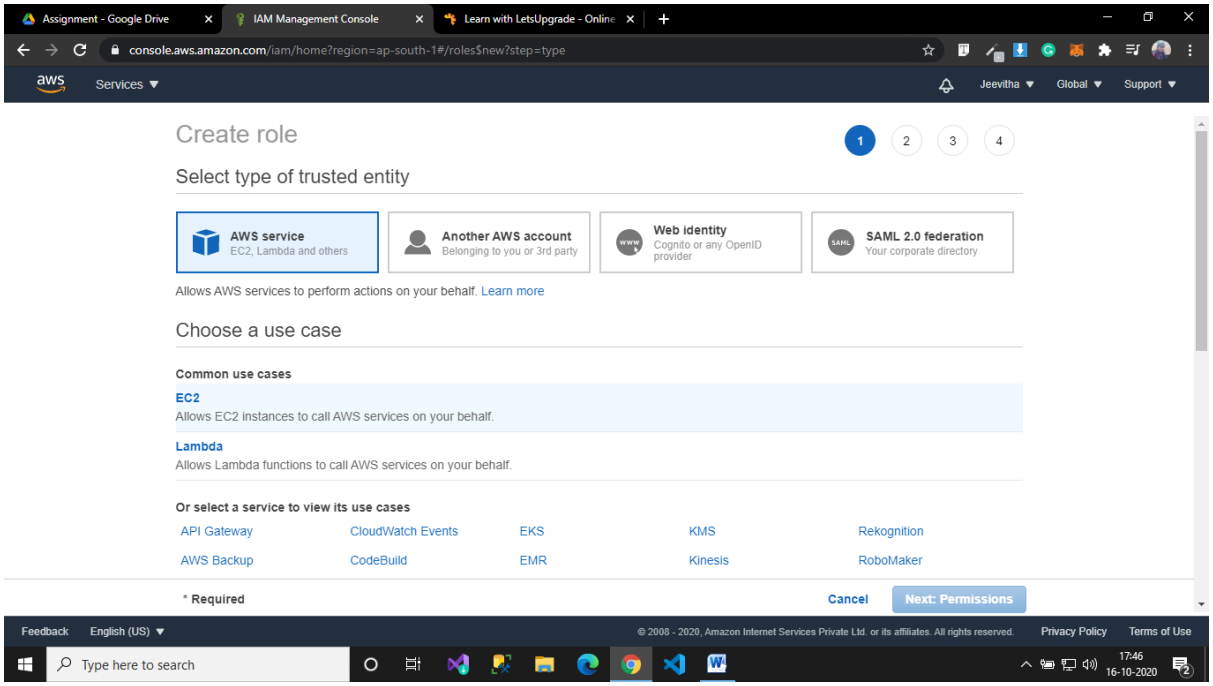


Task 2: Checking bucket list and creating a new bucket from EC2 using IAM ROLes

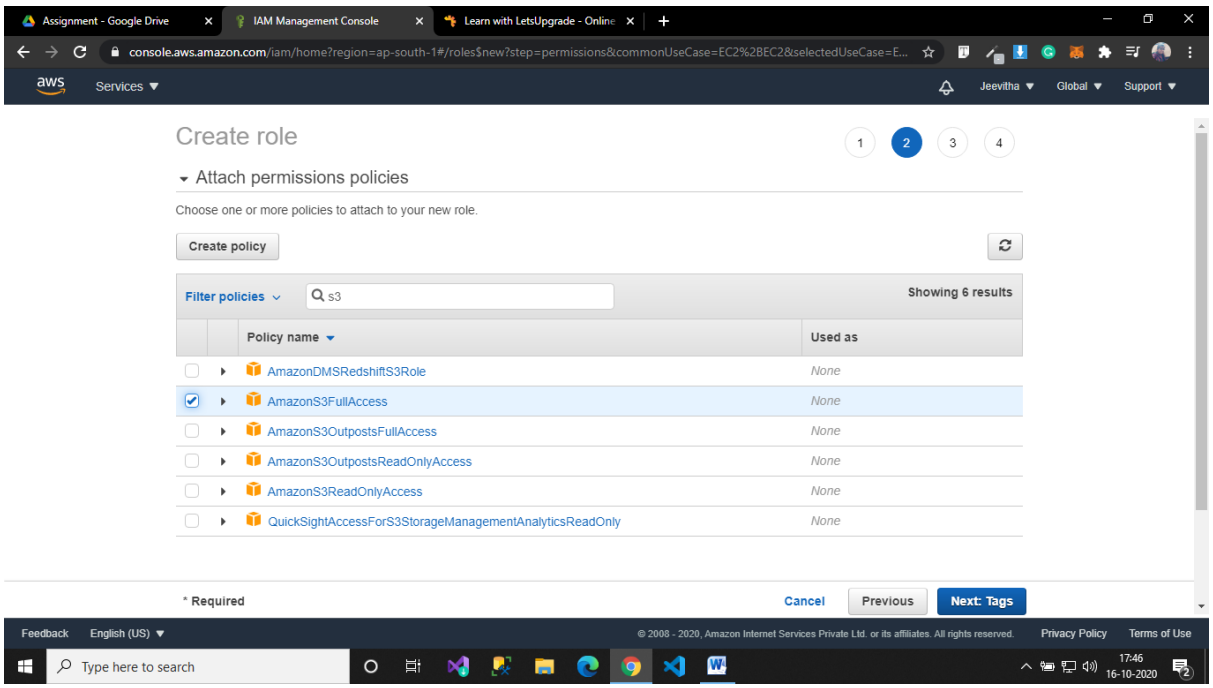
Ss1: Create IAM Role



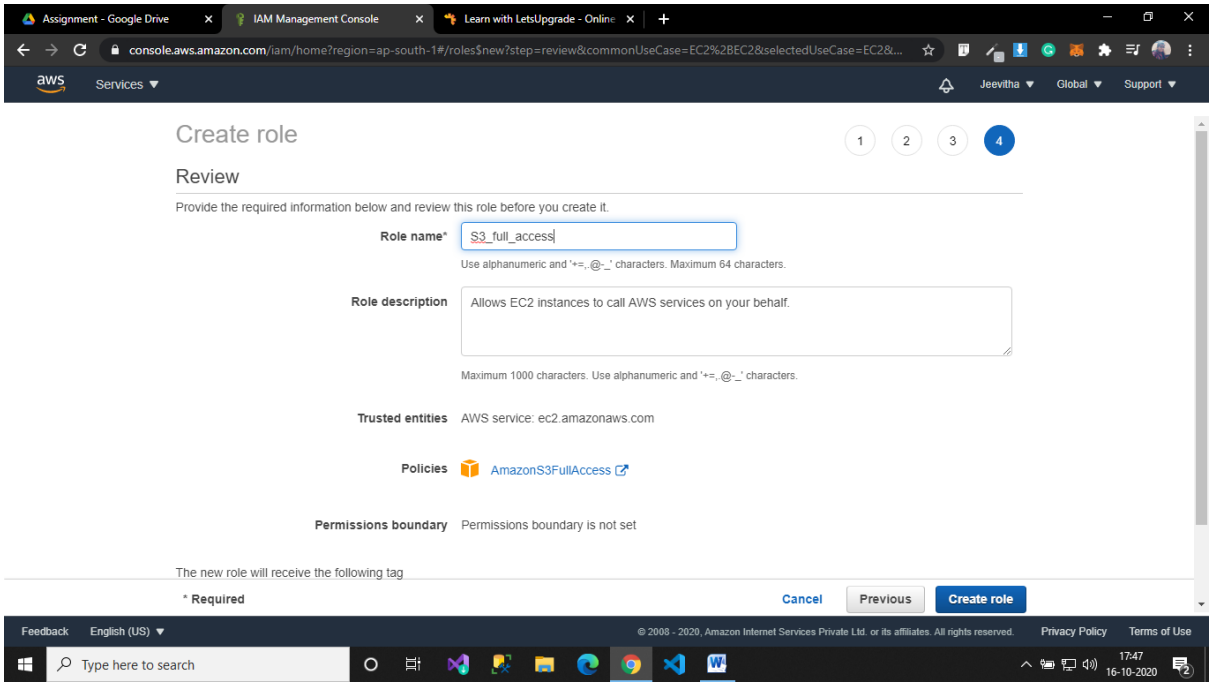
Ss2: Choose EC2 in use case

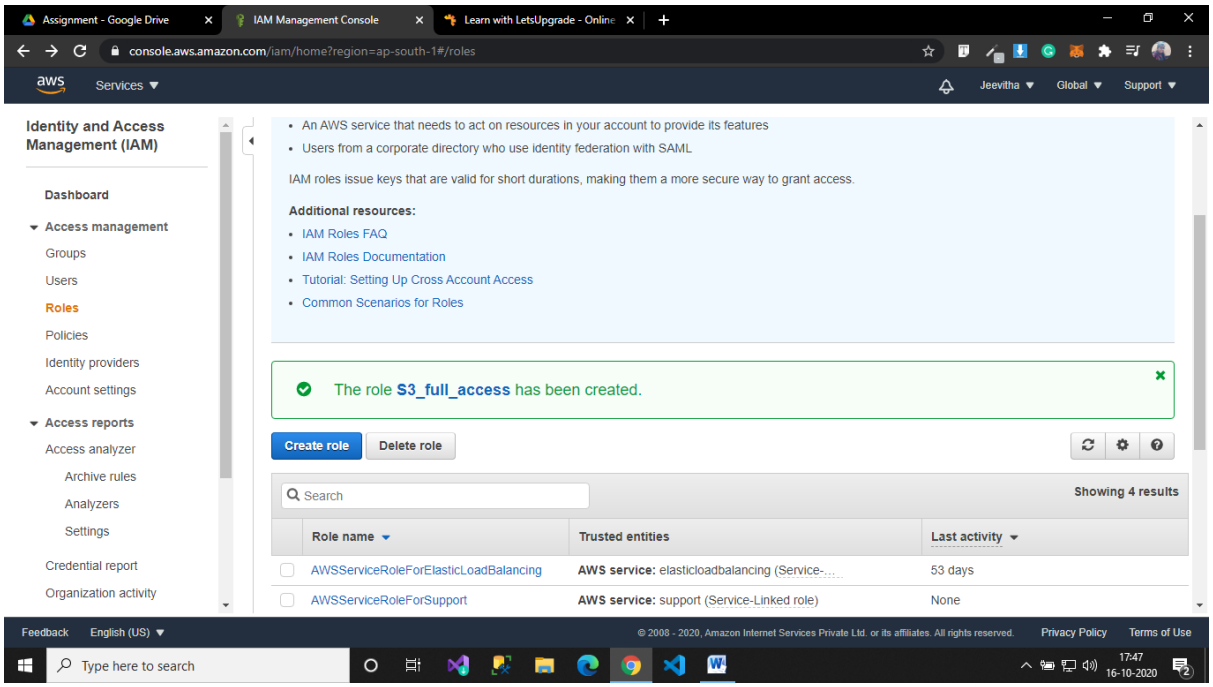


Ss3: Select AmazonS3FullAccess in permission policies

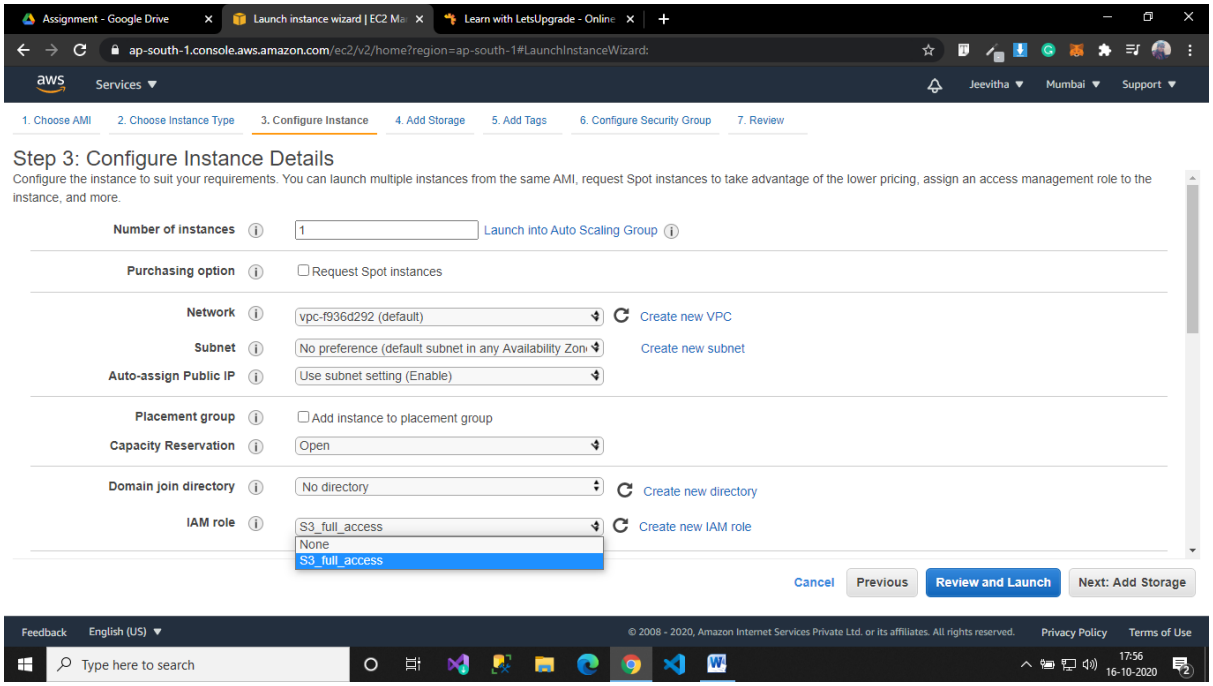


Ss4: Enter Role name as S3_full_access and create role.

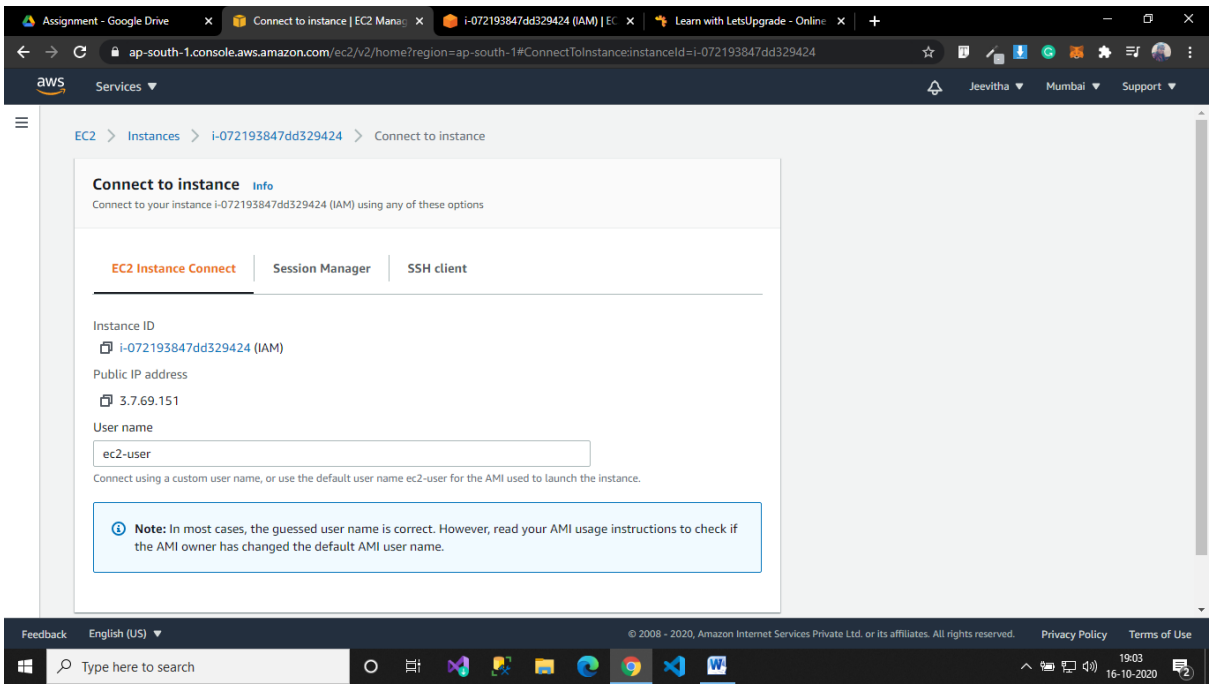




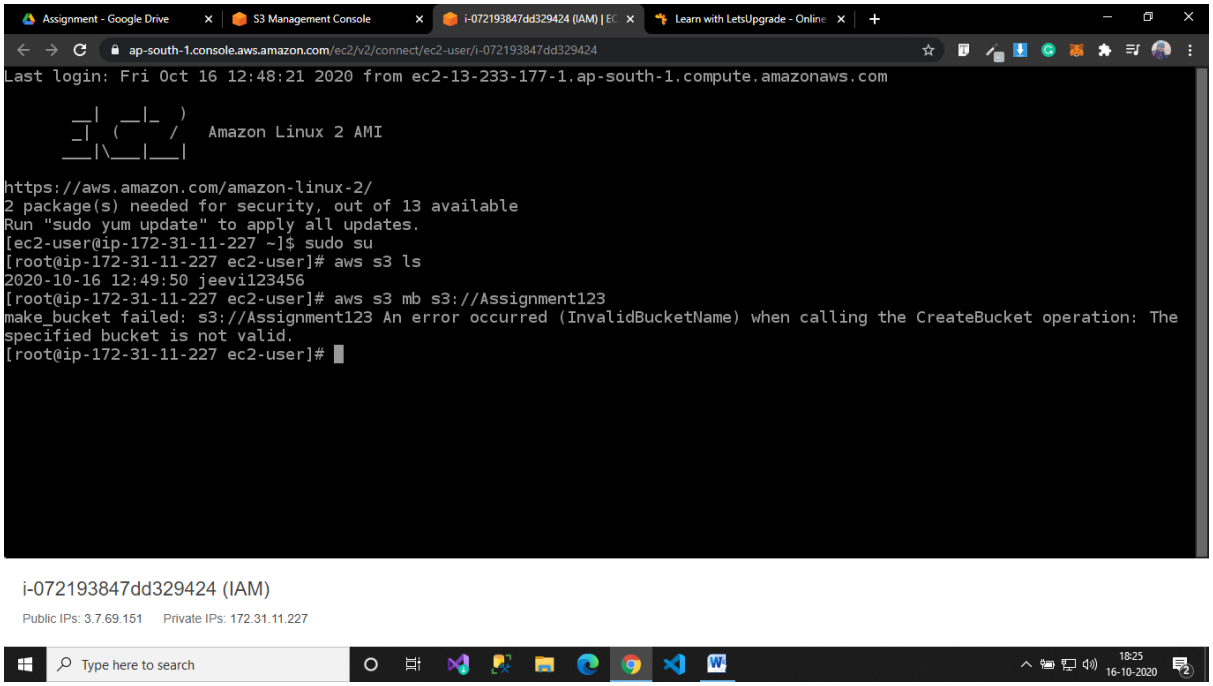
Ss5: Create EC2 instance with S3_full_access (IAM Role).

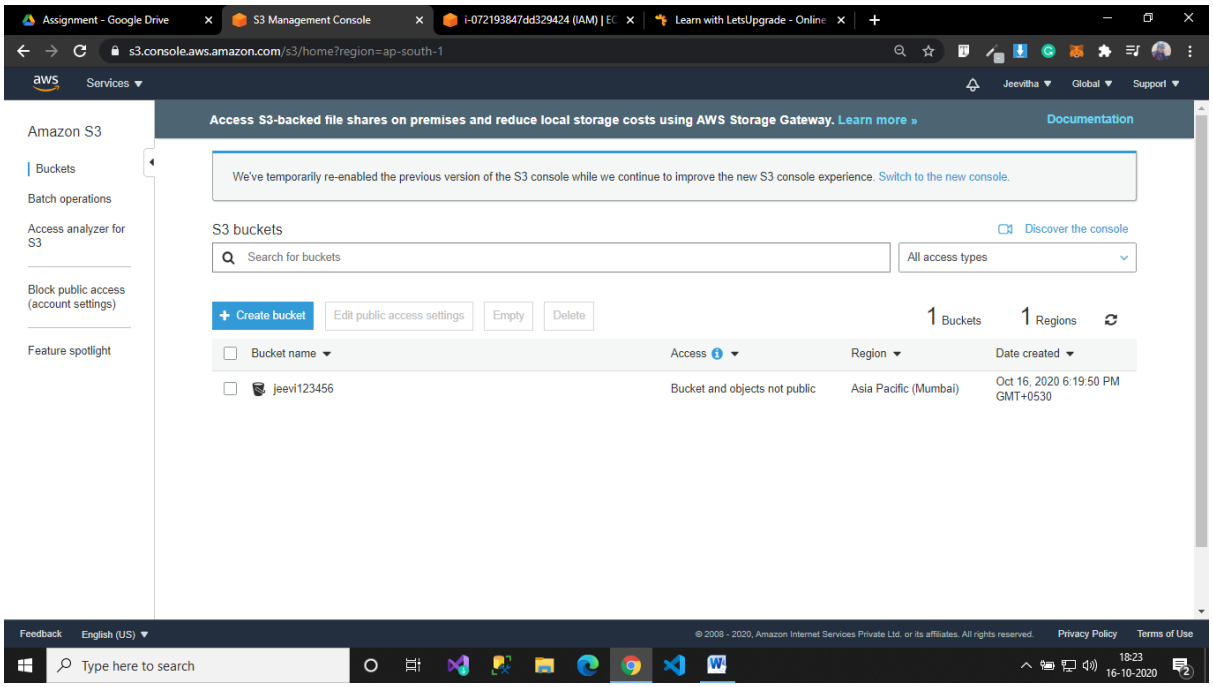


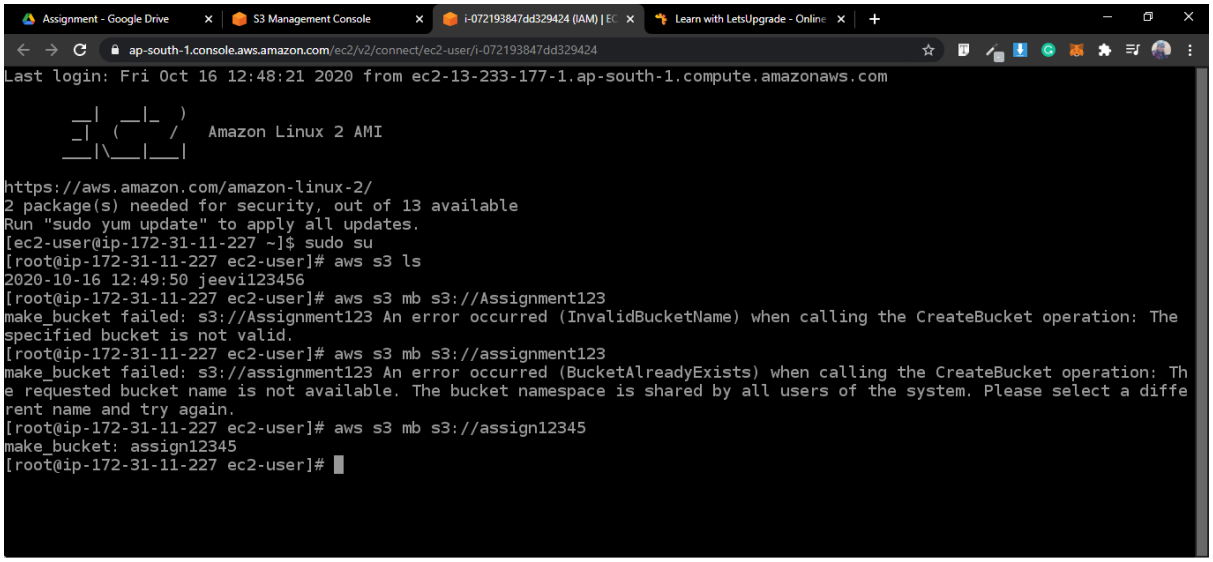
Ss6: list of ec2 instances with description



Ss7: Use commands to create new bucket and lists the bucket.

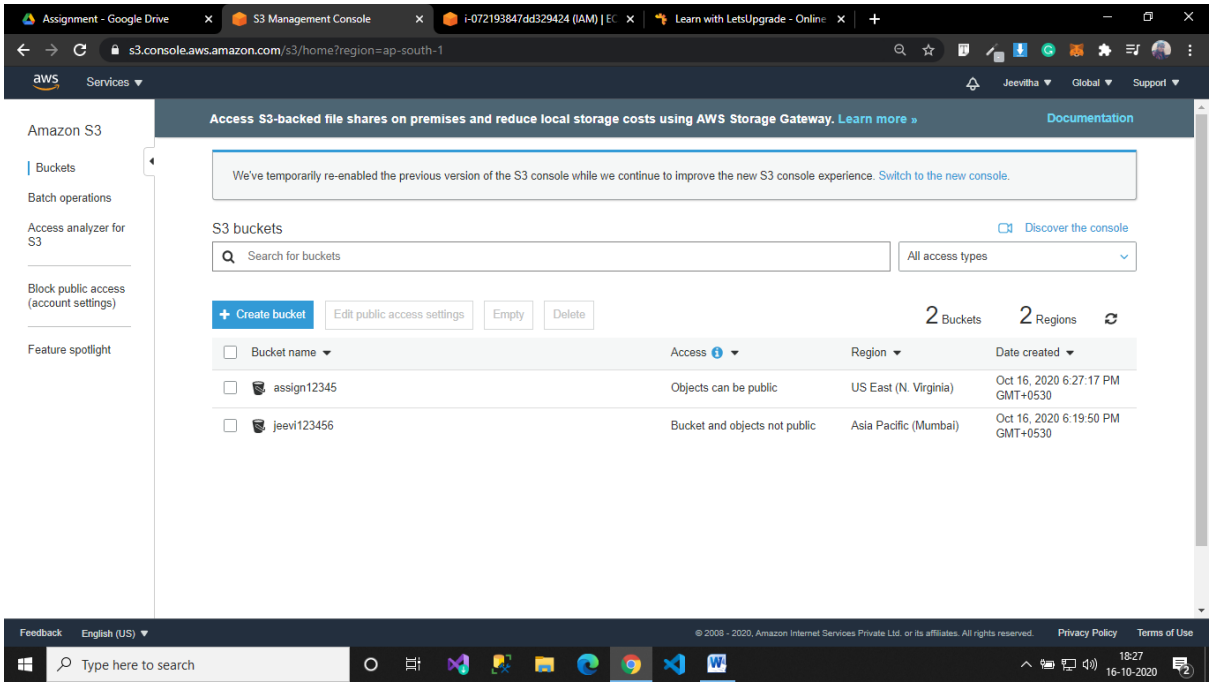




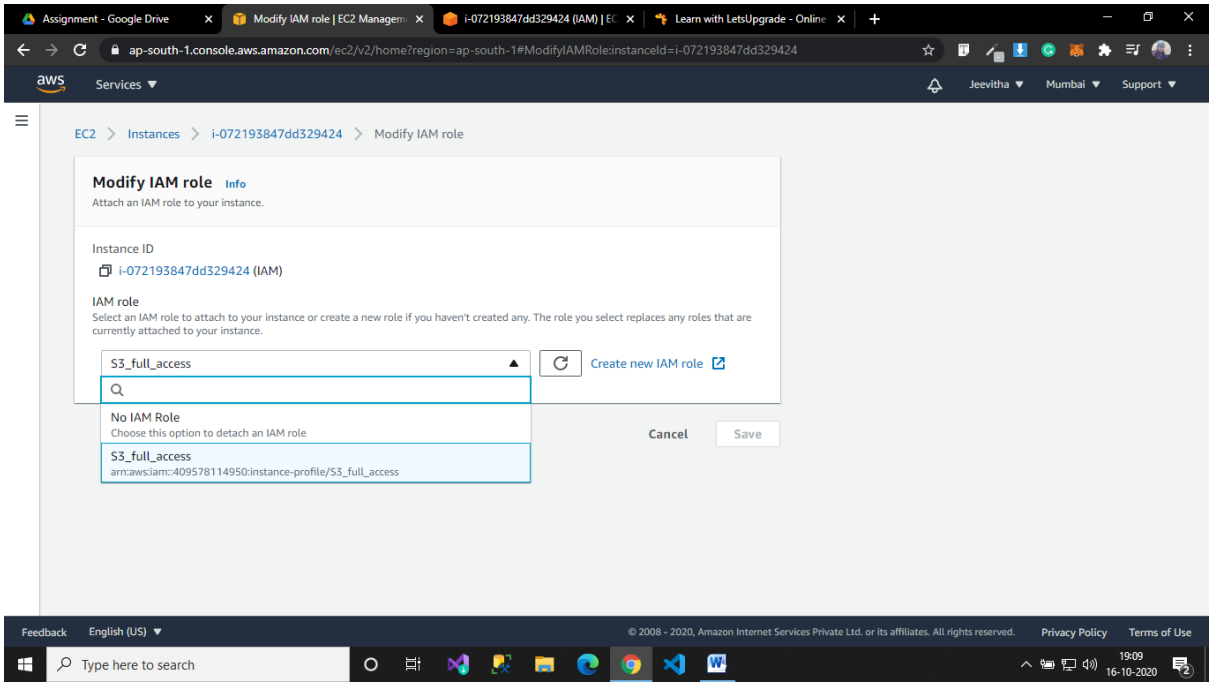


i-072193847dd329424 (IAM)

Public IPs: 3.7.69.151 Private IPs: 172.31.11.227

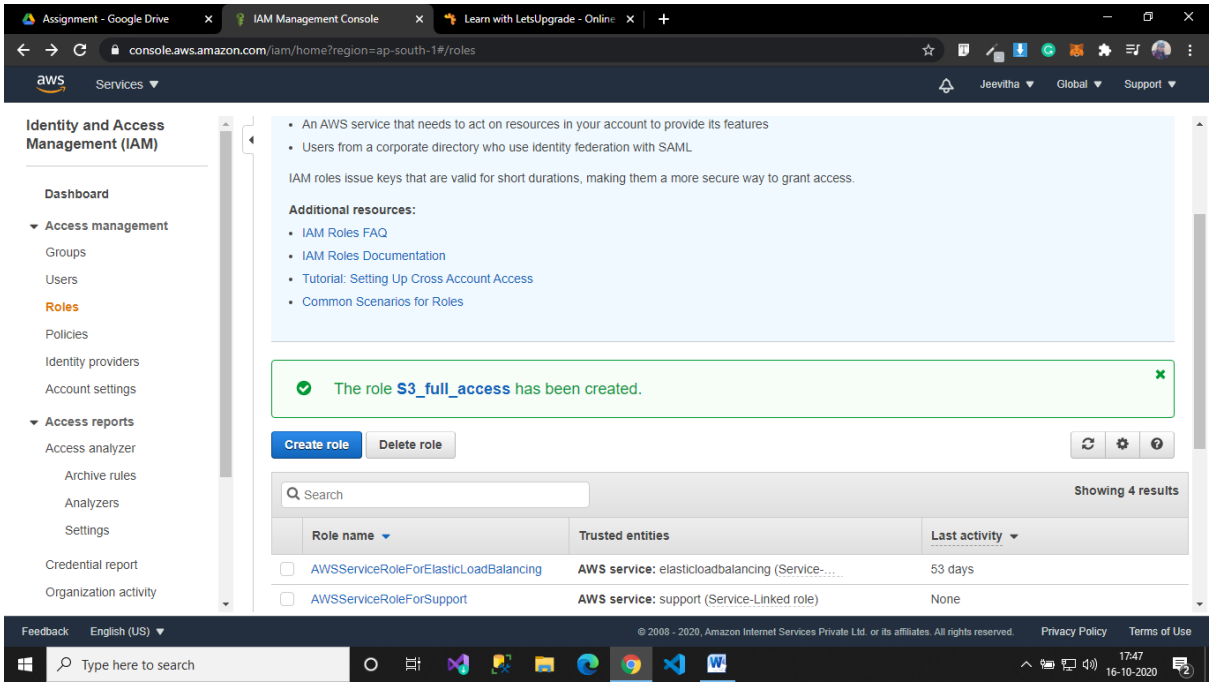


Ss8: Modify the IAM Role.

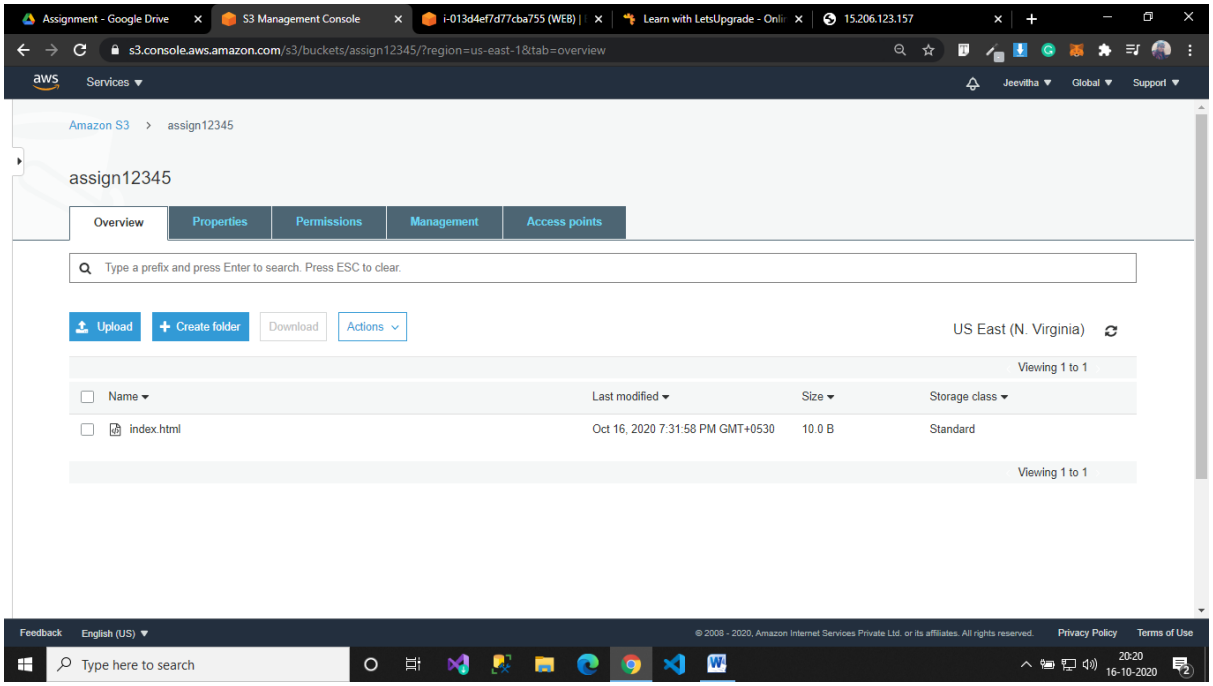


Task 3:Hosting a webpage using the bootstrap script on ec2.

Ss1: Create IAM Role EC2 with S3

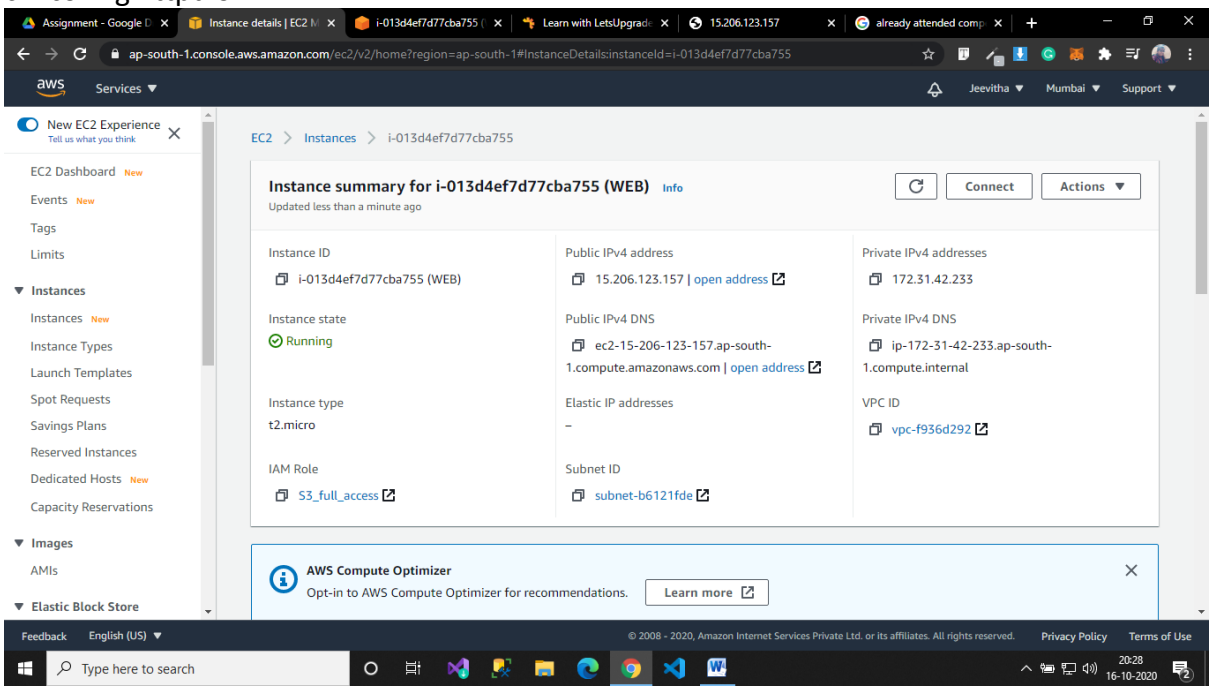


Ss2: Create s3 bucket as assign12345, upload index.html inside the bucket.

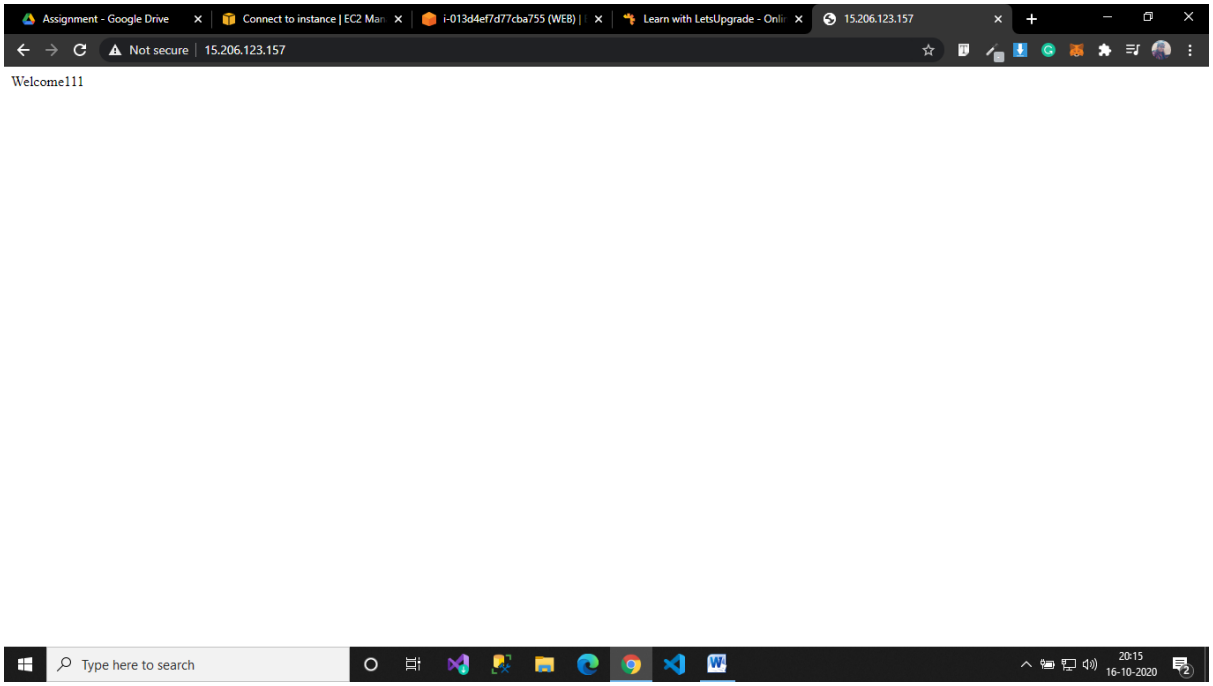


Ss3: Create EC2 instance and add user data with created IAM Role.

```
#!/bin/bash
yum install httpd -y
aws s3 cp s3://assign12345/index.html /var/www/html
service httpd start
chkconfig httpd on
```



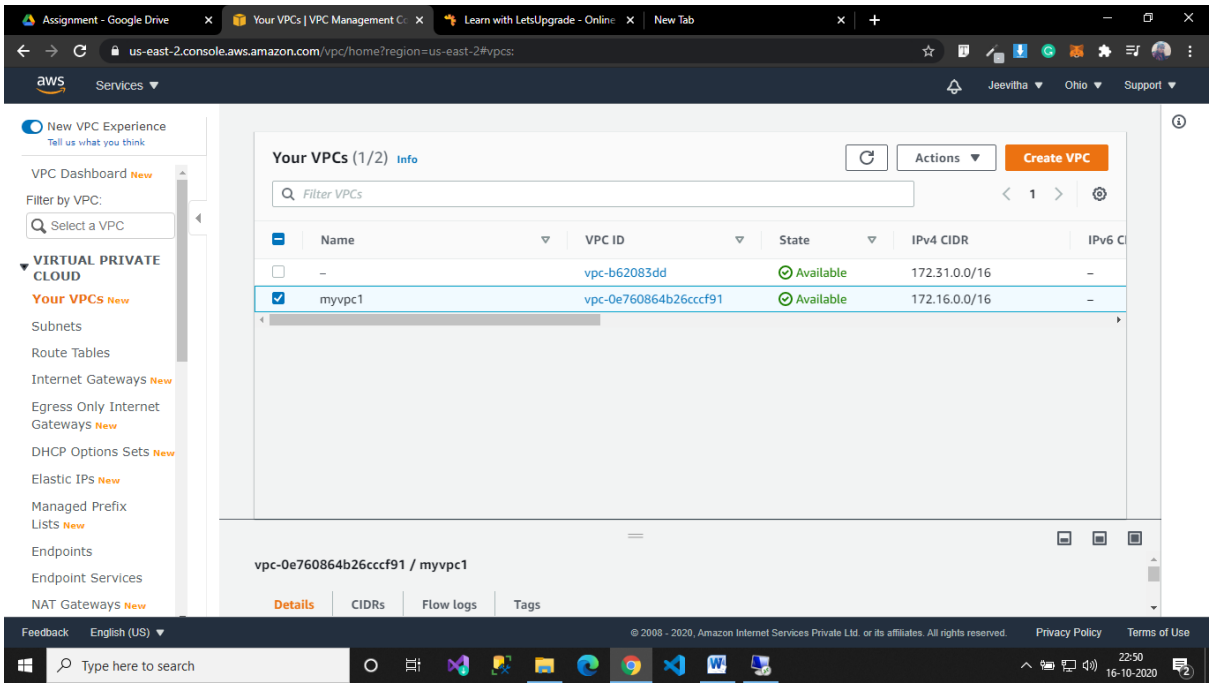
Ss4: Test the page with public ip



PROJECT 2: Creating an EC2 instance in custom VPC

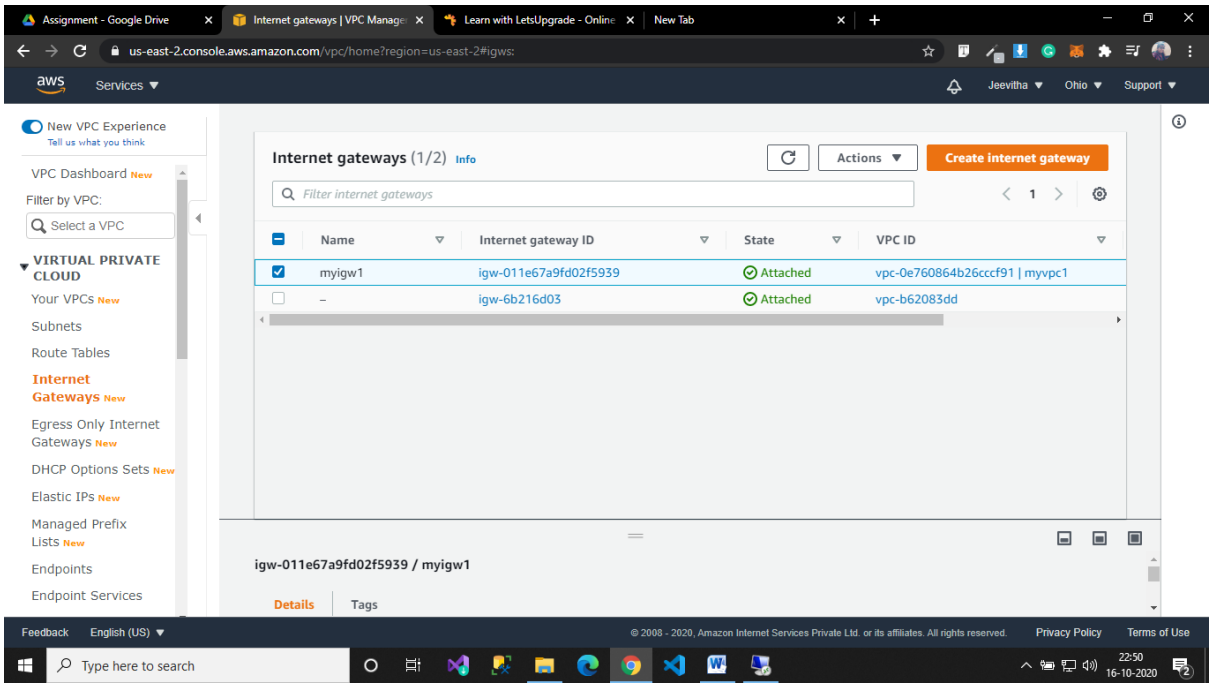
Task1: Create a VPC

Ss1: vpc created



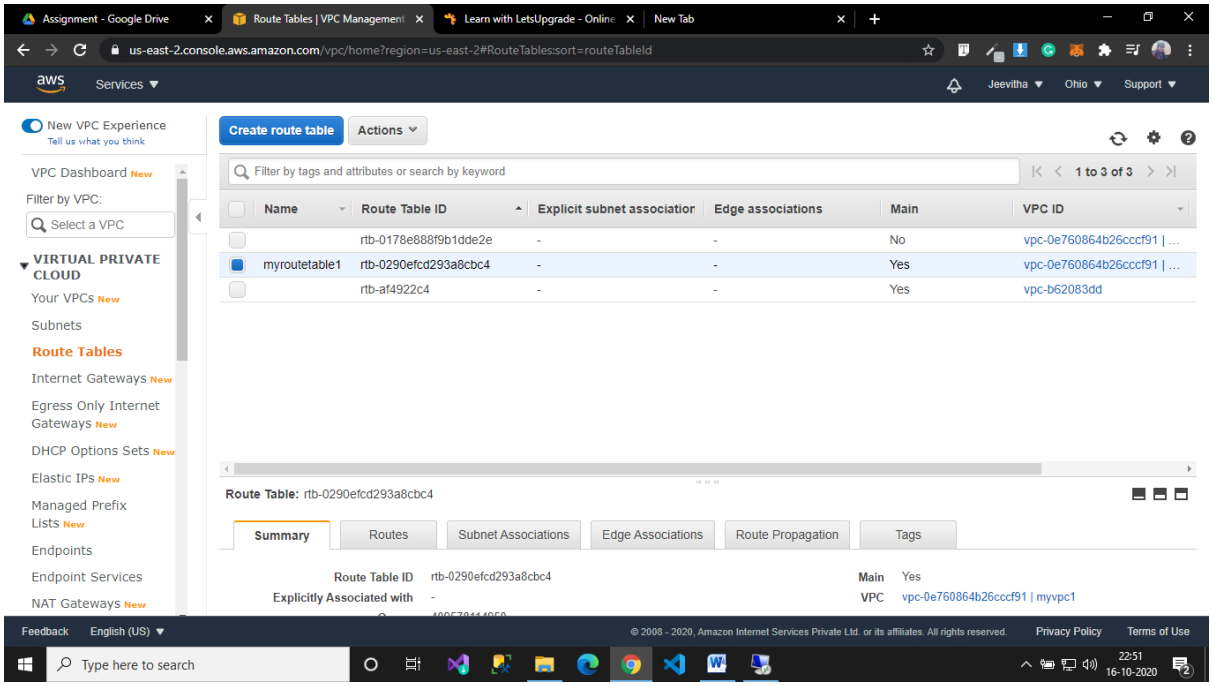
Task 2: Create an Internet gateway

Ss2: igw with vpc associated



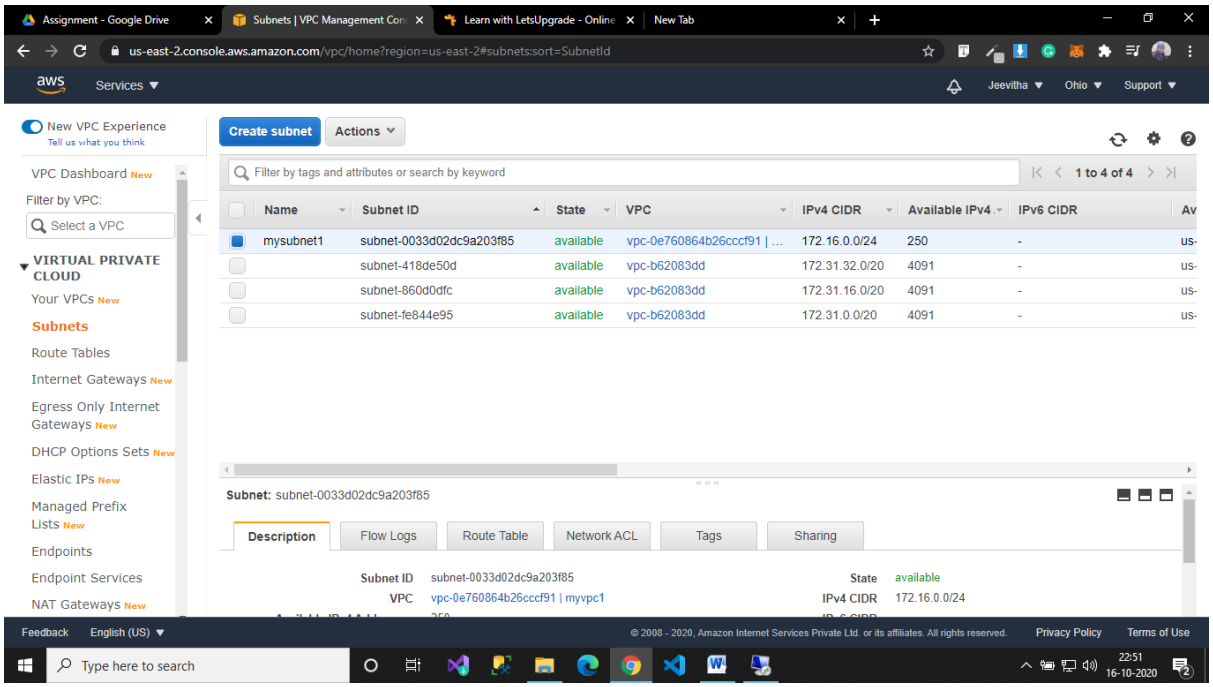
Task3: Create a route table

Ss3: route table with routes



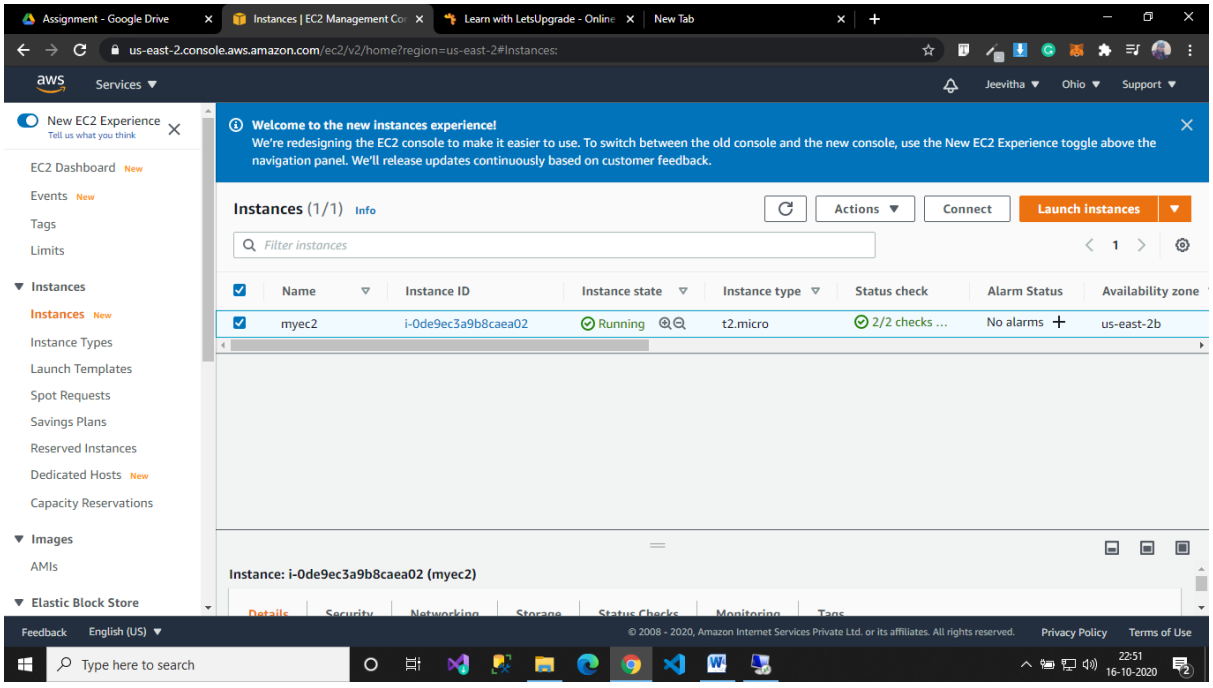
Task4: Create a subnet

Ss4: subnet screen



Task5: Create an EC2 in custom vpc

Ss5: ec2 dashboard



Task 6:Check ipconfig in VM command prompt.

Ss6: cmd prompt:ipconfig