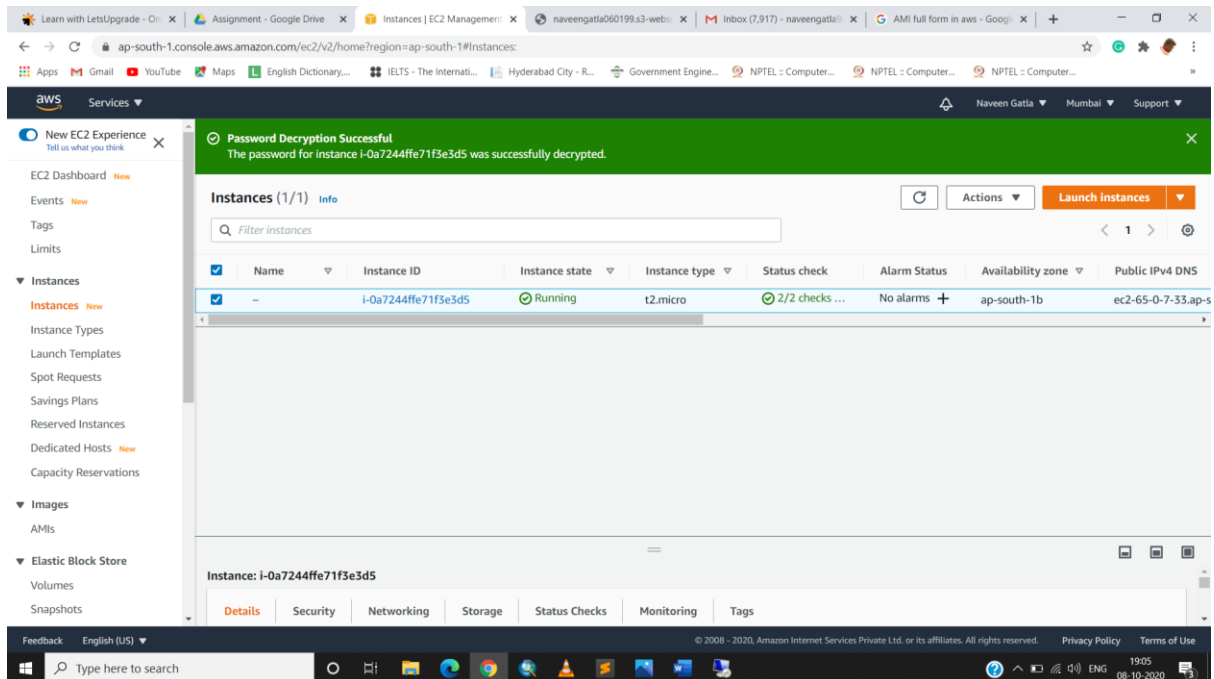


## ASSIGNMENT – DAY 3&4 (03&04 OCT)

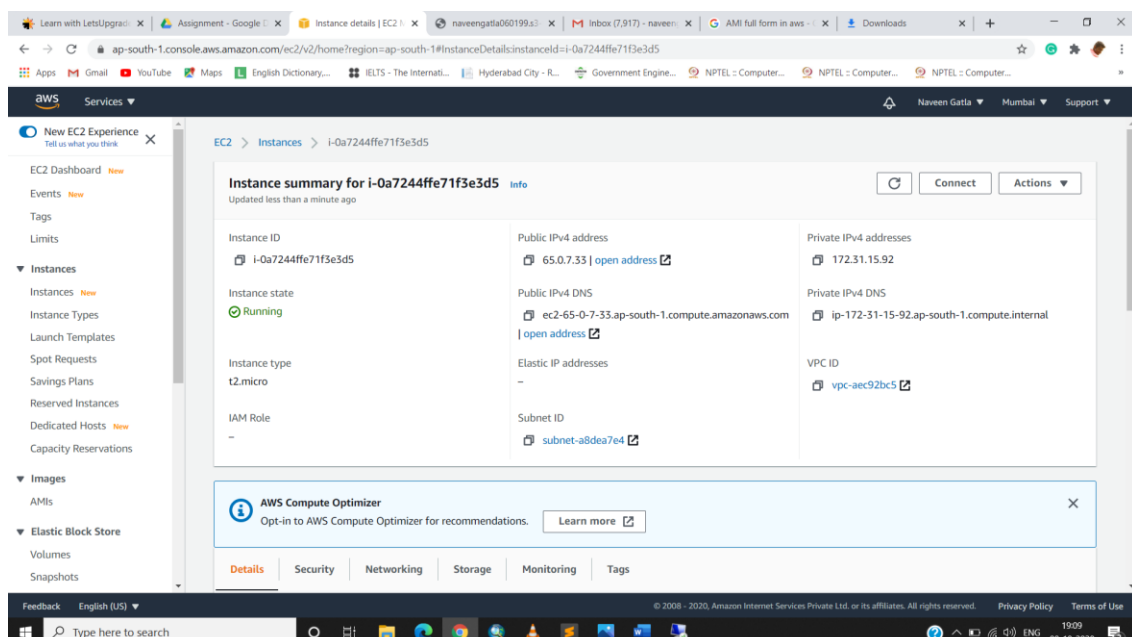
### PROJECT 1:

#### Deploying a web server in Windows instance

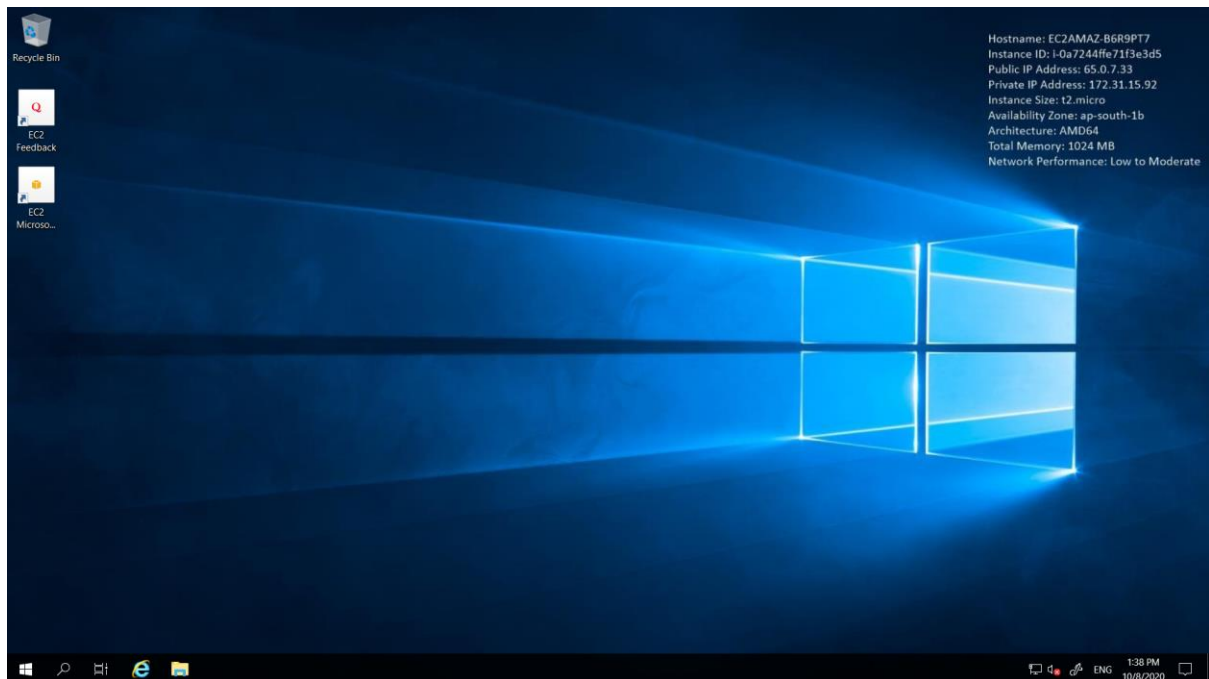
Instance was successfully launched.



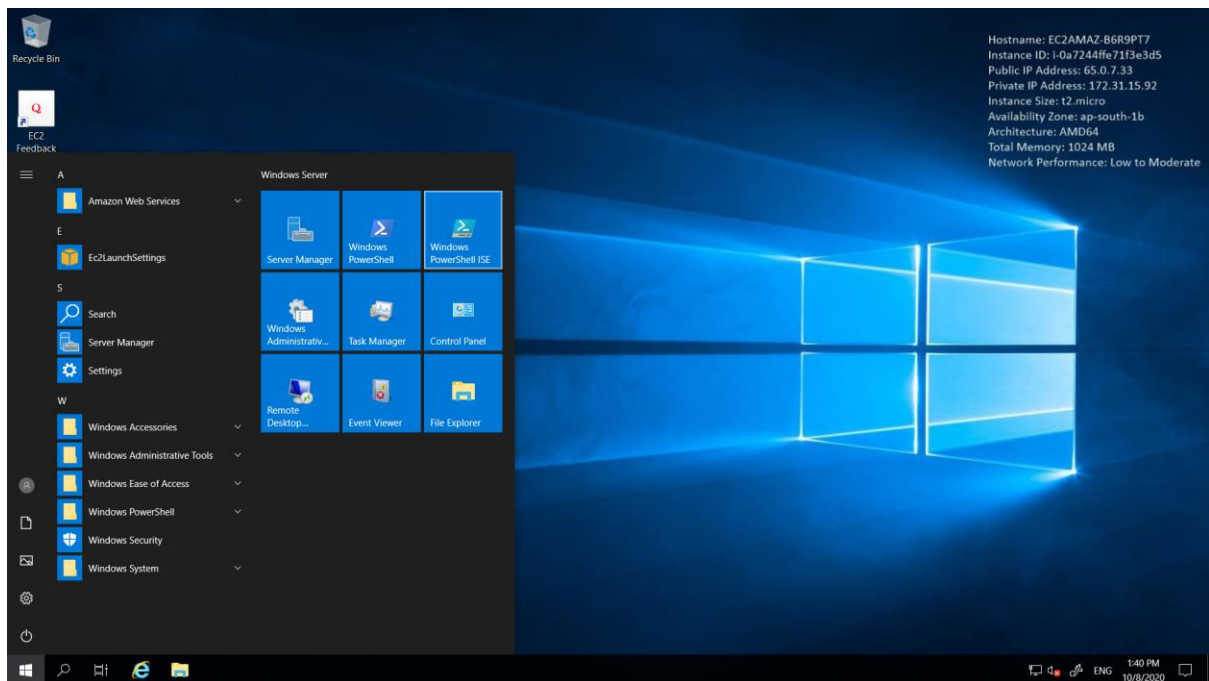
After instance was launched use the .pem file which is downloaded earlier in the last step of launching the instance to decrypt the password and paste in the password section of .rdp file.



Then the windows server lauched successfully.

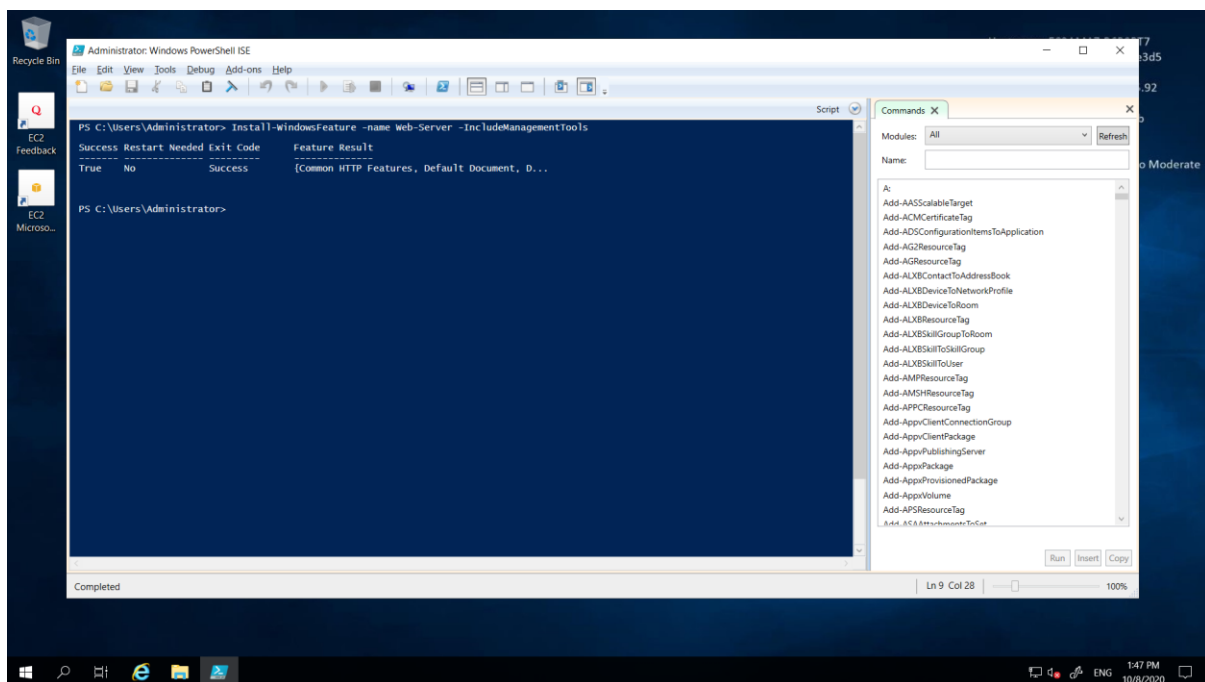
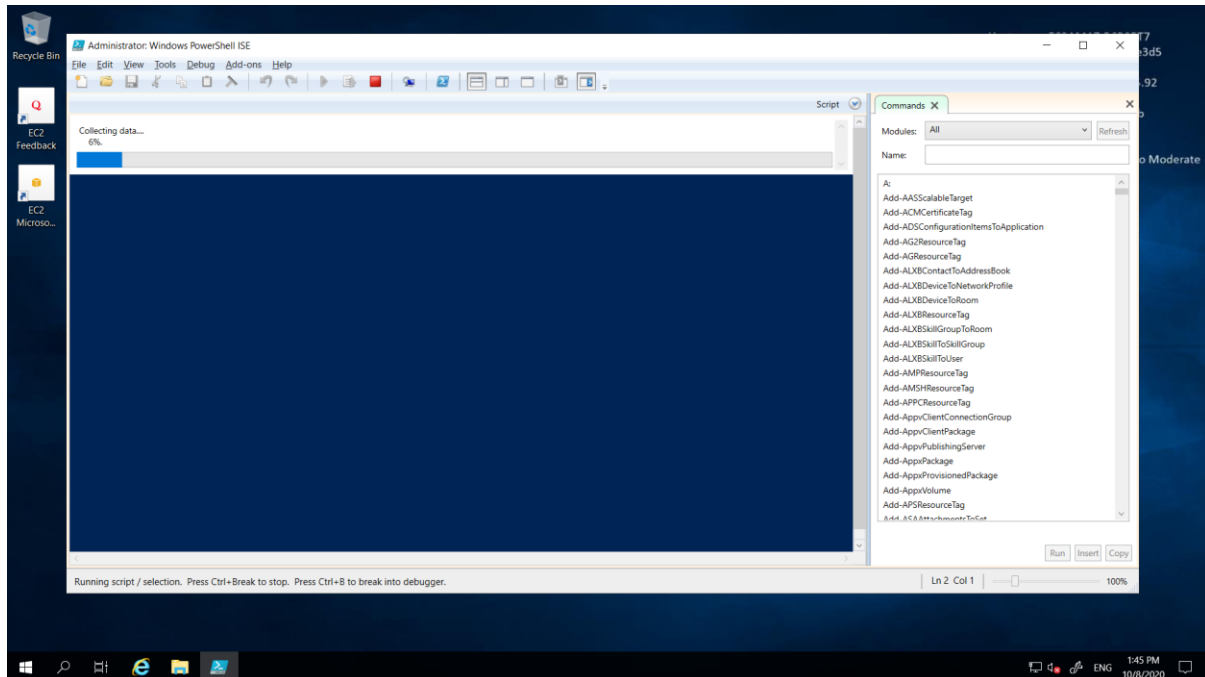


Open WINDOWS POWERSHELL ISE

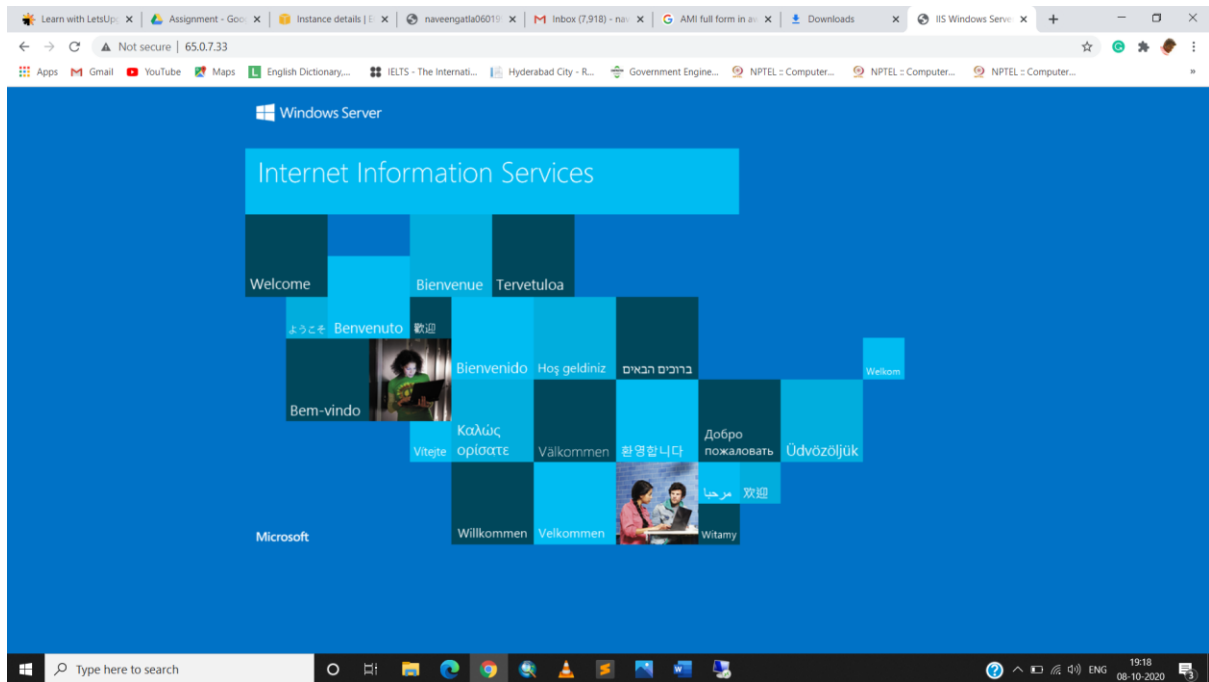


Install IIS web server by the below command

Install-WindowsFeature -name Web-Server -IncludeManagementTools



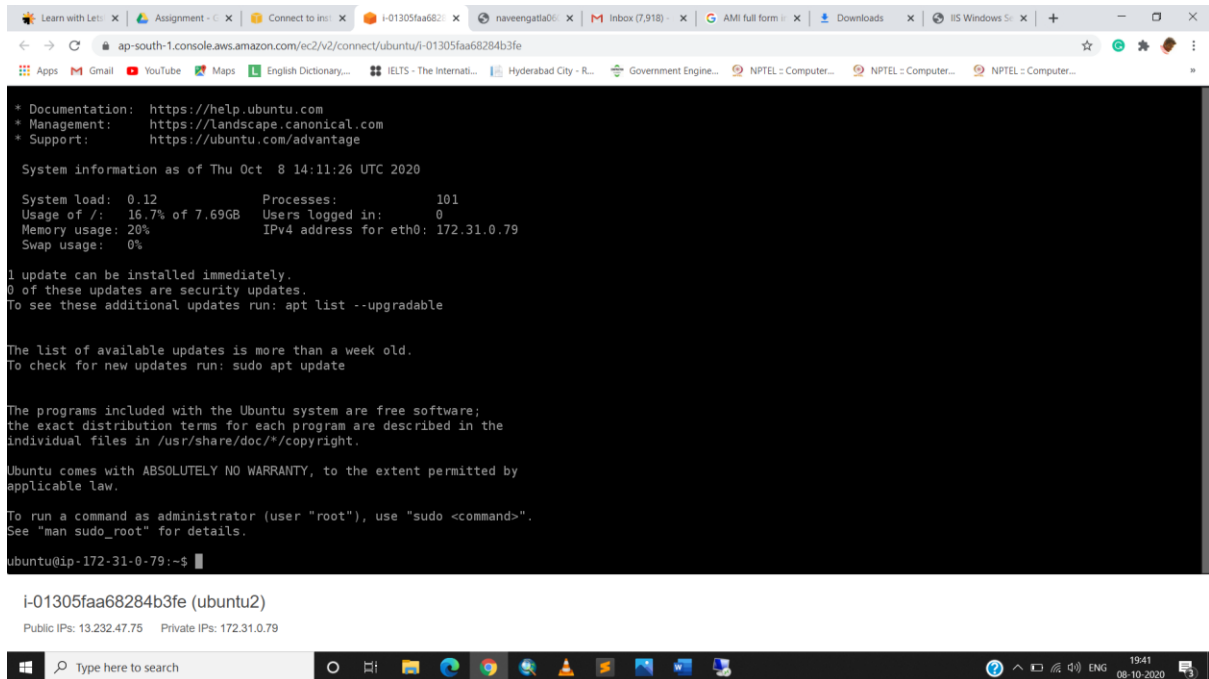
Open the public IP in the browser so that we can see the Internet Information Services Web page as shown below.



## PROJECT 2:

### Deploying a web server in UBUNTU server

#### Lauching the ubuntu server



The screenshot shows a terminal window with the following content:

```
* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Thu Oct 8 14:11:26 UTC 2020

System load: 0.12          Processes:            101
Usage of /:  16.7% of 7.69GB Users logged in:        0
Memory usage: 20%          IPv4 address for eth0: 172.31.0.79
Swap usage:  0%

1 update can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-0-79:~$
```

Below the terminal window, the instance details are shown:

```
i-01305faa68284b3fe (ubuntu2)
Public IPs: 13.232.47.75 Private IPs: 172.31.0.79
```

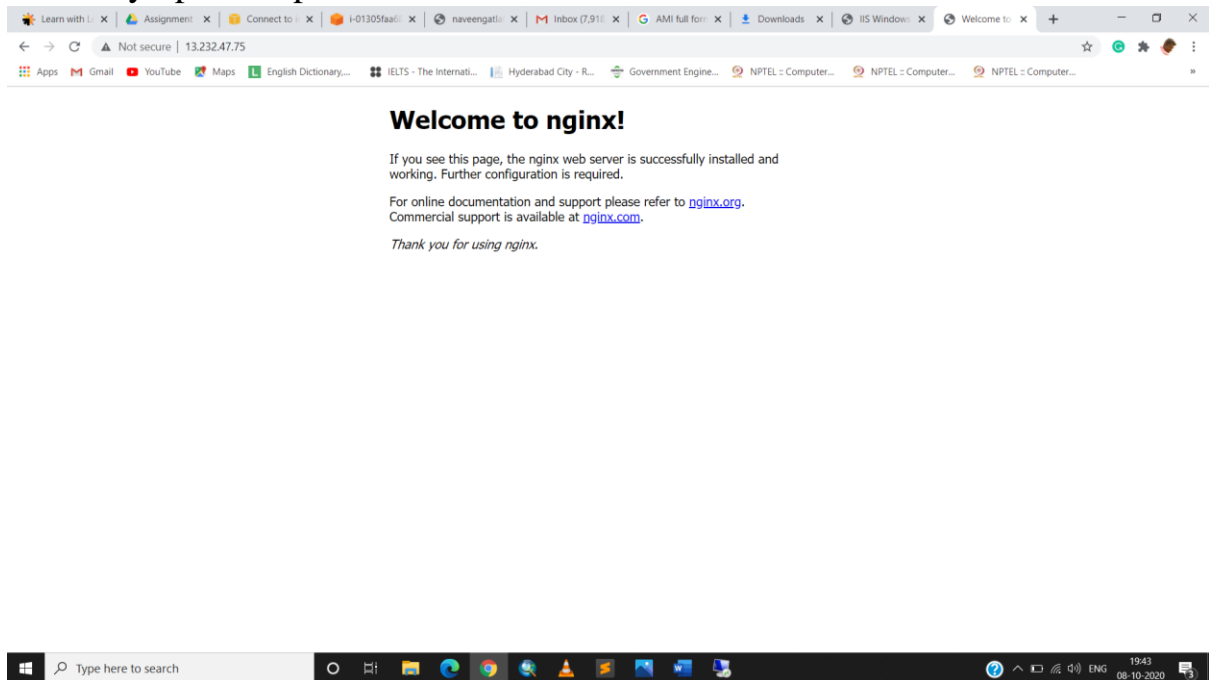
The bottom of the image shows a Windows taskbar with the search bar and several application icons.

#### Install Nginx web server using bash

`sudo apt-get -y update`

`sudo apt-get -y install nginx`

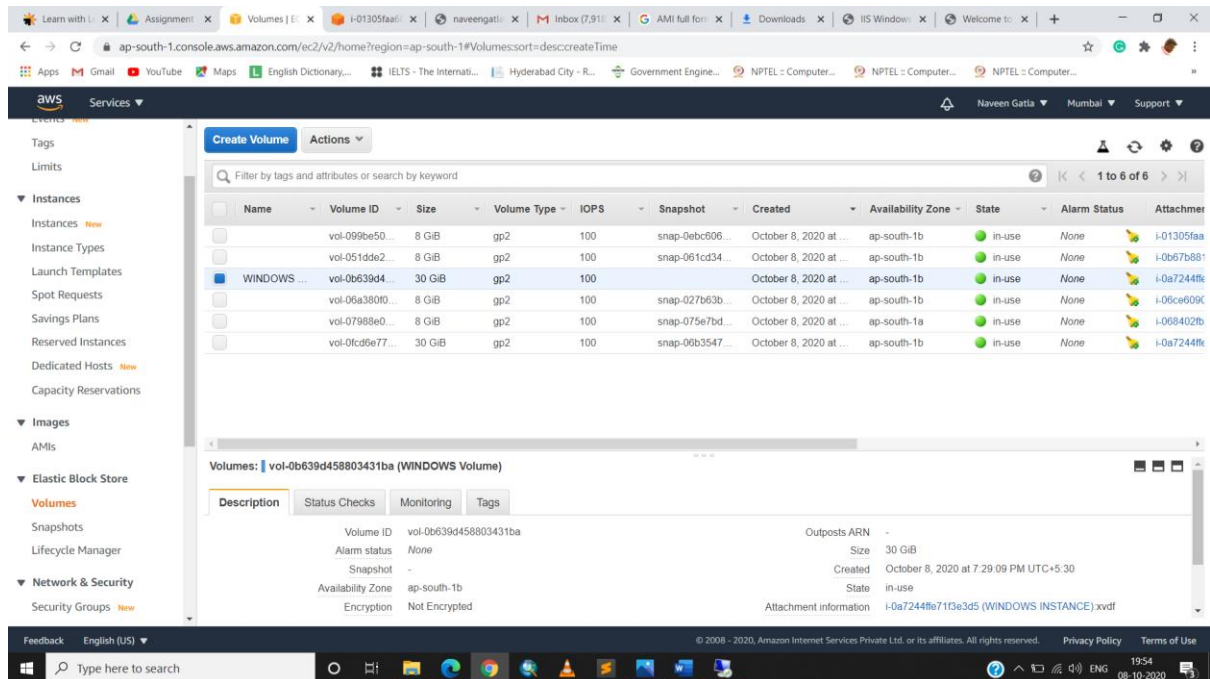
## To verify open the public IP address in the browser



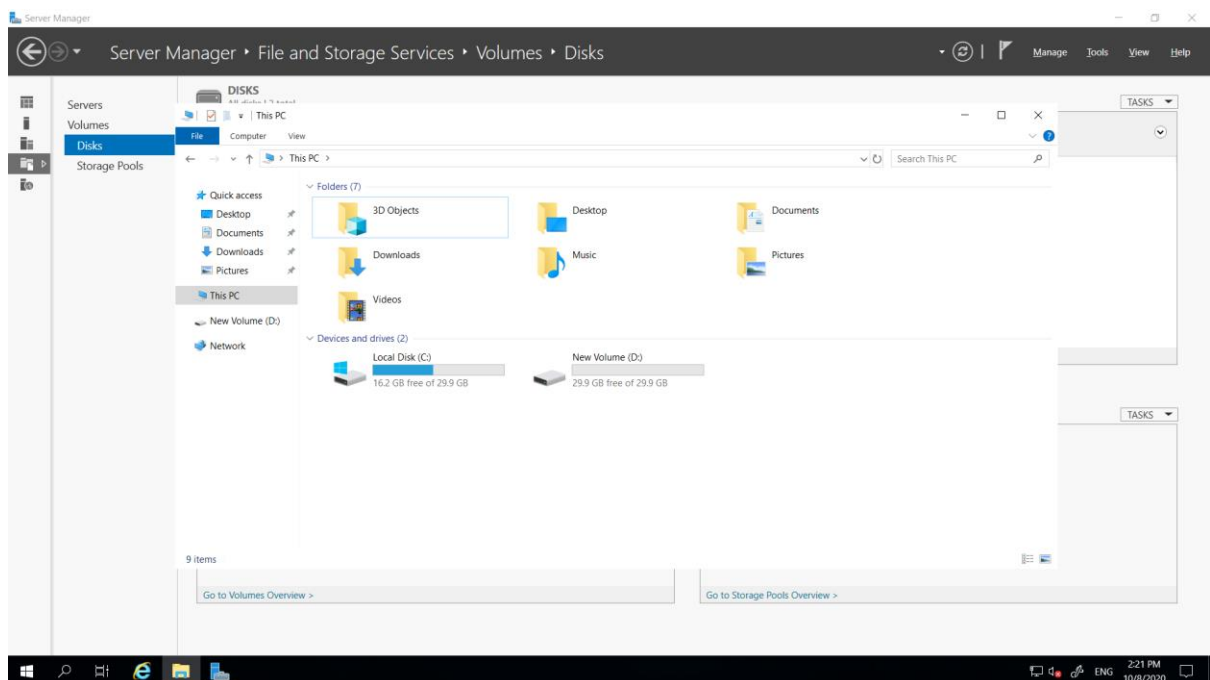
## PROJECT 3:

### Working with volumes

The selected volume in the below image is the new volume which has been created.



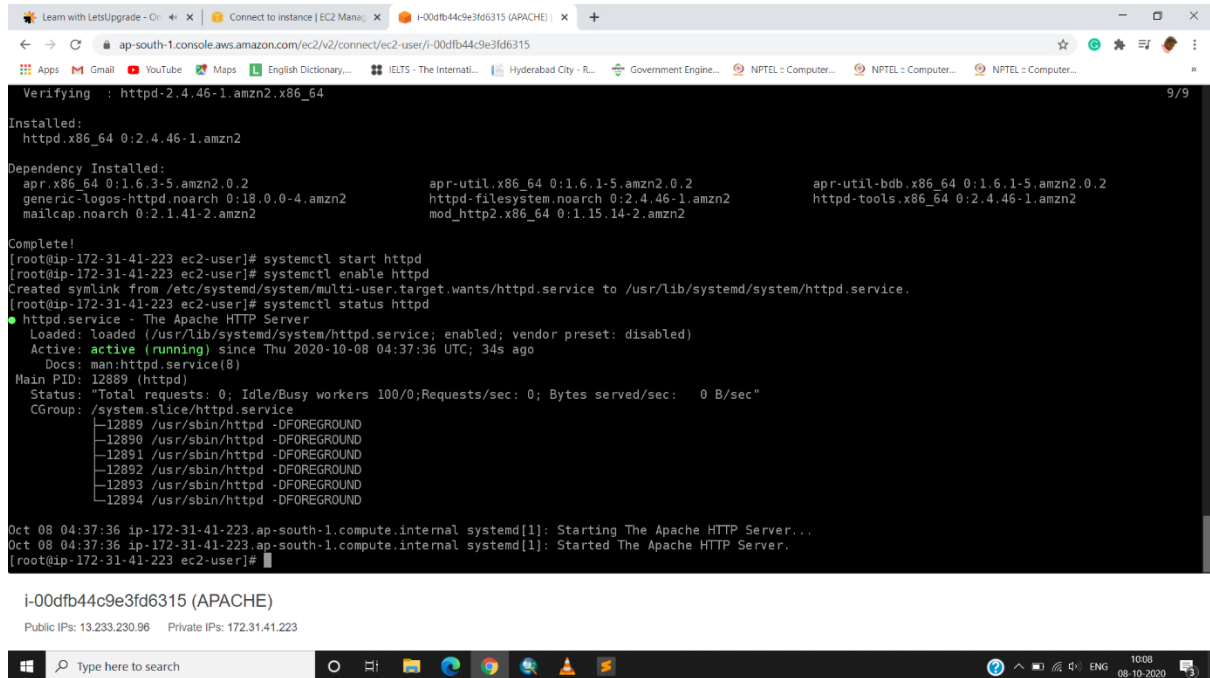
The New Volume (D) which is shown below is the new volume which is attached to the windows instance.



## PROJECT 4:

### Working with Elastic IP's

#### Apache server successfully installed



```

Verifying : httpd-2.4.46-1.amzn2.x86_64
Installed:
httpd.x86_64 0:2.4.46-1.amzn2

Dependency Installed:
apr.x86_64 0:1.6.3-5.amzn2.0.2          apr-util.x86_64 0:1.6.1-5.amzn2.0.2          apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
generic-logos-httpd.noarch 0:18.0.0-4.amzn2      httpdfilesystem.noarch 0:2.4.46-1.amzn2          httpd-tools.x86_64 0:2.4.46-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2                mod_http2.x86_64 0:1.15.14-2.amzn2

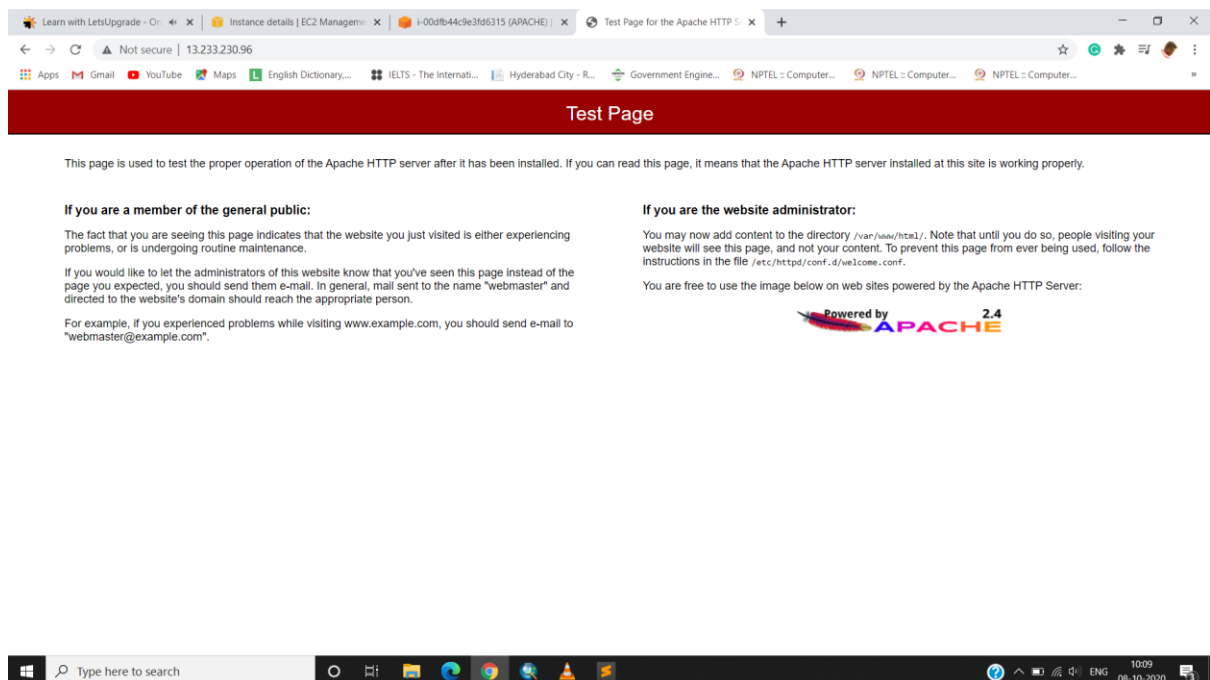
Complete!
[root@ip-172-31-41-223 ec2-user]# systemctl start httpd
[root@ip-172-31-41-223 ec2-user]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-41-223 ec2-user]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2020-10-08 04:37:36 UTC; 34s ago
     Docs: man:httpd.service(8)
   Main PID: 12889 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
   CGroup: /system.slice/httpd.service
           └─12889 /usr/sbin/httpd -DFOREGROUND
             └─12890 /usr/sbin/httpd -DFOREGROUND
               └─12891 /usr/sbin/httpd -DFOREGROUND
                 └─12892 /usr/sbin/httpd -DFOREGROUND
                   └─12893 /usr/sbin/httpd -DFOREGROUND
                     └─12894 /usr/sbin/httpd -DFOREGROUND

Oct 08 04:37:36 ip-172-31-41-223 ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 08 04:37:36 ip-172-31-41-223 ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-41-223 ec2-user]#
  
```

I-00dfb44c9e3fd6315 (APACHE)

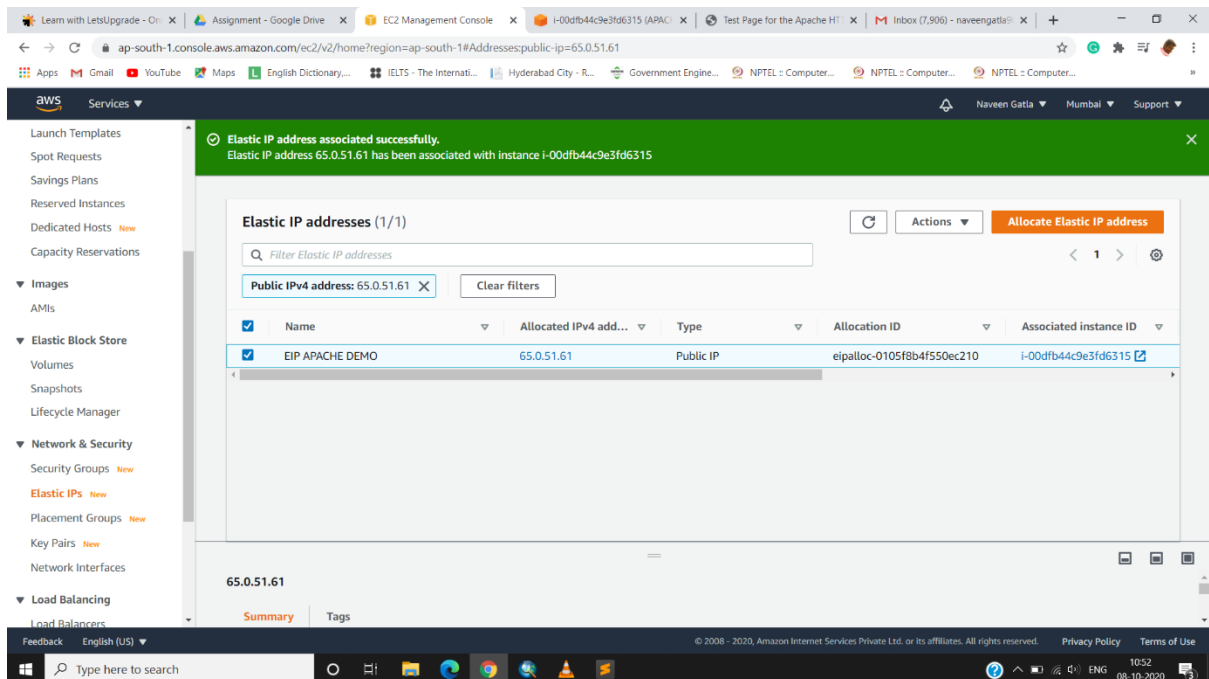
Public IPs: 13.233.230.96 Private IPs: 172.31.41.223

#### Before the Elastic IP Associated

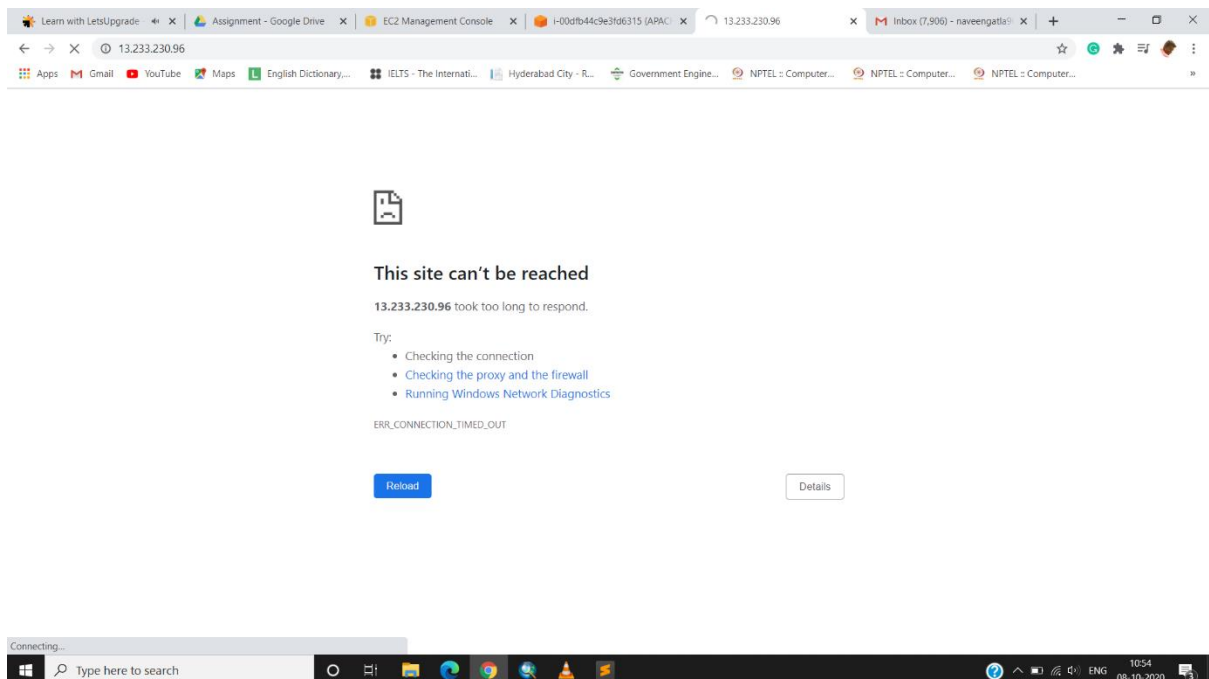




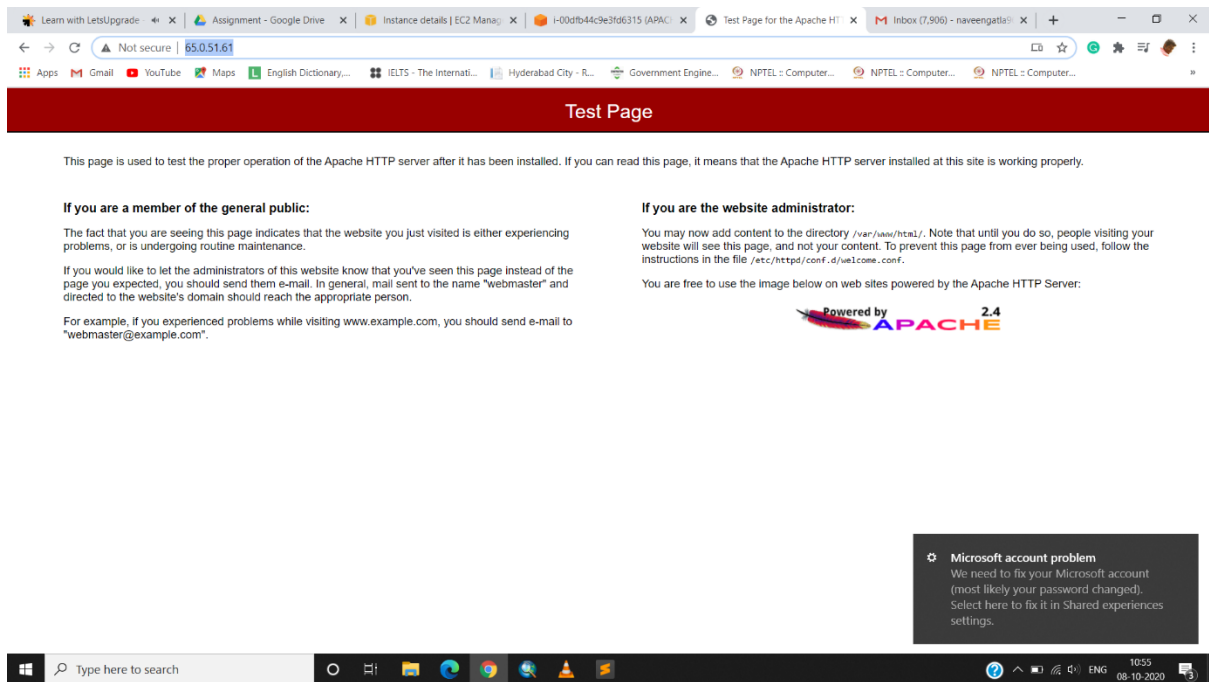
Now the elastic IP allocated and associated with the above apache server or linux machine



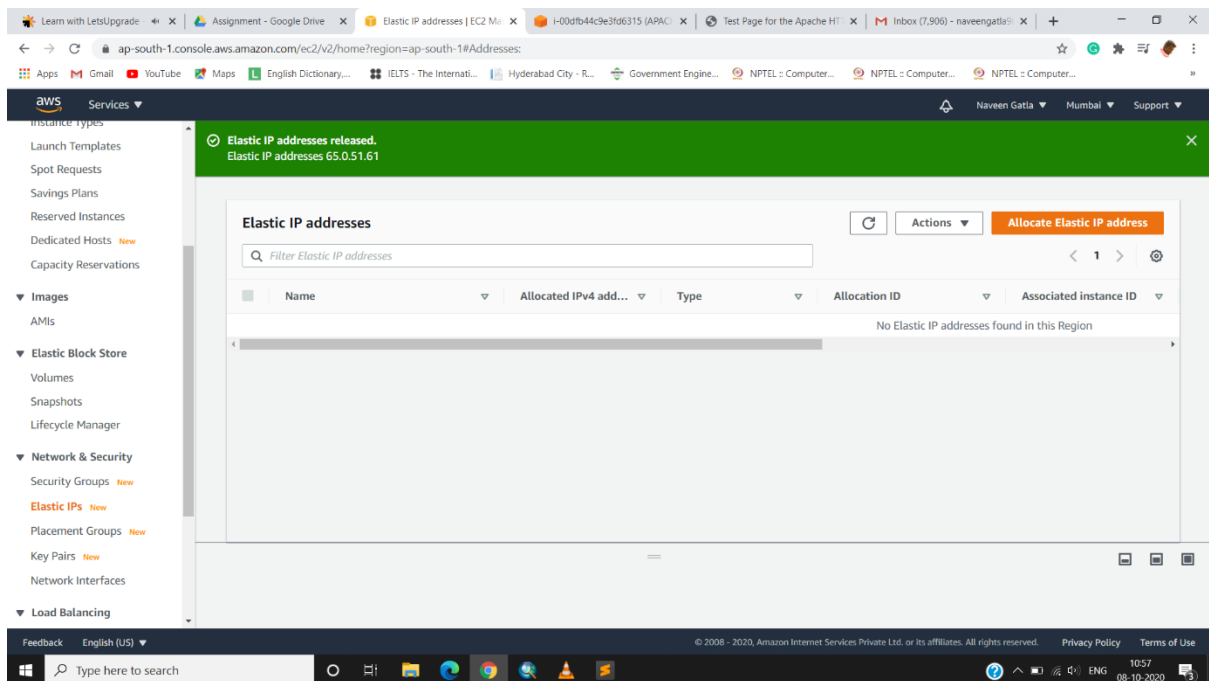
Now the old IP address don't show as previous



The below highlighted address is the new elastic IP address

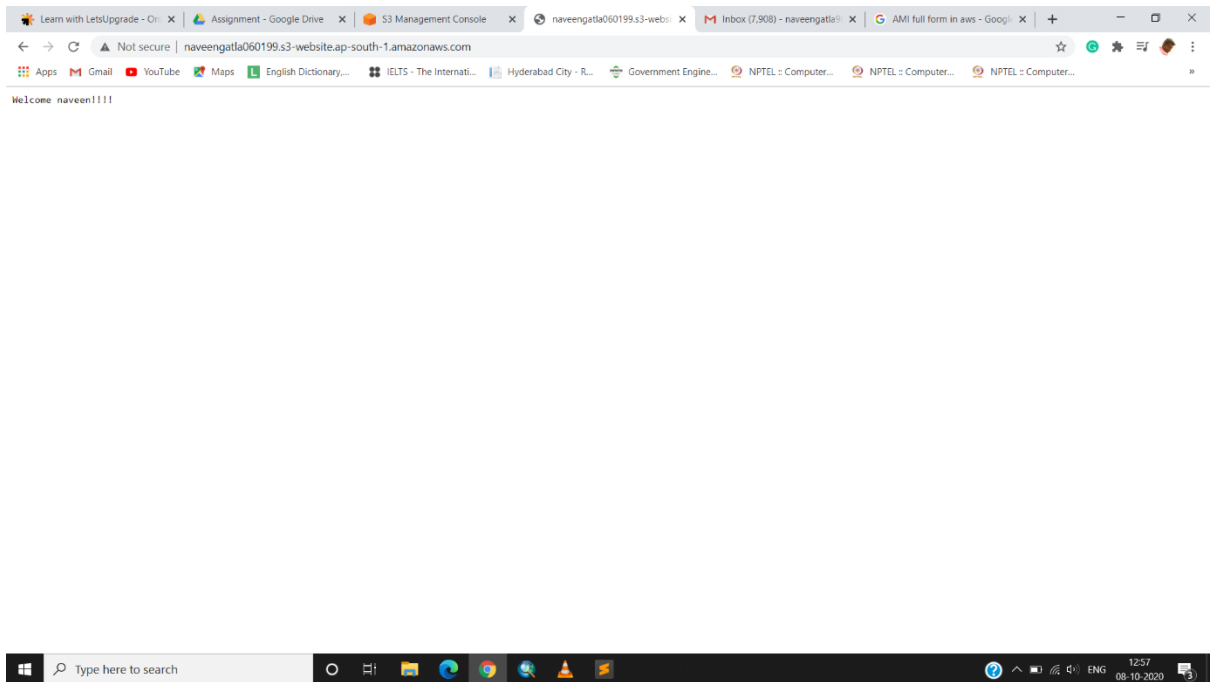


The below image is when the elastic IP disassociated and deleted

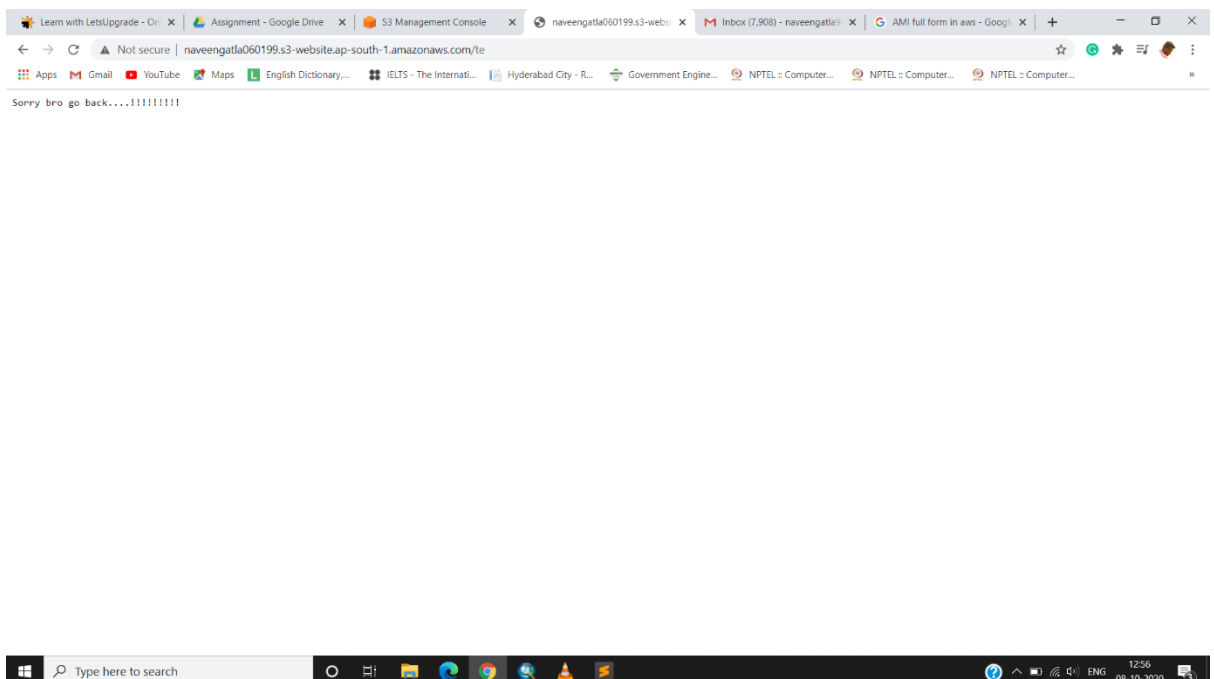




index.txt after it made public

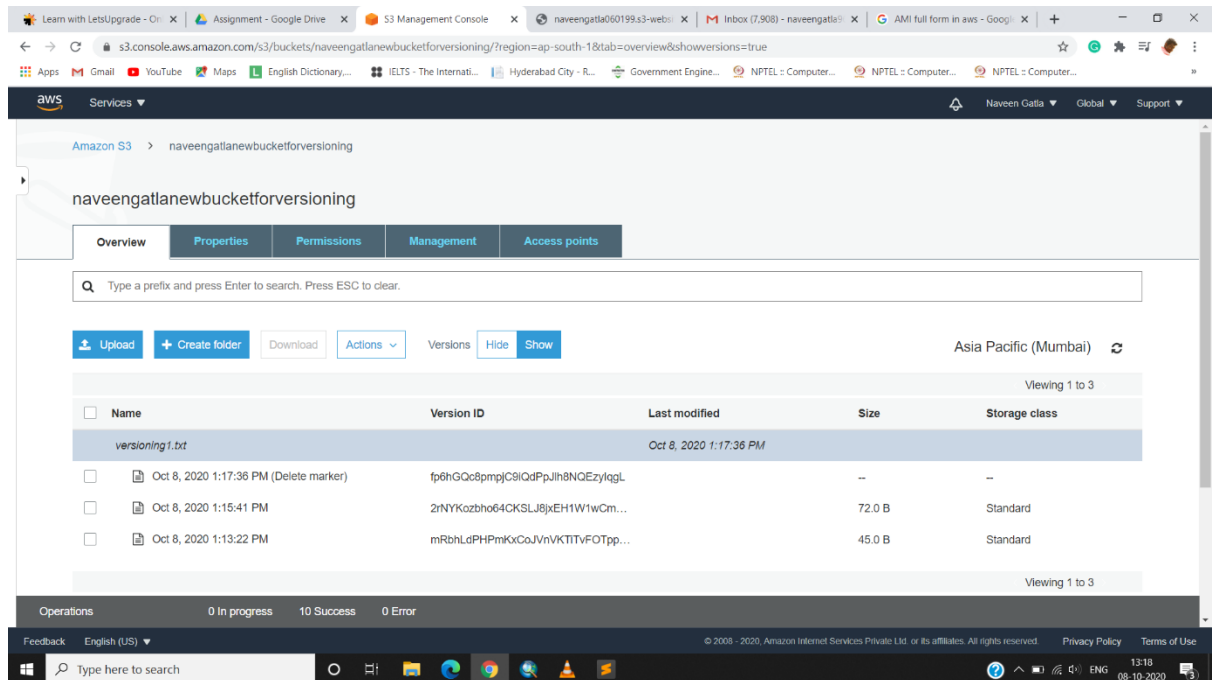


Made a change after the IP then it shows the error.txt

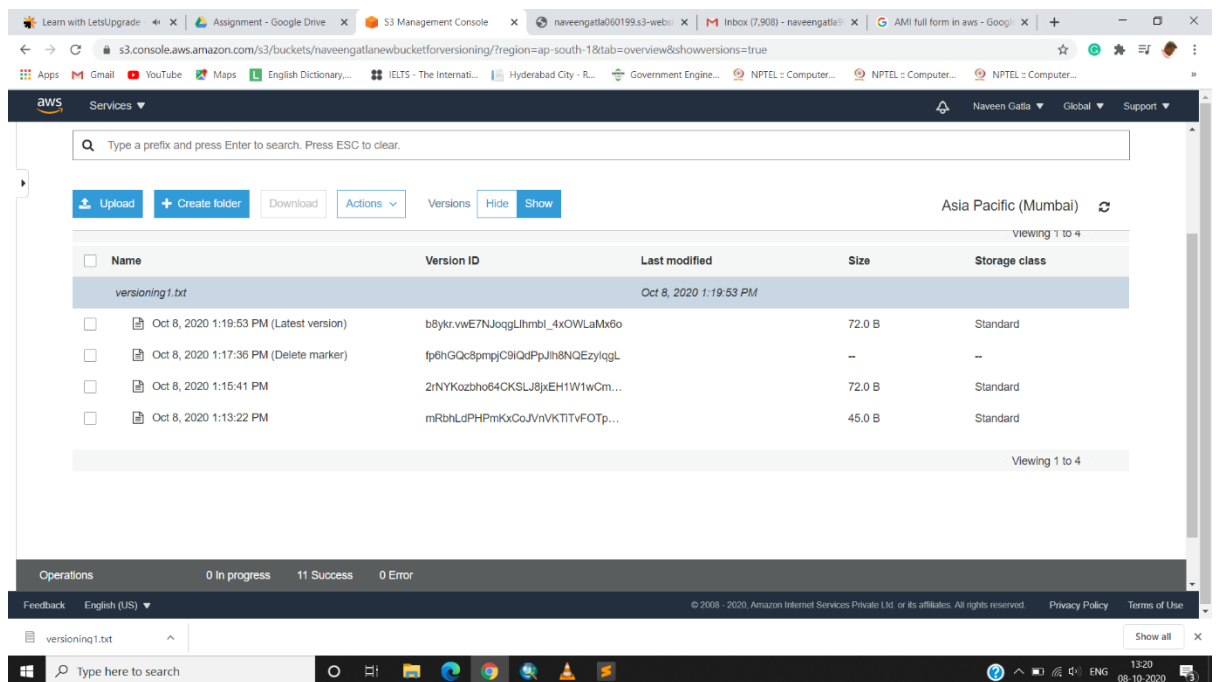


## C. Versioning

The below image is taken after the previous versioning file updated and later deleted.



The below image is taken after the deleted versioning file again uploaded.



**QUESTION 1:**

Explain life cycle effects on instances: Stop, start, reboot, terminate - public IP, Private Ip, Applications installed.

	PUBLIC IP	PRIVATE IP	APPLICATIONS INSTALLED	OTHER EFFECTS
STOP	Shows null & if we open the IP address which is previously copied will shows “the site can’t be reached”	Remains same	Can’t open the windows instance, as it was stopped, to see the applications.	The window in which the instance was running will be closed, and should connect again to open the windows instance.
START	Changes- New IP created and the old IP disappears	Remains same	Installed applications Remains same as before	2/2 status check will takes place again.
REBOOT	Remains same	Remains same	Installed applications Remains same as before	The window in which the instance was running will be closed, and should connect again to open the windows instance. 2/2 status check will takes place again.
TERMINATE	IP address will be lost. If we open the address it shows “the site can’t be reached”	IP address will be lost as the instance terminated.	Applications will be lost as the instance terminated.	The window in which the instance was running will be closed, even the instance terminated the EBS volumes which are associated to the

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				instance will be there and later it can associated to other running instance but the root storage will be lost.
--	--	--	--	---