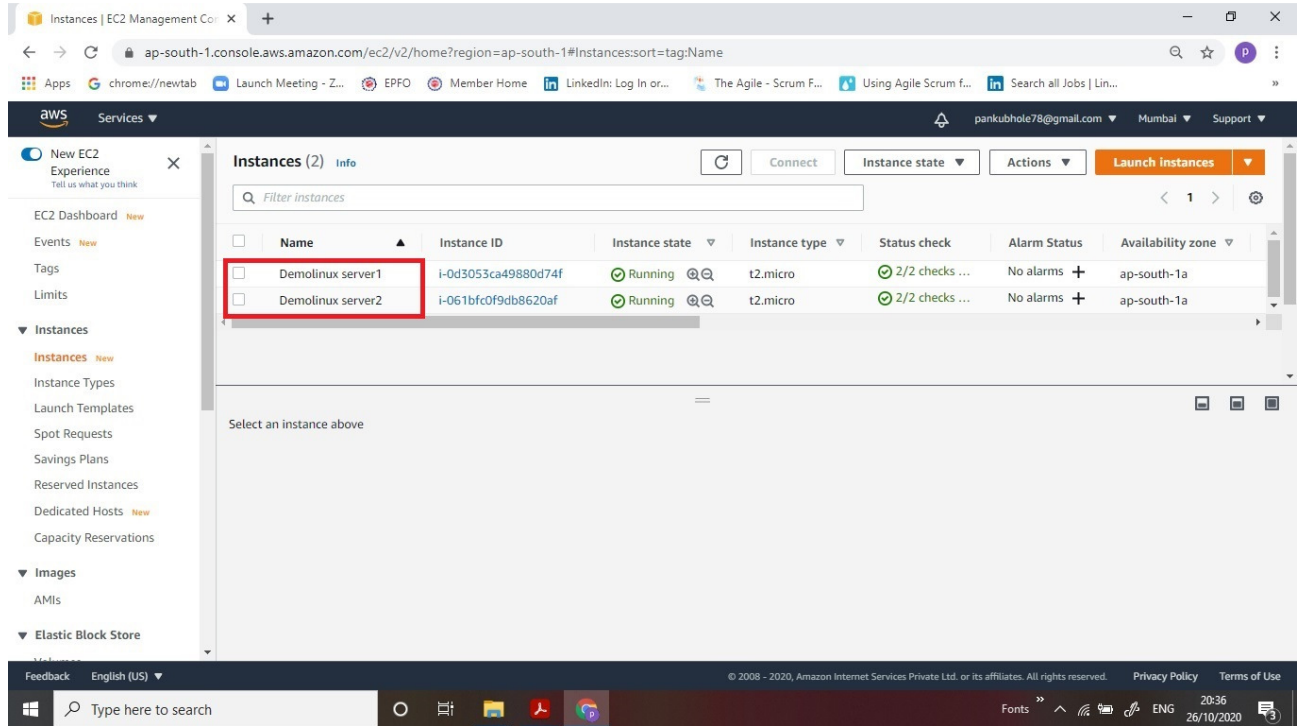


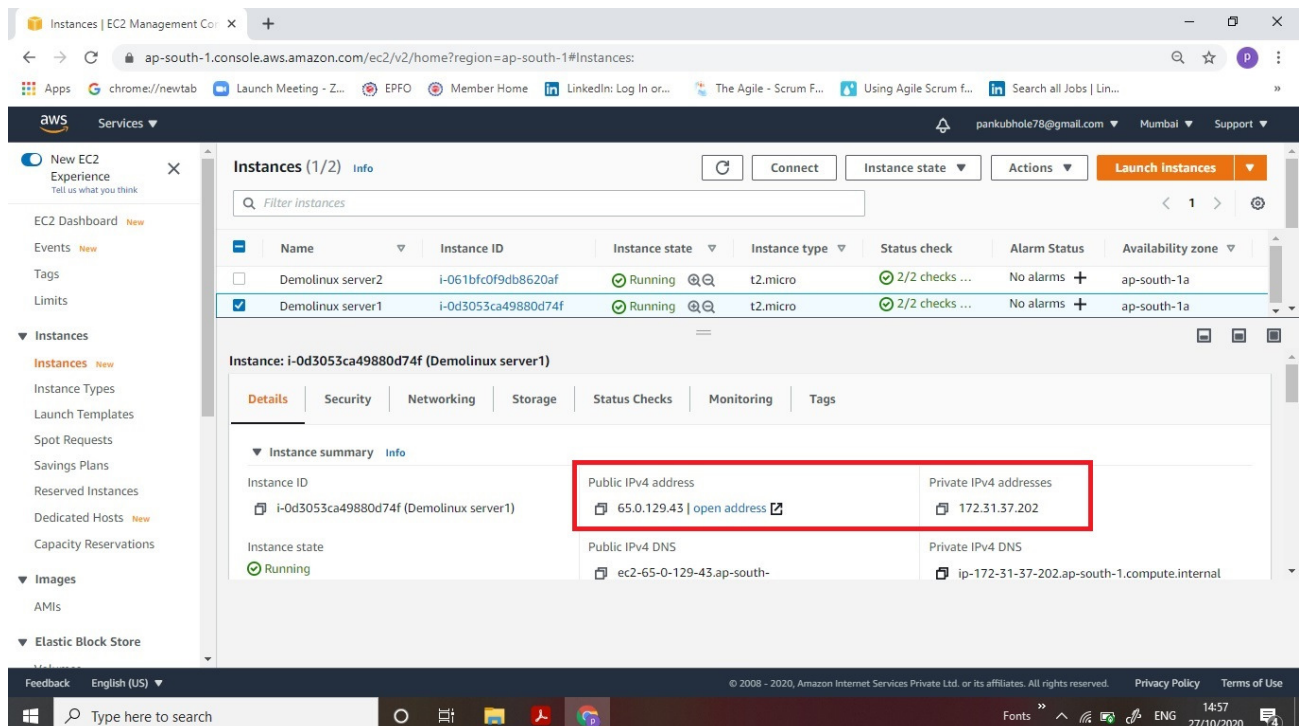
# Project 3: Load Balancing

Step1: Create two Linux instances, Use the first free Linux AMI.

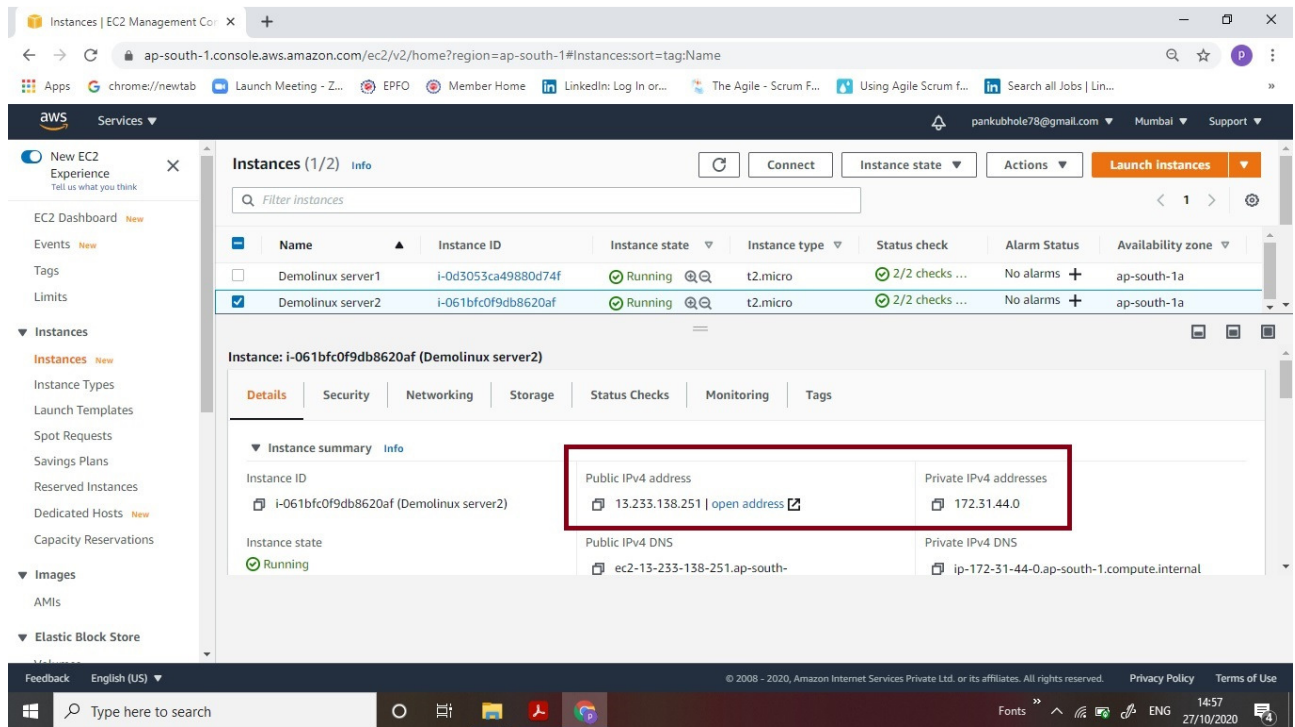
ss1: instances list



ss2: select a instance and display instance details of server1  
(Public Ip-65.0.129.43)



ss3: select a instance and display instance details of server2  
(Public Ip – 13.233.138.251)



Step2: Launch both instances using Mobaxterm

Step3: Host html login webpage on both servers

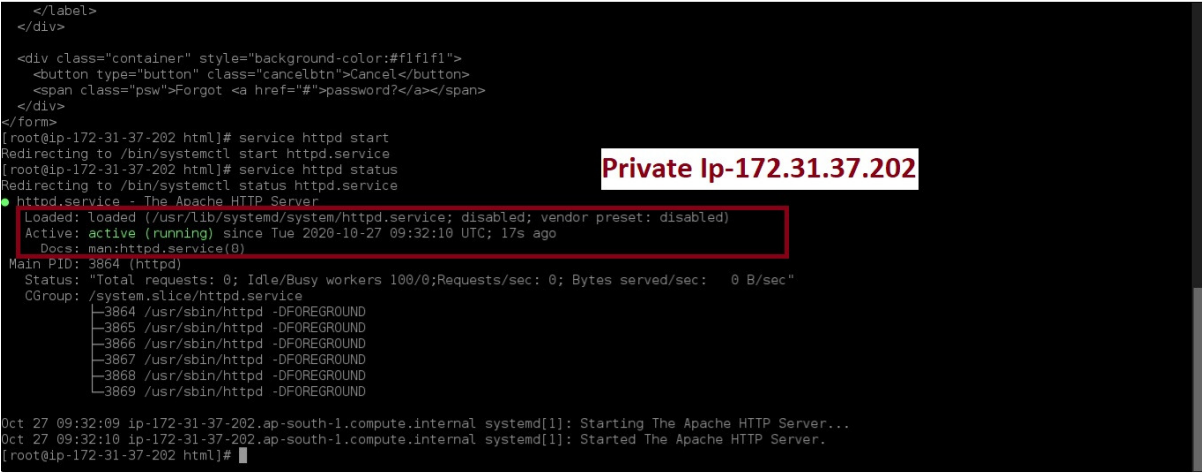
(Refer following for steps in command prompt)

```
sudo su
yum install httpd
cd /var/www/html
pwd
vi index.html
i
copy paste code
esc:wq
more index.html

service httpd start
service httpd status
```

ss4: Status: Active running- black screen

## Demoserver1 – Private IP-172.31.37.202



Connect to instance | EC2 Manag x i-0d3053ca49880d74f (Demolinu x +

ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0d3053ca49880d74f

Private Ip-172.31.37.202

```
</label>
</div>

<div class="container" style="background-color:#f1f1f1">
  <button type="button" class="cancelbtn">Cancel</button>
  <span class="psw">Forgot <a href="#">password?</a></span>
</div>
</form>
[root@ip-172-31-37-202 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-37-202 html]# service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Tue 2020-10-27 09:32:10 UTC; 17s ago
     Docs: man:httpd.service(8)
  Main PID: 3864 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:  0 B/sec"
   CGroup: /system.slice/httpd.service
           └─3864 /usr/sbin/httpd -DFOREGROUND
             └─3865 /usr/sbin/httpd -DFOREGROUND
               └─3866 /usr/sbin/httpd -DFOREGROUND
                 └─3867 /usr/sbin/httpd -DFOREGROUND
                   └─3868 /usr/sbin/httpd -DFOREGROUND
                     └─3869 /usr/sbin/httpd -DFOREGROUND

Oct 27 09:32:09 ip-172-31-37-202.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 27 09:32:10 ip-172-31-37-202.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-37-202 html]#
```

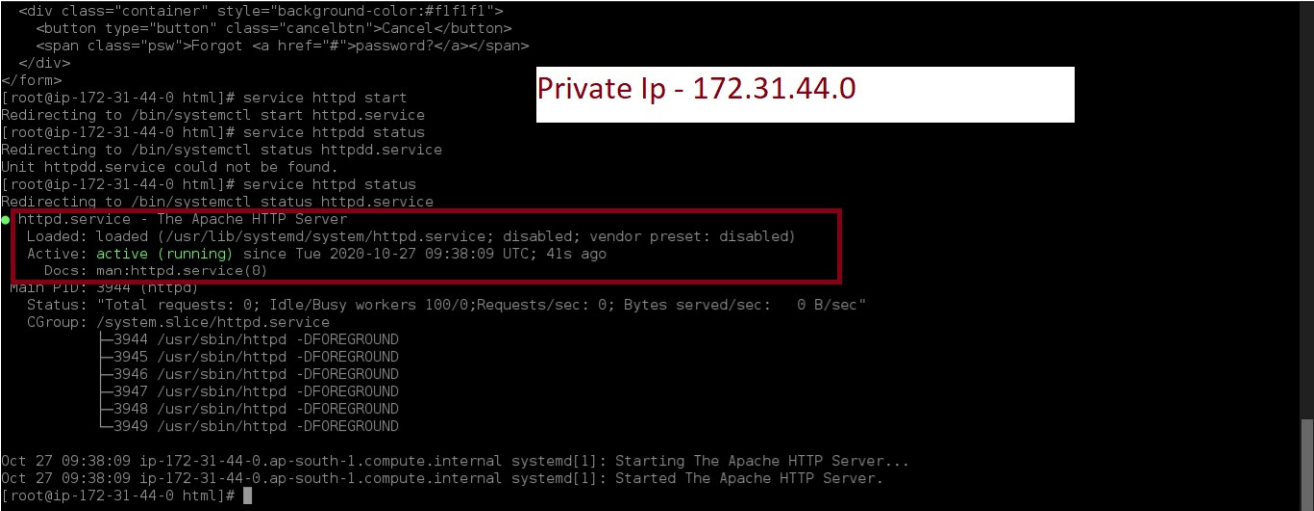
i-0d3053ca49880d74f (Demolinux server1)

Public IPs: 65.0.129.43 Private IPs: 172.31.37.202

Type here to search

Fonts 15:02 27/10/2020

## Demoserver2 – Private Ip-172.31.44.0



Connect to instance | EC2 Manag x i-061bfc0f9db8620af (Demolinu x i-0d3053ca49880d74f (Demolinu x +

ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-061bfc0f9db8620af

Private Ip - 172.31.44.0

```
<div class="container" style="background-color:#f1f1f1">
  <button type="button" class="cancelbtn">Cancel</button>
  <span class="psw">Forgot <a href="#">password?</a></span>
</div>
</form>
[root@ip-172-31-44-0 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-44-0 html]# service httpdd status
Redirecting to /bin/systemctl status httpdd.service
Unit httpdd.service could not be found.
[root@ip-172-31-44-0 html]# service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Tue 2020-10-27 09:38:09 UTC; 41s ago
     Docs: man:httpd.service(8)
  Main PID: 3944 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:  0 B/sec"
   CGroup: /system.slice/httpd.service
           └─3944 /usr/sbin/httpd -DFOREGROUND
             └─3945 /usr/sbin/httpd -DFOREGROUND
               └─3946 /usr/sbin/httpd -DFOREGROUND
                 └─3947 /usr/sbin/httpd -DFOREGROUND
                   └─3948 /usr/sbin/httpd -DFOREGROUND
                     └─3949 /usr/sbin/httpd -DFOREGROUND

Oct 27 09:38:09 ip-172-31-44-0.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 27 09:38:09 ip-172-31-44-0.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-44-0 html]#
```

i-061bfc0f9db8620af (Demolinux server2)

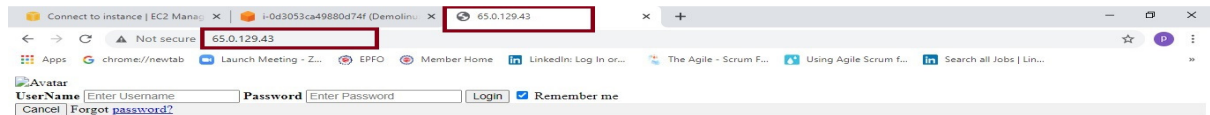
Public IPs: 13.233.138.251 Private IPs: 172.31.44.0

Type here to search

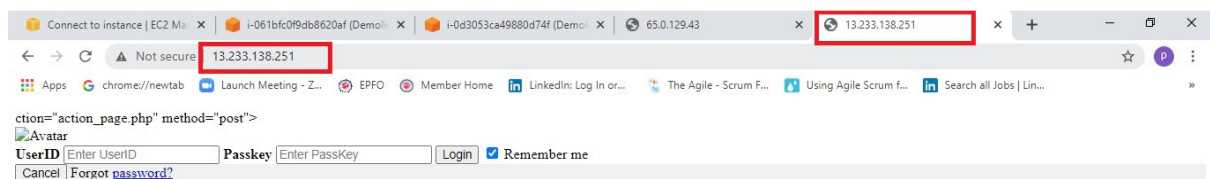
Fonts 15:09 27/10/2020

Step4: Check if application is deployed on both servers by copy pasting the public ip of the servers into the browser.

ss5: username password page (Public IP – 65.0.429.43 of Demoserver1)

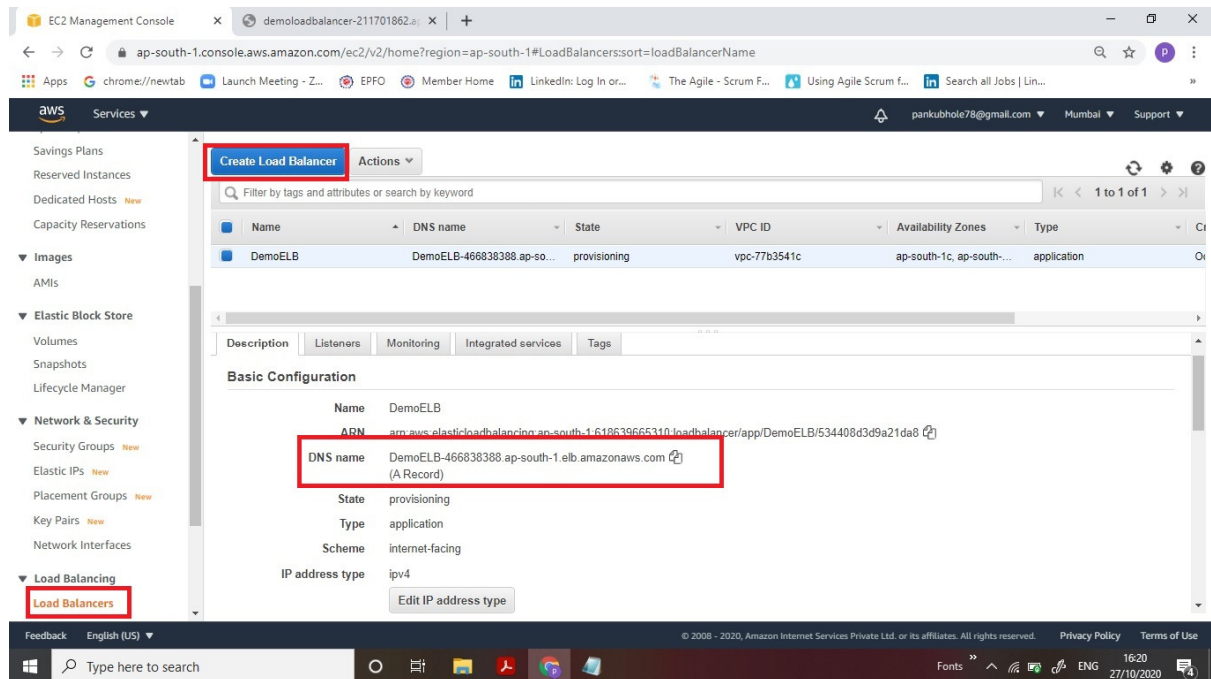


ss6: user id passkey (Public IP – 13.233.138.251 of demoserver2)



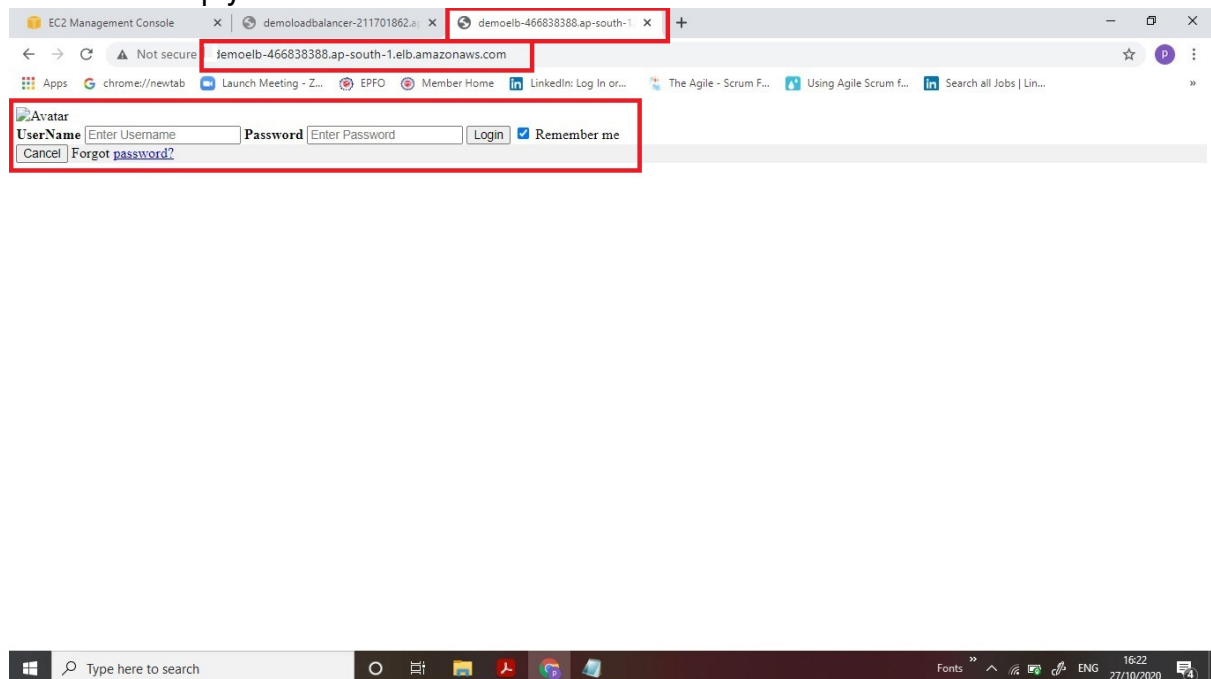
Step5: Create a application Load balancer with the above two instances as targets

ss7: Load balancer screenshot



Step6: Check the functioning of ELB using the DNS of the ELB  
Use the dns

ss8: reply from server1



ss9: reply from server2

EC2 Management Console x demoloadbalancer-211701862... x demoelb-466838388.ap-south-1... x +

Not secure demoelb-466838388.ap-south-1.elb.amazonaws.com

Apps chrome://newtab Launch Meeting - Z... EPFO Member Home LinkedIn: Log In or... The Agile - Scrum F... Using Agile Scrum f... Search all Jobs | Lin...

ction="action\_page.php" method="post">

Avatar

UserID  Enter UserID Passkey  Enter PassKey  ☒ Remember me