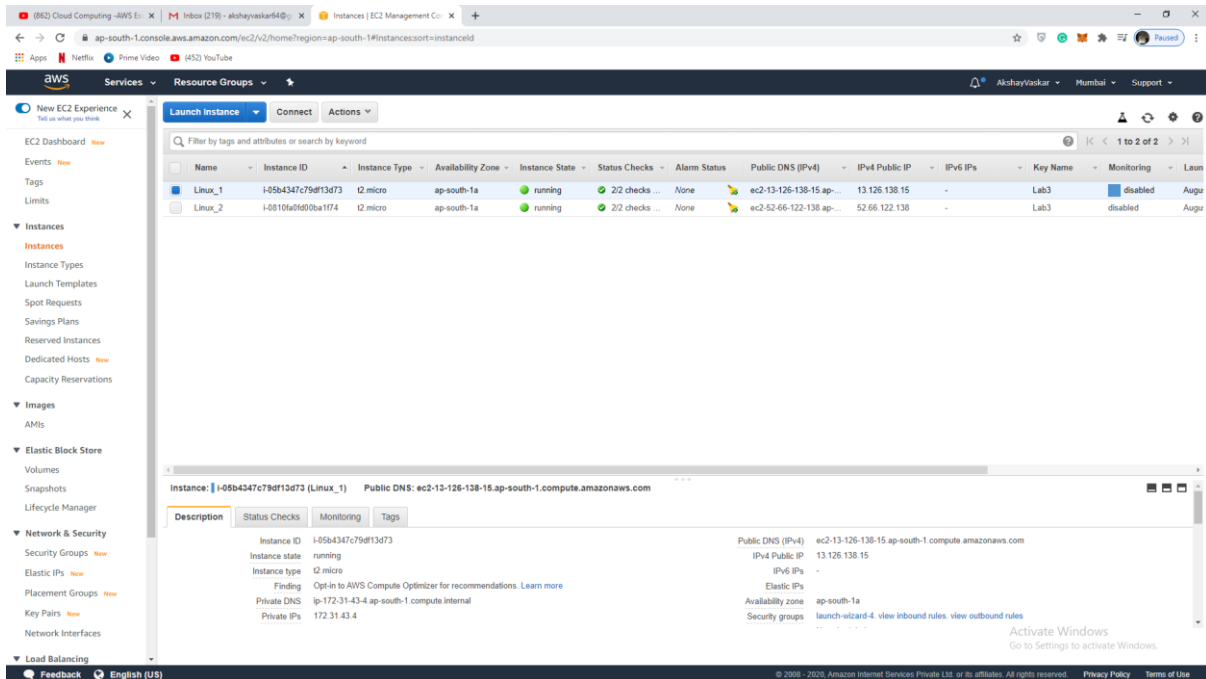


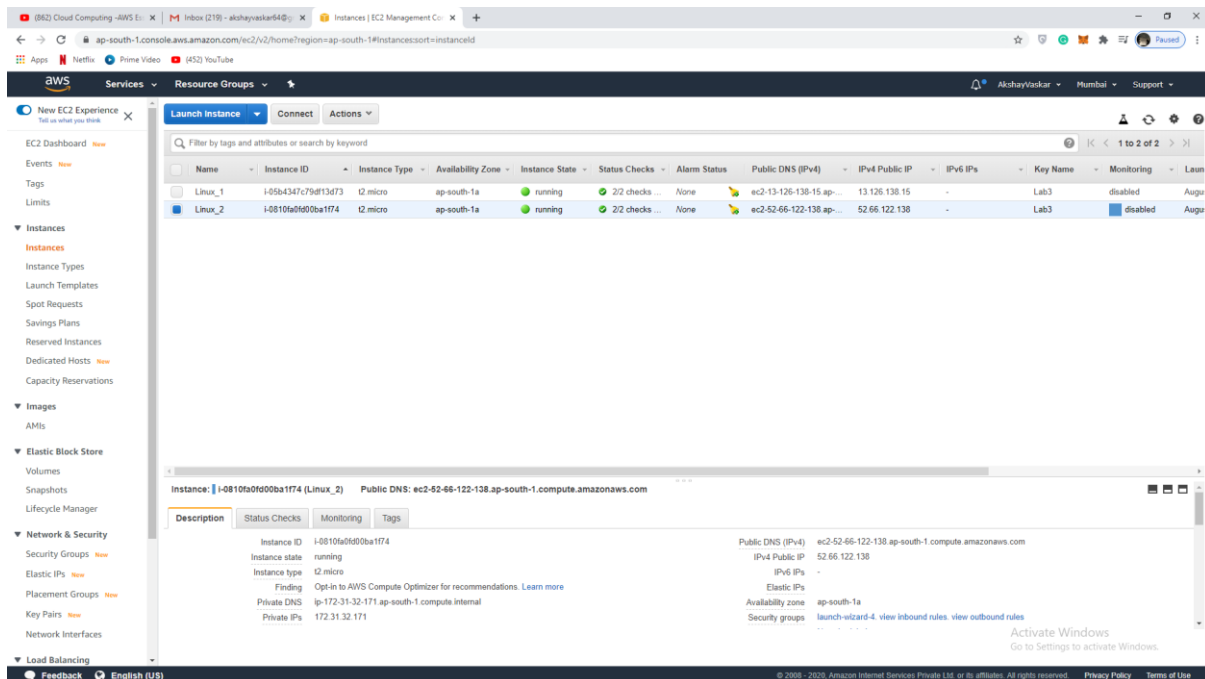
AWS - DAY 4 : Project 3 (Elastic Load Balancer)

Step 1 : Creating two Linux instances.

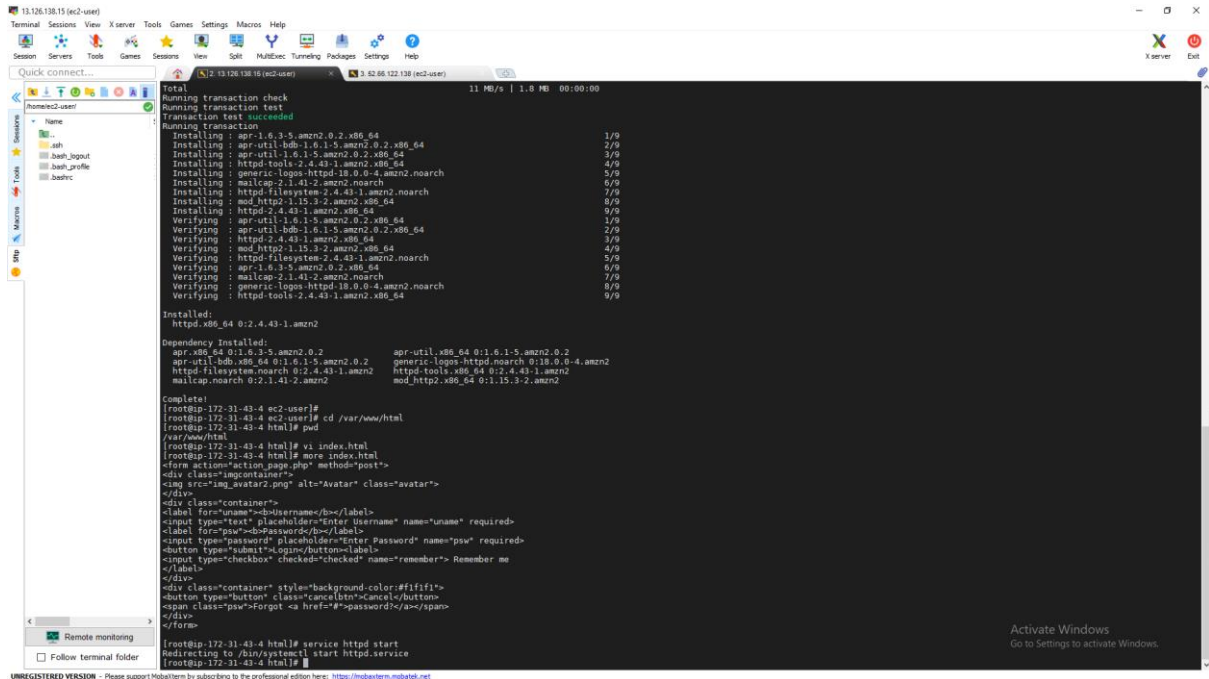
1. IP Address of Linux_1 instance : 13.126.138.15



2. IP Address of Linux_2 instance : 52.66.122.138

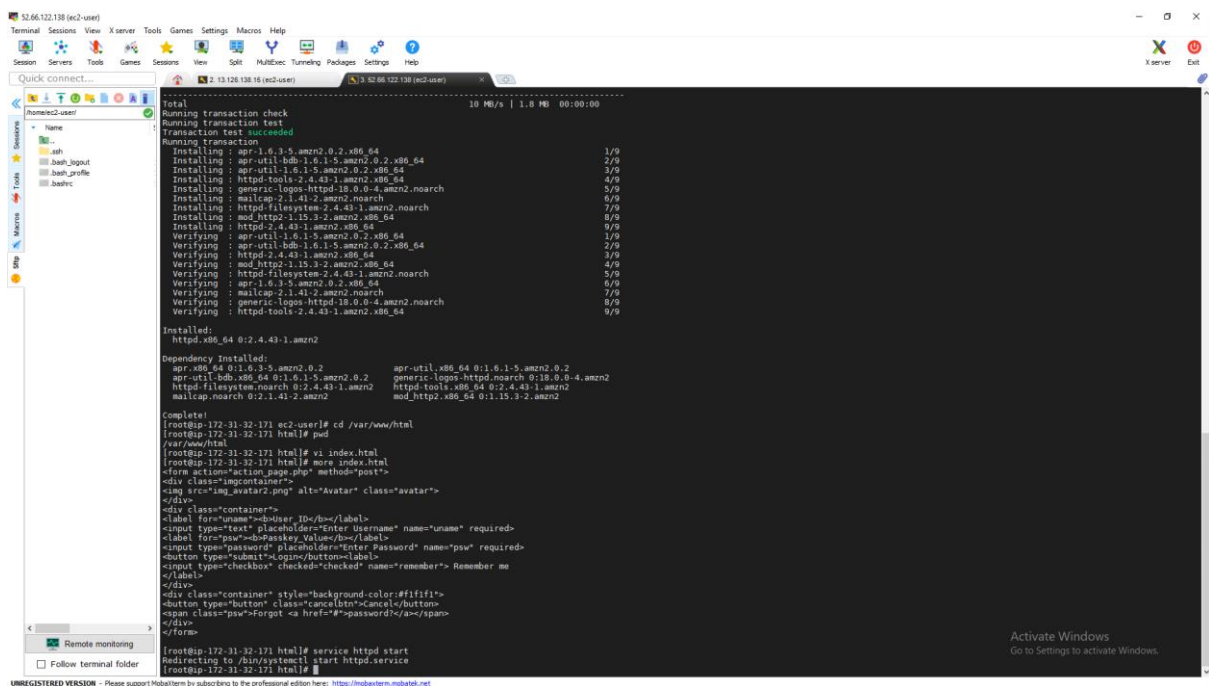


Step 2: After launching both instances using MobaXterm and hosting the html login webpage on both the servers.



```
13.126.138.15 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitab Tuning Packages Settings Help
Quick connect...
home02-user
Name
ash
bash_input
bash_profile
bashrc
SFTP
Macros
11 MB/s | 1.8 MB 00:00:00
Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.6.3-5.amzn2.0.2.x86_64 1/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9
Installing : httpd-tools-2.4.43-1.amzn2.x86_64 4/9
Installing : generic-logs-httpd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9
Installing : httpd filesystem-2.4.43-1.amzn2.noarch 7/9
Installing : mod_http2-1.15.3-2.amzn2.x86_64 8/9
Installing : httpd-2.4.43-1.amzn2.x86_64 9/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : httpd-2.4.43-1.amzn2.x86_64 3/9
Verifying : mod_http2-1.15.3-2.amzn2.x86_64 4/9
Verifying : httpd filesystem-2.4.43-1.amzn2.noarch 5/9
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64 6/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9
Verifying : generic-logs-httpd-18.0.0-4.amzn2.noarch 8/9
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64 9/9
Installed:
httpd.x86_64 0:2.4.43-1.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-logs-httpd.noarch 0:18.0.0-4.amzn2
httpd filesystem.noarch 0:2.4.43-1.amzn2 httpd-tools.x86_64 0:2.4.43-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2 mod_http2.x86_64 0:1.15.3-2.amzn2
Complete!
[root@ip-172-31-43-4 ec2-user]#
[root@ip-172-31-43-4 ec2-user]# cd /var/www/html
[root@ip-172-31-43-4 html]# pwd
/var/www/html
[root@ip-172-31-43-4 html]# vi index.html
[root@ip-172-31-43-4 html]# more index.html
<form action="action_page.php" method="post">
<div class="imgcontainer">

</div>
<div class="container">
<label for="uname">Username</label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw">Password</label>
<input type="password" placeholder="Enter Password" name="psw" required>
<button type="submit">Login</button>
<input type="checkbox" checked="checked" name="remember"> Remember me
</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-172-31-43-4 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-43-4 html]#
```

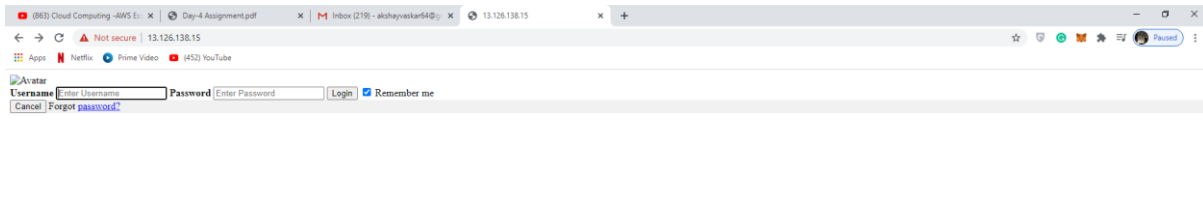


```
52.66.122.138 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitab Tuning Packages Settings Help
Quick connect...
home02-user
Name
ash
bash_input
bash_profile
bashrc
SFTP
Macros
10 MB/s | 1.8 MB 00:00:00
Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.6.3-5.amzn2.0.2.x86_64 1/9
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9
Installing : httpd-tools-2.4.43-1.amzn2.x86_64 4/9
Installing : generic-logs-httpd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9
Installing : httpd filesystem-2.4.43-1.amzn2.noarch 7/9
Installing : mod_http2-1.15.3-2.amzn2.x86_64 8/9
Installing : httpd-2.4.43-1.amzn2.x86_64 9/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : httpd-2.4.43-1.amzn2.x86_64 3/9
Verifying : mod_http2-1.15.3-2.amzn2.x86_64 4/9
Verifying : httpd filesystem-2.4.43-1.amzn2.noarch 5/9
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64 6/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9
Verifying : generic-logs-httpd-18.0.0-4.amzn2.noarch 8/9
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64 9/9
Installed:
httpd.x86_64 0:2.4.43-1.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-logs-httpd.noarch 0:18.0.0-4.amzn2
httpd filesystem.noarch 0:2.4.43-1.amzn2 httpd-tools.x86_64 0:2.4.43-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2 mod_http2.x86_64 0:1.15.3-2.amzn2
Complete!
[root@ip-172-31-32-171 ec2-user]# cd /var/www/html
[root@ip-172-31-32-171 html]# pwd
/var/www/html
[root@ip-172-31-32-171 html]# vi index.html
[root@ip-172-31-32-171 html]# more index.html
<form action="action_page.php" method="post">
<div class="imgcontainer">

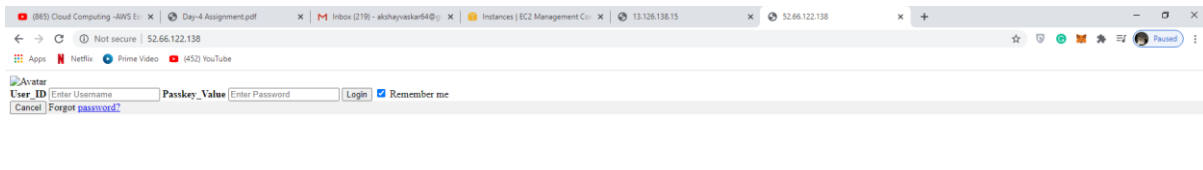
</div>
<div class="container">
<label for="uname">Username</label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw">Password</label>
<input type="password" placeholder="Enter Password" name="psw" required>
<button type="submit">Login</button>
<input type="checkbox" checked="checked" name="remember"> Remember me
</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-172-31-32-171 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-32-171 html]#
```

Step 3 : Checking the successful deployment of application on both servers

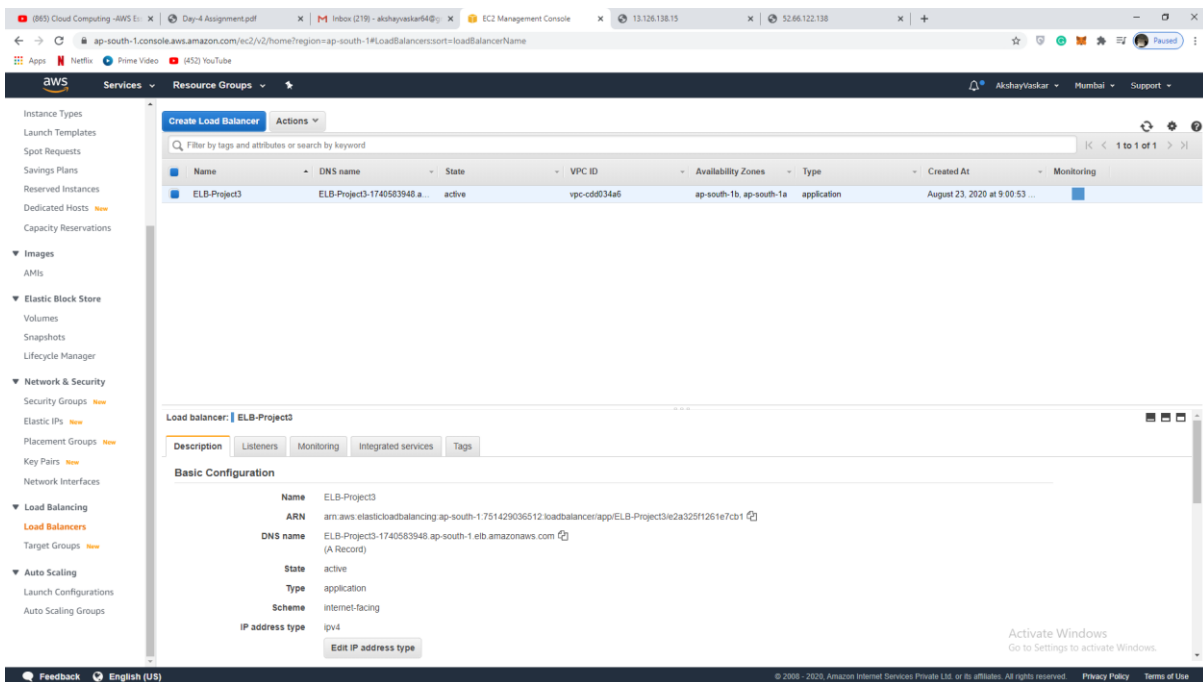
1. IP address used below is of Linux_1 instance i.e **13.126.138.15**



2. IP address used below is of Linux_2 instance i.e **52.66.122.138**



Step 4 : Created a Load balancer with the above two instances as targets.



Step 5: Successful functioning of ELB

DNS name: ELB-Project3-1740583948.ap-south-1.elb.amazonaws.com

