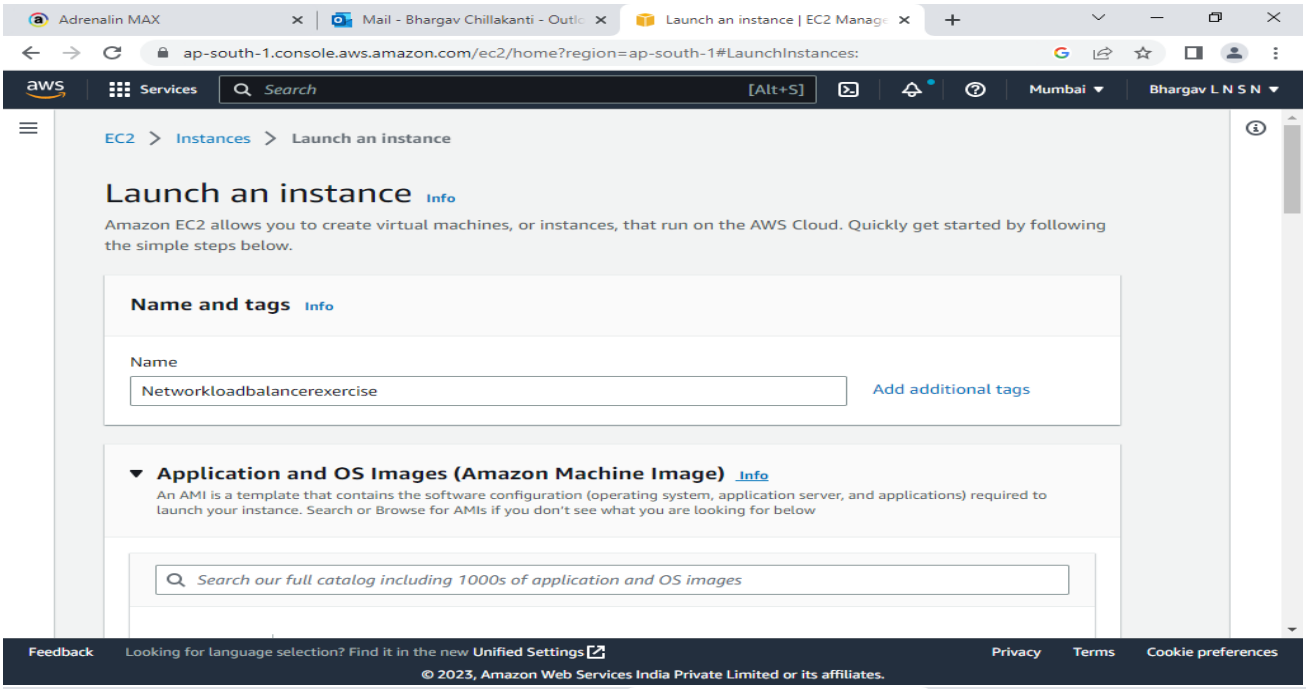
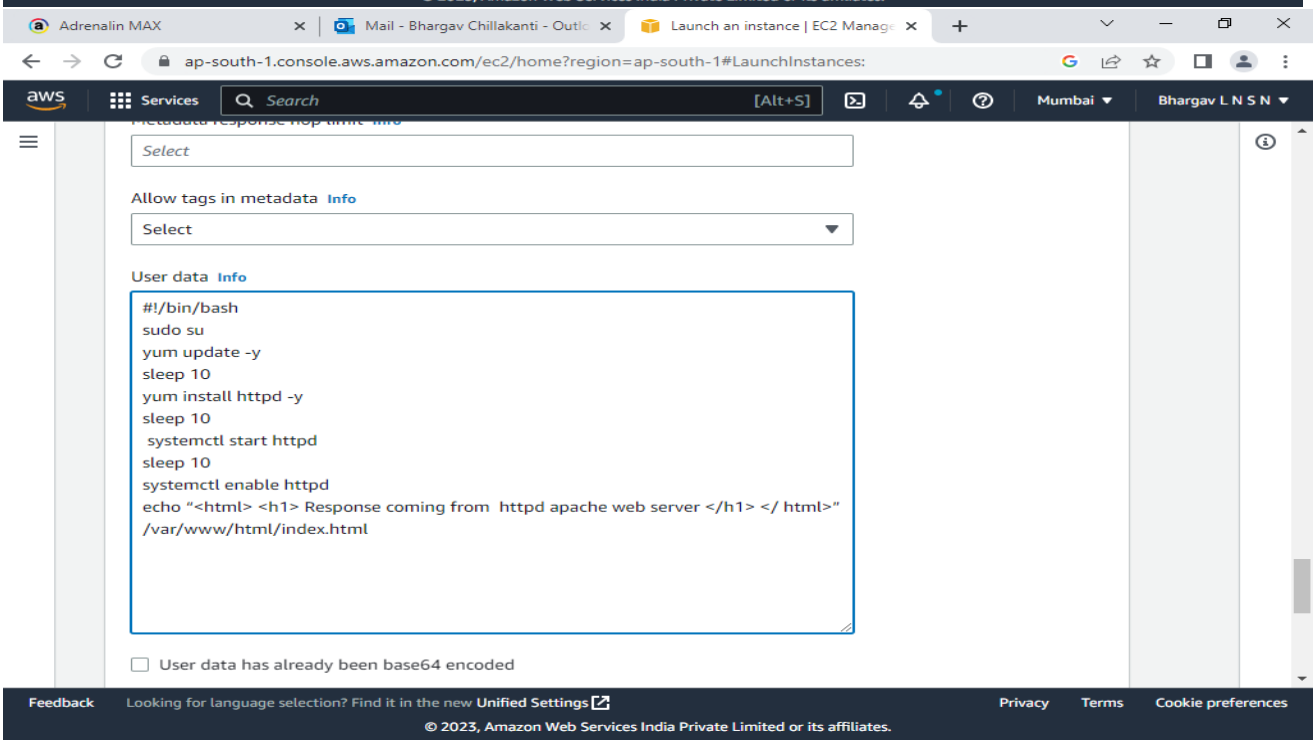
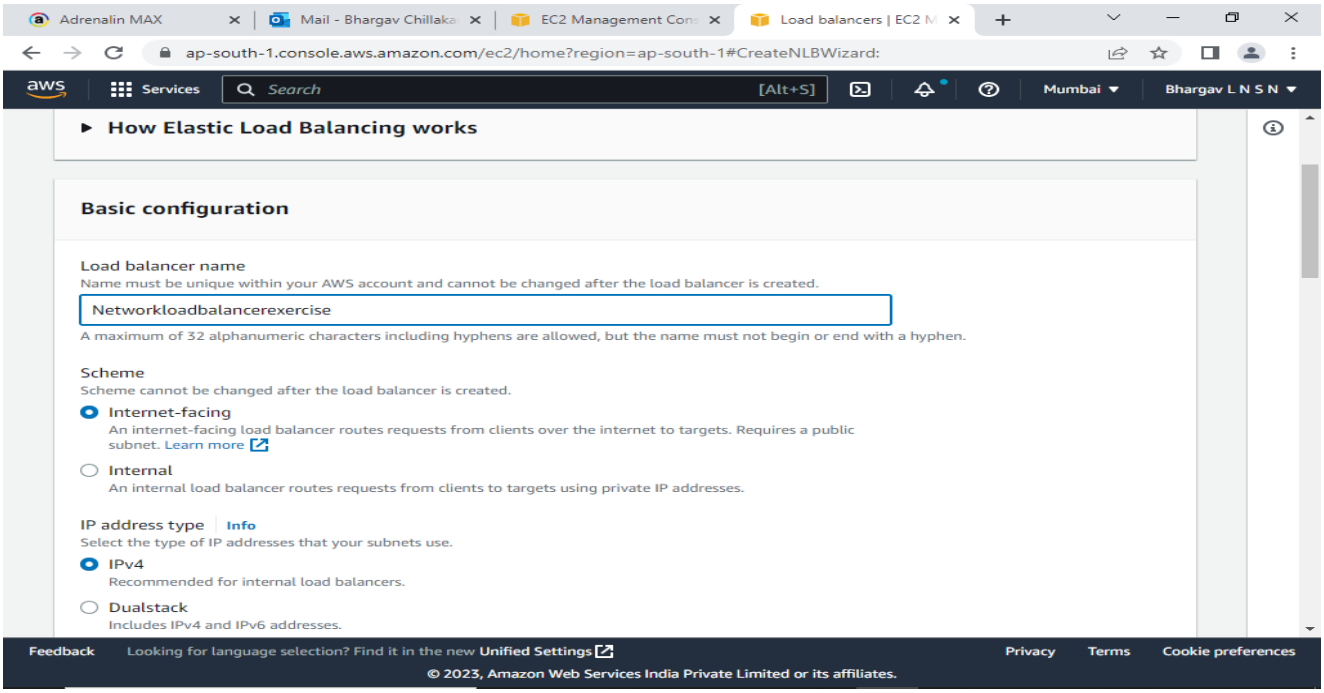
Network Load Balancer

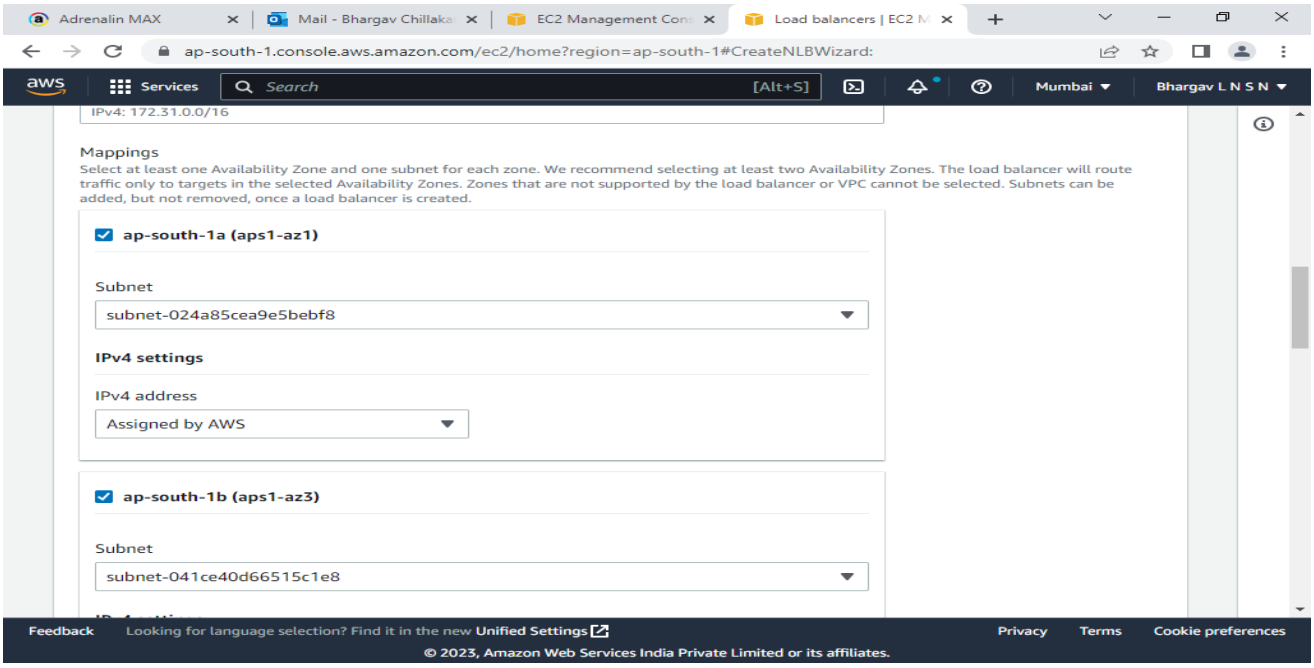
Step1: Launch Instance with userdata script.





Step2: Create Network Load balancer with zone mappings as of below.



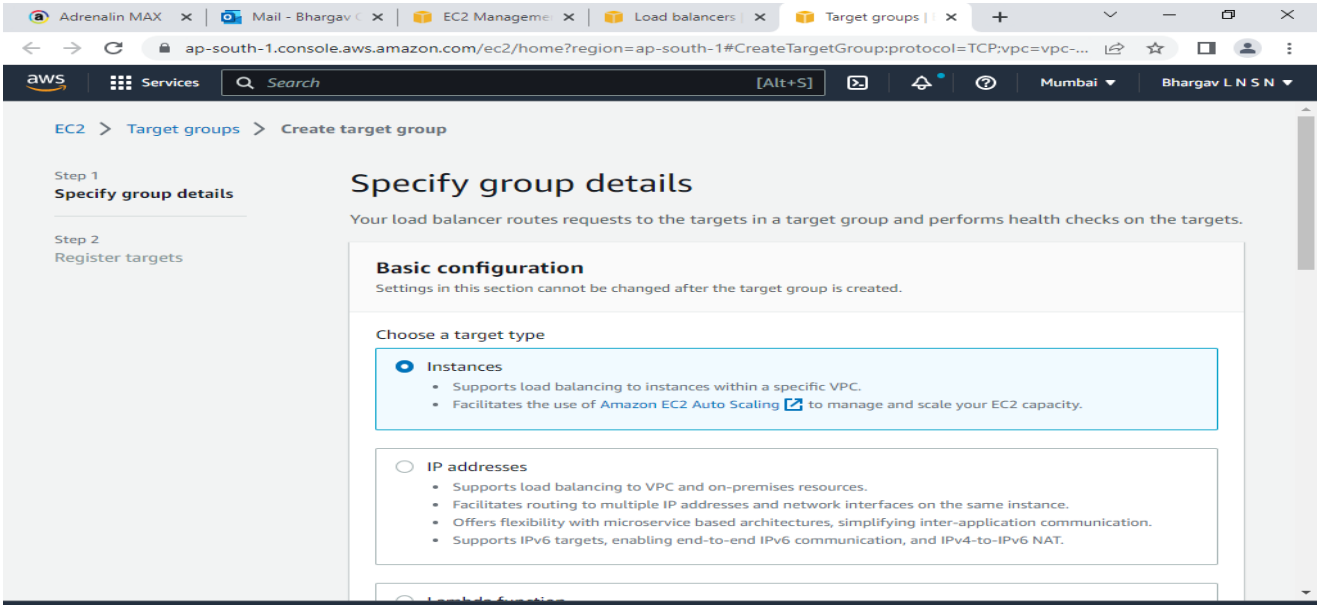


Step 3: Create the Target group for the load balancer with Listeners port:80, 8080, 8081.

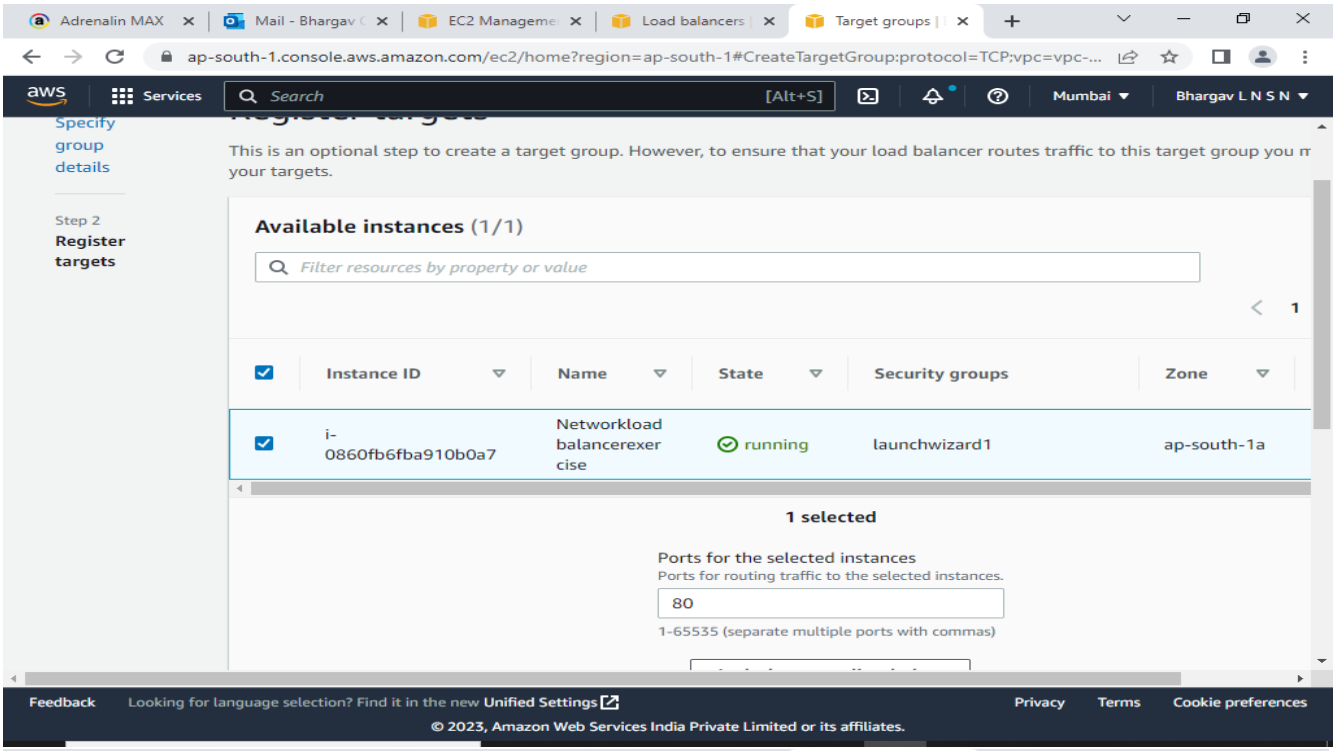
TCP – 80 - Apache web page

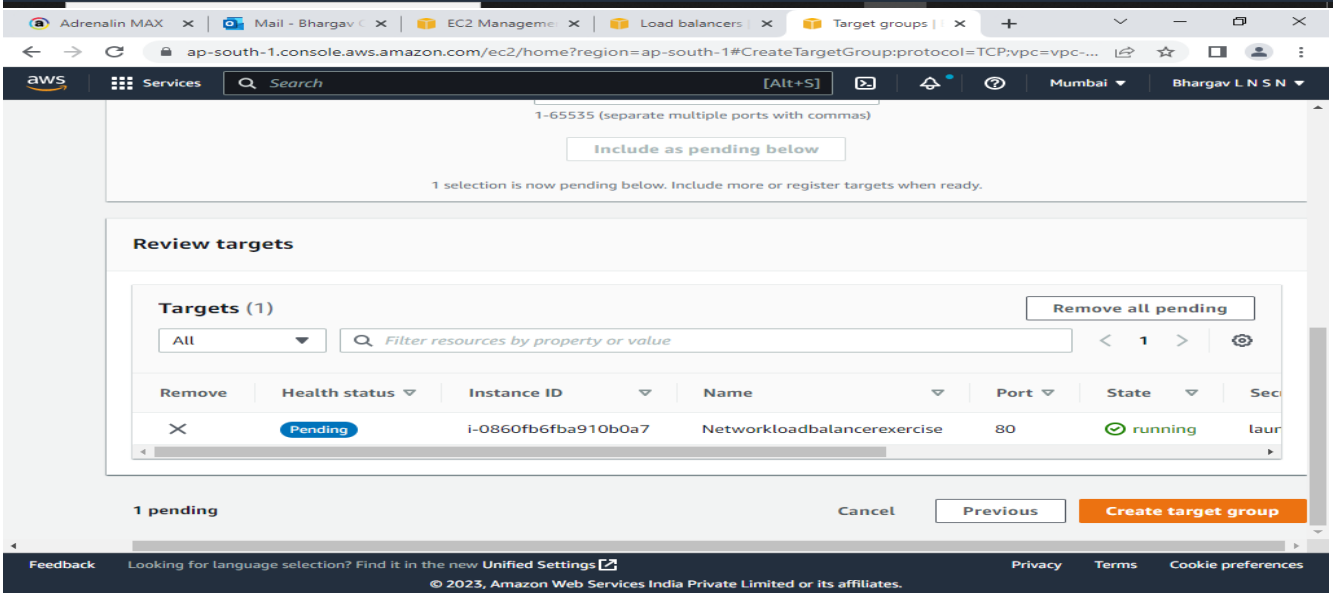
TCP – 8080 – Jenkins

TCP – 8081 – Nginix

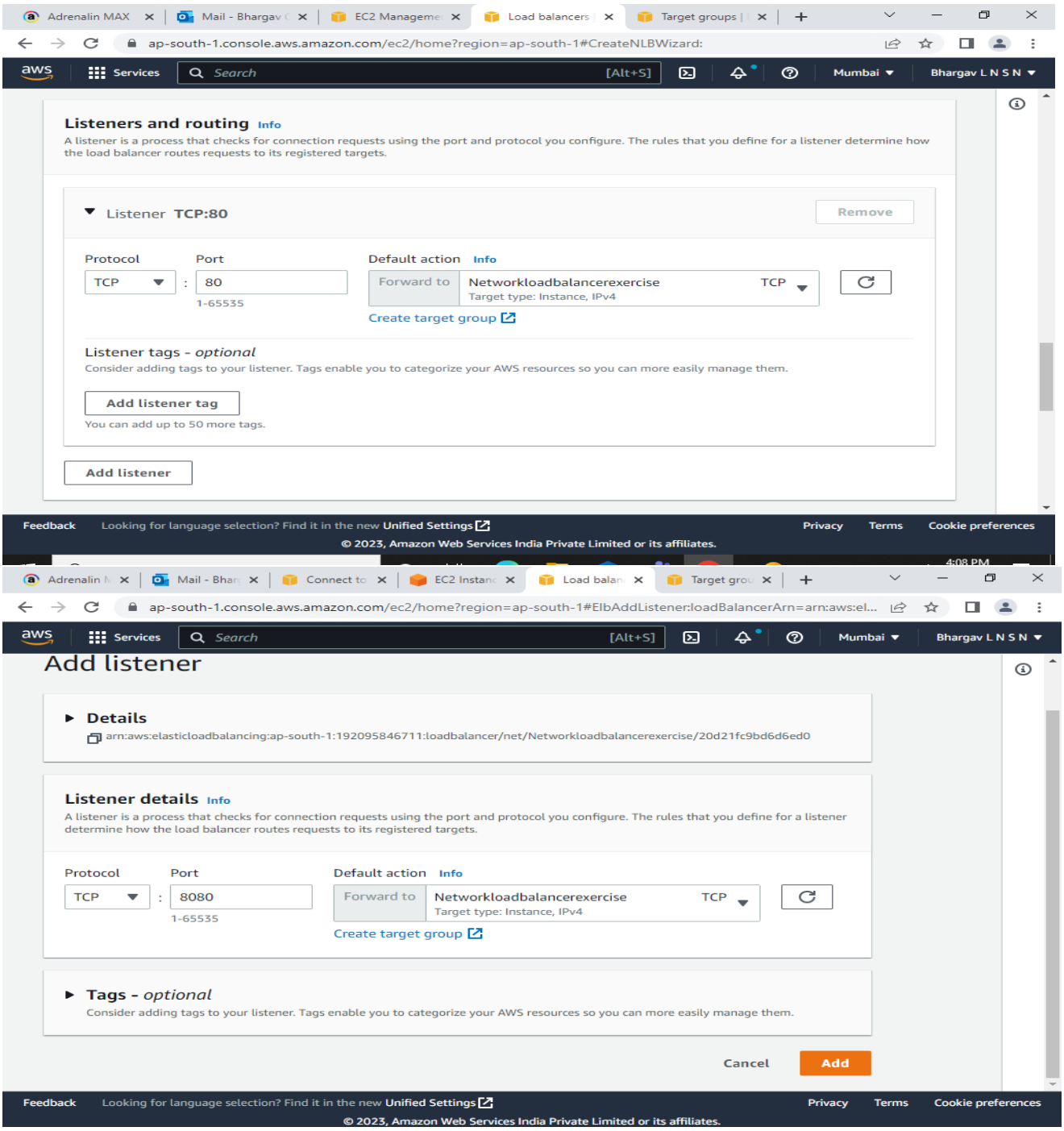


Register the targetgroup with provisoned Instance

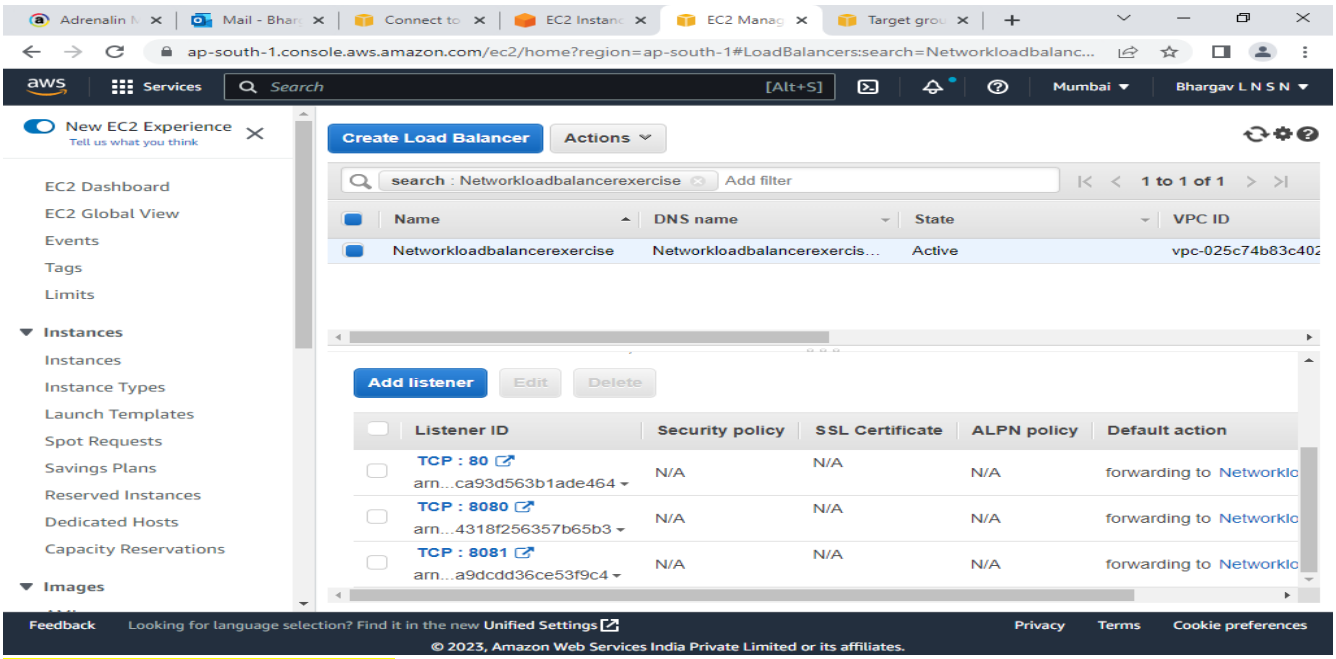




Add the listener ports to the load balancer

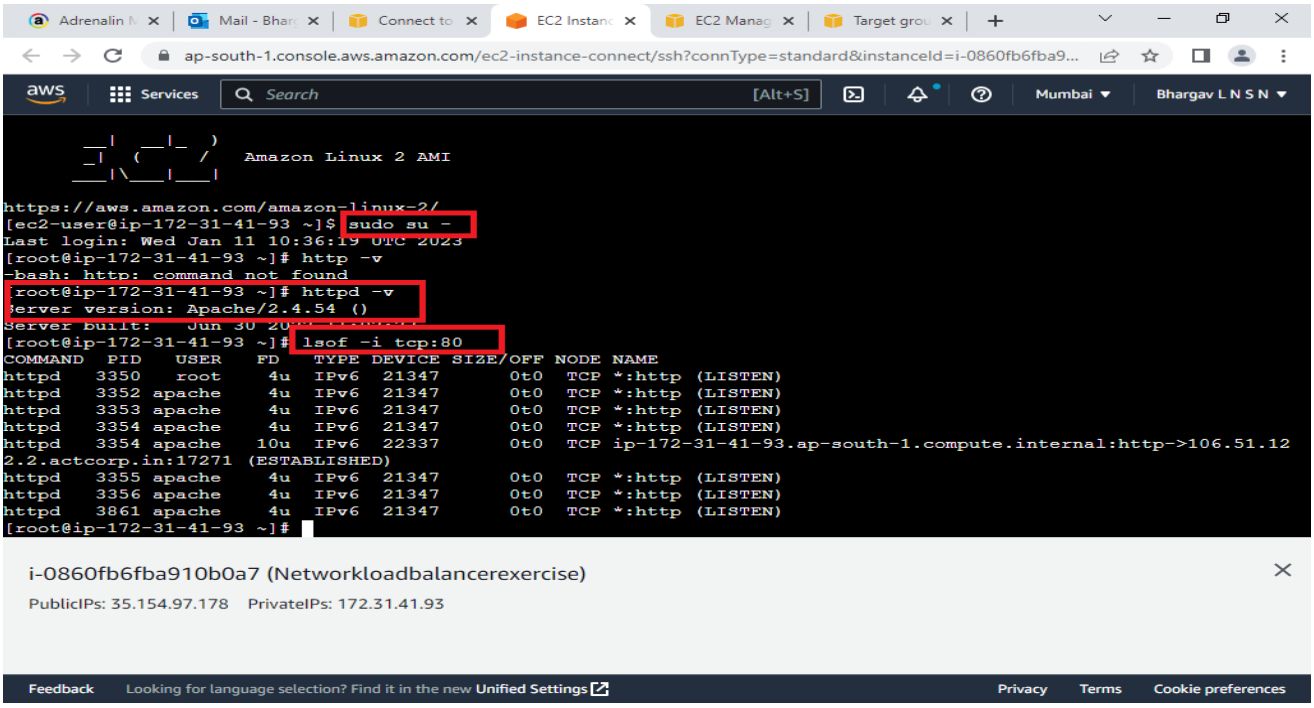


Load balancer is created with three listener ports.

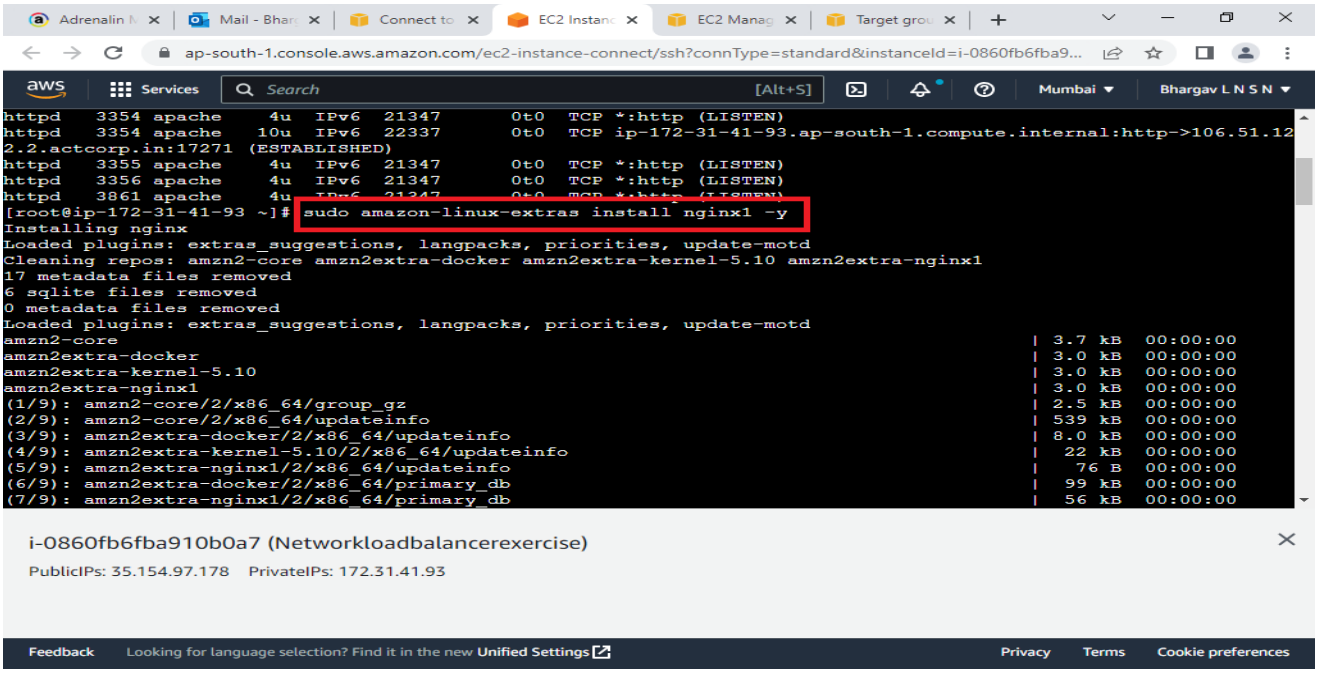


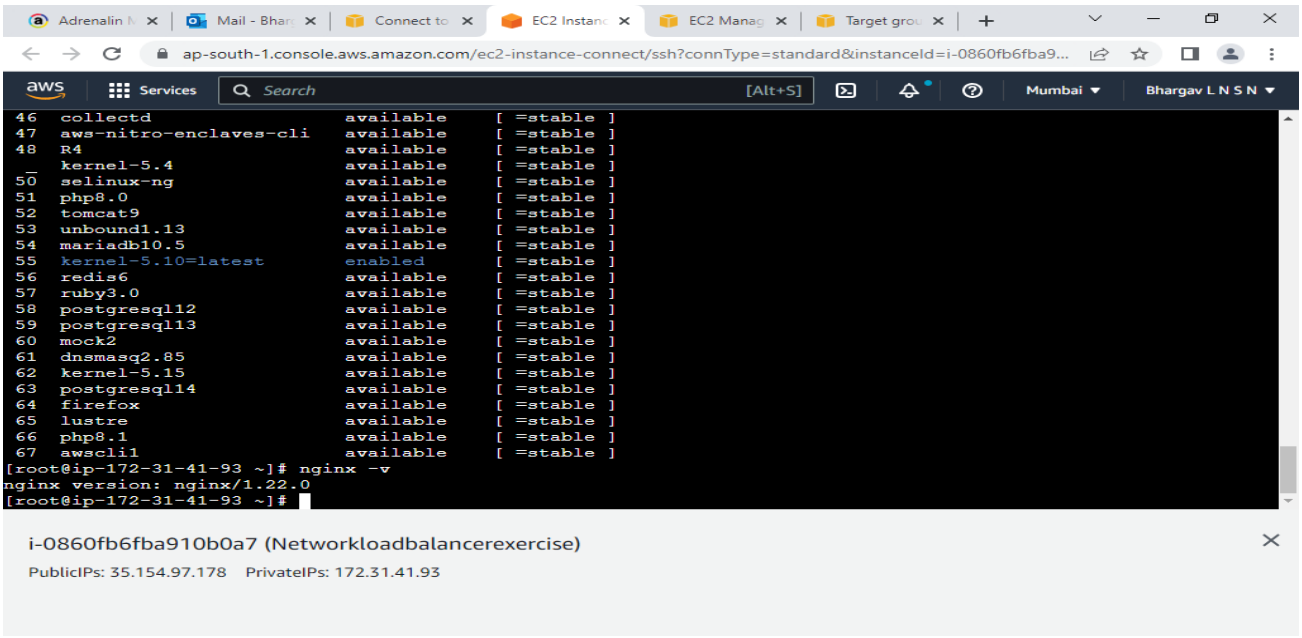
Connect to EC2 Instance connect

Check the httpd version and port using httpd –v , lsof -i tcp:80



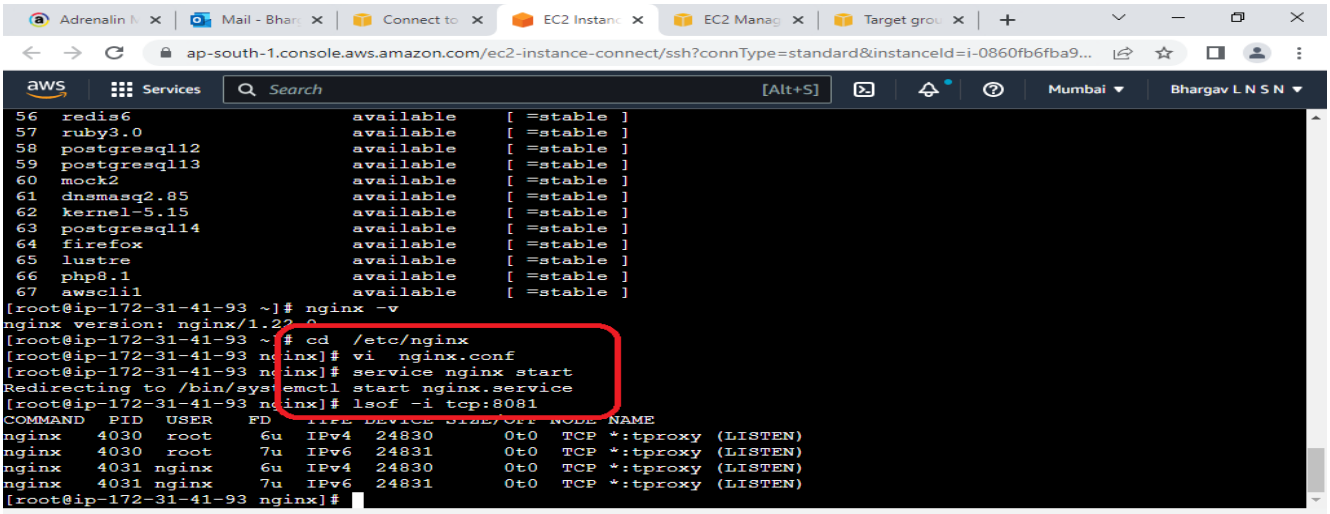
Install the nginix using command - sudo amazon-linux-extras install nginx1 –y

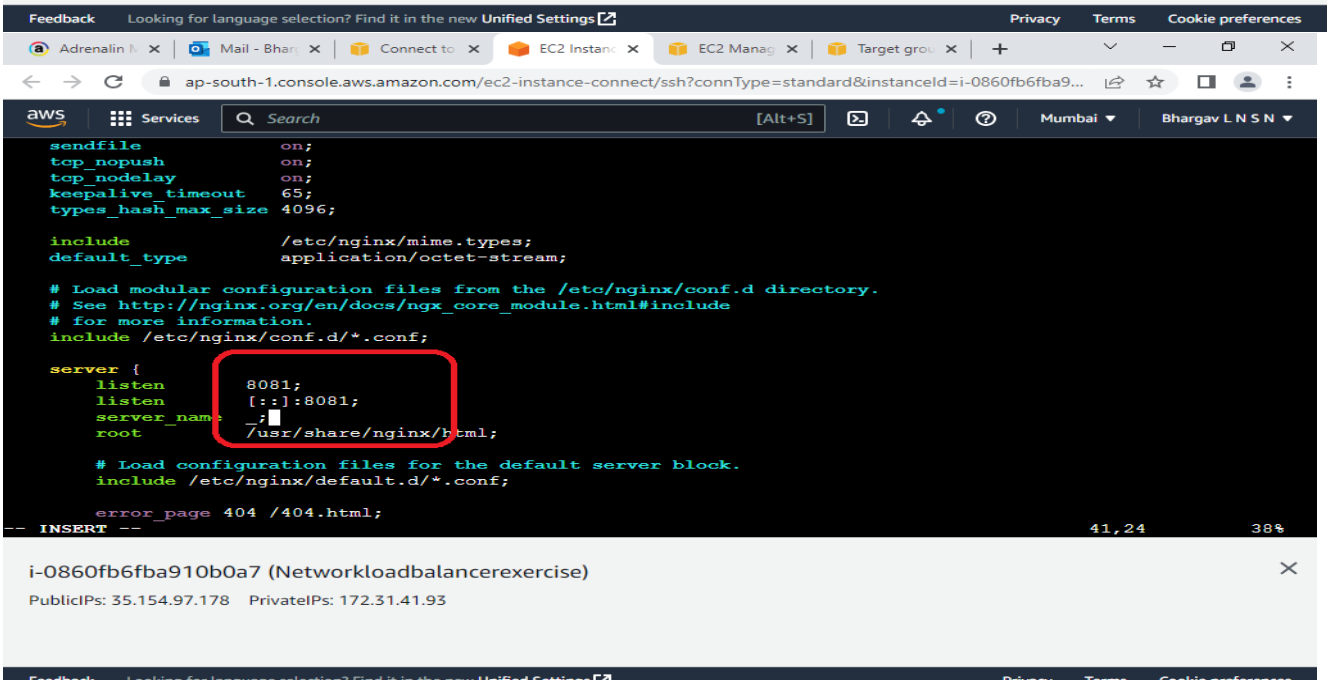




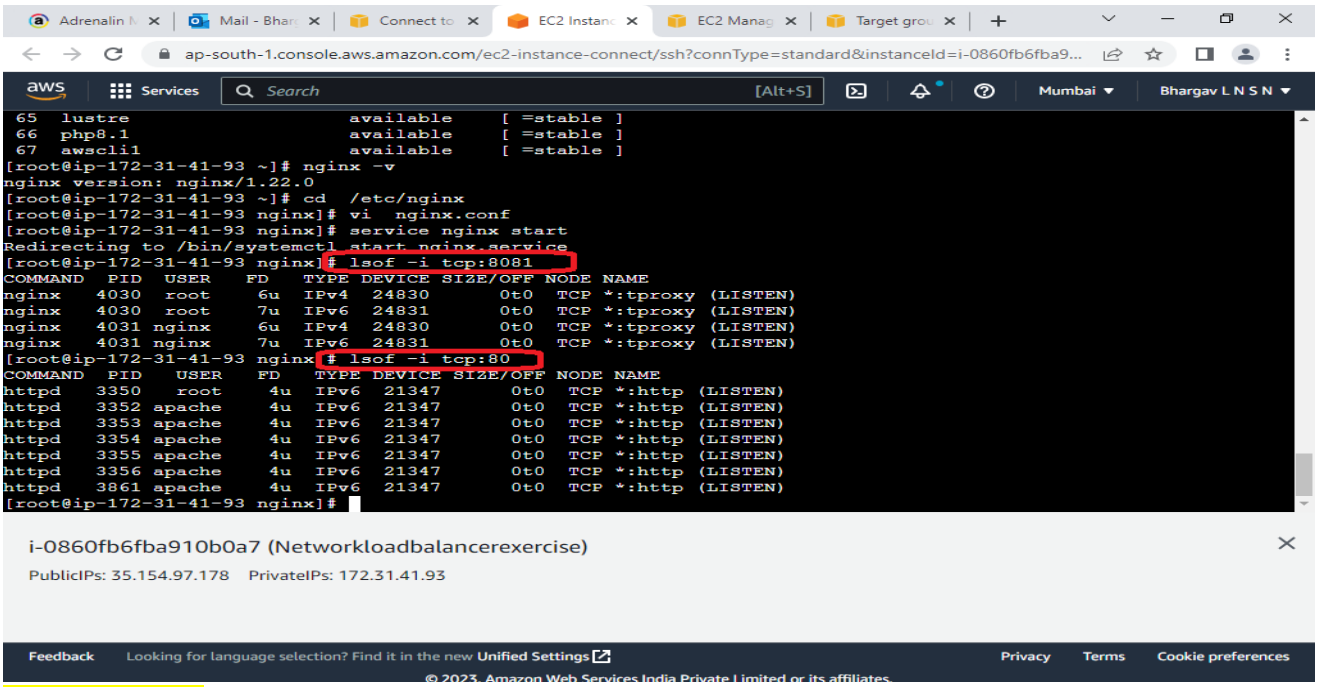
Now change the port of nginix to 8081 in the config file using vi command

cd /etc/nginx
vi nginx.conf



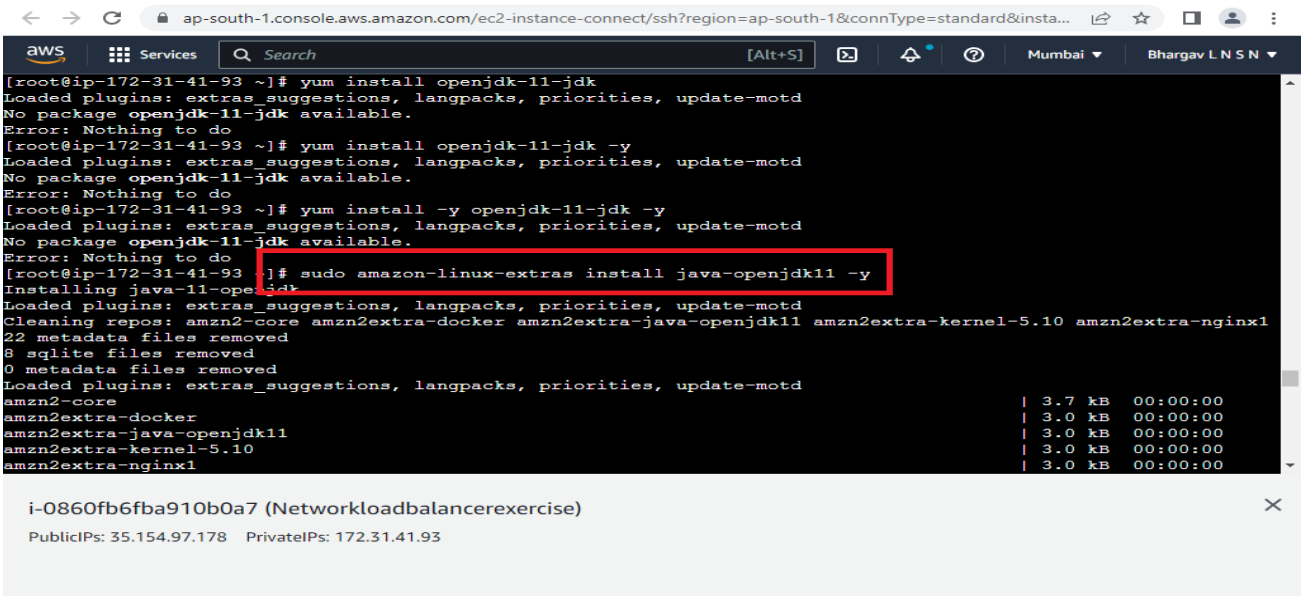


Check the ports of nginix and httpd using – lsof command

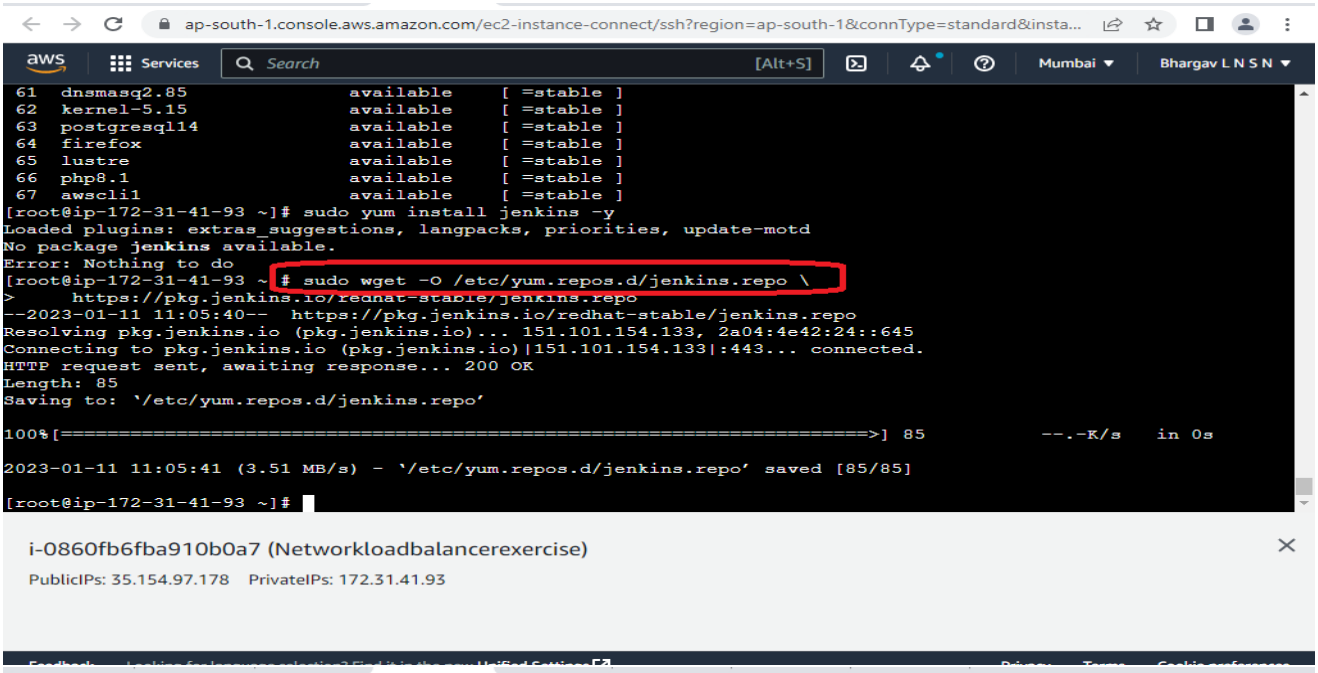


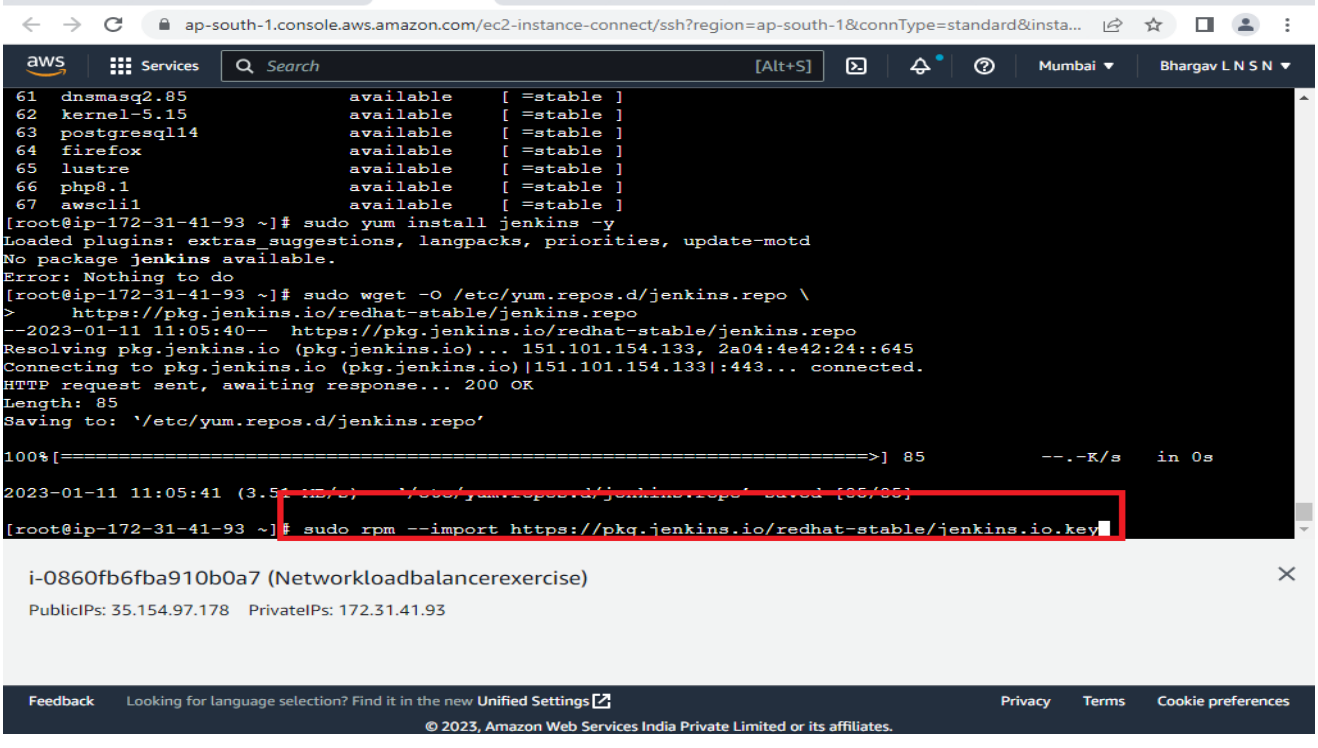
Installing Jenkins

i. Install the java linux extras

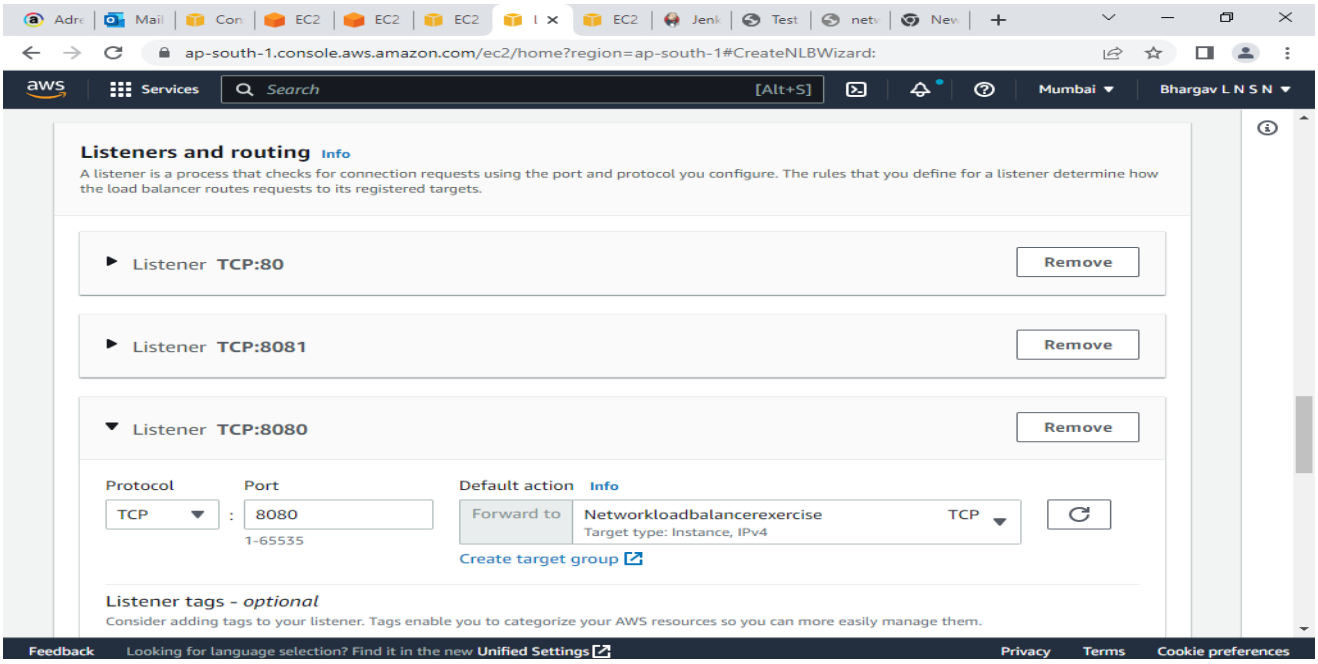


Ii.Install the wget for jenkins

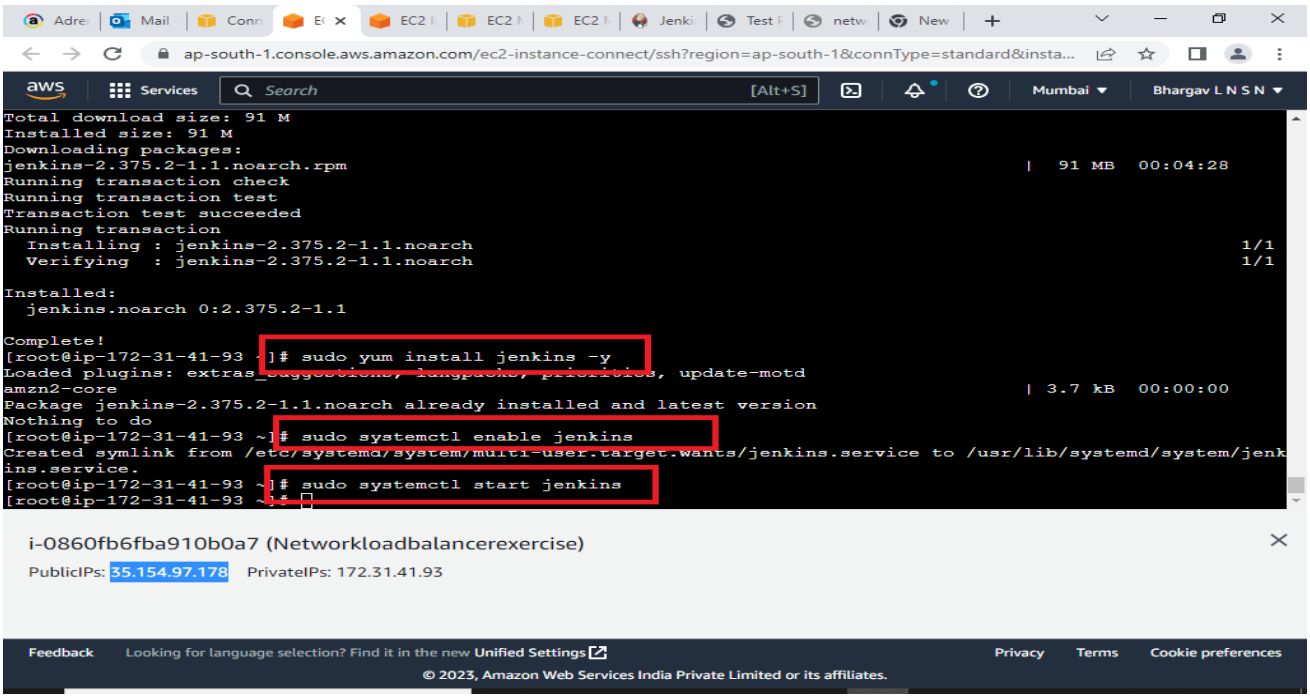




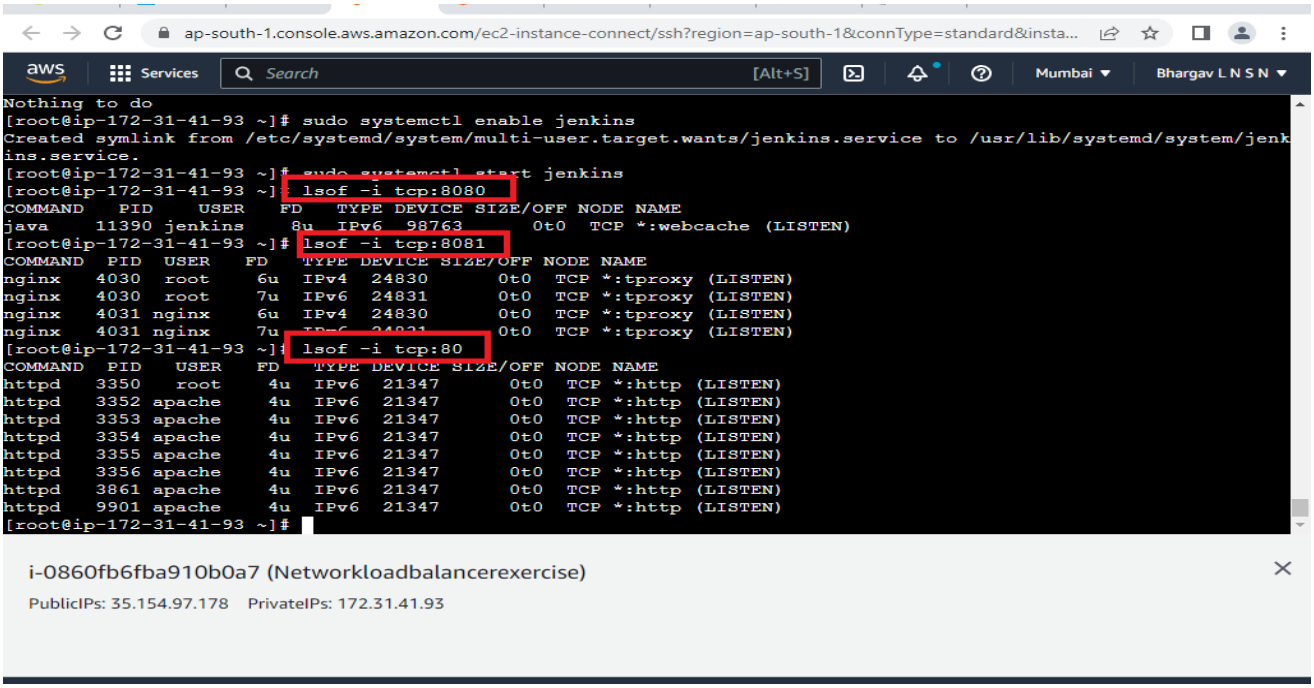
Add the 8080-listener port in the target group to load balancer



Install the jenkins and start jenkins



Check all the ports using lsof command

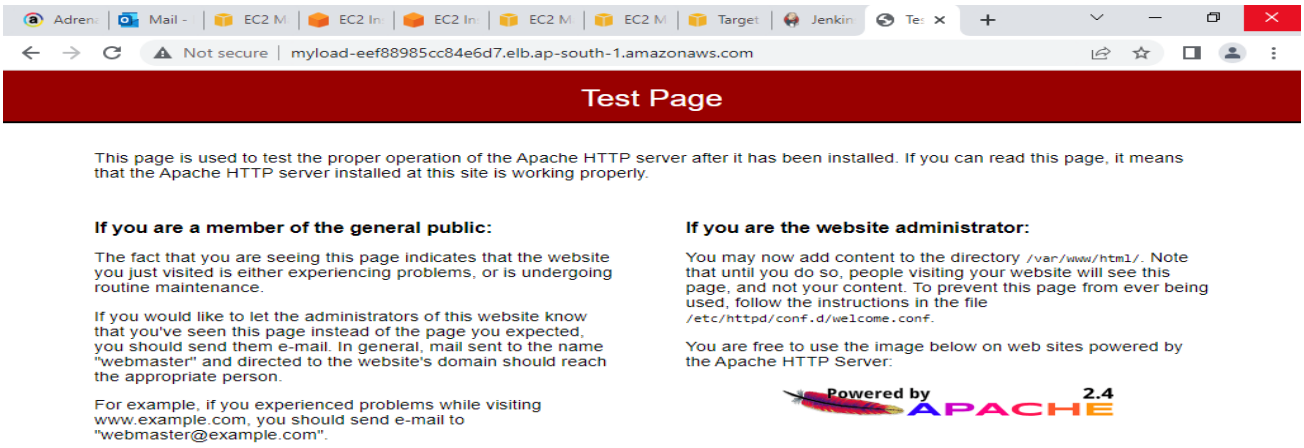


Using the load balancer DNS we get the final output

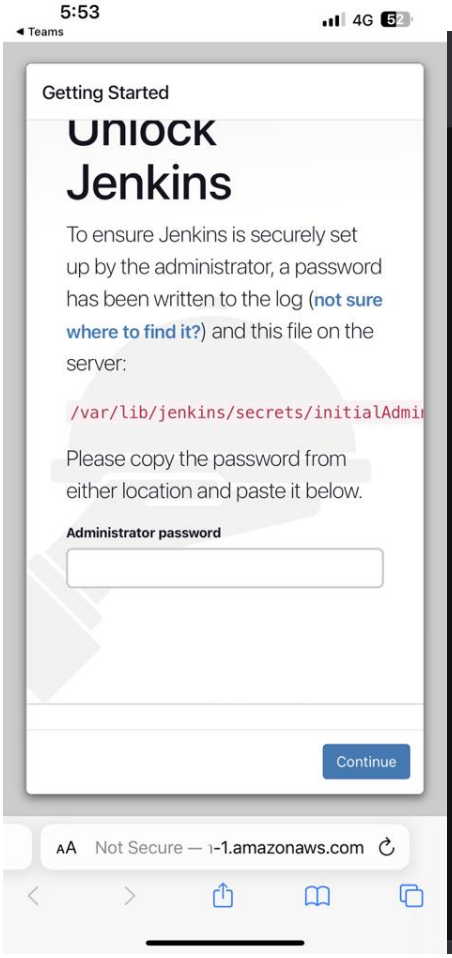
On port – 80 – HTTPD

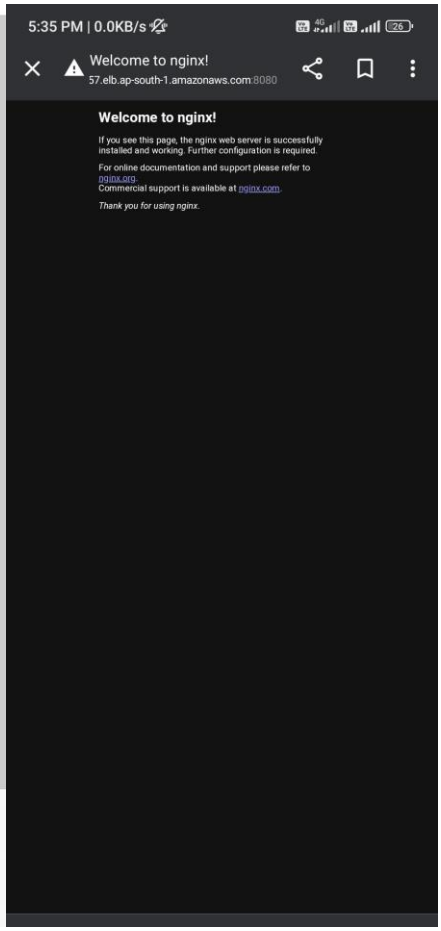
port – 8080 – JENKINS

port – 8081 – NGINIX



Connect the DNS name with :8080 and :8081


5:53
Teams
4G
Getting Started
Unlock Jenkins
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:
/var/lib/jenkins/secrets/initialAdmi
Please copy the password from either location and paste it below.
Administrator password
Continue
AA
Not Secure — -1.amazonaws.com


5:35 PM | 0.0KB/s
Welcome to nginx!
57.elb.ap-south-1.amazonaws.com:8080
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.