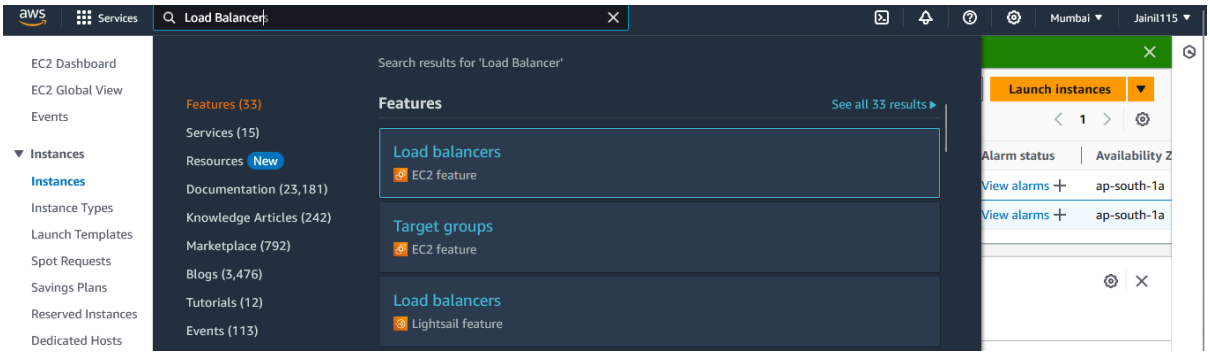
TASK 4: Create an ALB and map the instances under ALB.

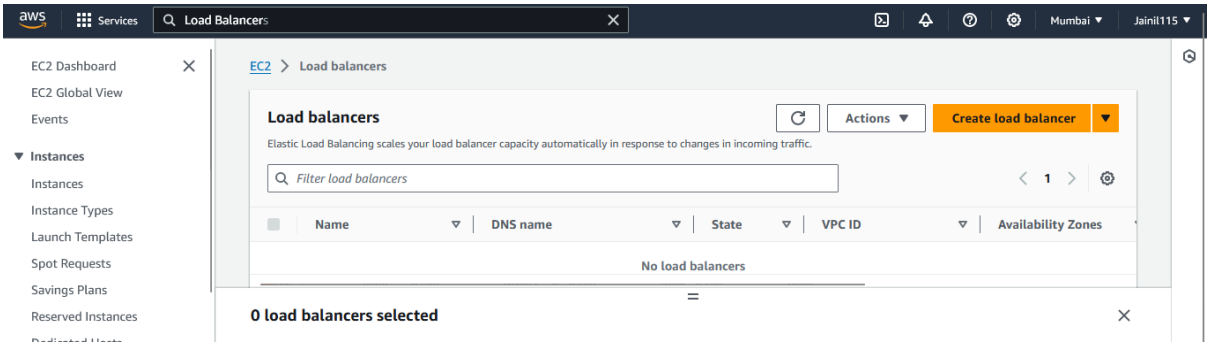
1. **With the DNS of ALB, the webserver should be get accessed**

Steps to create Application Load Balancer and mapping EC2 instance under ALB:

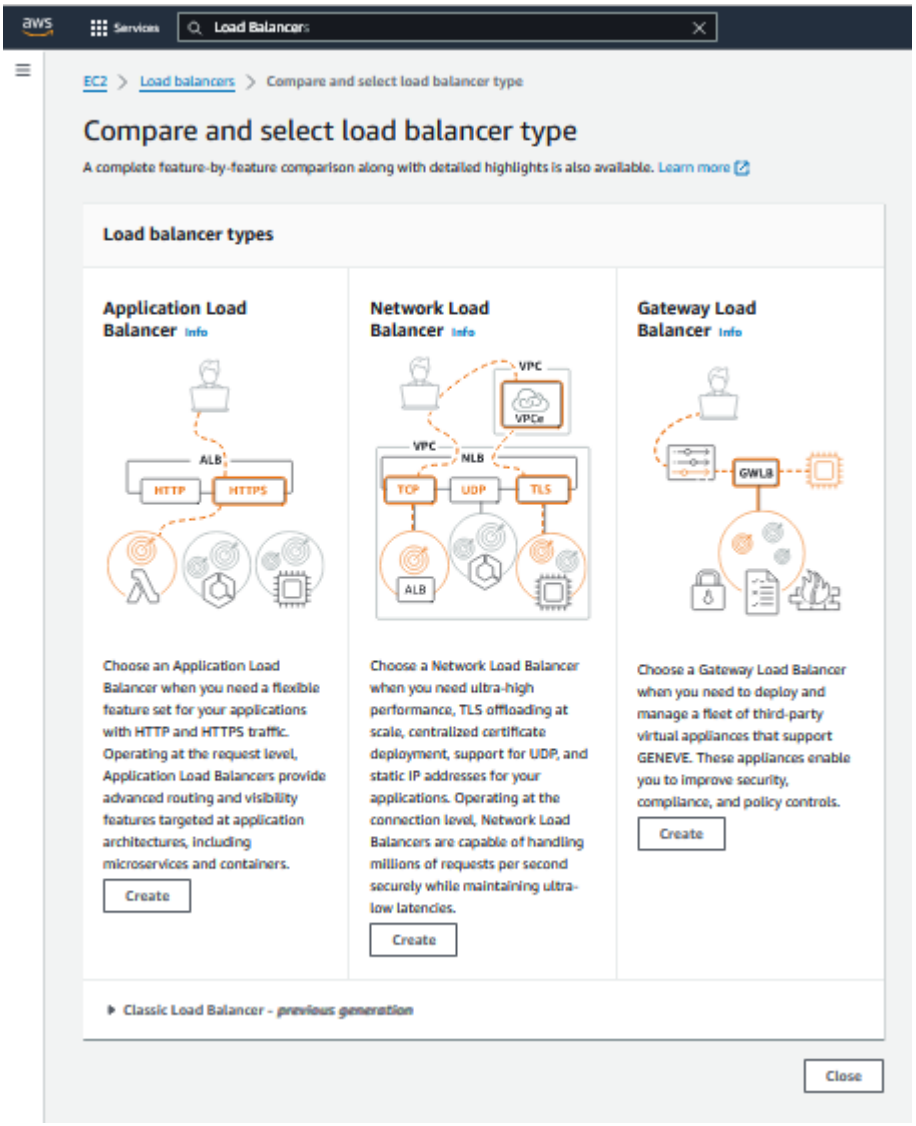
1. In AWS Console search for Load Balancers, Select “Load Balancer EC2 Feature”



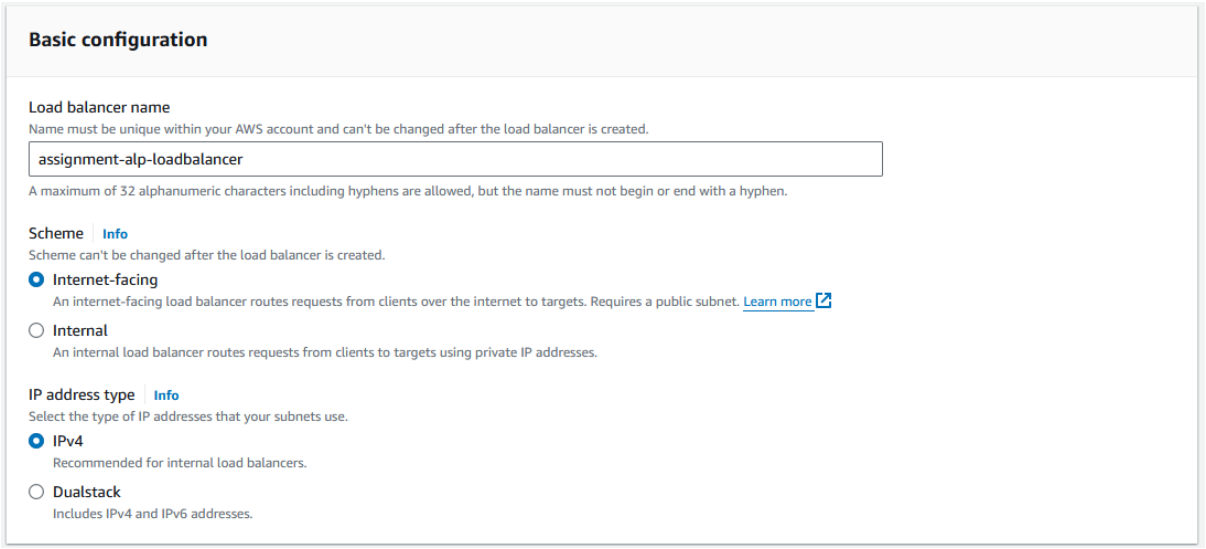
2. In Load Balancer Dashboard click on “Create load balancer”.



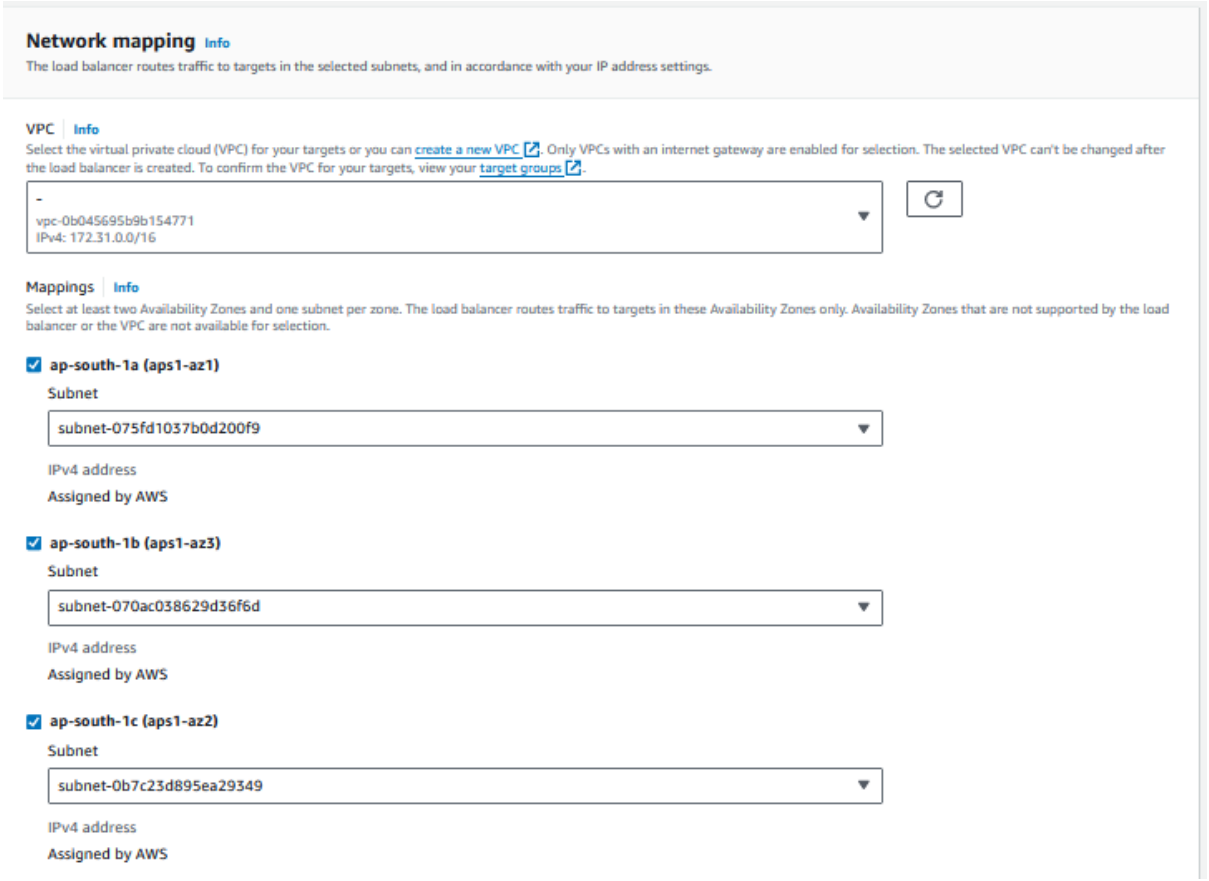
3. After that select Application Load Balancer in Load balancer types selection.



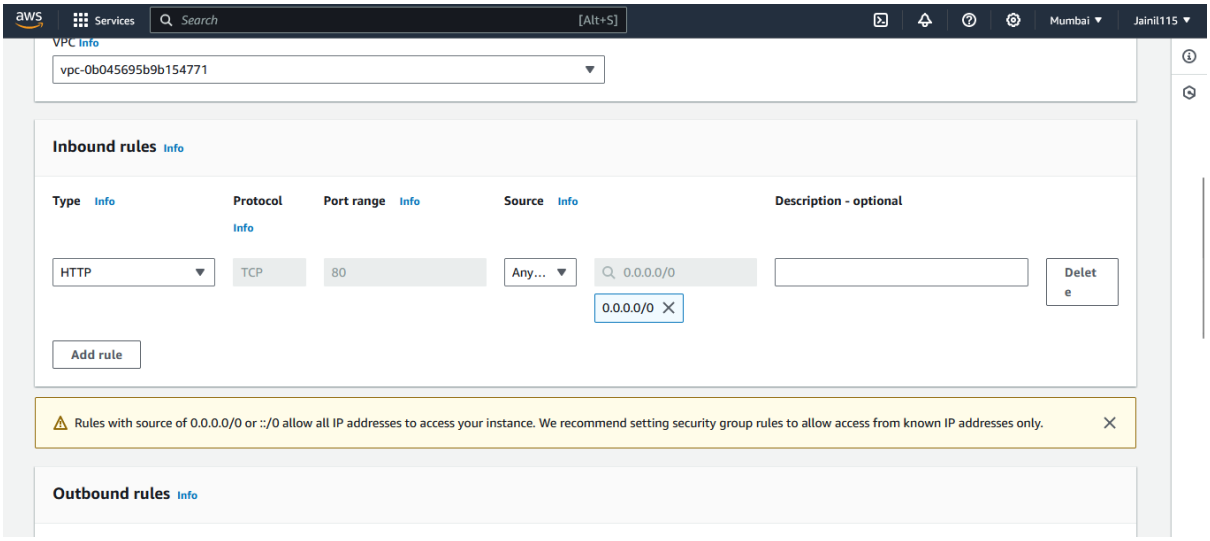
4. After that create Application Load Balancer Page will open, In that we need to enter name, keep the scheme internet facing, keep ip address type ipv4.



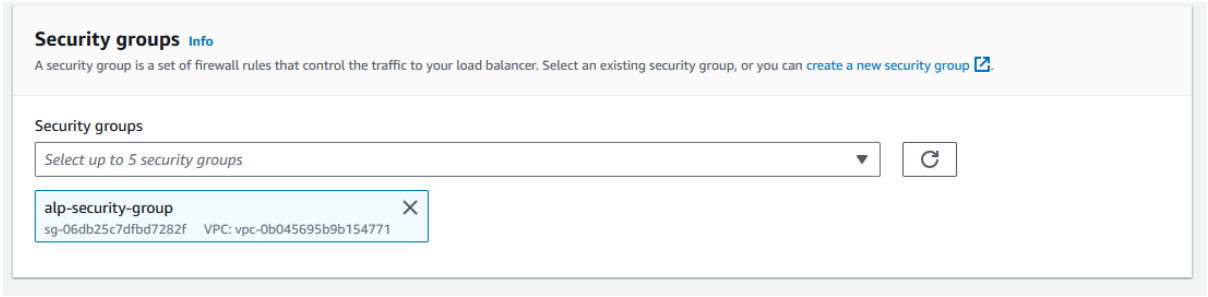
5. In Network Mapping keep VPC same, and select all availability zone,



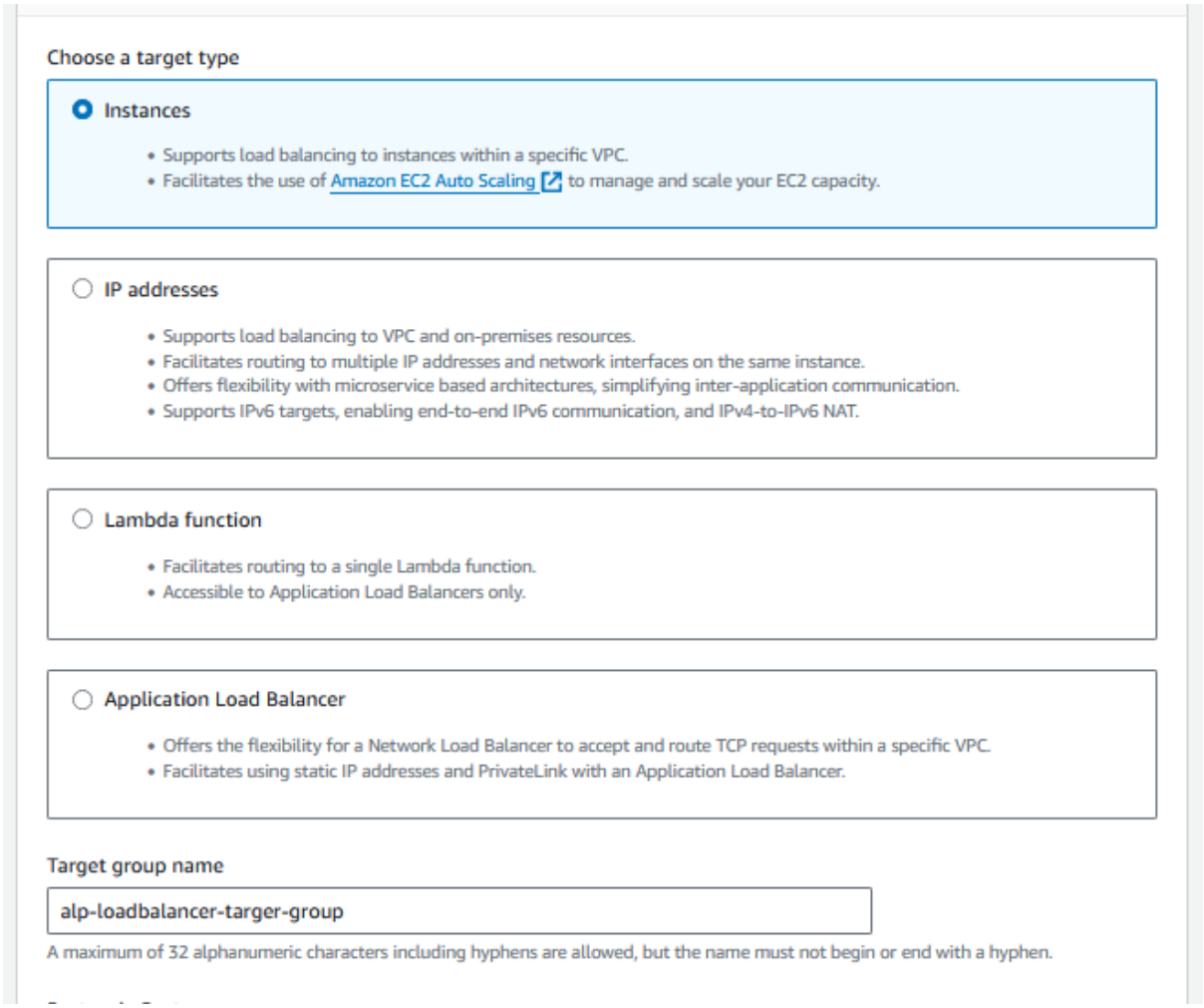
6. In security groups, click on link “create a new security group”, Then enter name “alp-security-group” and a description, then click add rule inside Inbound tab, then select Type HTTP and select source as any (0.0.0.0/0), keep outbound rules as it is (All Traffic), Finally click on “create security group” to create the security group.

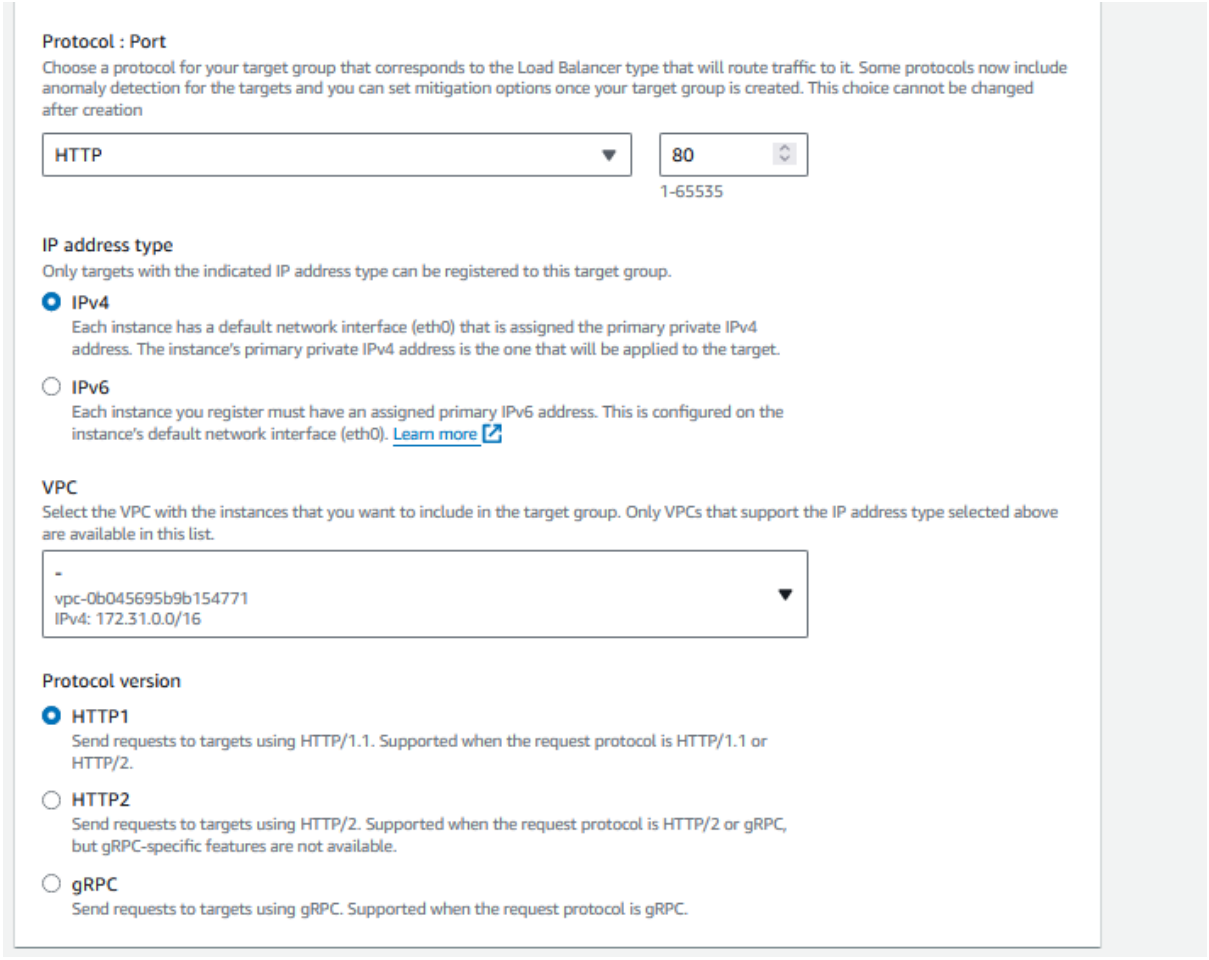


7. Now select only alp-security-group from the security group.

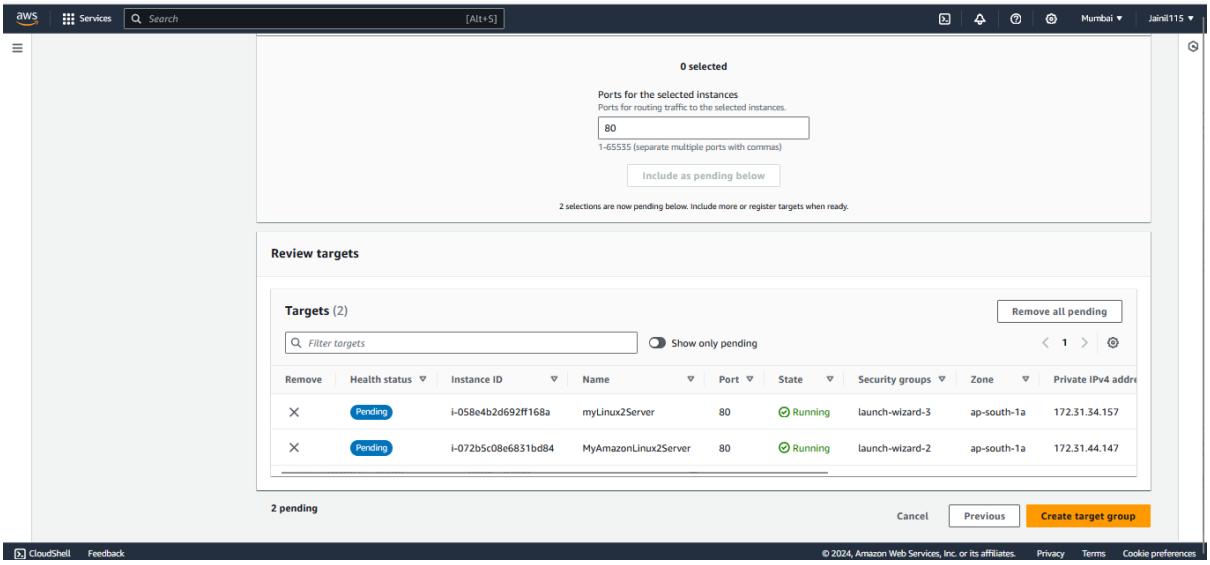


8. Then inside Listeners and Routing tab click on link “create target group”, In this choose type Instances, then enter target group name “alp-loadbalancer-targer-group”. Keep Protocol HTTP and port 80, And then click on next.

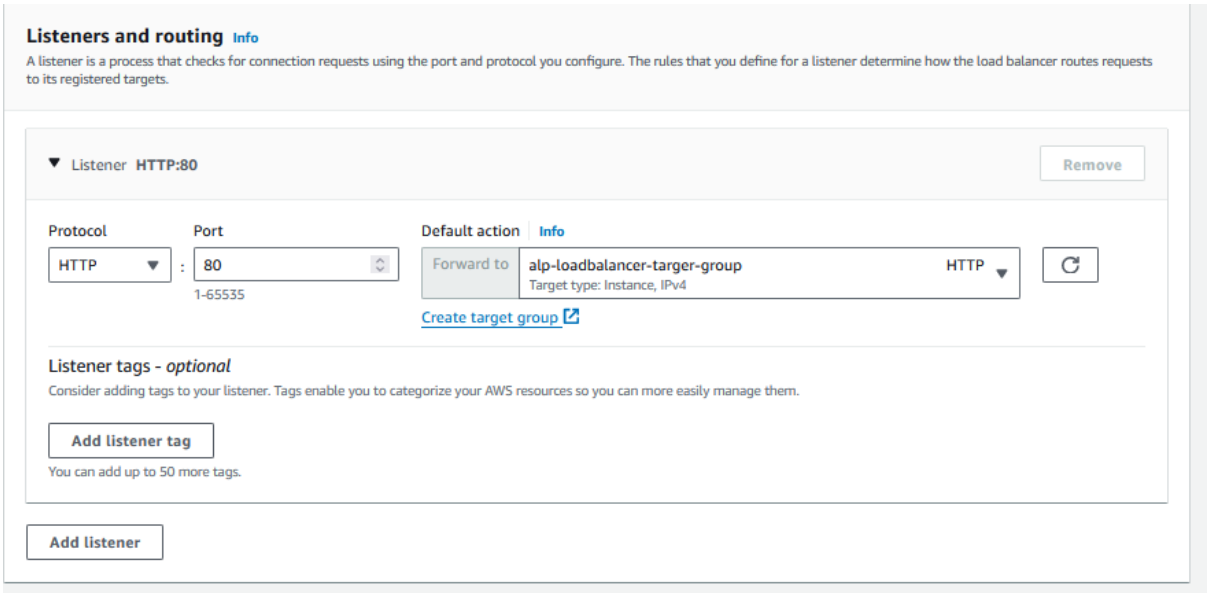




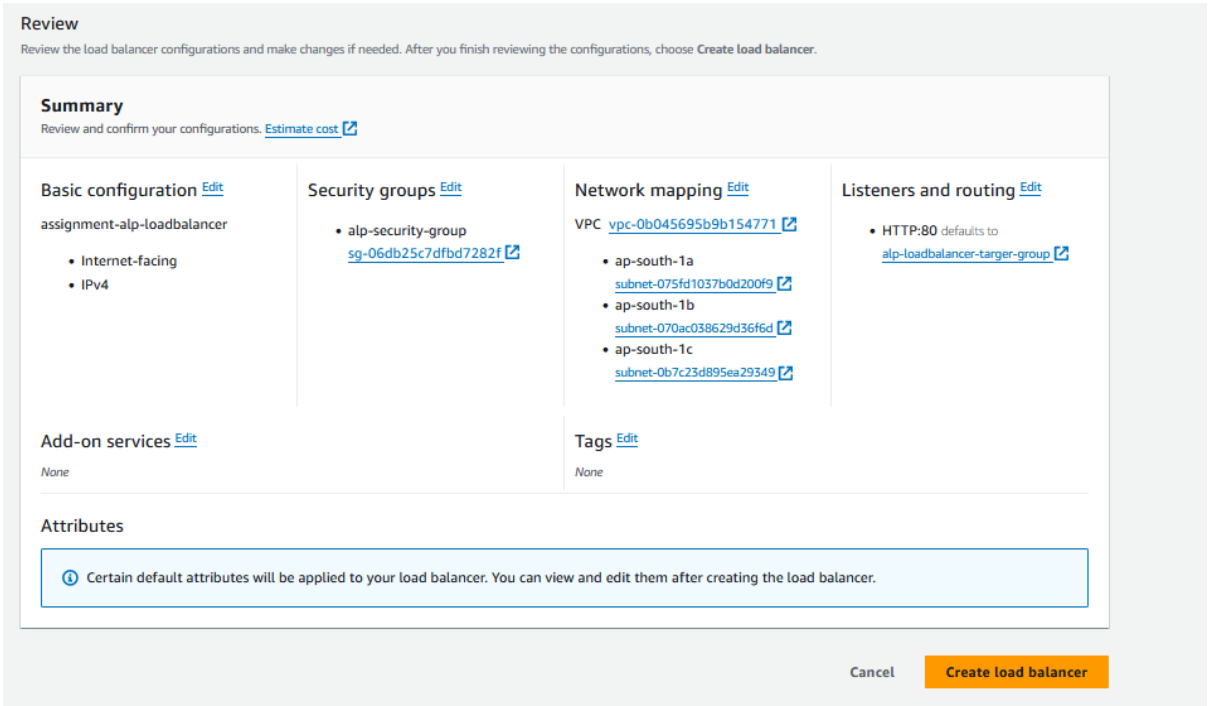
9. Now select both instances (myLinux2Server and MyAmazonLinux2Server), then click on pending below and then click on create target group.



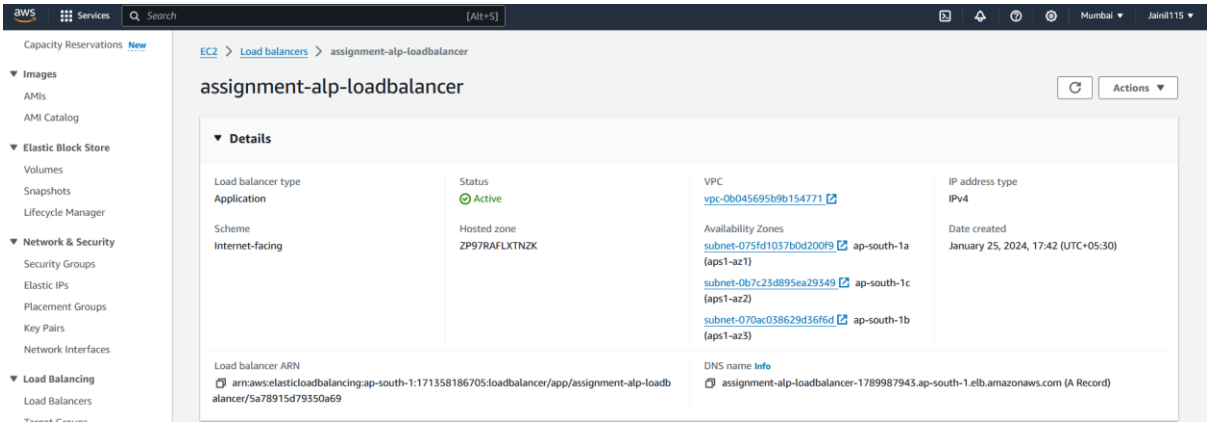
10. Now select “alp-loadbalancer-targer-group” inside Listeners and routing.



11. Finally click on “Create Load Balancer” to create Load Balancer.



12. To verify that the load balancer is working go to Load Balancer List and select the “assignment-alp-loadbalancer”, Now you will be able to see the DNS name: “assignment-alp-loadbalancer-1789987943.ap-south-1.elb.amazonaws.com”.



13. Now enter the DNS name in two different browser tabs. Both webpage after some refreshing should have different IP Addresses: