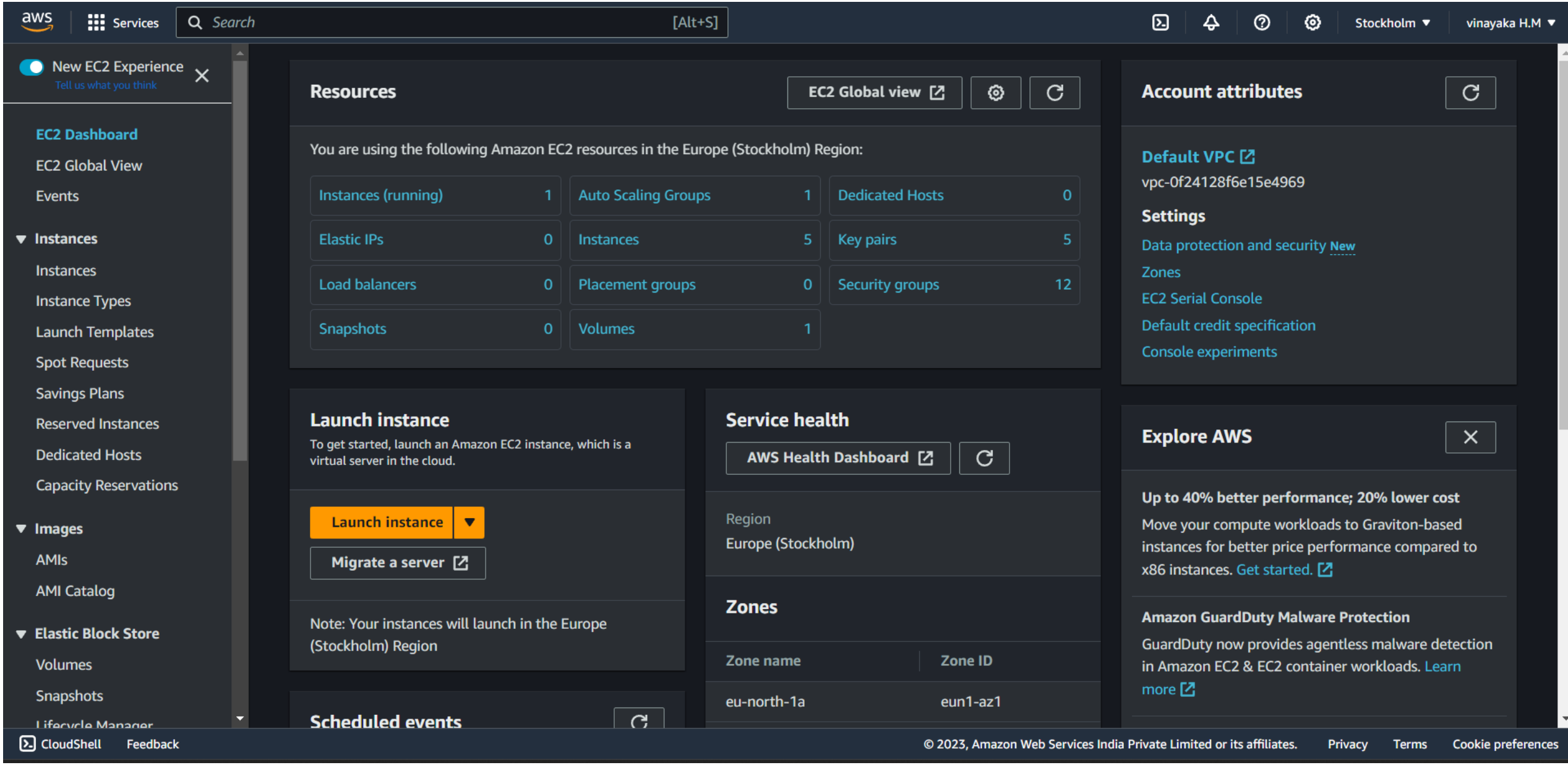
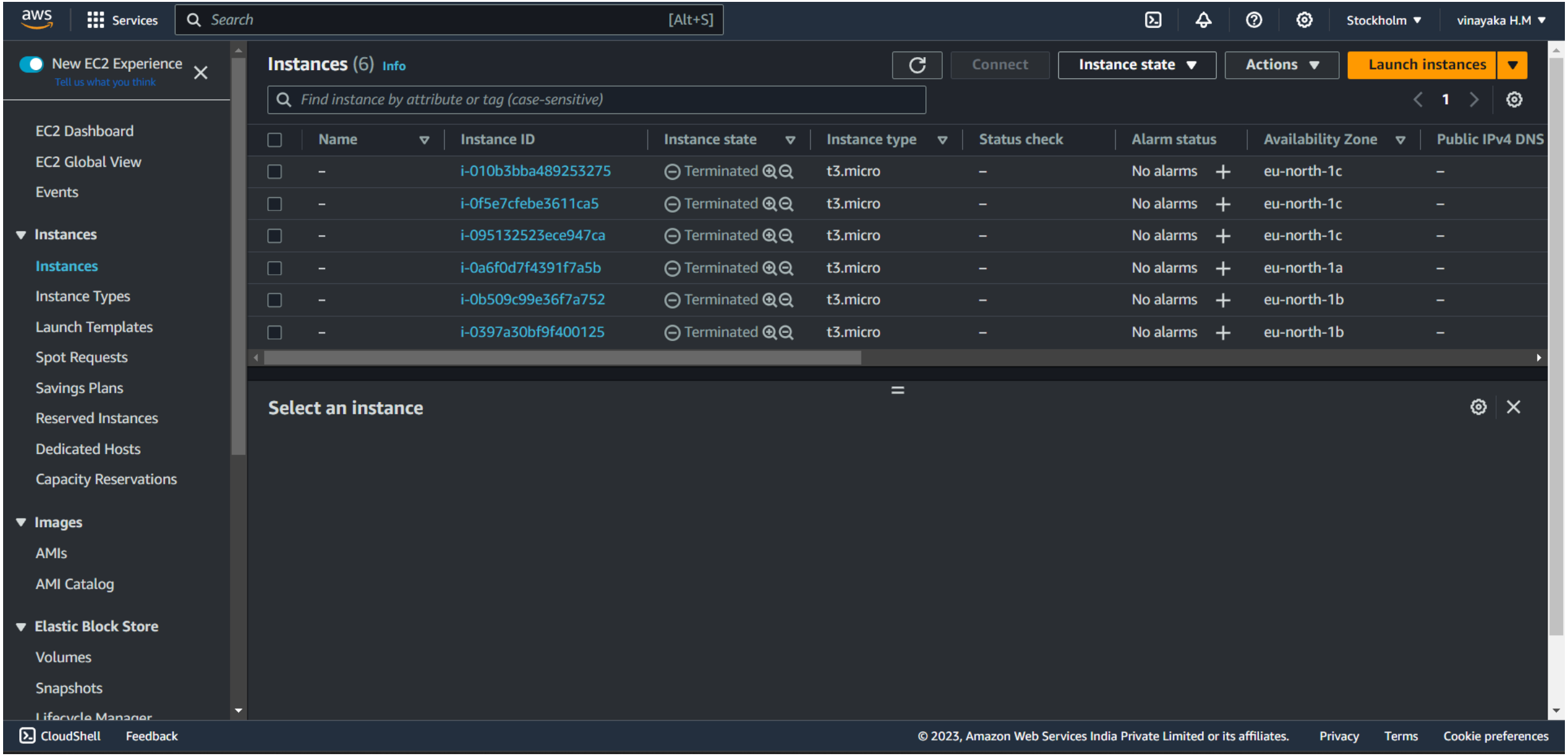
TASK 7: Creating Loadbalancer and checking how it works.

STEP 1: Login to the AWS management console

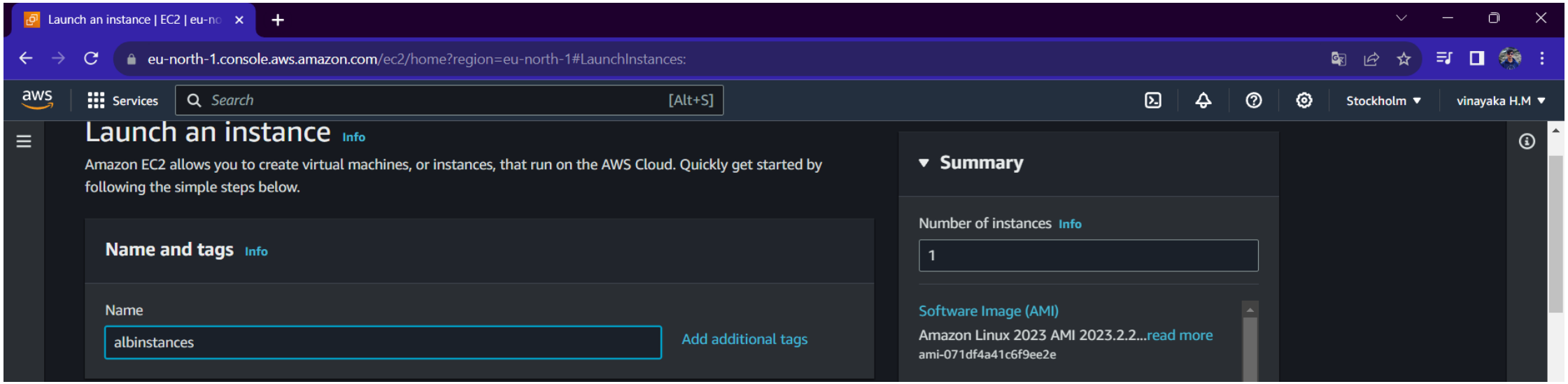


STEP 2: To check the Load balanacer working atleast we need 2-3 instances, here we are creating 3 instances at a time with required configuration.

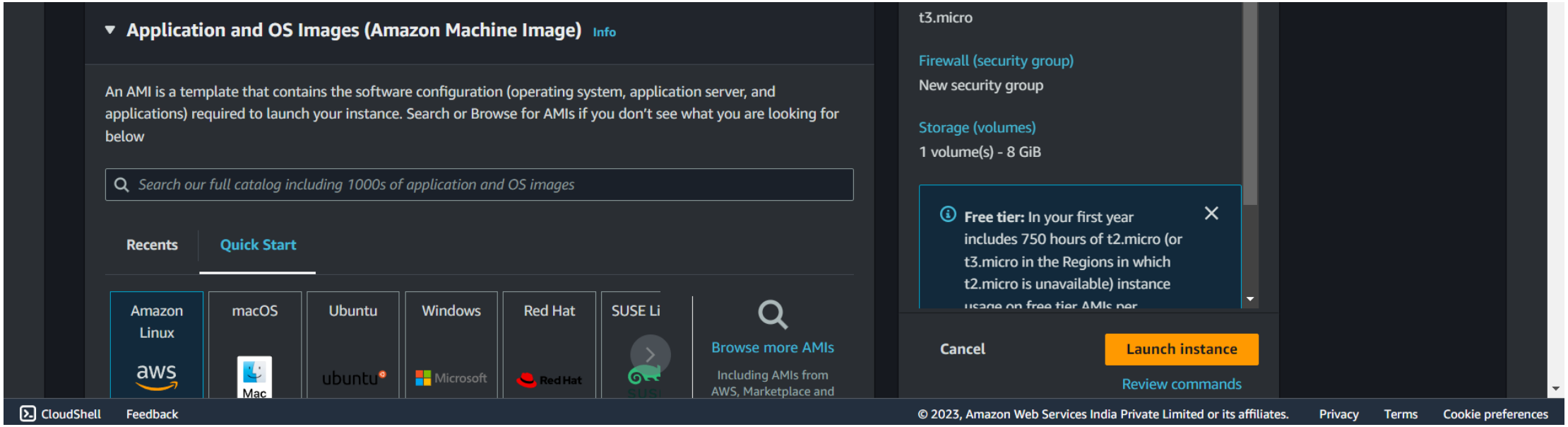
1. Search the service called EC2 it will redirect to EC2 dashboard and click on Launch instances



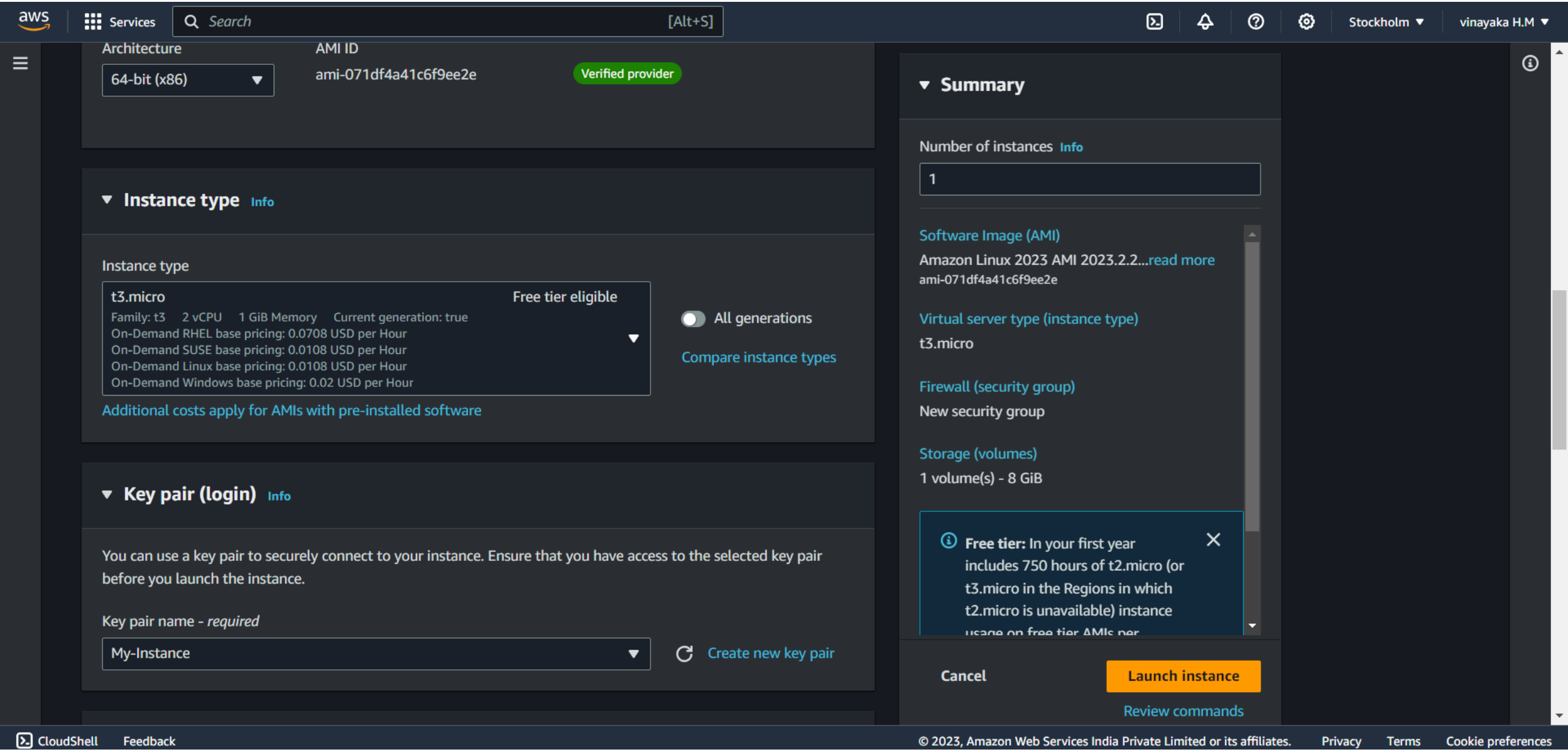
2. Provide proper name for instances.



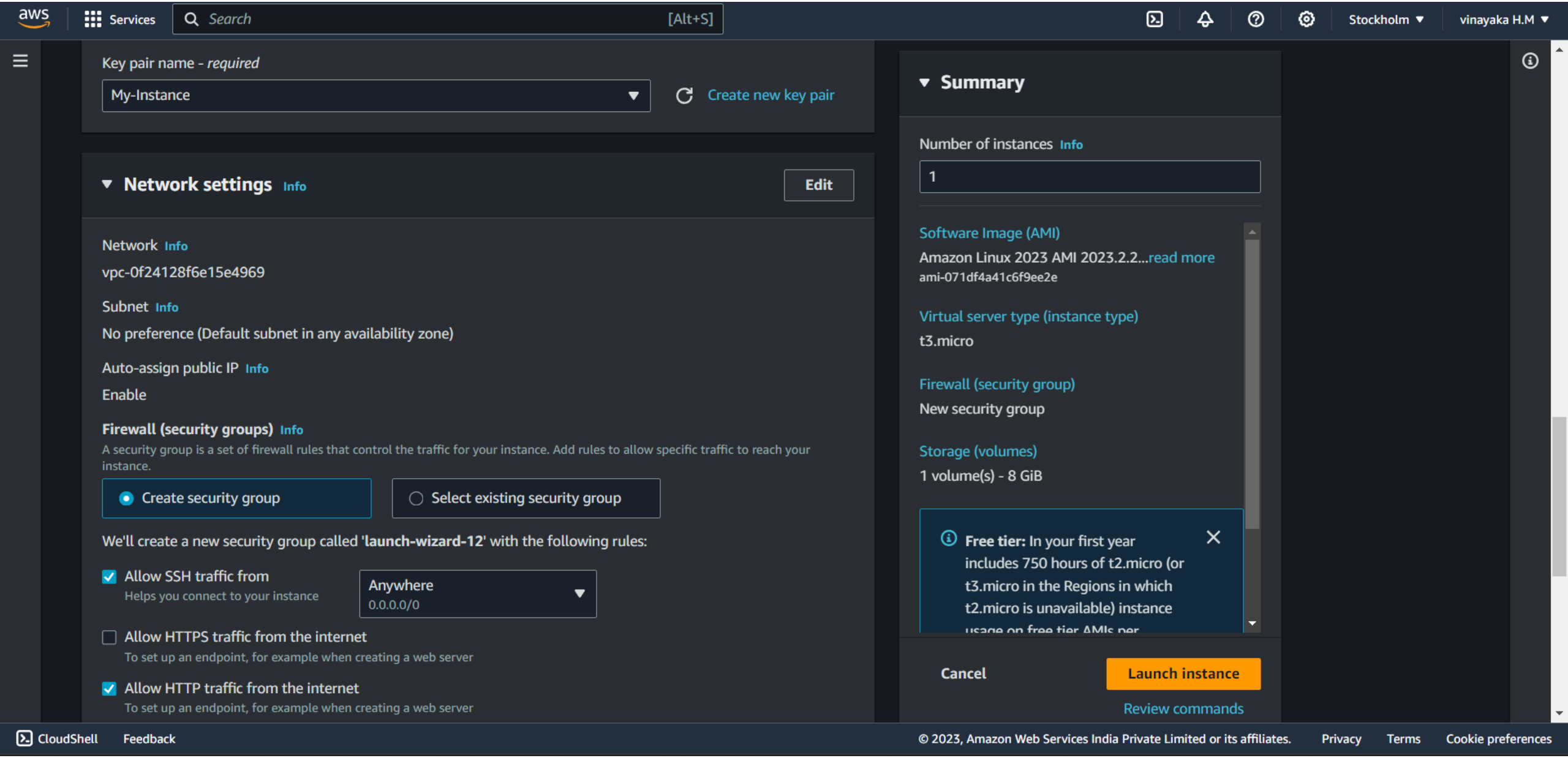
3. Choose required AMI(Here we are choosing Amazon Linux).and free tier eligible



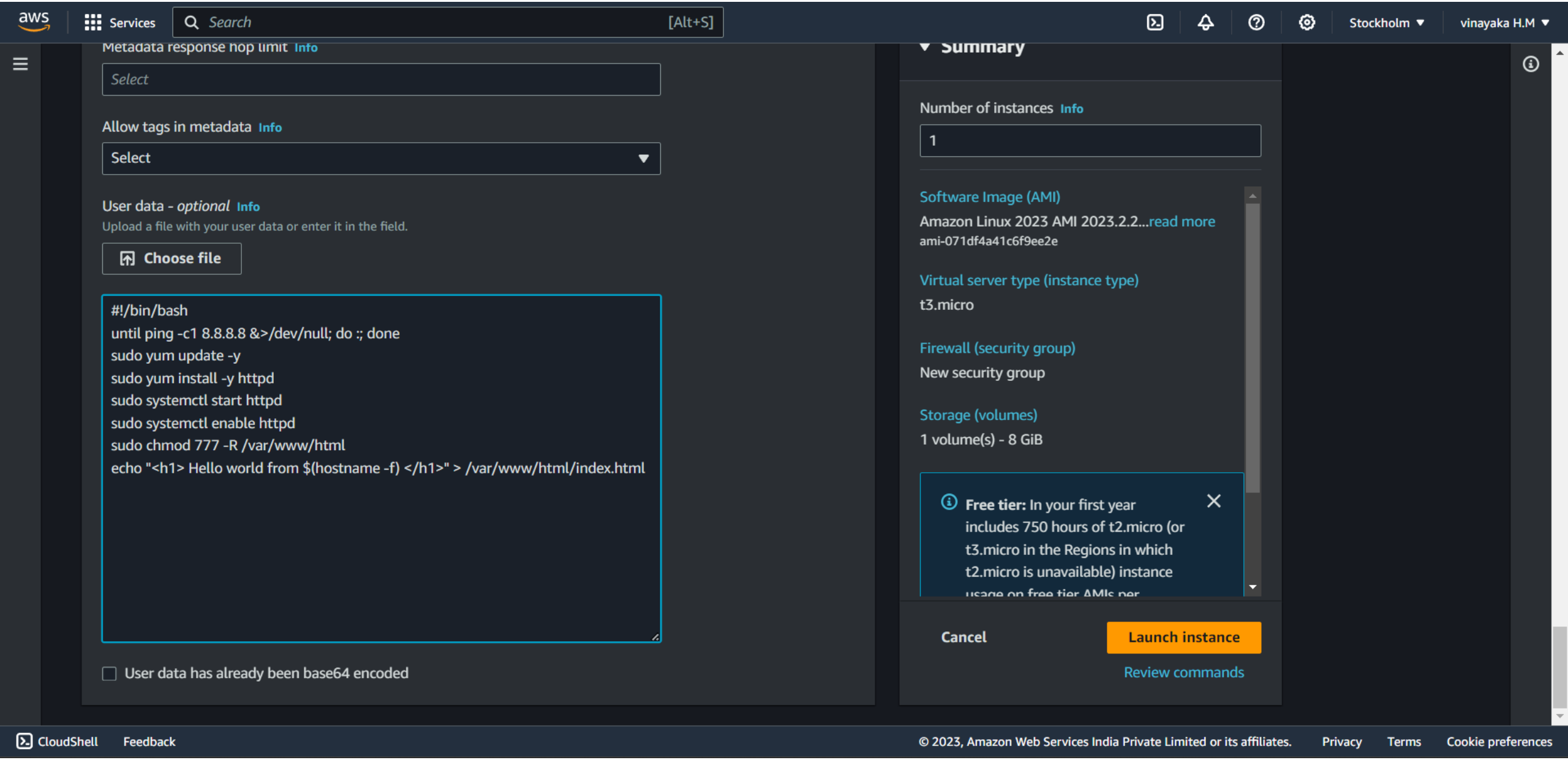
4. Choose Required instance type and keypair.



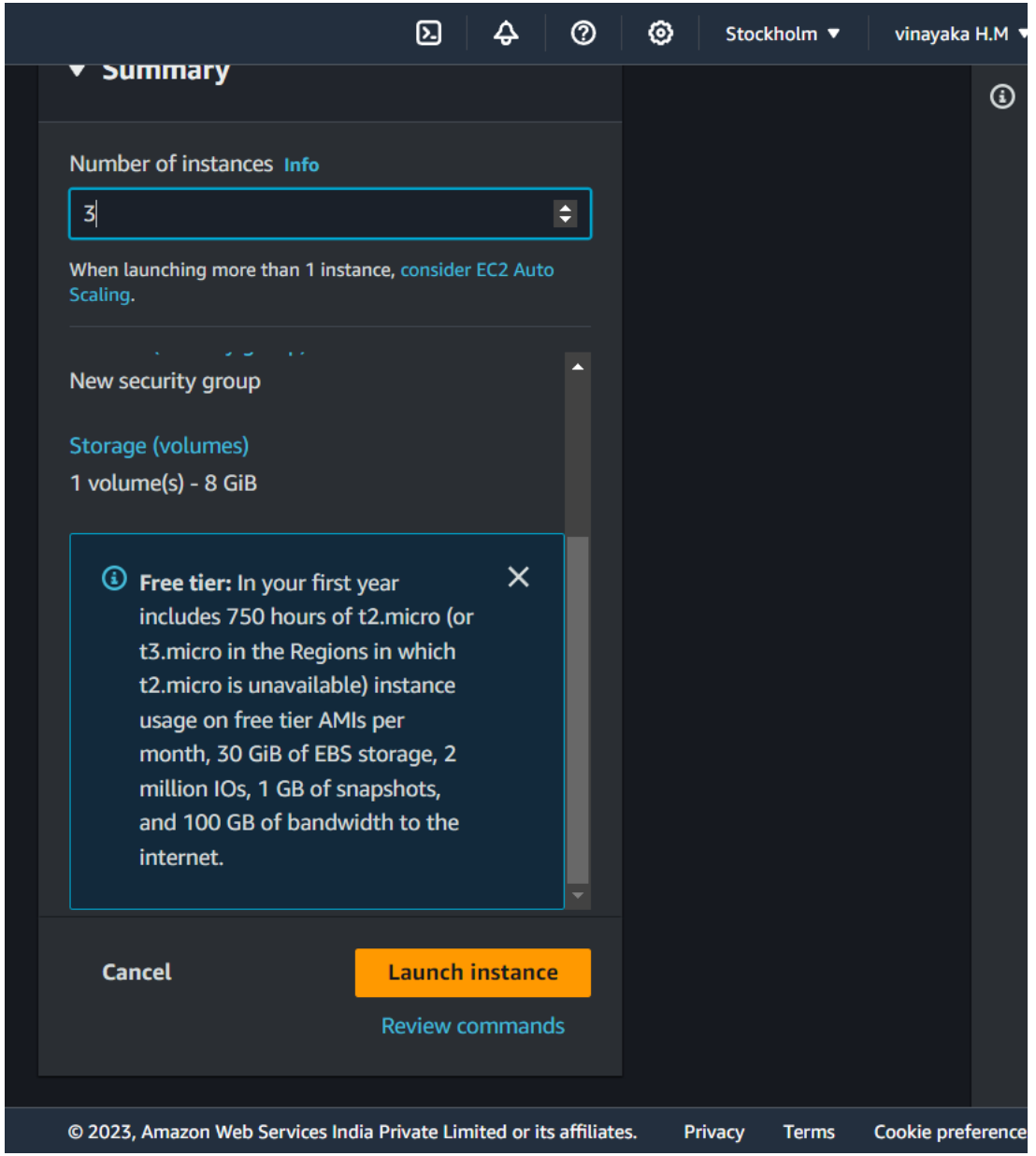
5. In network setting we can allow SSH and HTTP because we are hosting sample web server for that we need HTTP traffic.



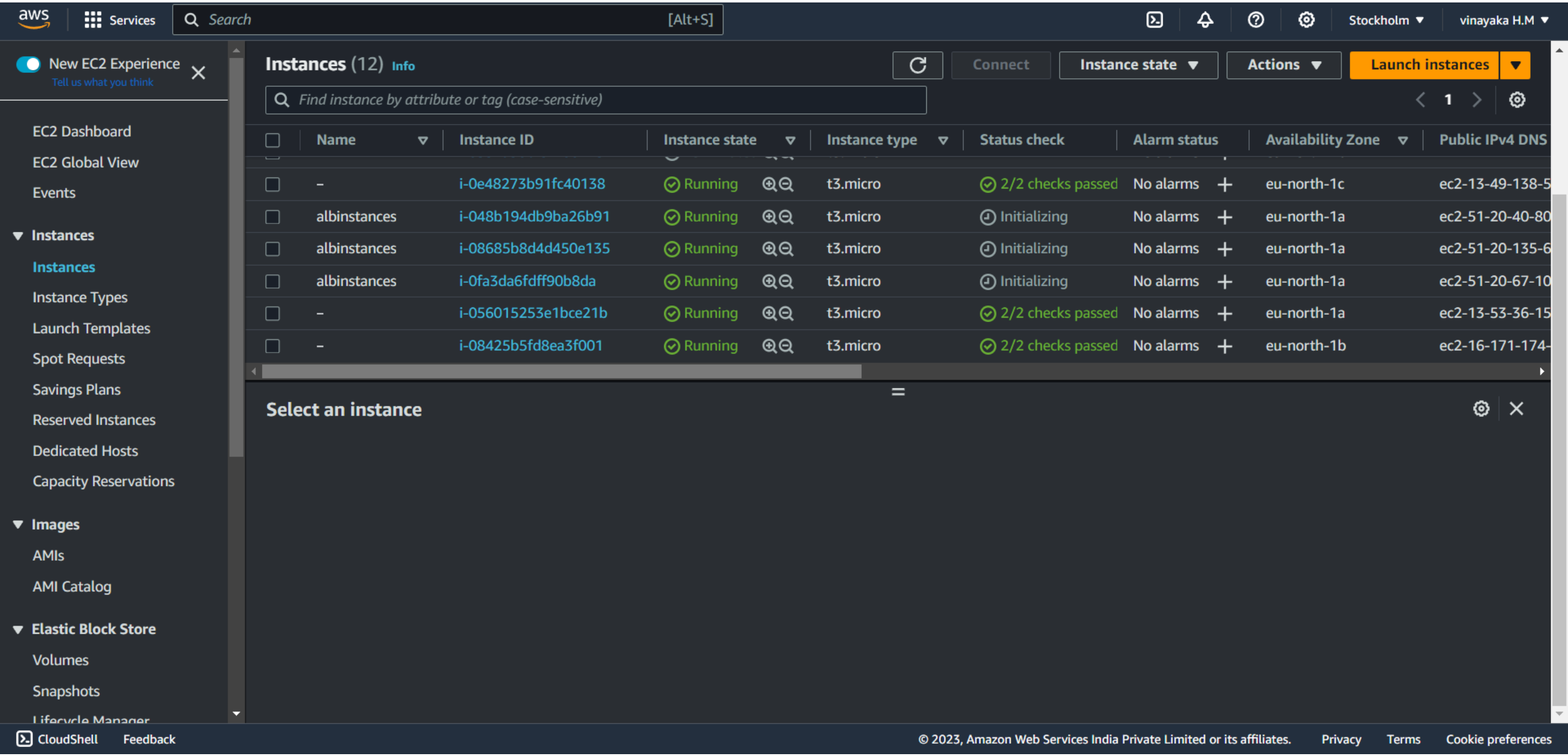
6. As we are hosting sample web server in instance we should enter userdate add it under Advance details



7. Enter the number of required instances and then click on Launch instances

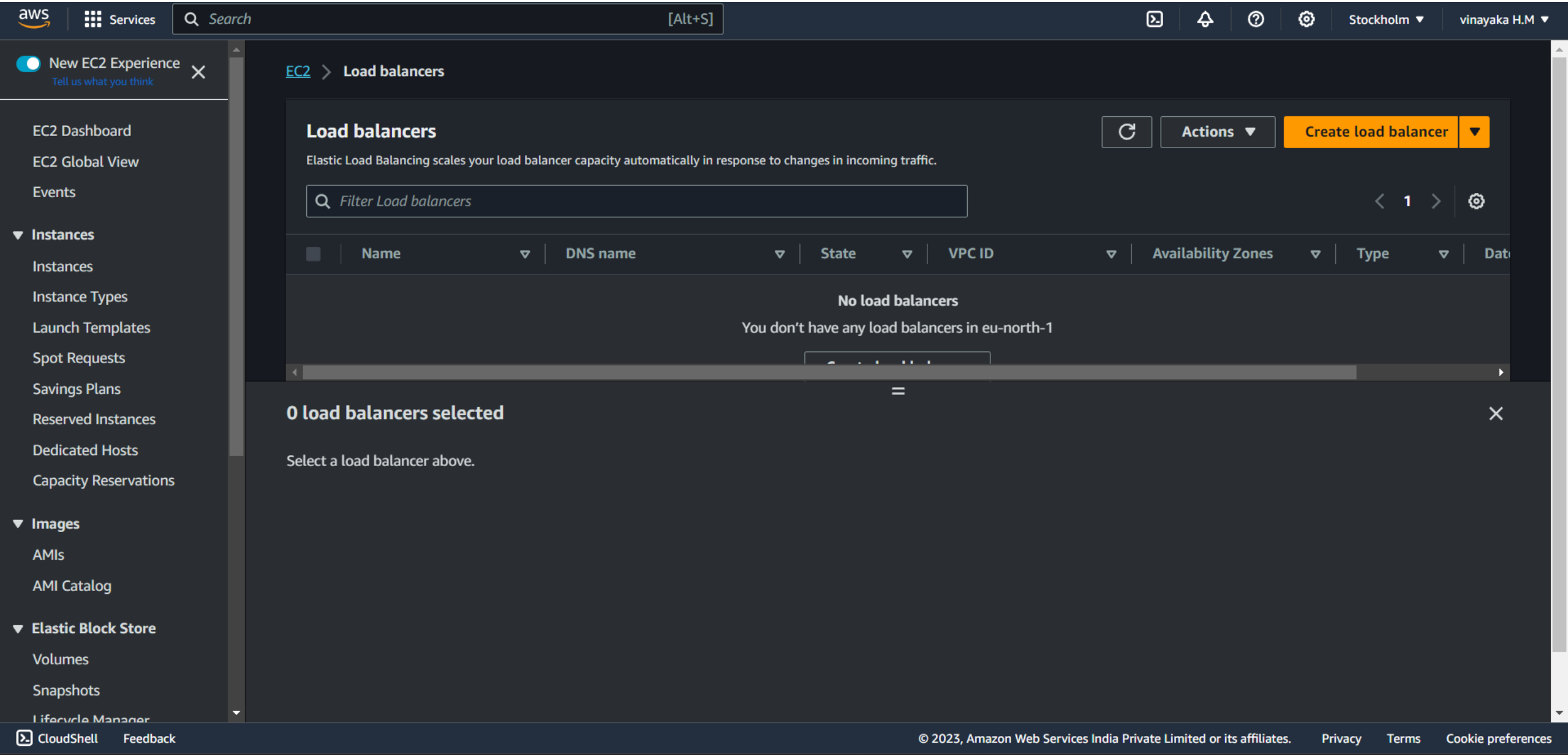


8. Now you have successfully luanched three instances you can view it under Ec2 dashboard

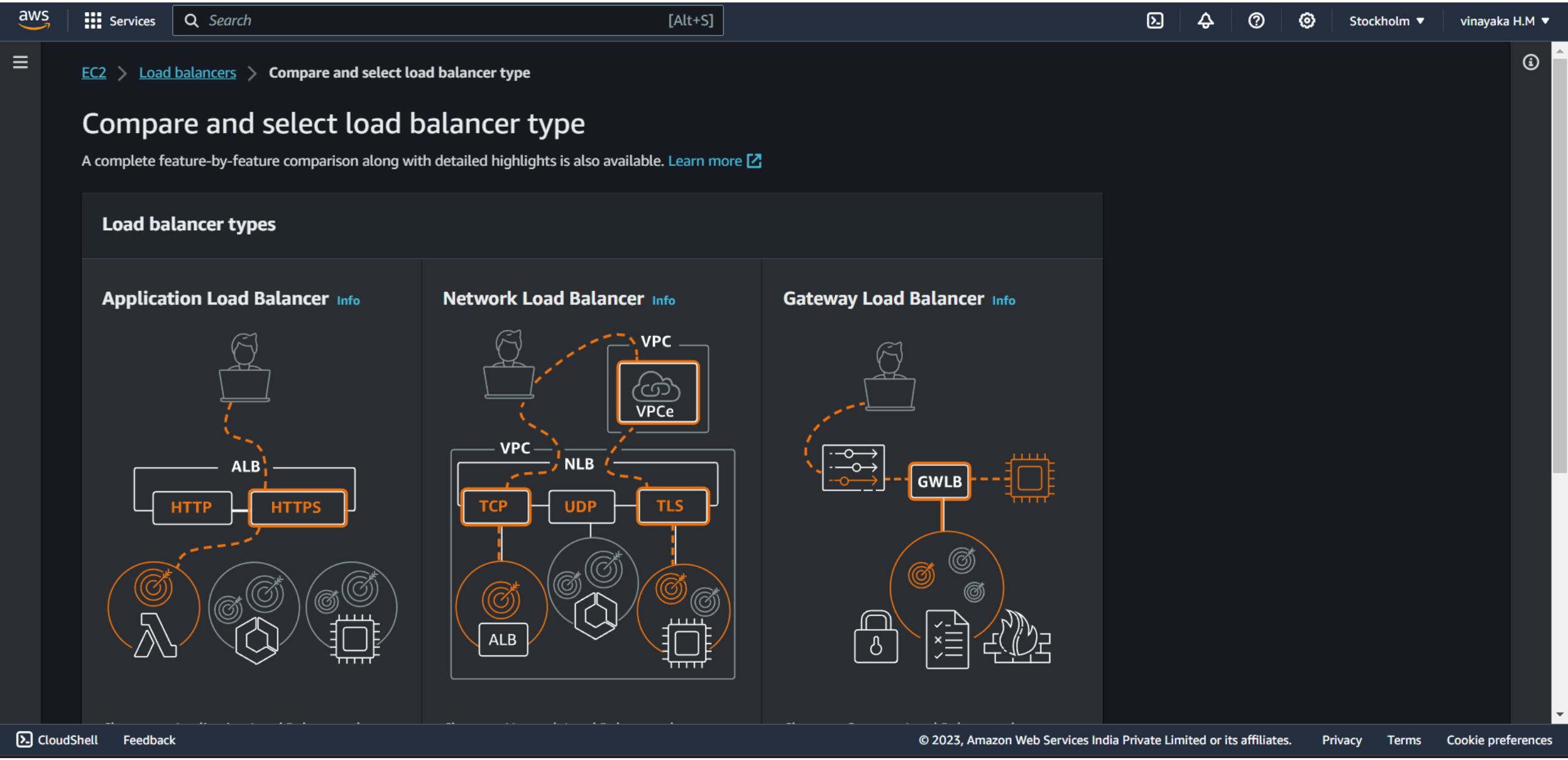


STEP 3: Once you launched instances check web application opening or not with their public IP address.

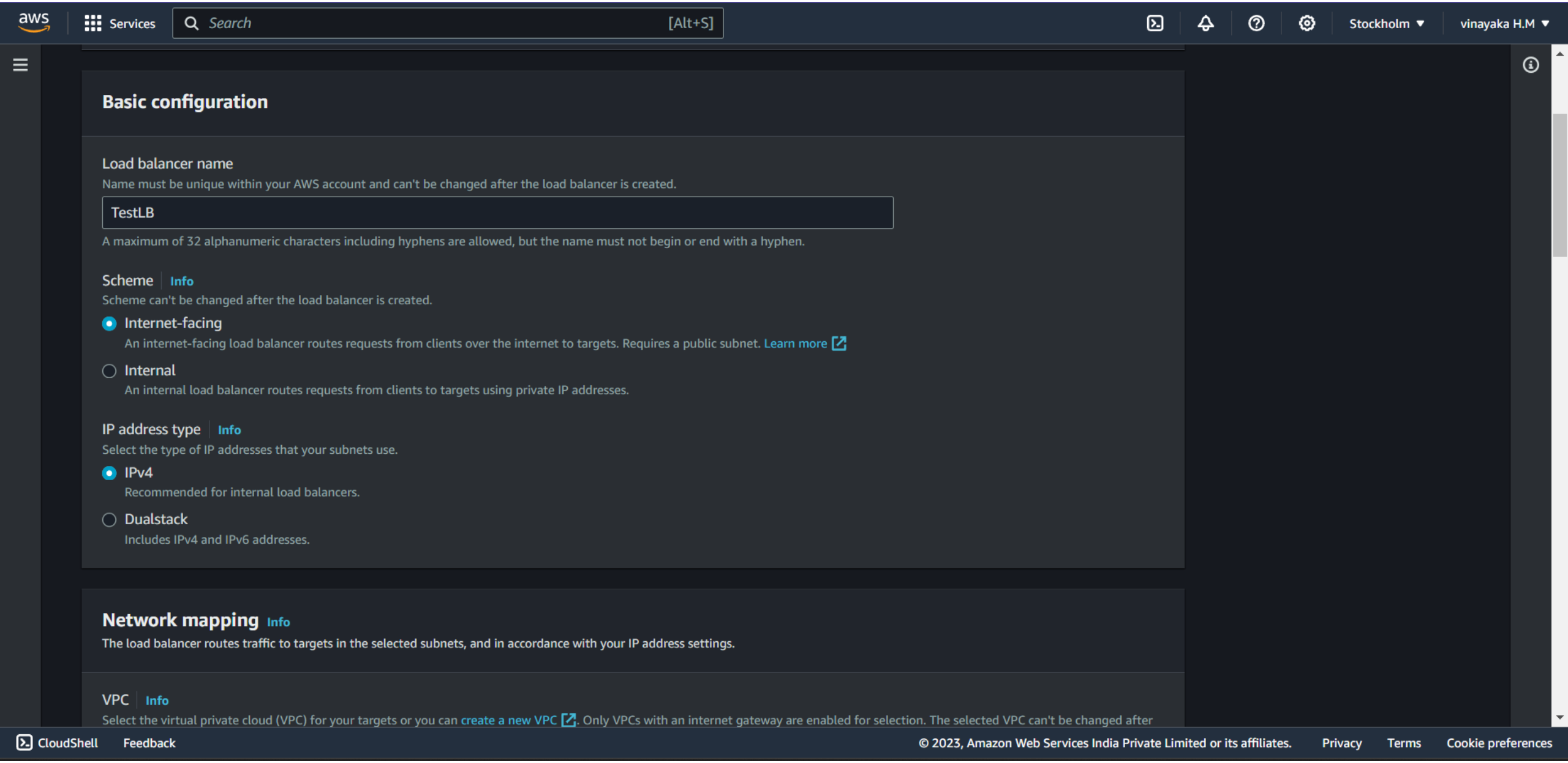
STEP 4: Now start creating Application load balancer(ALB).Search service called Load balancer and click on create load balancer



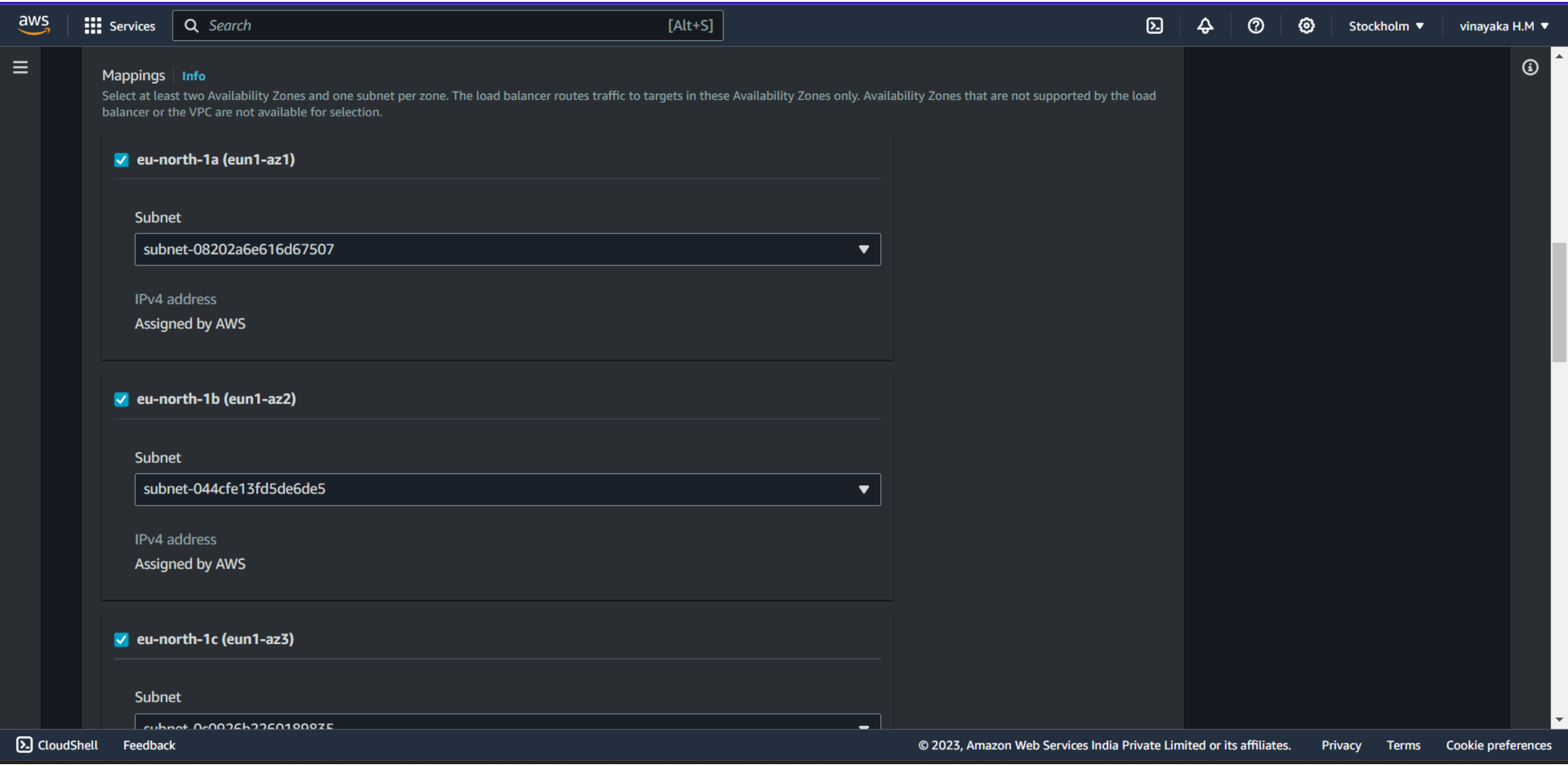
STEP 5: Once you click on the Create load balancer it will redirect to compare and select load balancer type,choose application load balancer.



STEP 6: After clicking create application load balancer we need put required basic cofiguration.Provide proper load balancer name,enable internet-facing under scheme , use IPv4 IP address type.

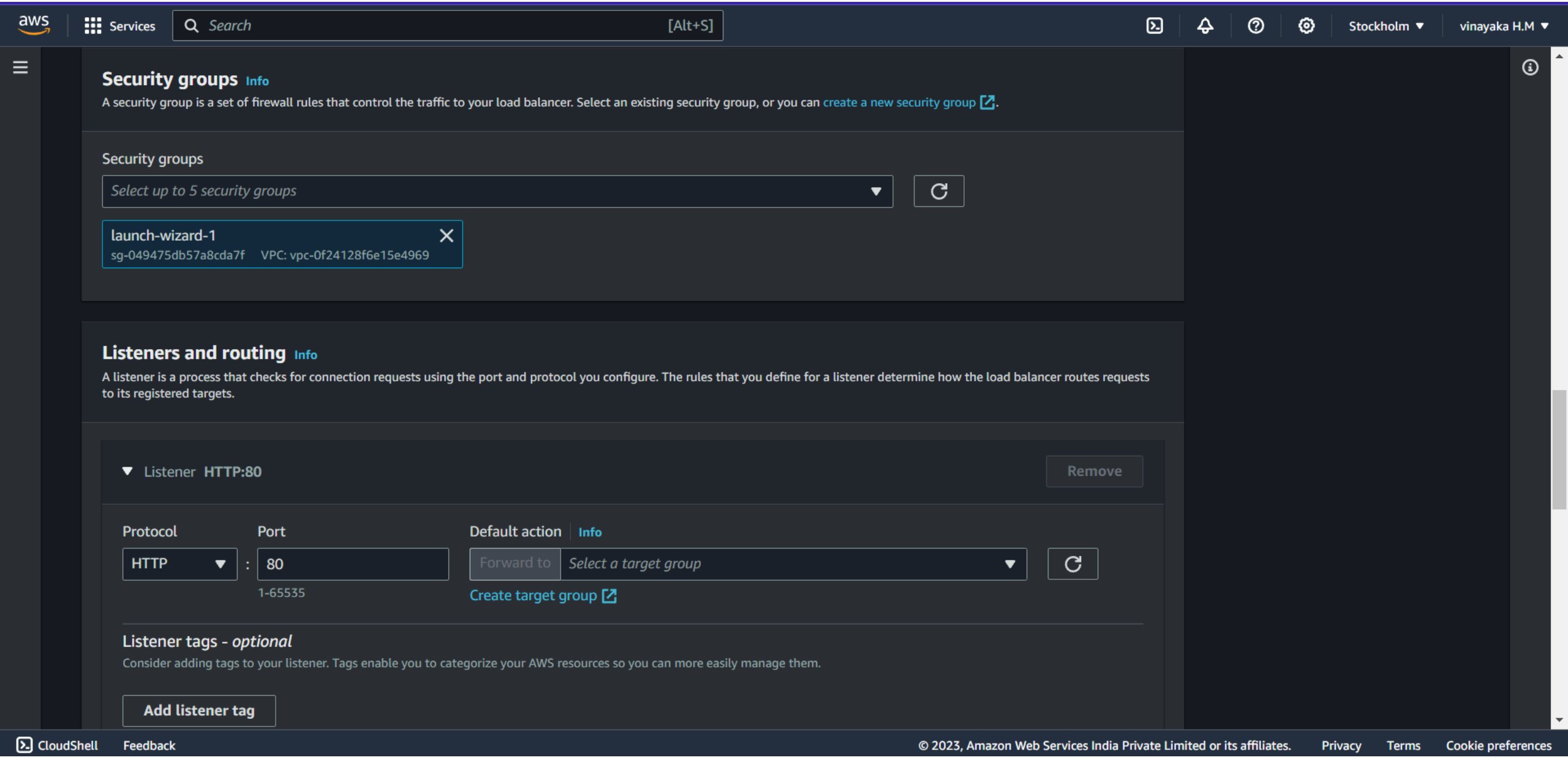


STEP 7: Under Network mappings,keep default VPC and select atleast 3 AZs because we launched 3 instances.

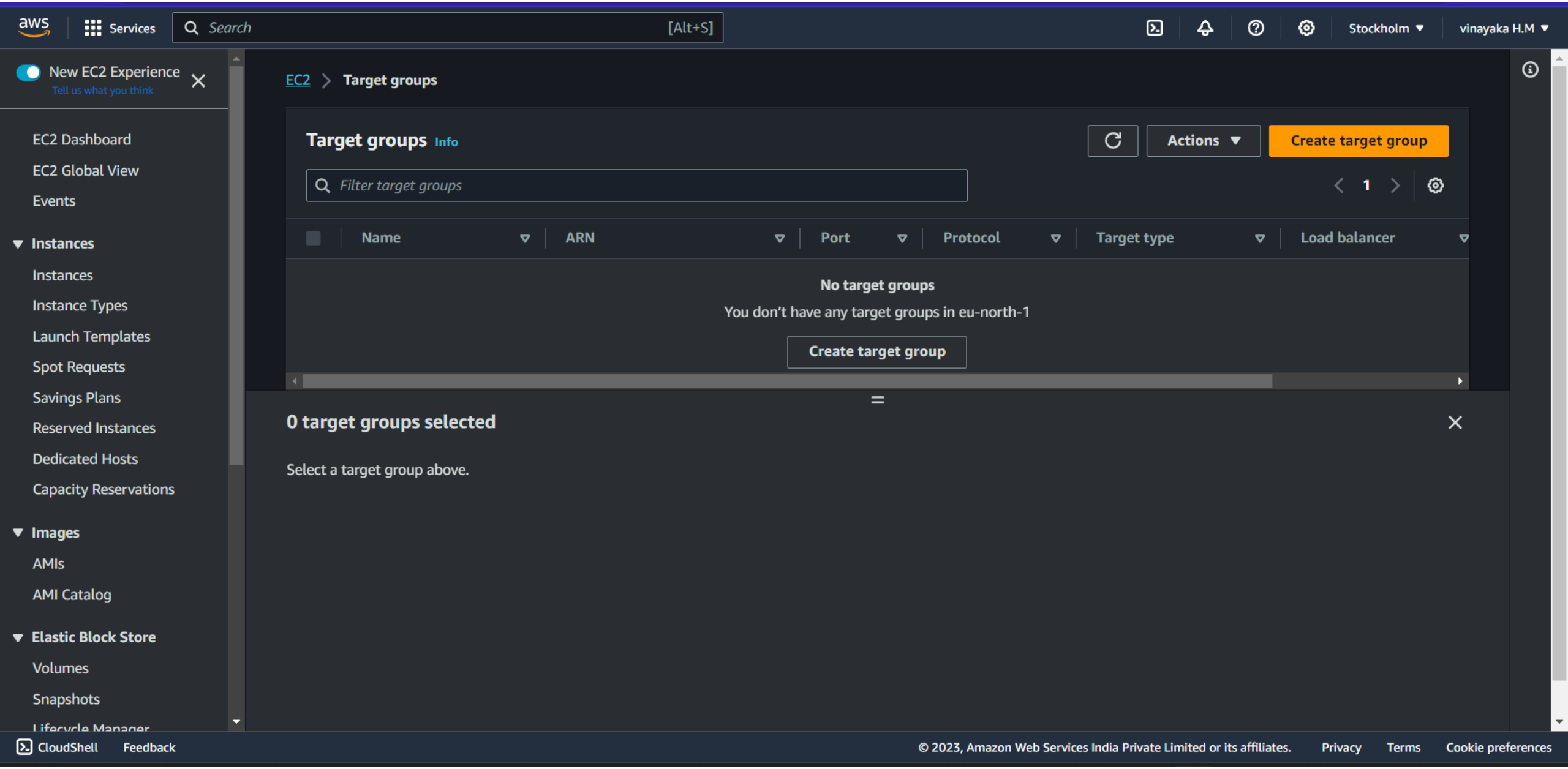


STEP8: Select Security group which you used for instances for Load balancer

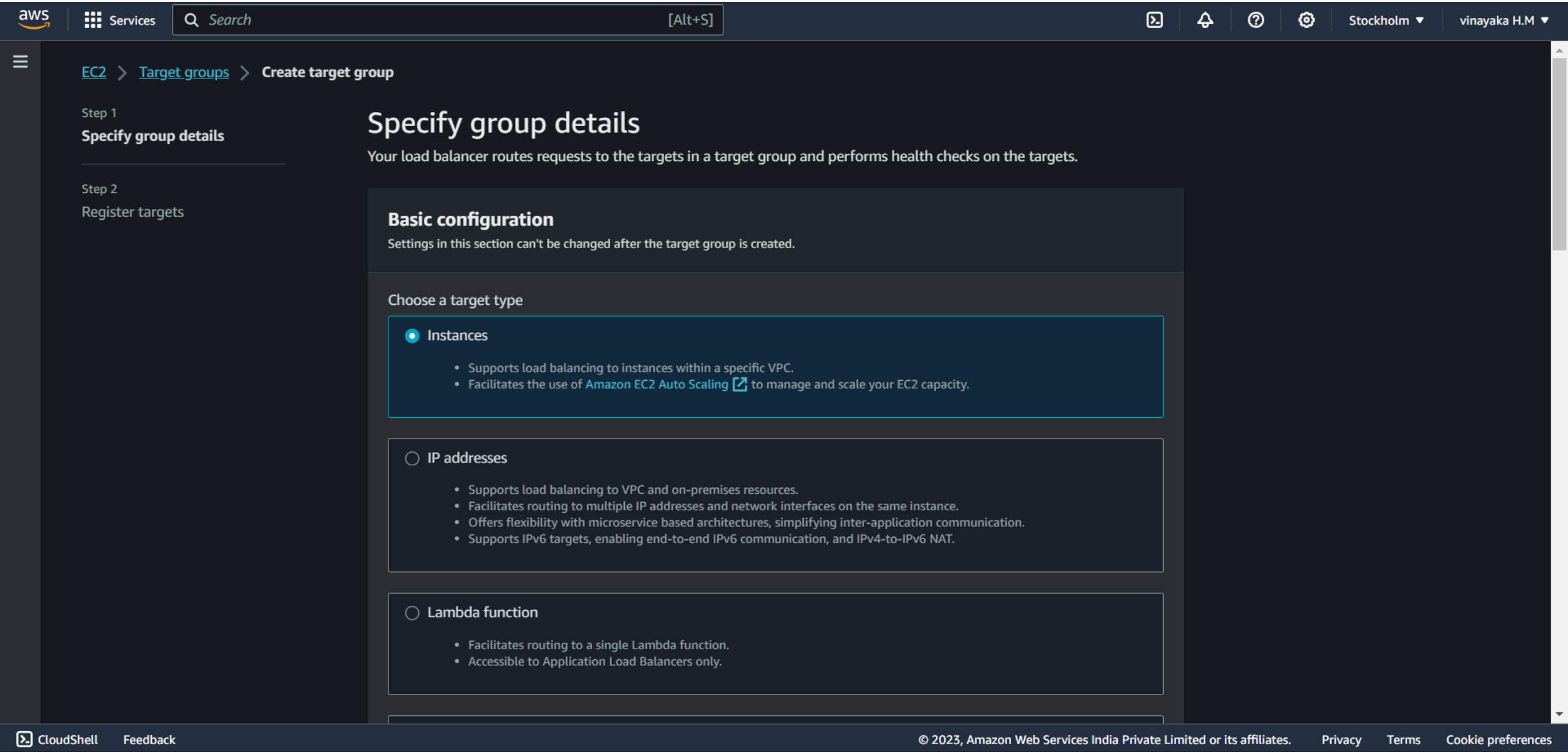
STEP9: Under listeners and routing we need to select target group,click on the create target group.



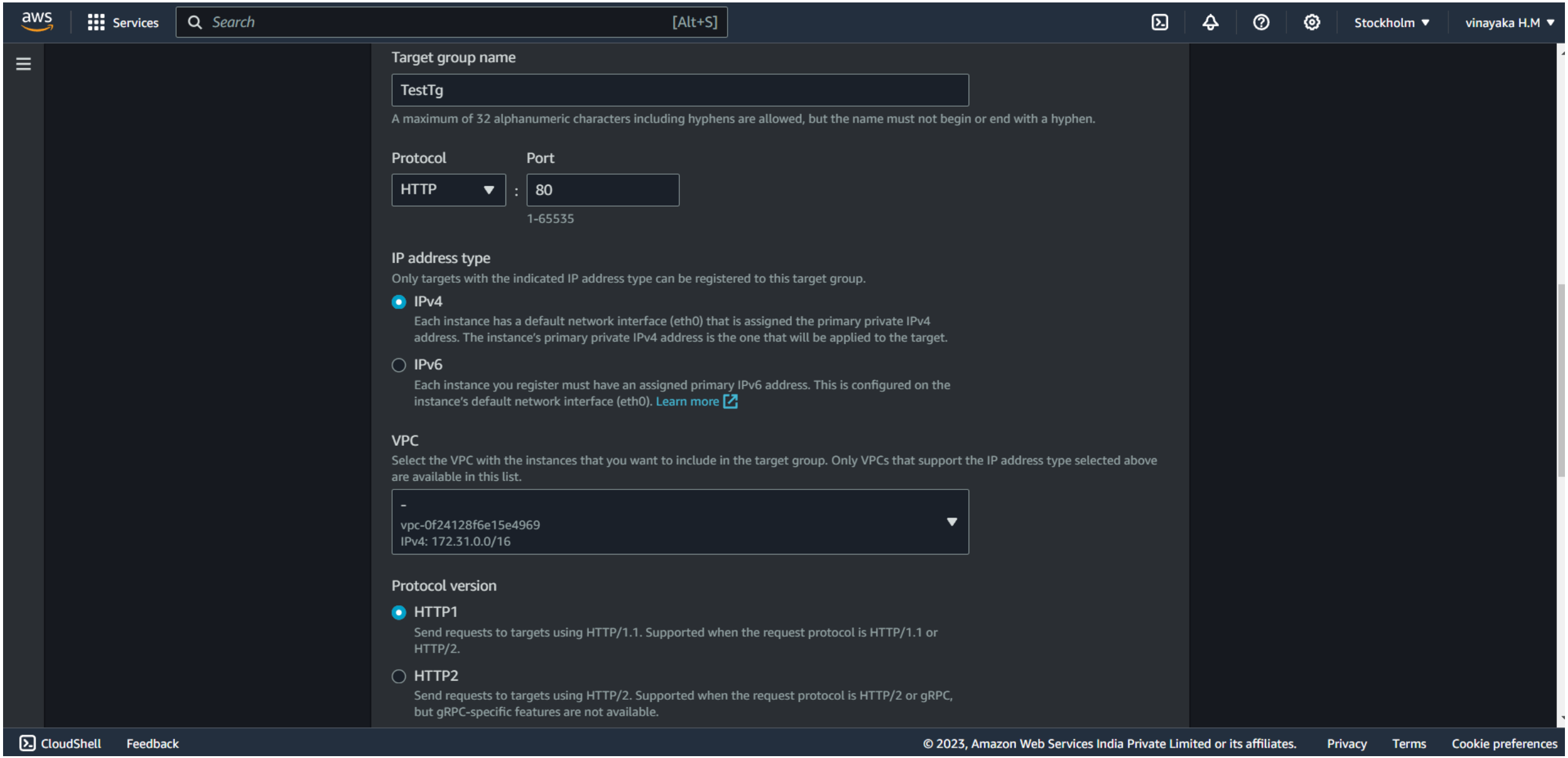
STEP 10: Once you click on the target group you will redirect to create tar



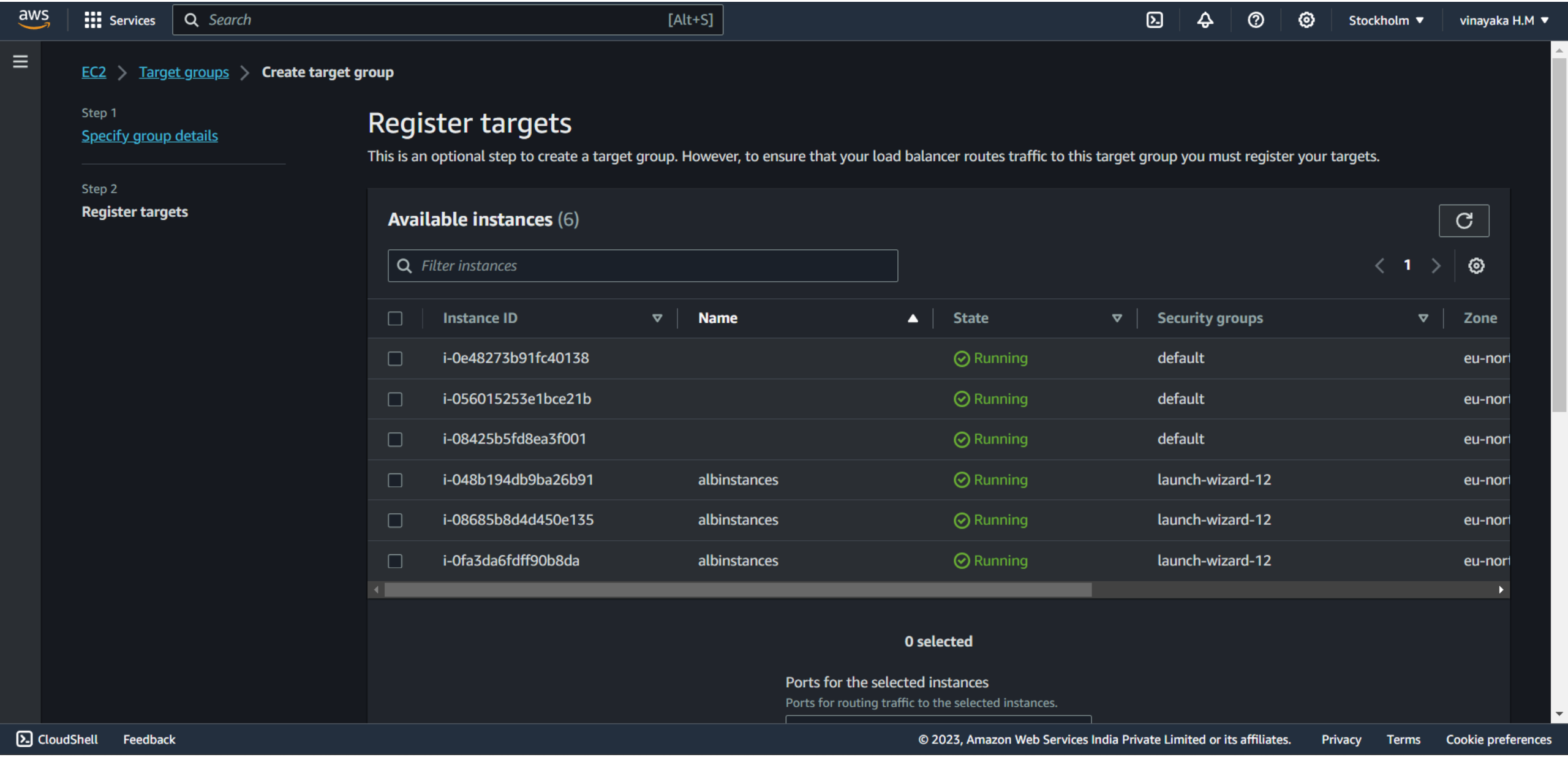
STEP11: Once you click on the create target group need to specify group details,choose target type as instances.



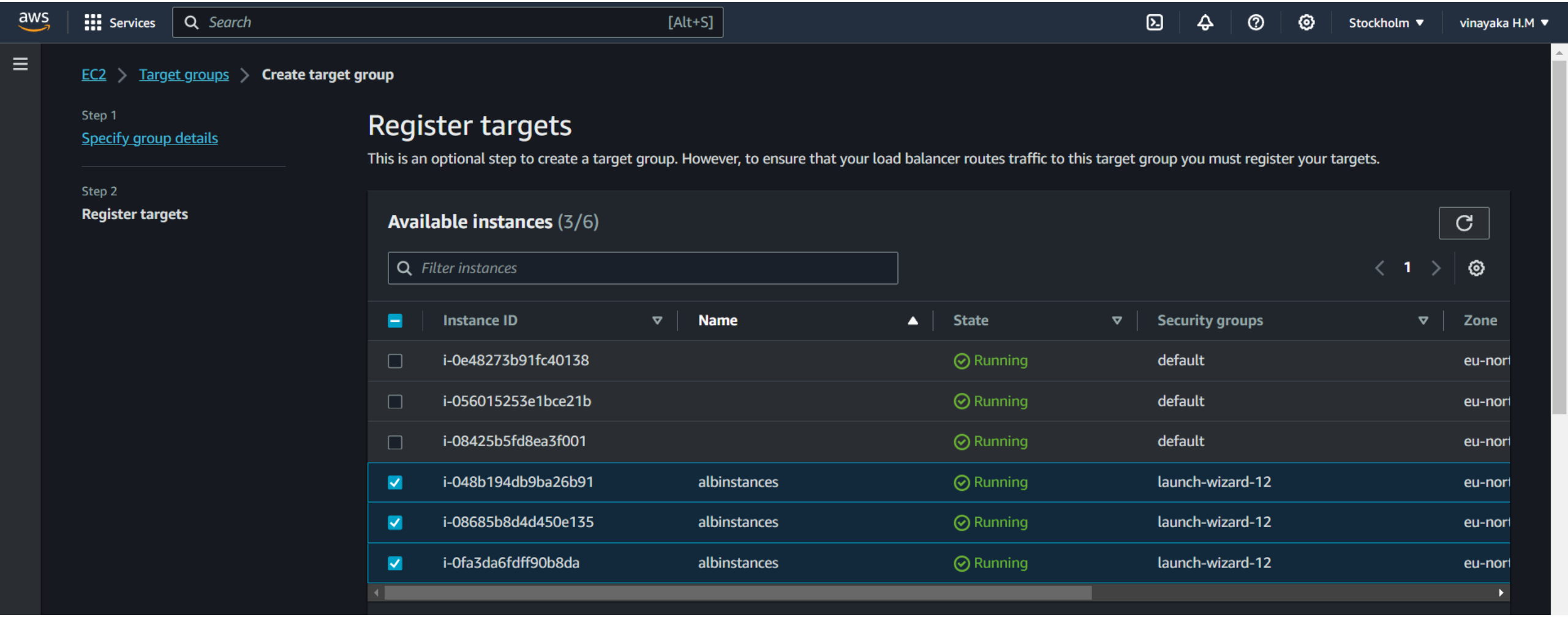
STEP12: Provide proper name fot target group and keep remaining all default and then click on next.



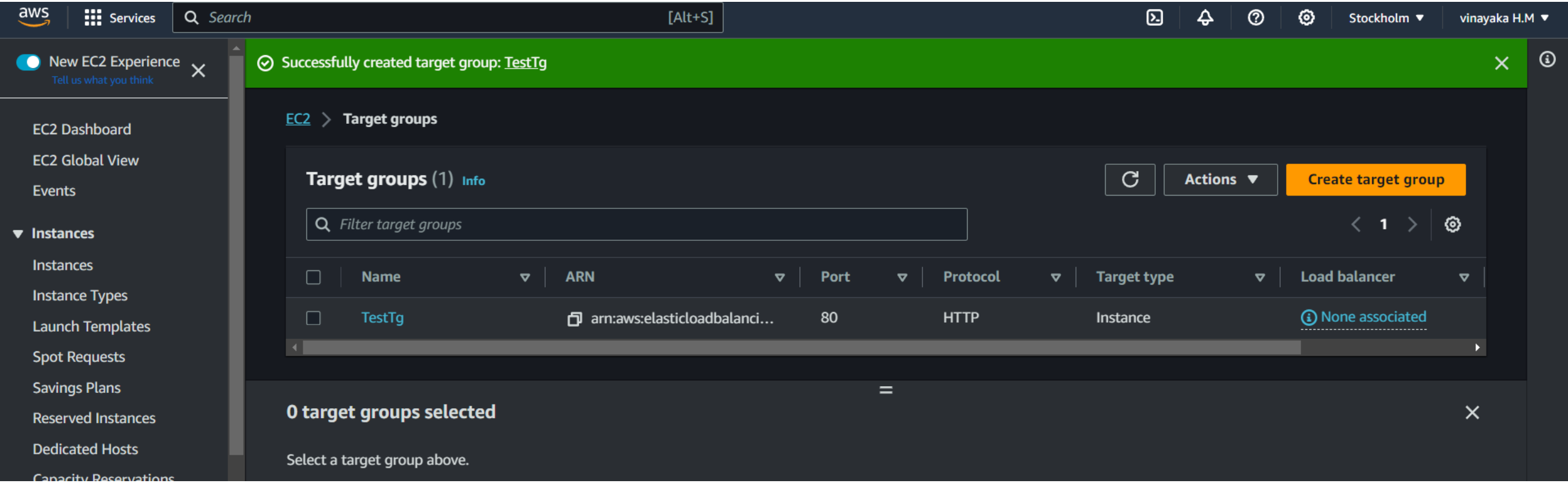
STEP 13: Once you click on the next it will redirect to register targets choose instances which all you want to register and then click on include as pending below



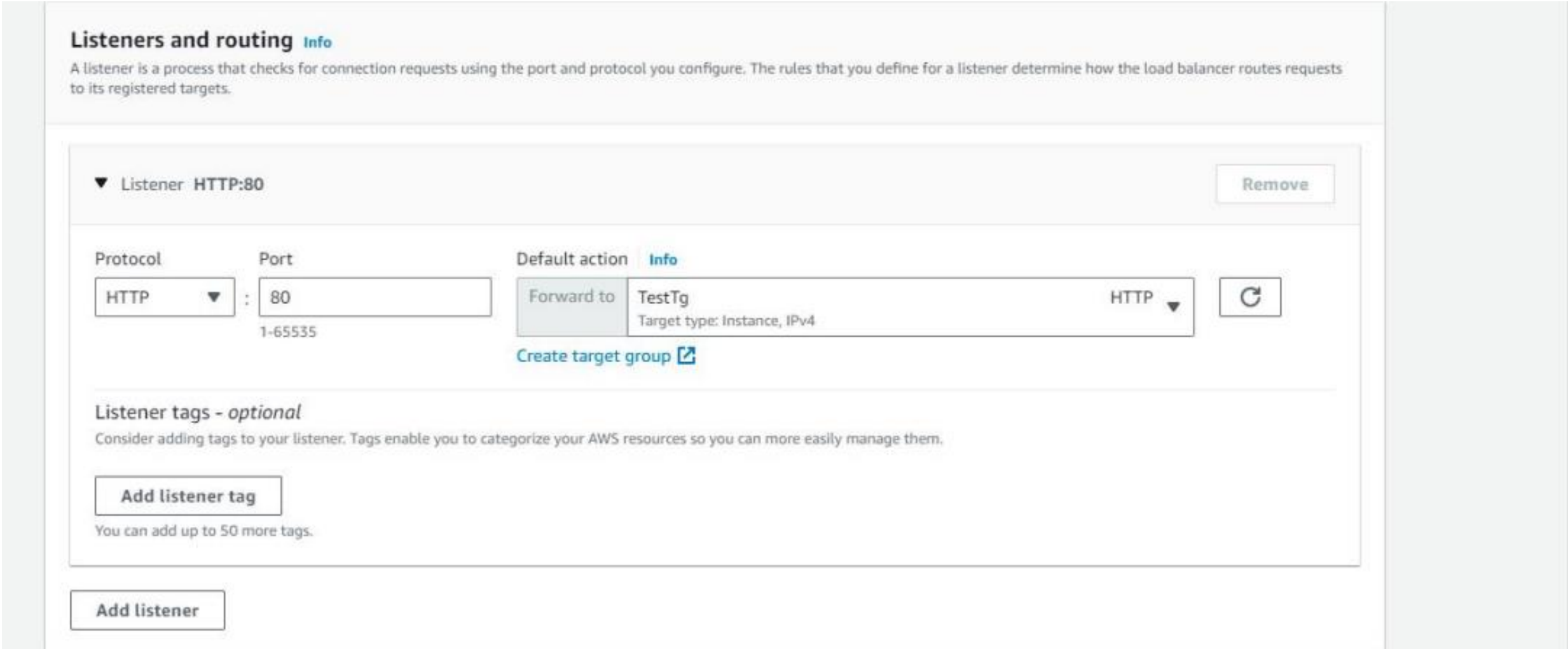
STEP 14: Once you click on the next it will redirect to register targets choose instances which all you want to register and then click on include as pending below



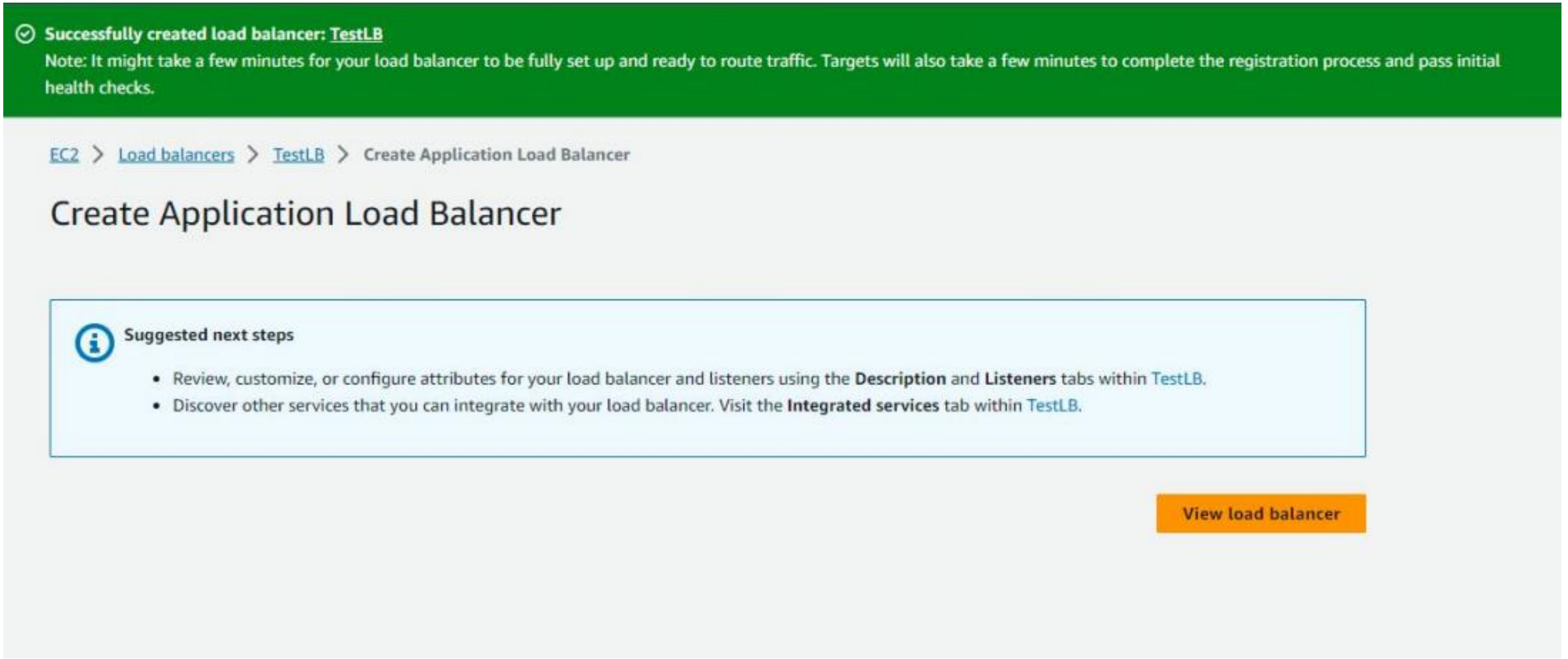
STEP 15: Now you have sucessfully created target



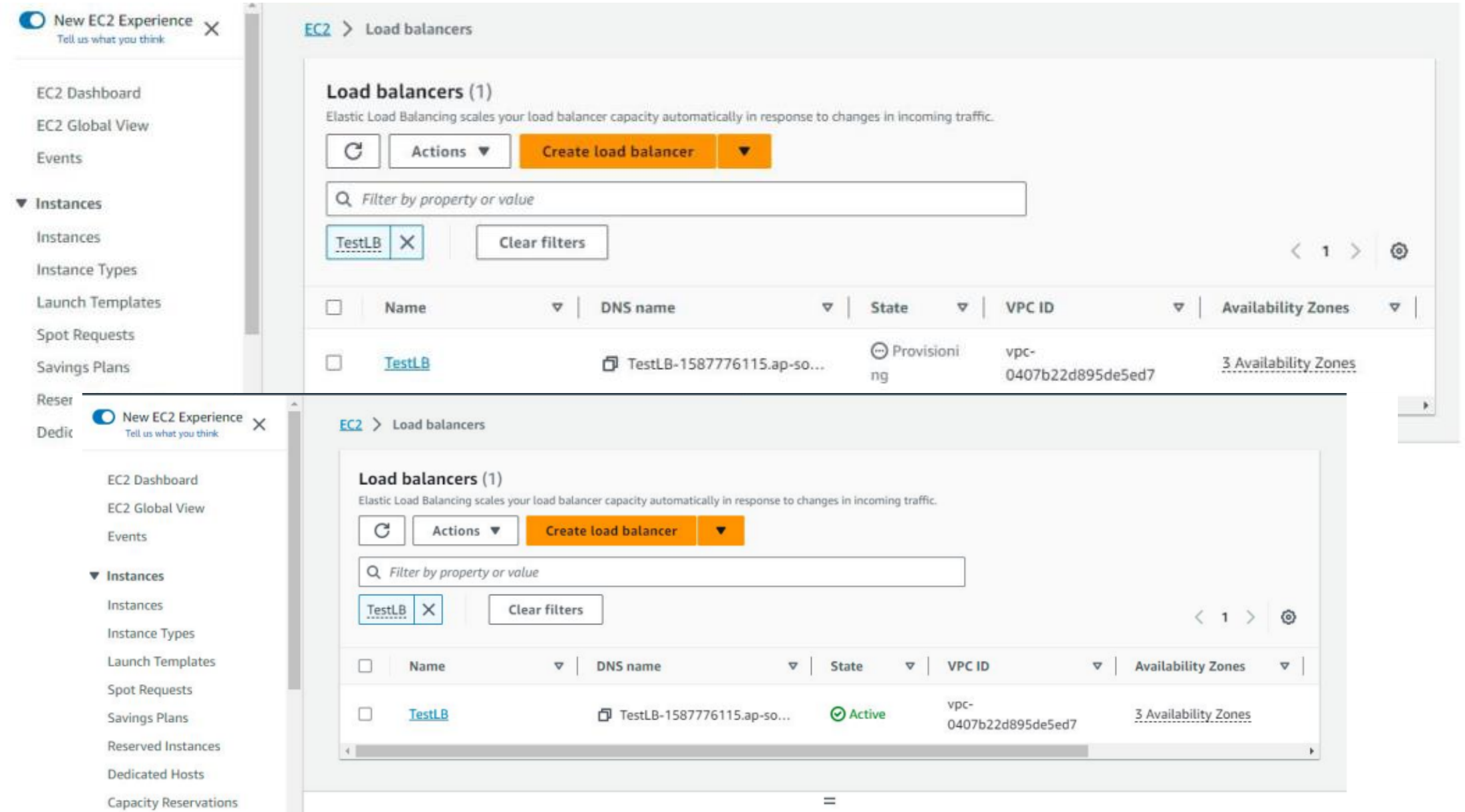
STEP 16: Back to ALB creation page and select created target group and keep remaining all default and click on create load balance



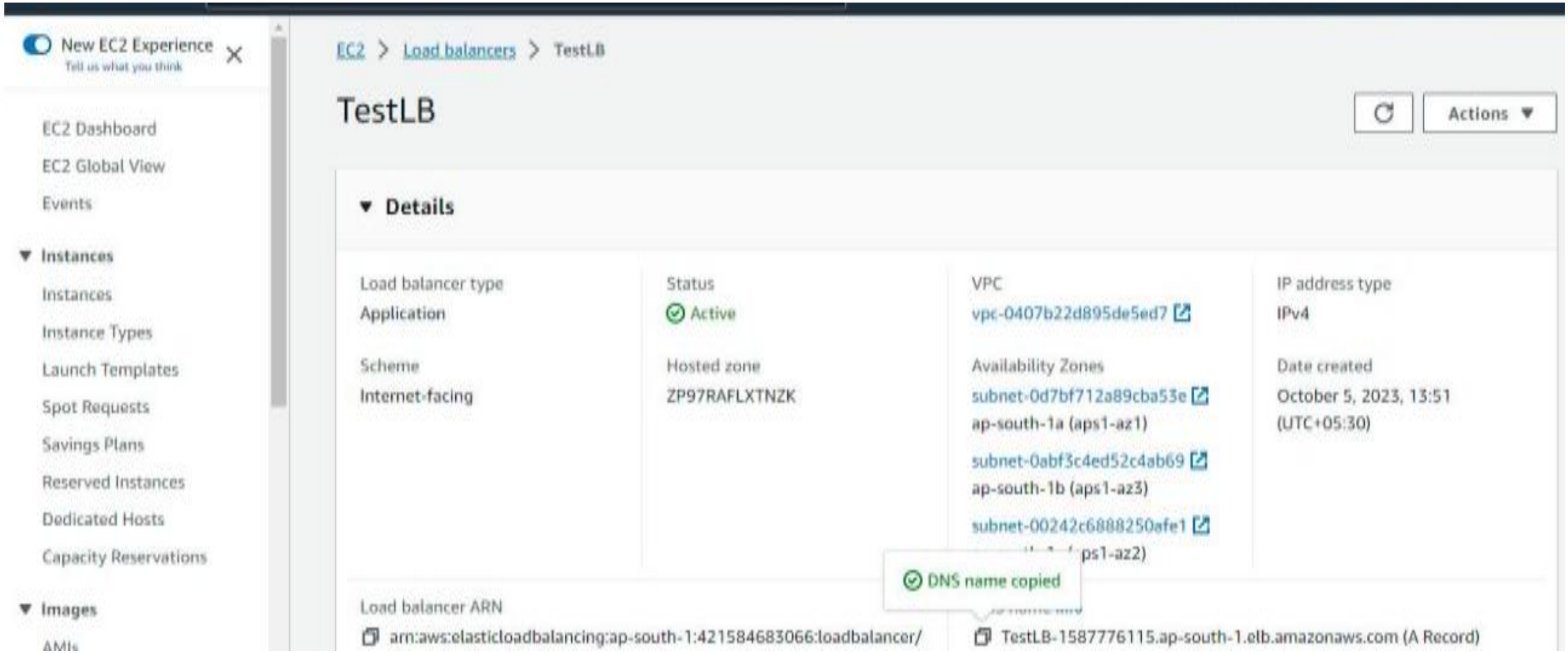
STEP 17: Now we have successfully created load balancer



STEP 18: When you created load balancer its status will be Provisioning wait until it get change as Active.



STEP 19: Now check the working of ELB by copying DNS name of created load balancer



STEP 20: If we paste the copied DNS name in web browser it should show the web application of any instances if you keep on refreshing the page ALB will distribute the traffic among