ASSIGNMENT - 4

- **Task 1: Run 2 servers behind ALB**

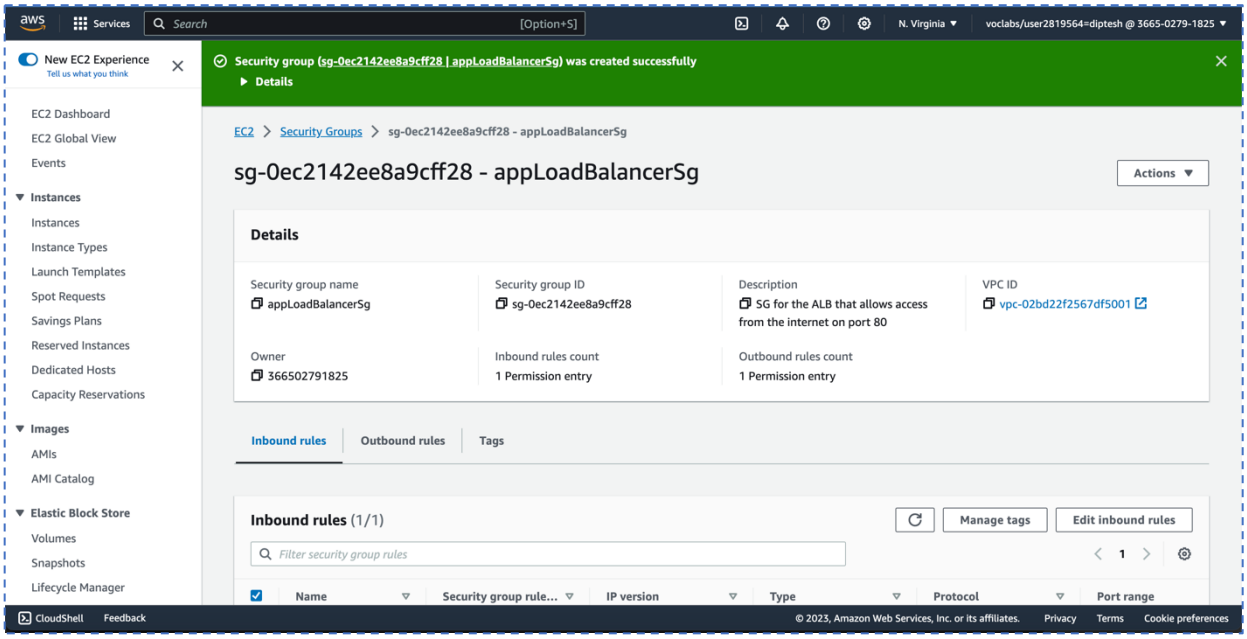

Image -1: Security group created for Application Load Balance.

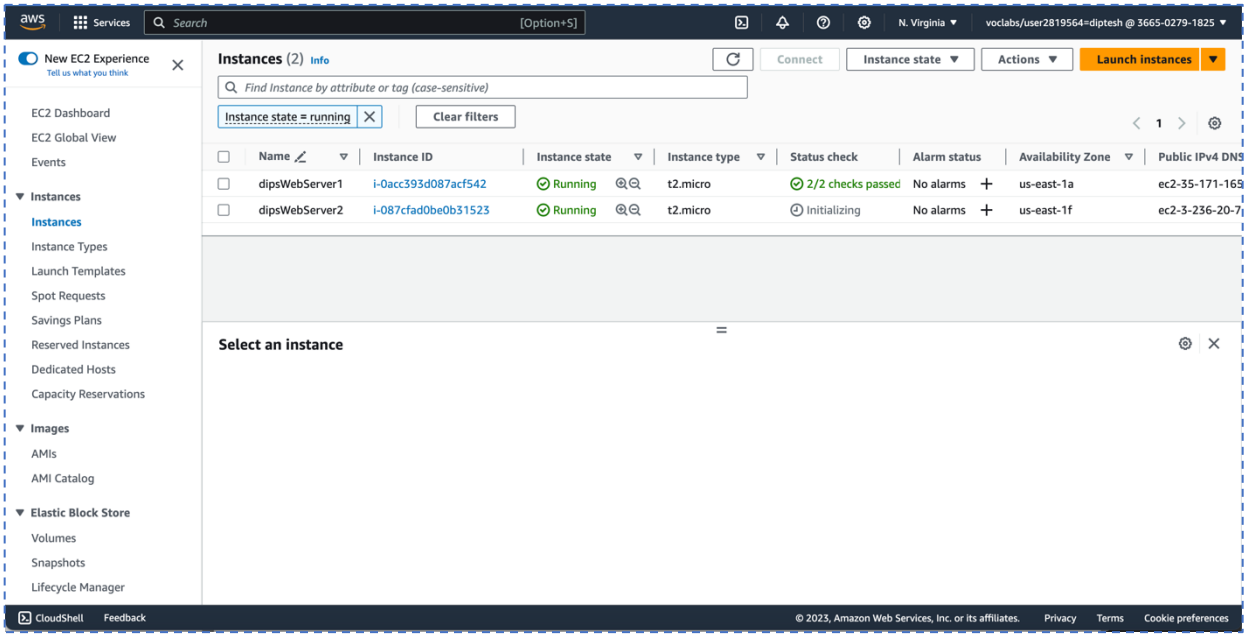

Image -2: Two instances of EC2 created.

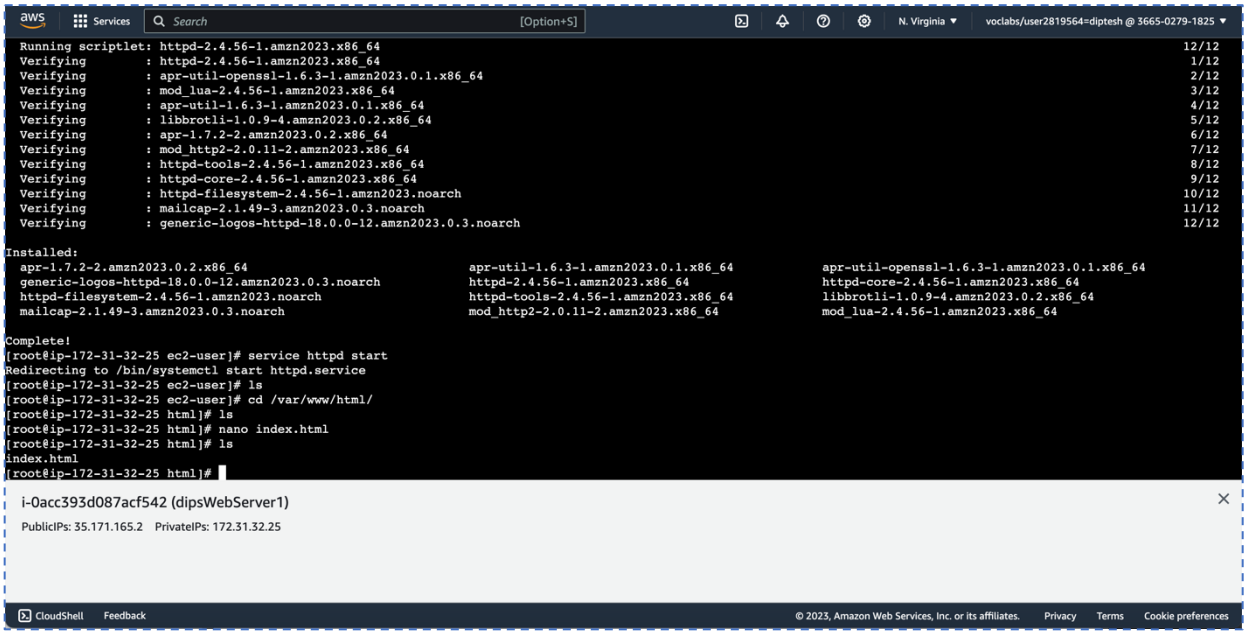

Image -3: Configured web server 1 in first EC2 instance.

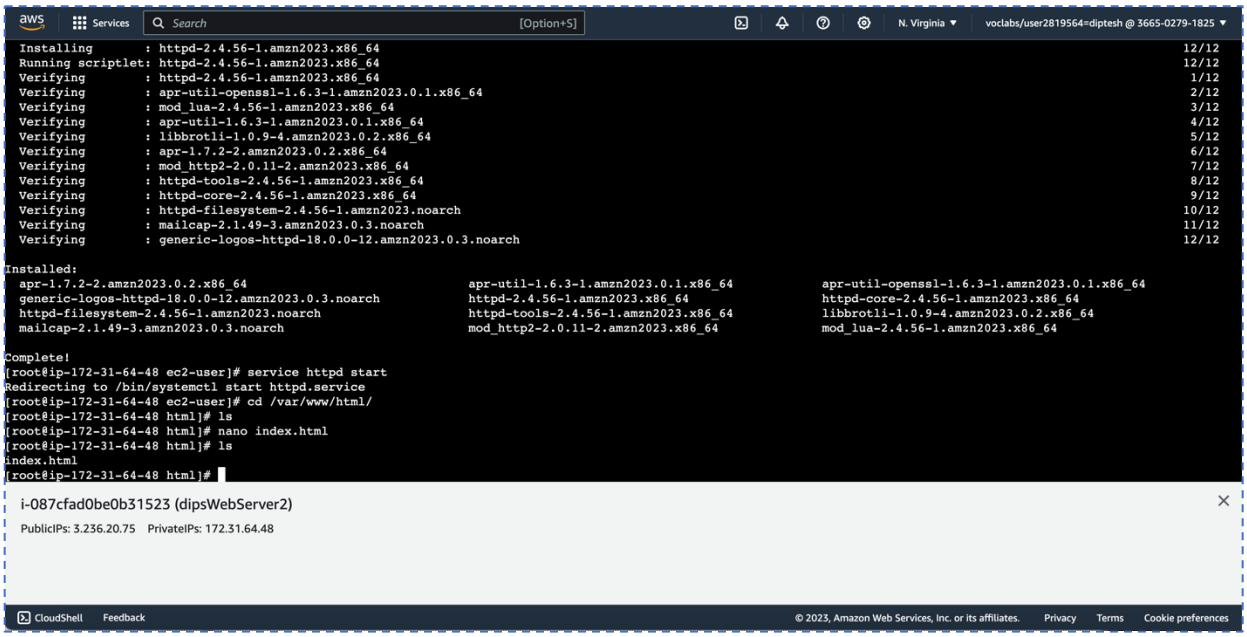

Image -4: Configured web server 2 in another EC2 instance.

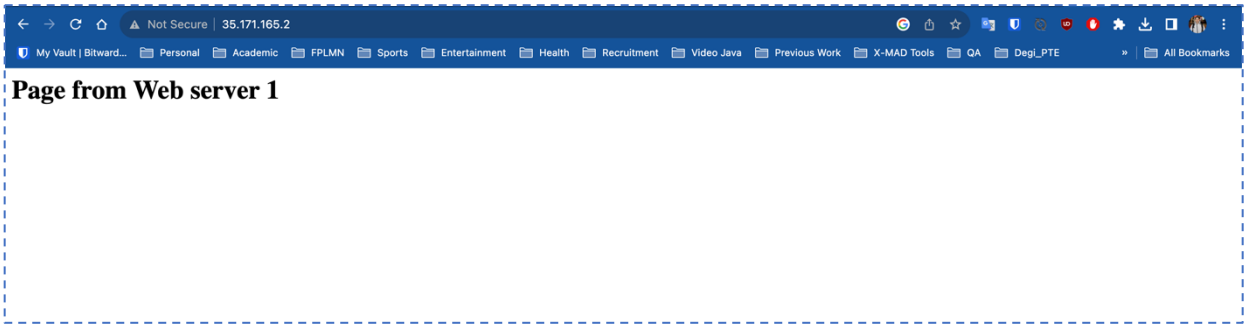

Image -5: Browsing application in web server 1.

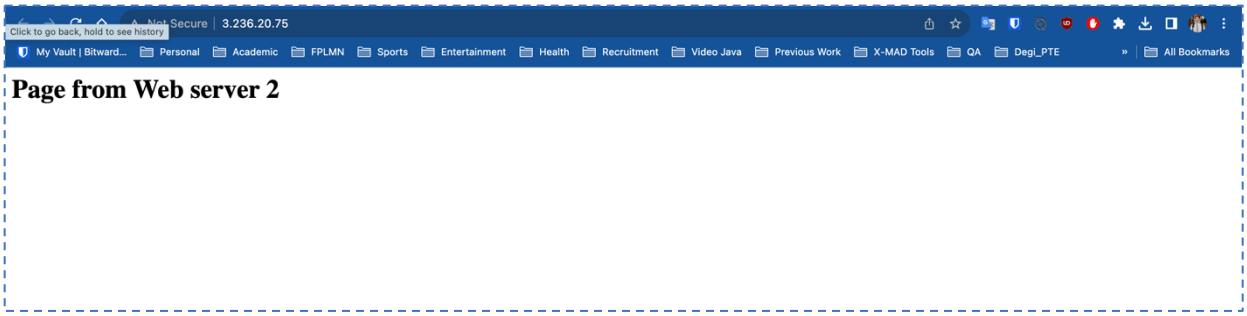

Image -6: Browsing application in web server 2.

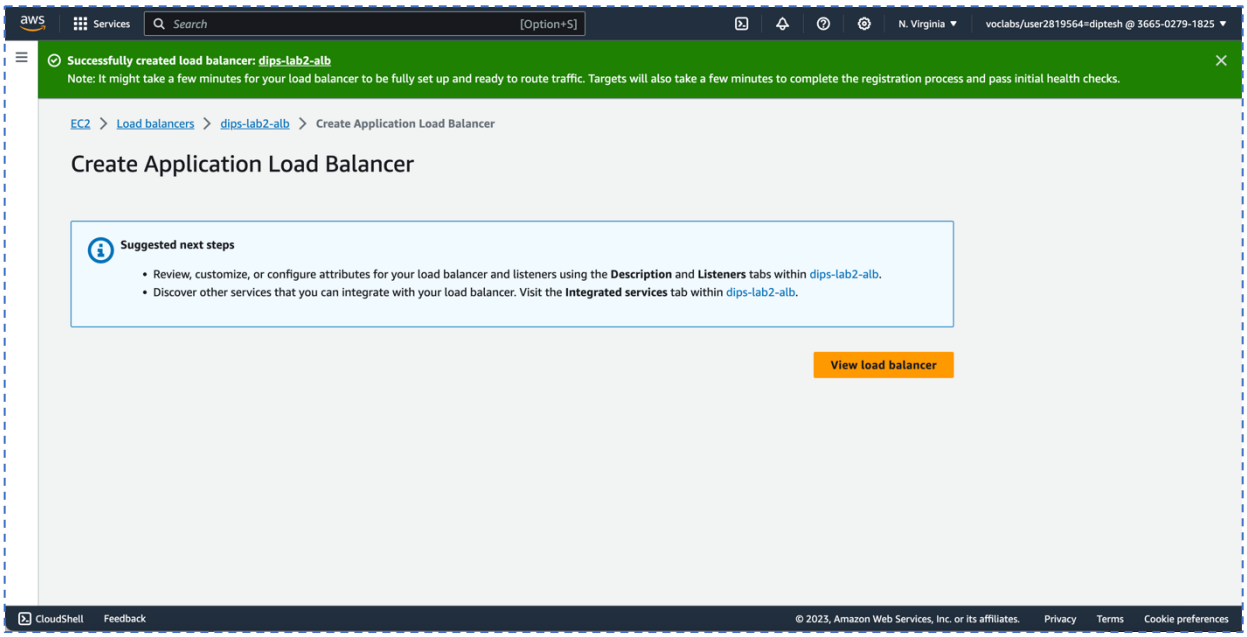

Image -7: Created and configured new ALB.

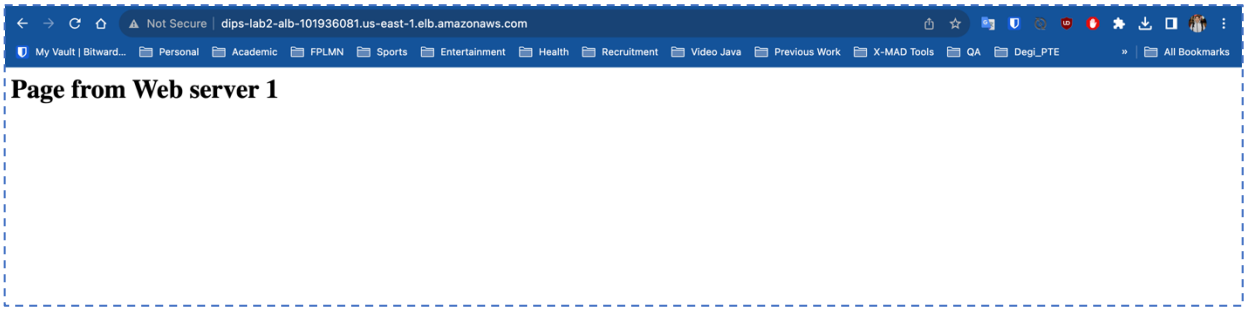

Image -8: Browsing application in web server 1 via ALB.

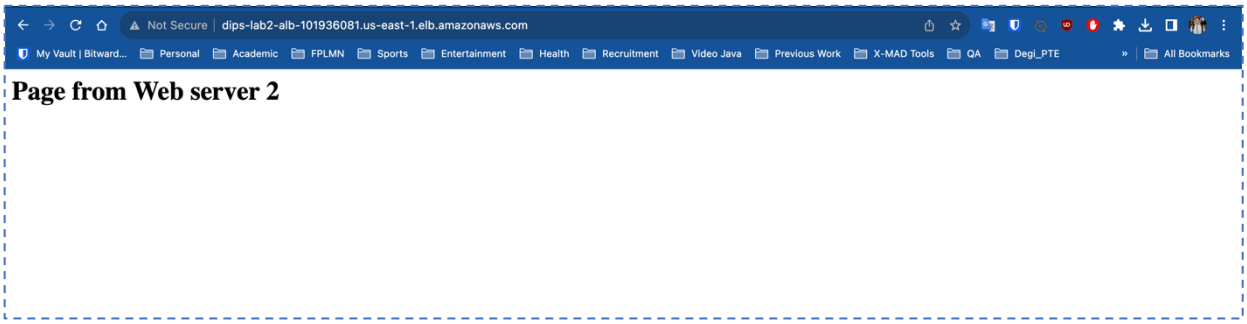

Image -9: Browsing application in web server 2 via ALB.

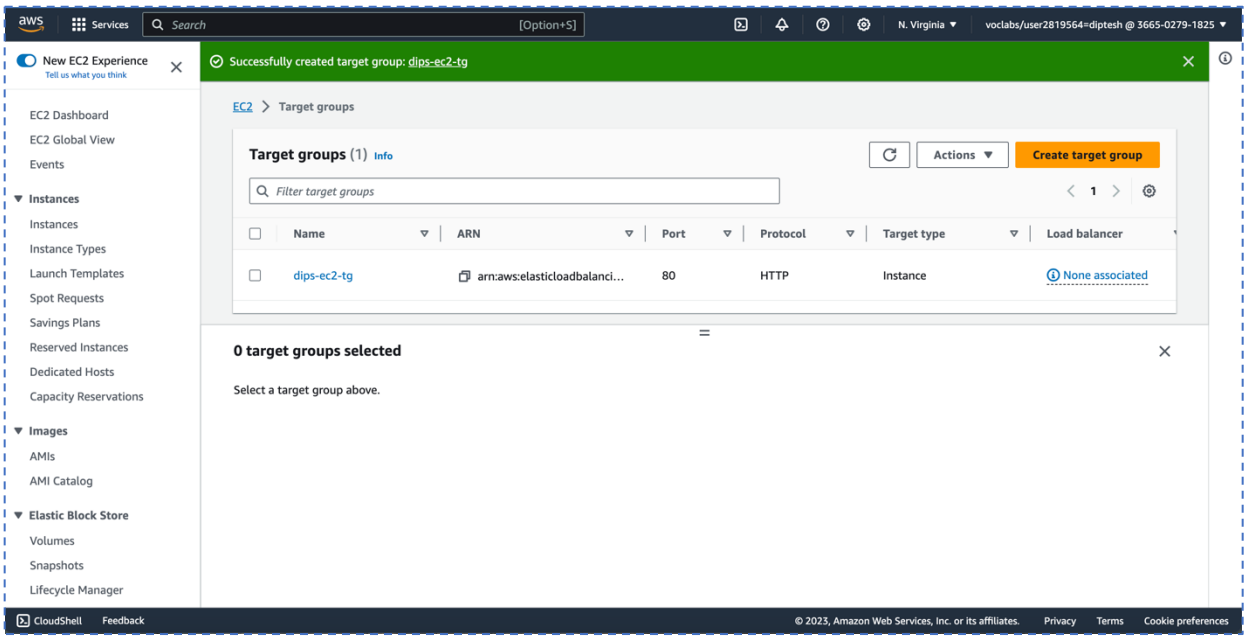

Image -10: Created target groups.

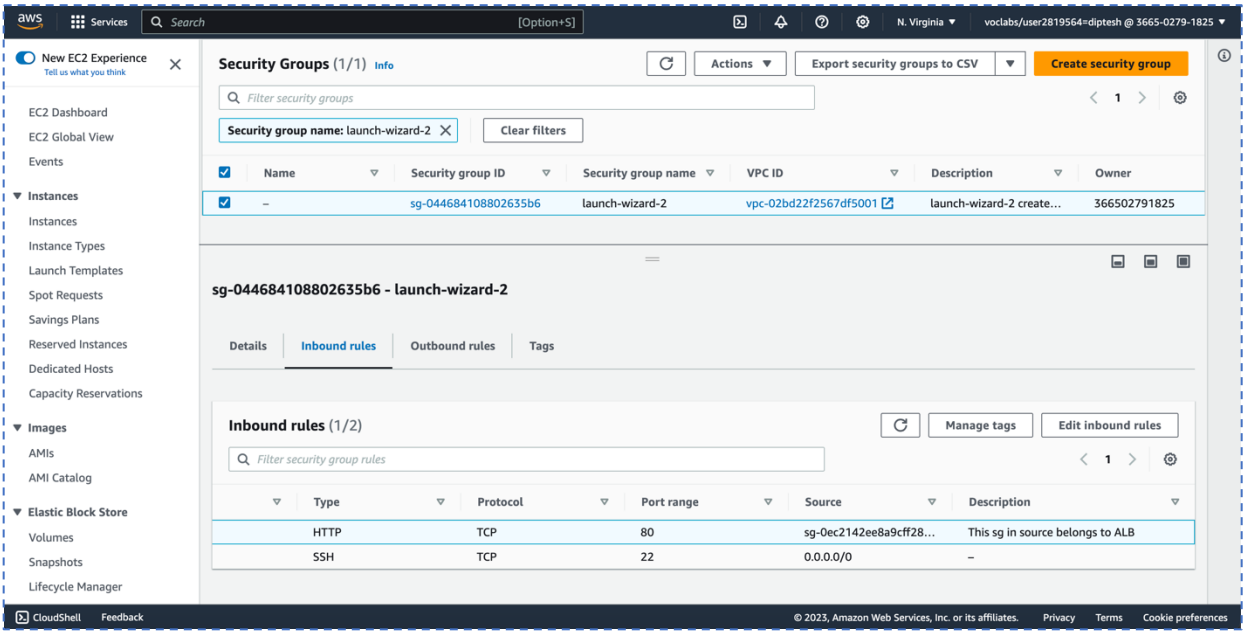

Image -11: Updated Security group for first EC2.

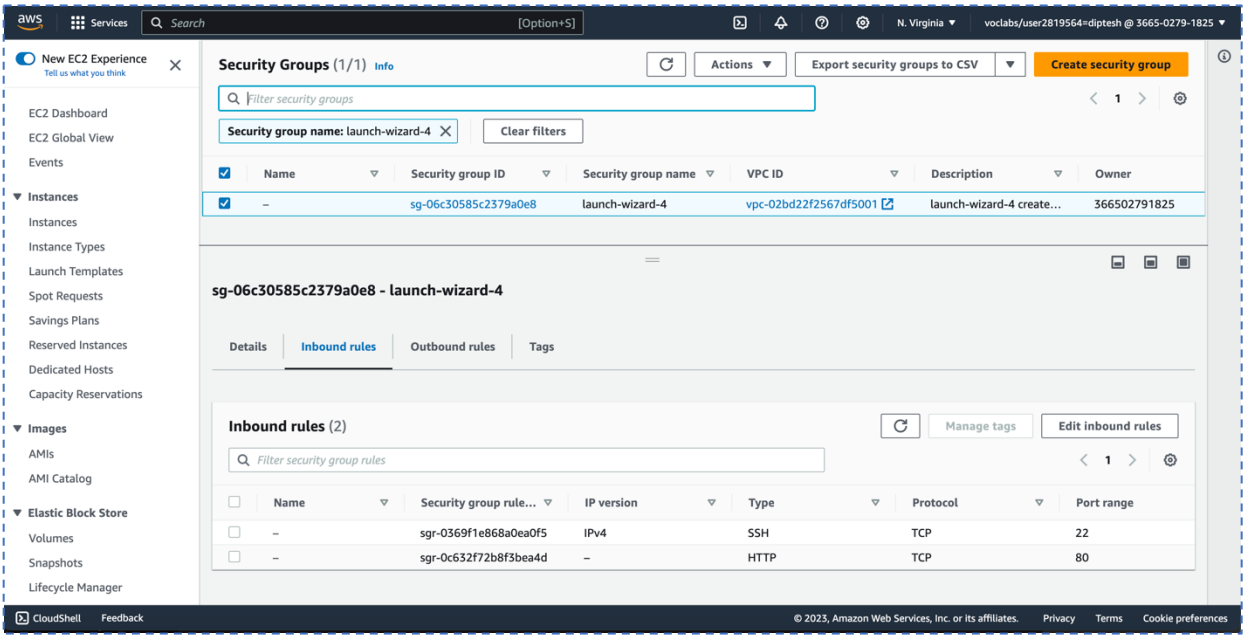

Image -12: Updated Security group for second EC2.

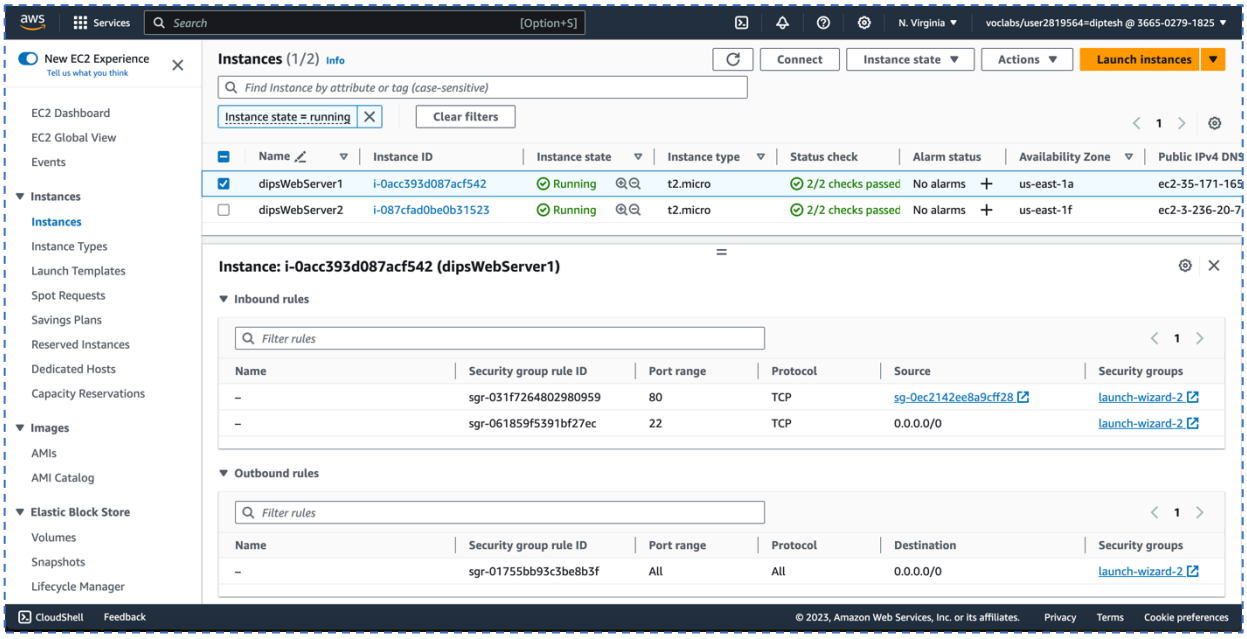

Image -13: Updated the inbound rules of first EC2 instance.

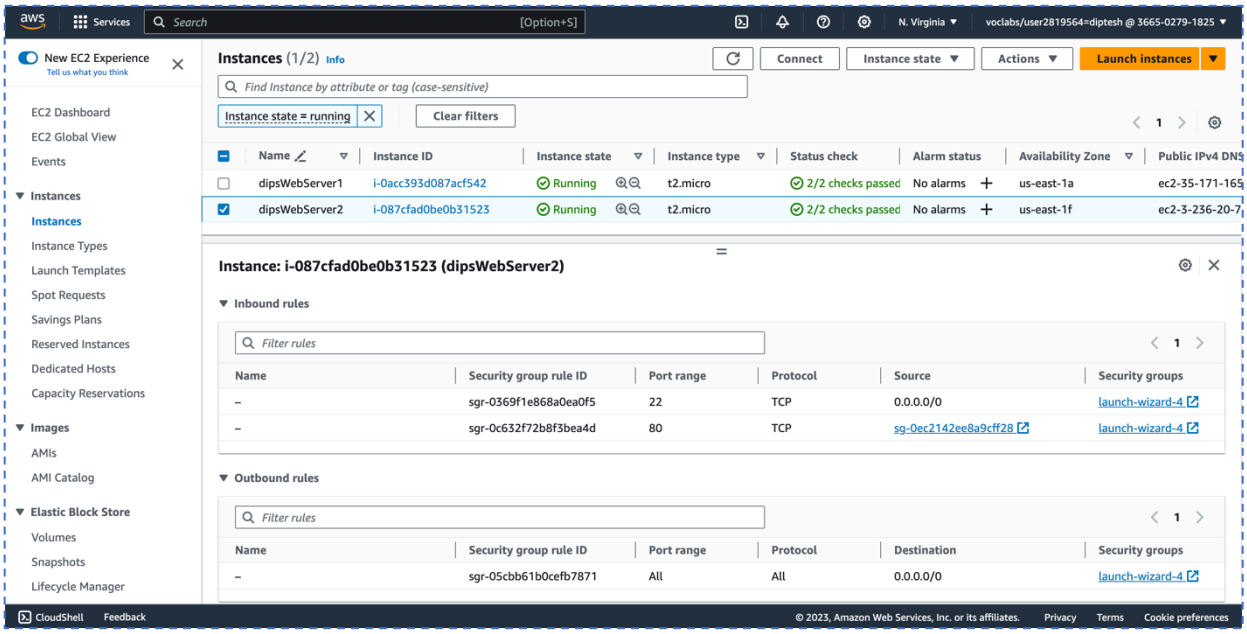

Image -14: Updated the inbound rules of second EC2 instance.

- **Task 2: Practice Listener Rules with Lambdas**

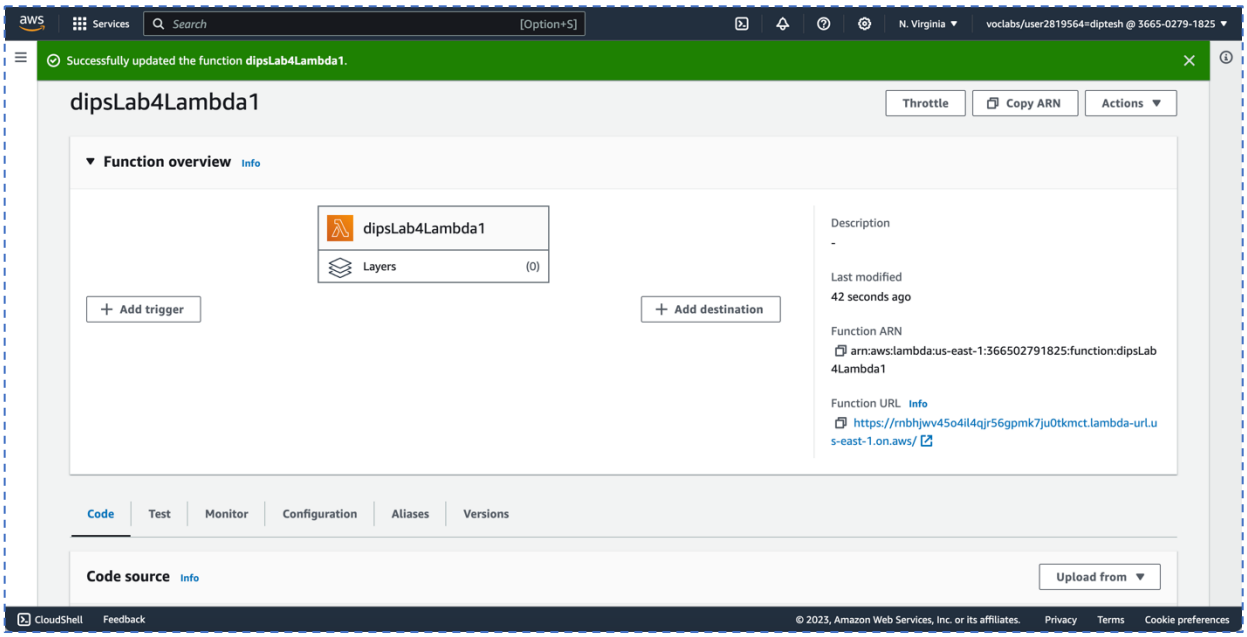

Image -15: Created & configured the first lambda function URL.

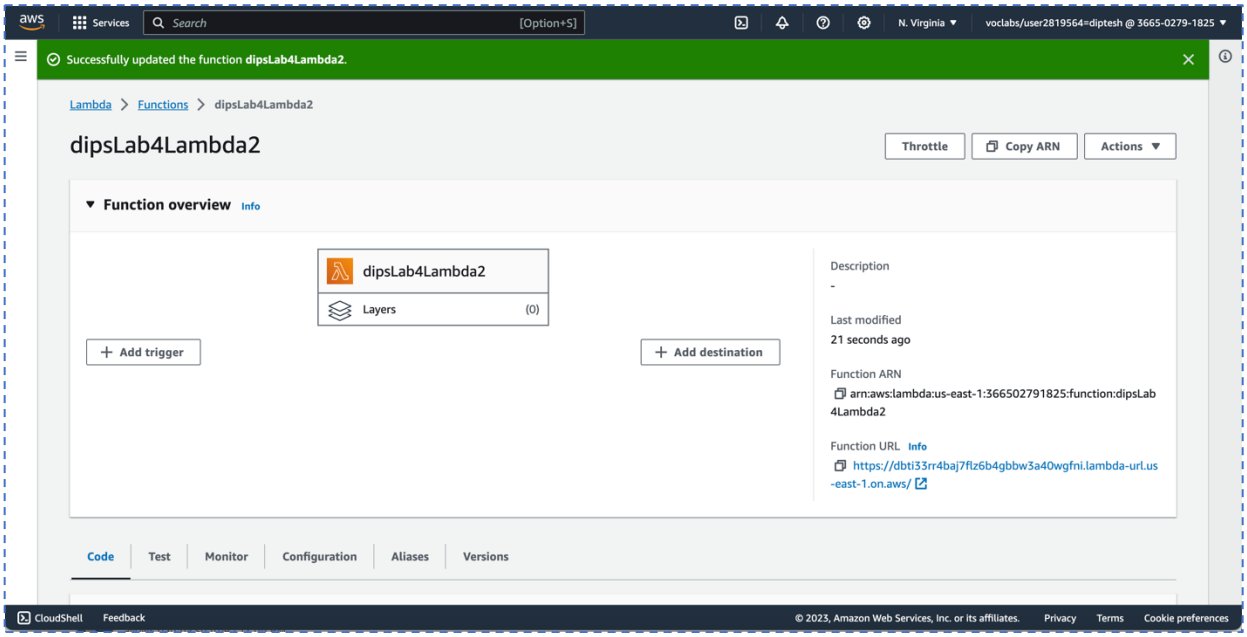

Image -16: Created & configured the second lambda function URL.

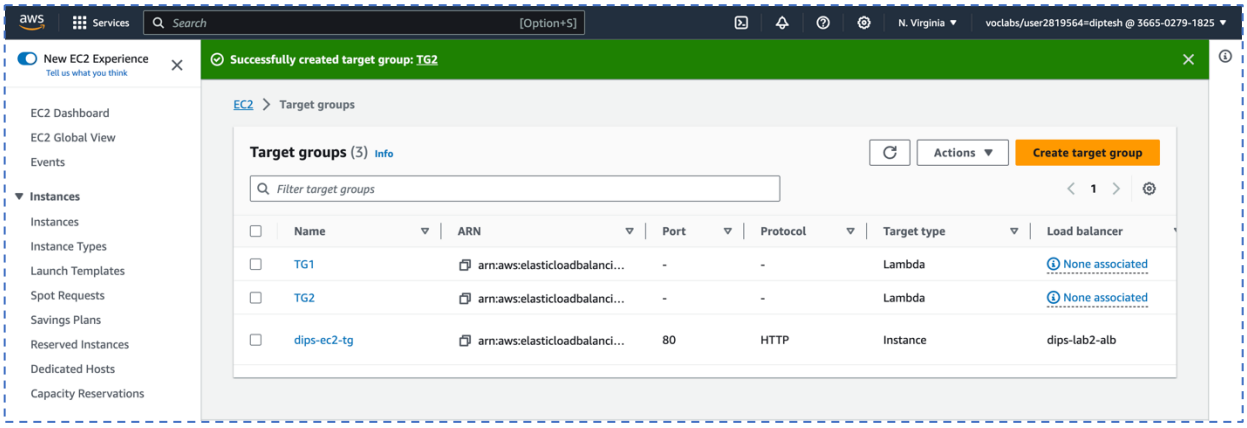

Image - 17: Two target groups created for Lambda function.

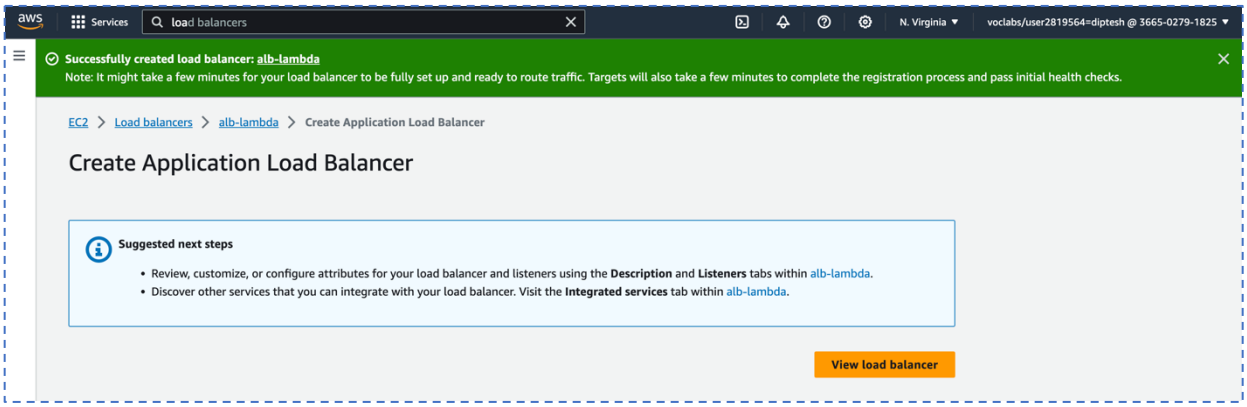

Image - 18: Created a new load balancer.

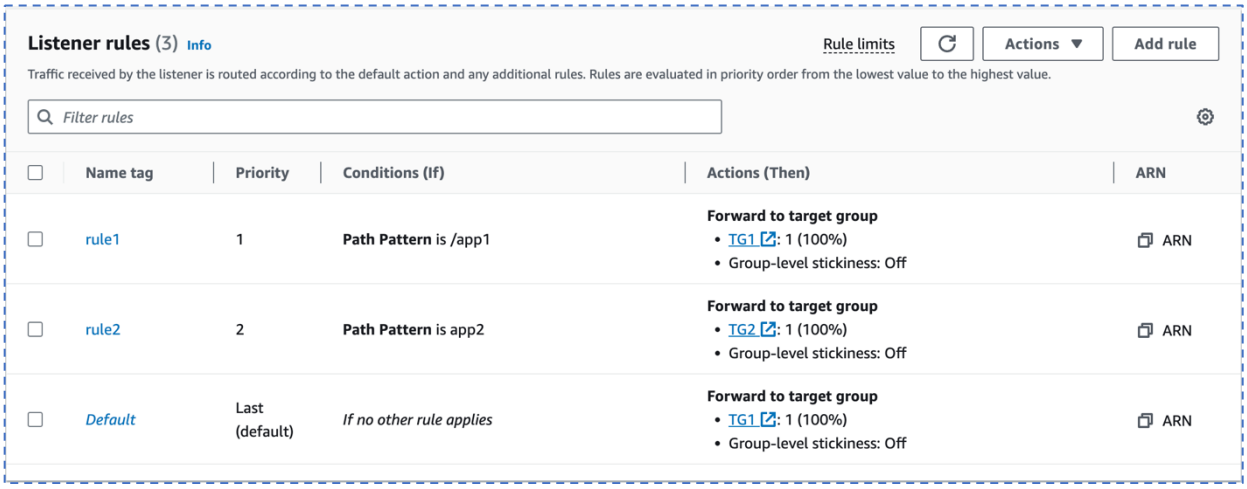

Image - 19: Created new listener rules with proper condition.

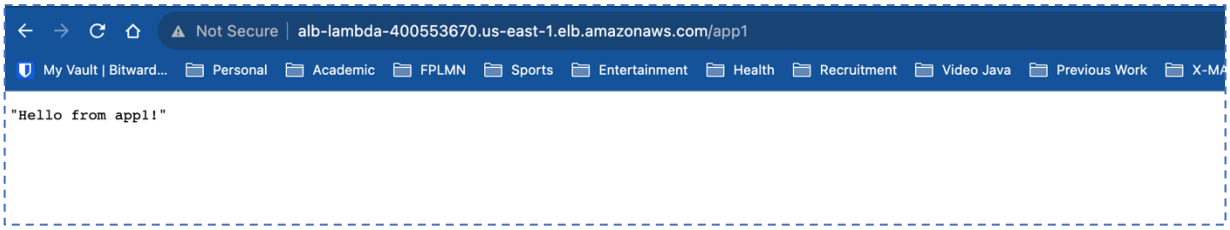

Image - 20: Browsing lambda function 1 via ALB slash app1.

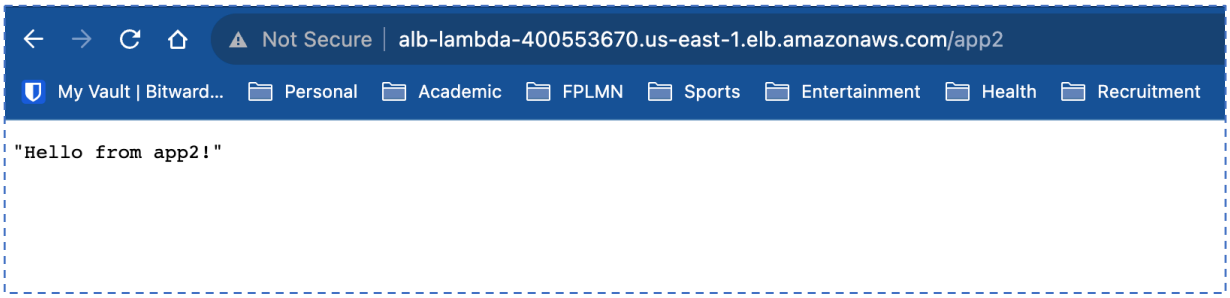

Image - 21: Browsing lambda function 2 via ALB slash app2.

- **Task 3: Run web servers behind NLB**

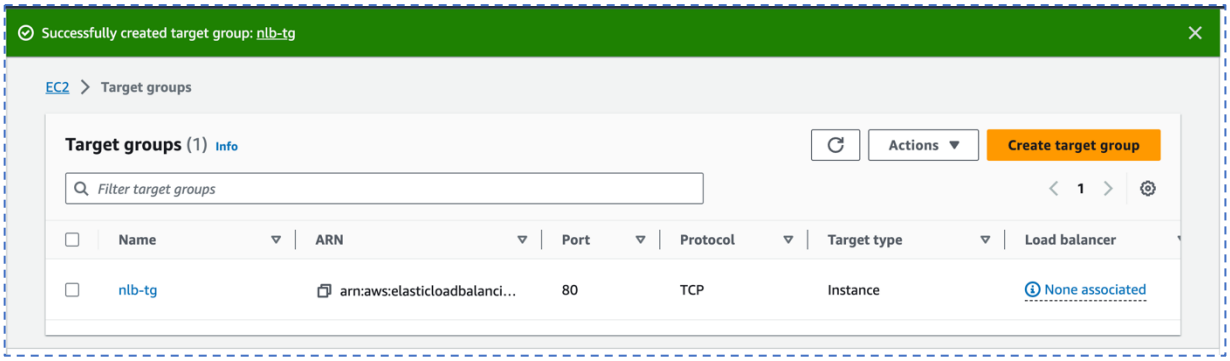

Image - 22: Created a new target group for NLB.

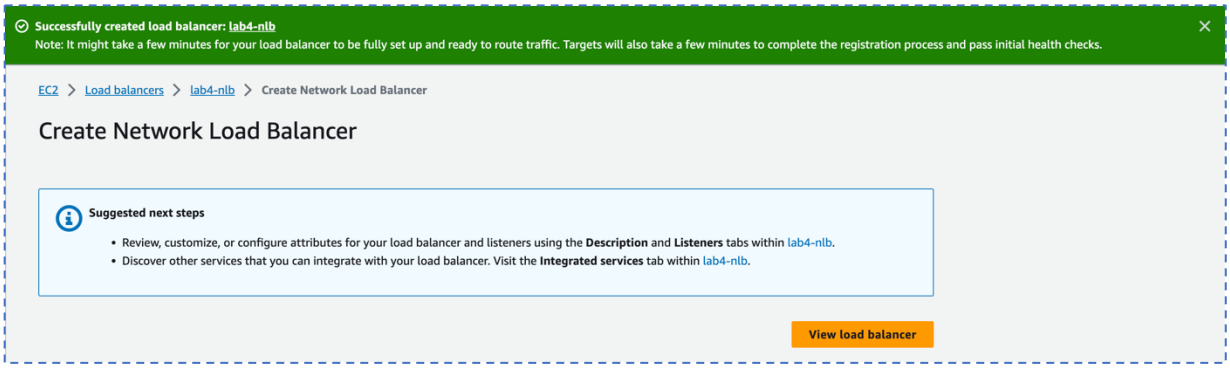

Image - 23: Created a new load balancer.

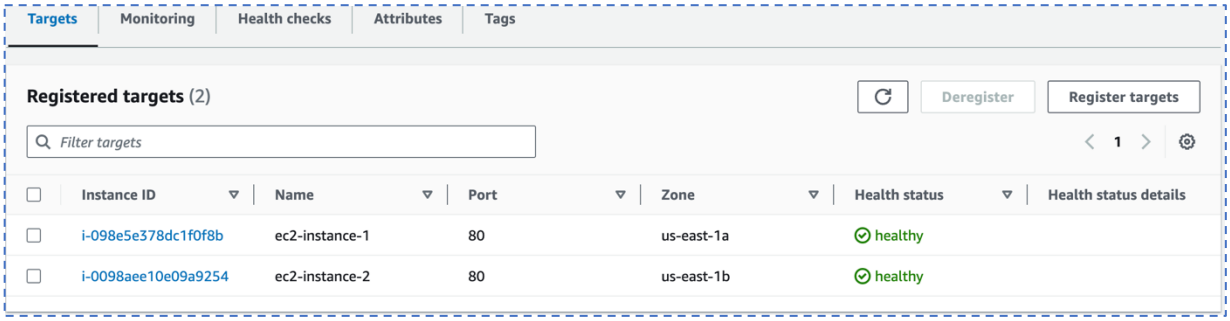

Image - 23: EC2 instances registered in the NLB target group.

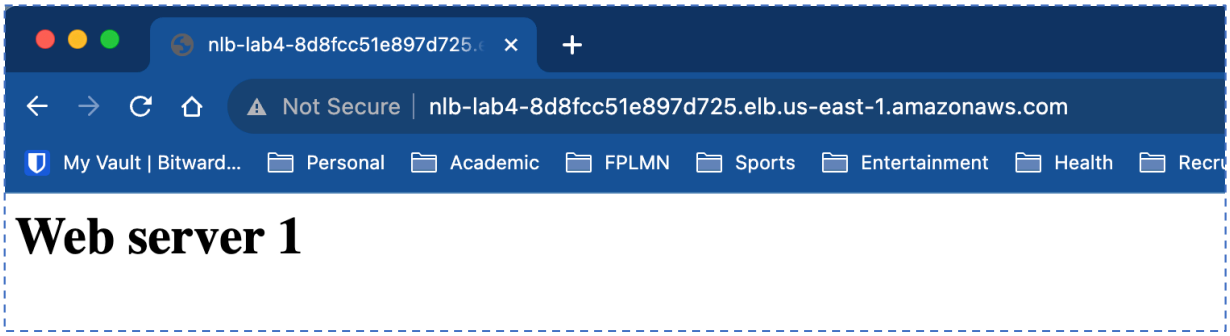

Image - 23: Browsing application via NLB.

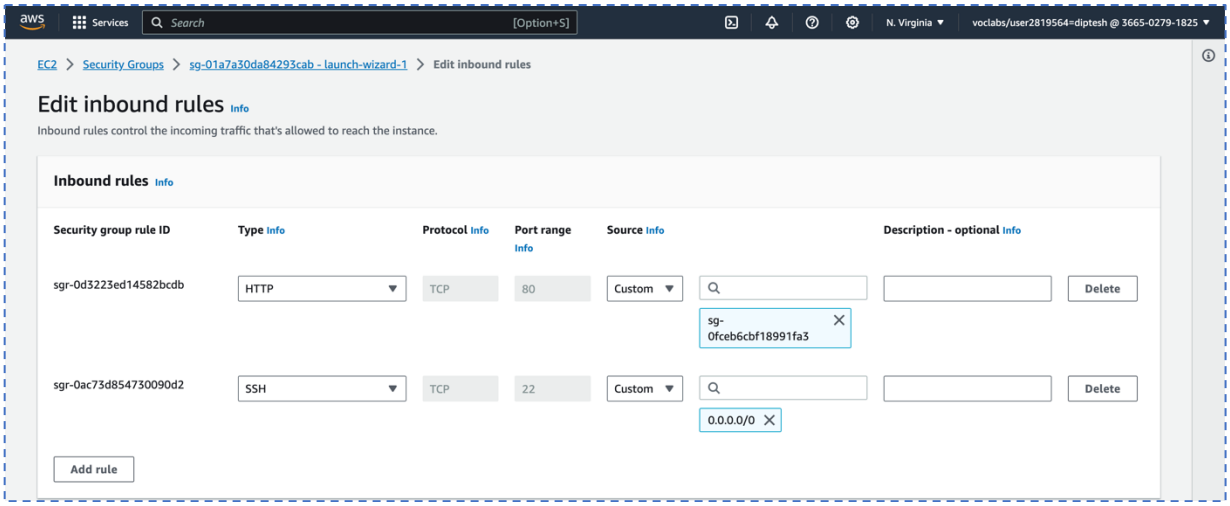

Image - 23: Updated the inbound rules of the EC2 security group to allow access only from NLB and no direct access.

- **Task 4: Run the web servers behind the ALB in ASG**

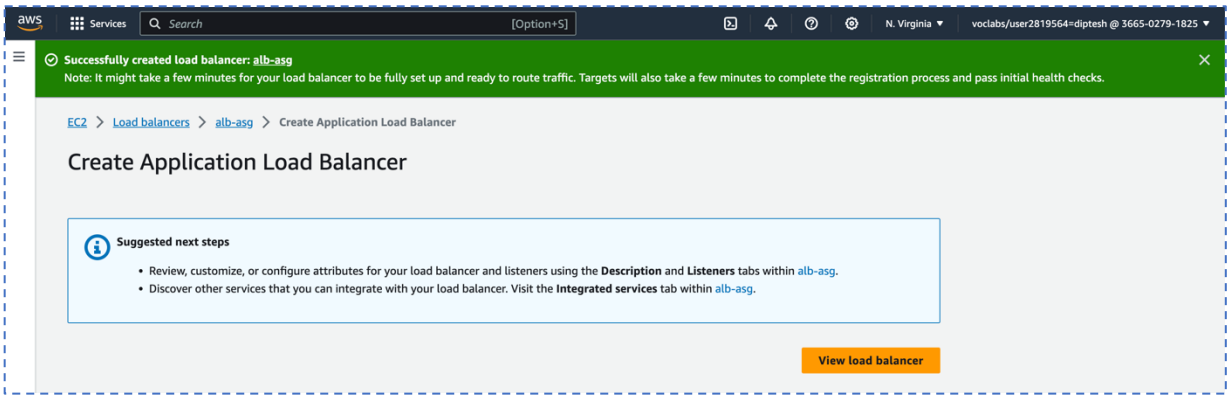

Image - 24: Created a new load balancer.

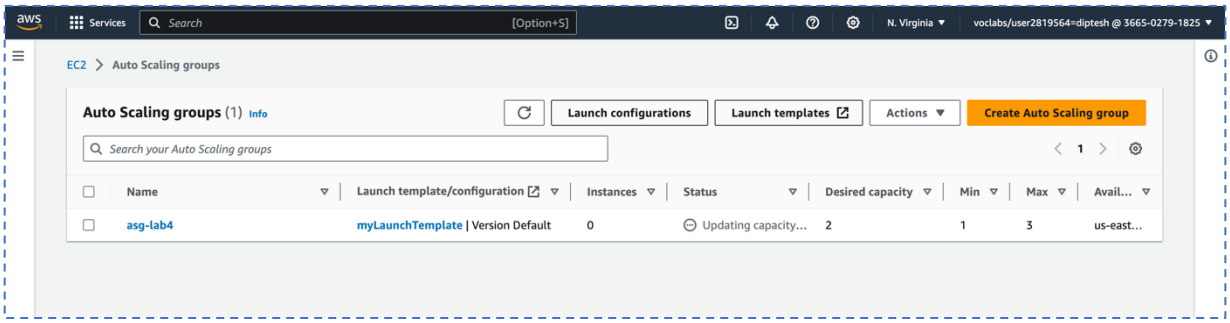

Image - 25: Created a new auto scaling group.

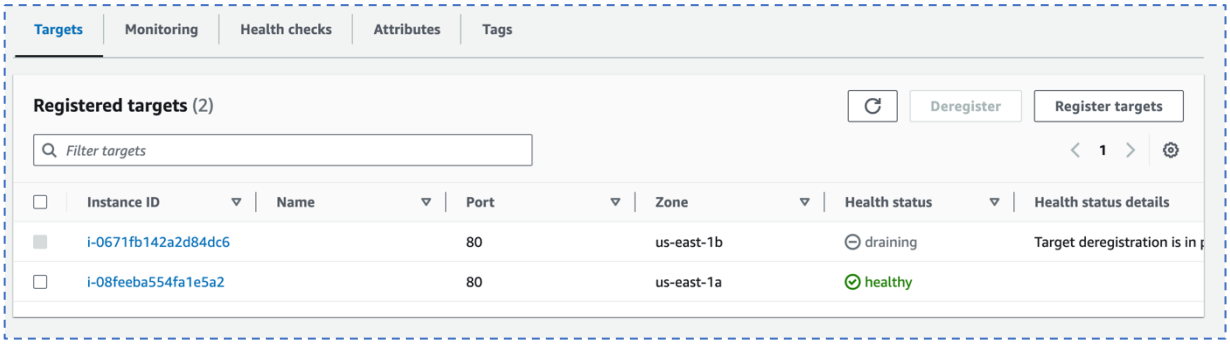

Image - 26: Created a new load balancer.

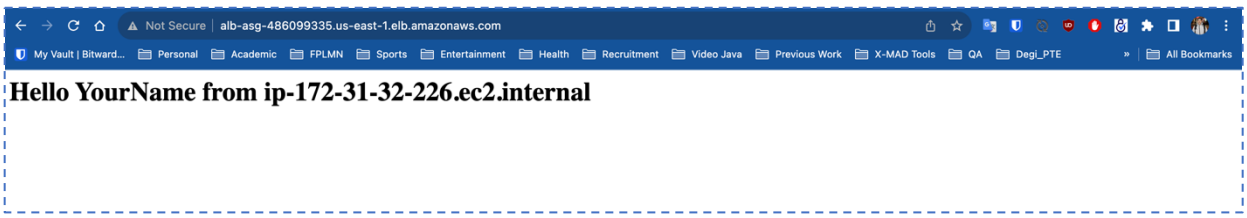

Image -27: Created a new load balancer.

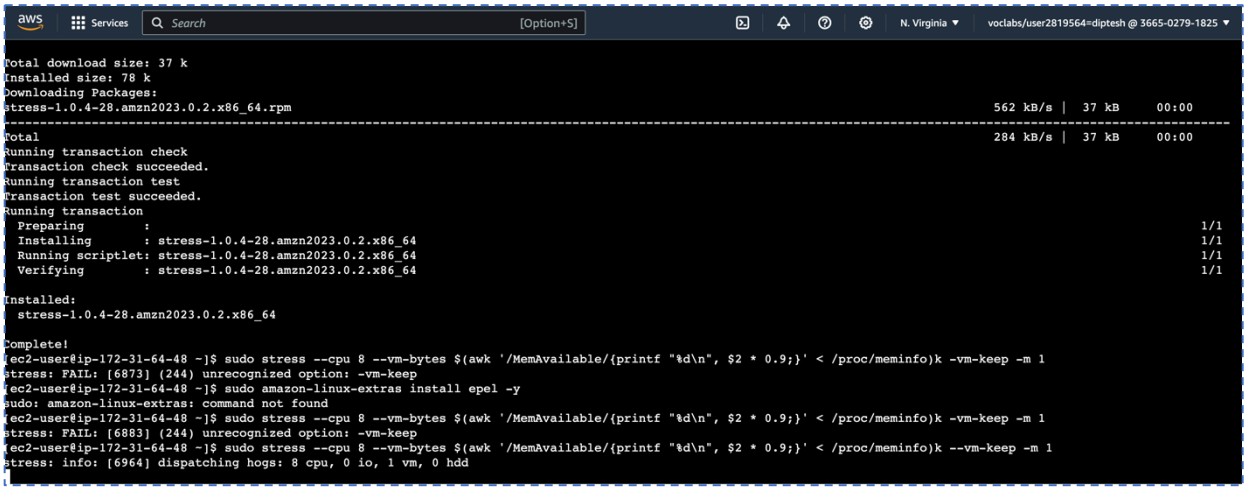

Image -28: Simulating CPU and memory utilization for checking auto scaling.