Lab4

Task 1: Run 2 web servers behind ALB

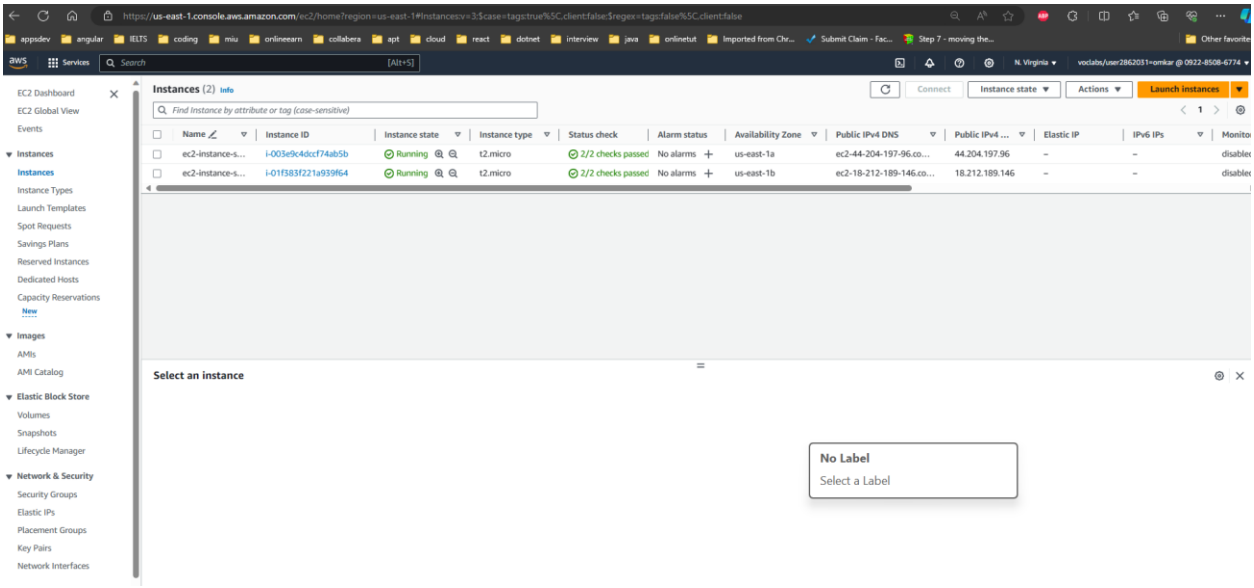
Step1: Created two EC2 instance Server

a> In Networking Settings, select two different AZ for each EC2 Server

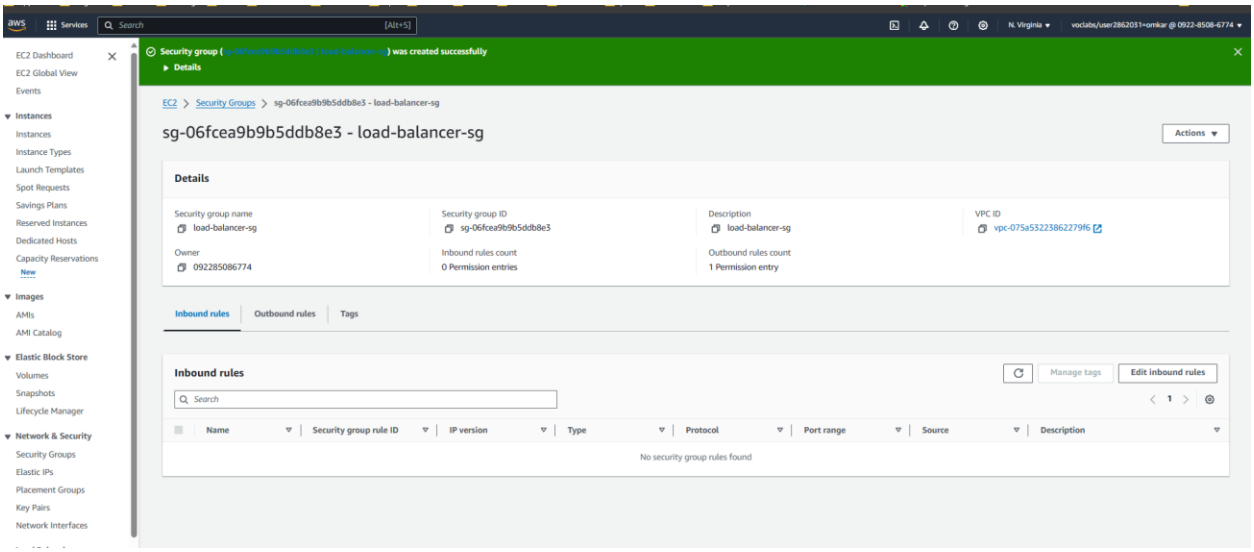
b> Create a security group(firewall) and allow HTTP type with TCP protocol and 80 port.

c> Add user data so that EC2 server start automatically

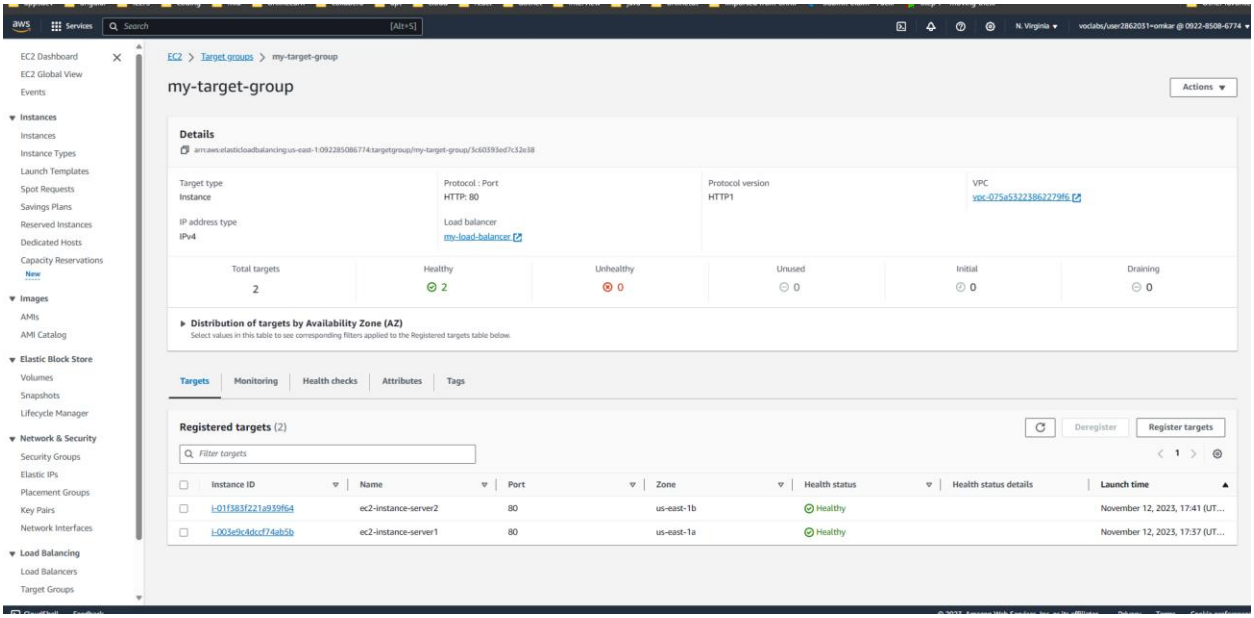
```
#!/bin/bash
yum install -y httpd
systemctl start httpd
systemctl enable httpd
echo "<h1> Hello from omkar $(hostname -f)</h1>" >/var/www/html/index.html
```



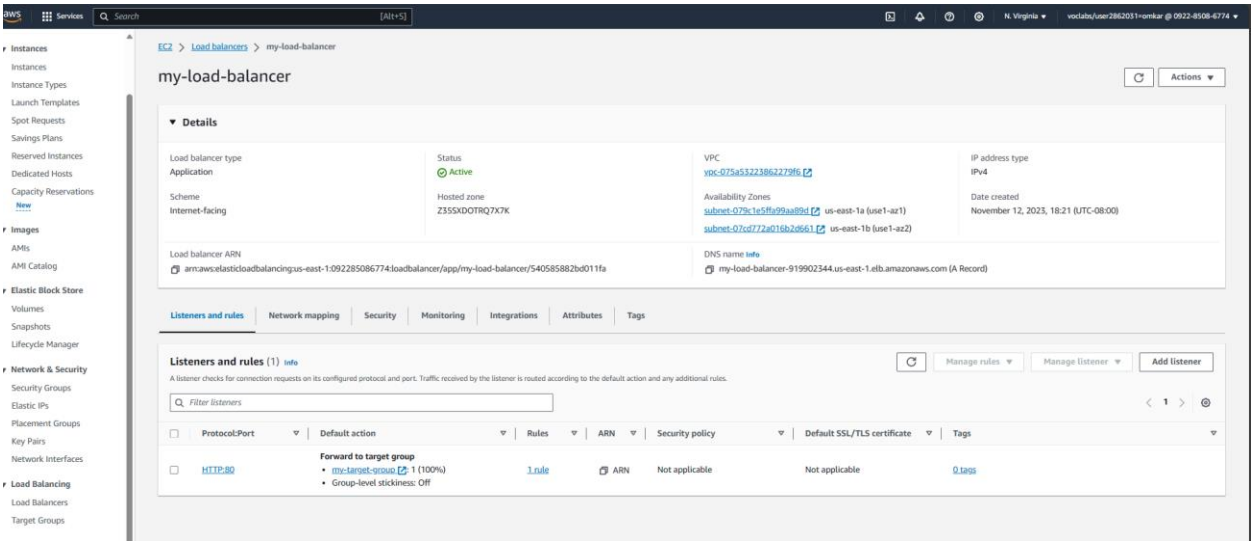
1. Create Security group for ALB



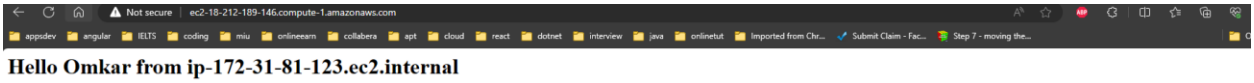
Step3: Create Target group:



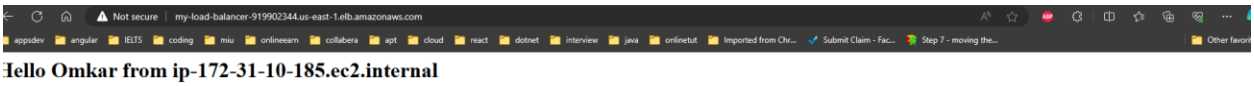
Step 4: create ALB:



Step5: Loadbalancer DNS:

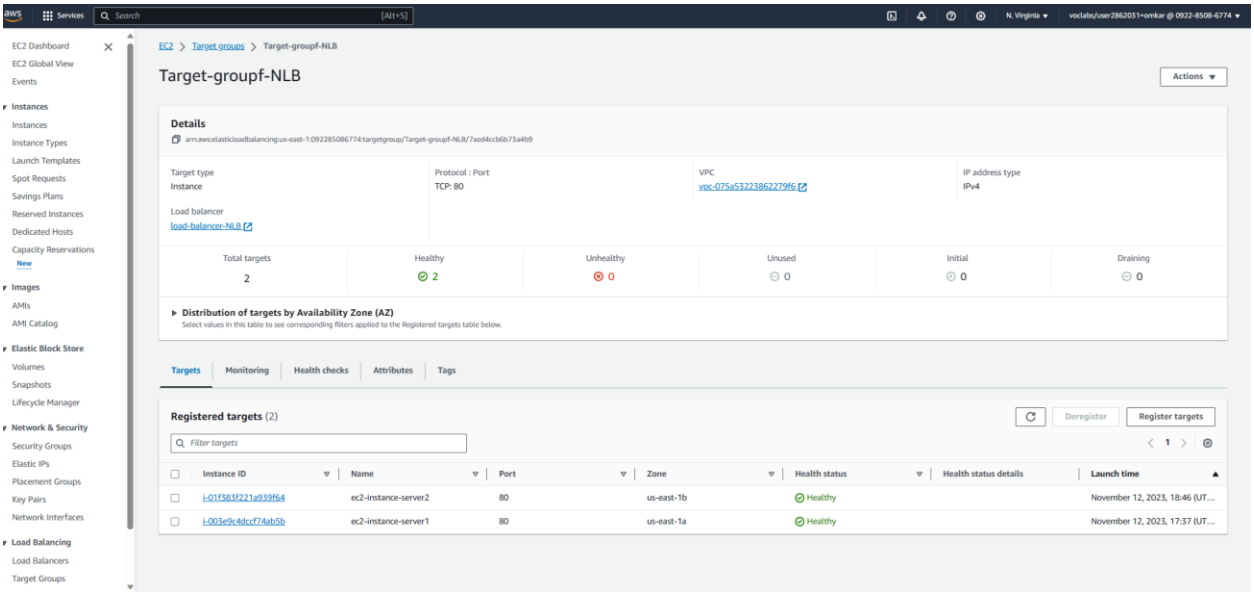


When one EC2 server is Unhealthy: The load balance redirect to another healthy server.

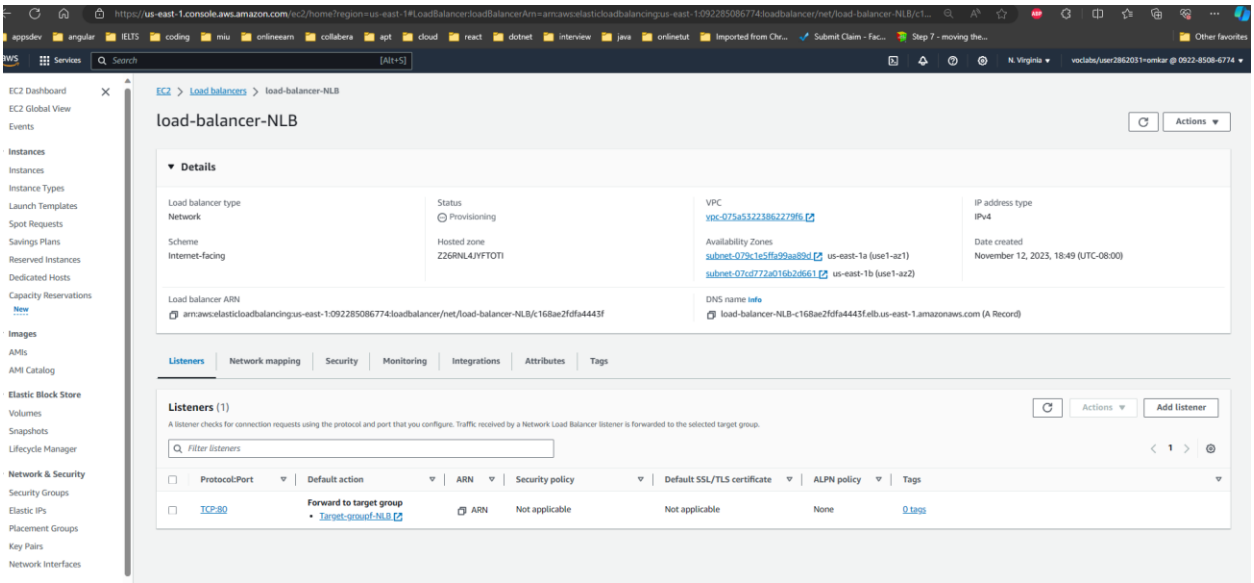


Task: 2 Run Web server behind NLB

Step1: Follow the same step as above except NLB and Target Group, In target group, select TCP protocol instead of HTTP.

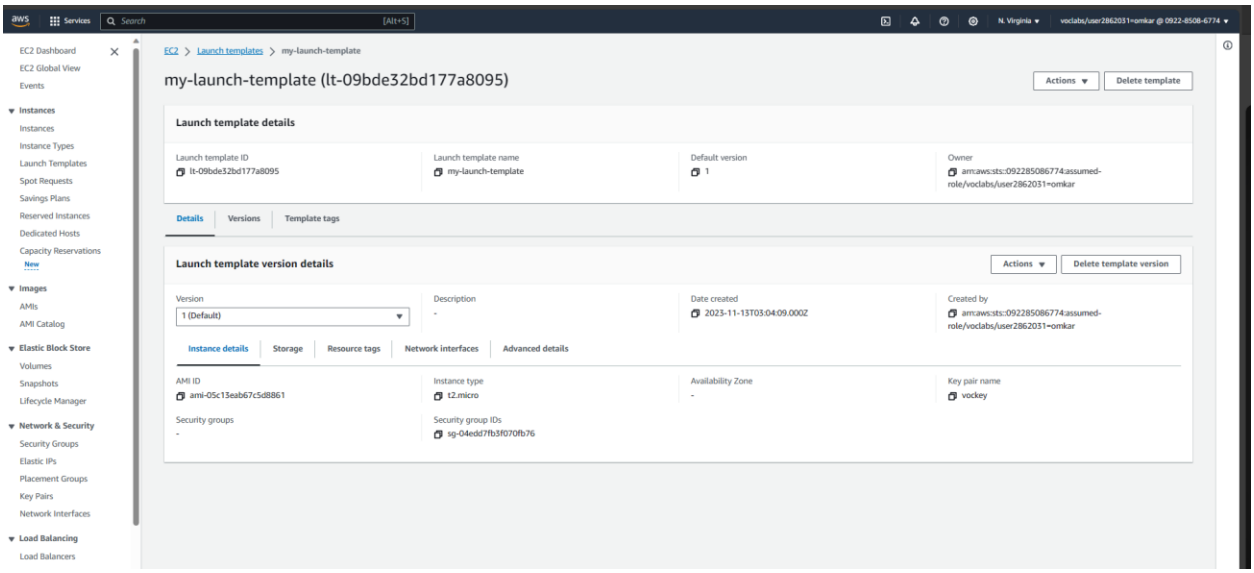


Step2: NLB

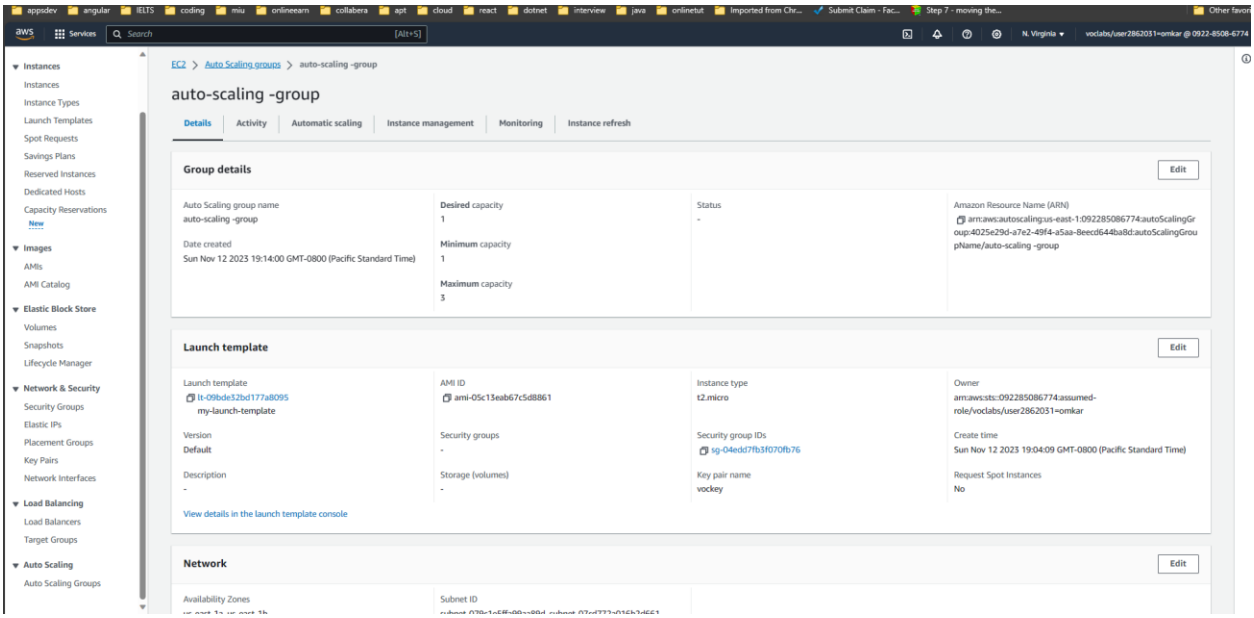


Task 3:Auto Scaling Group:

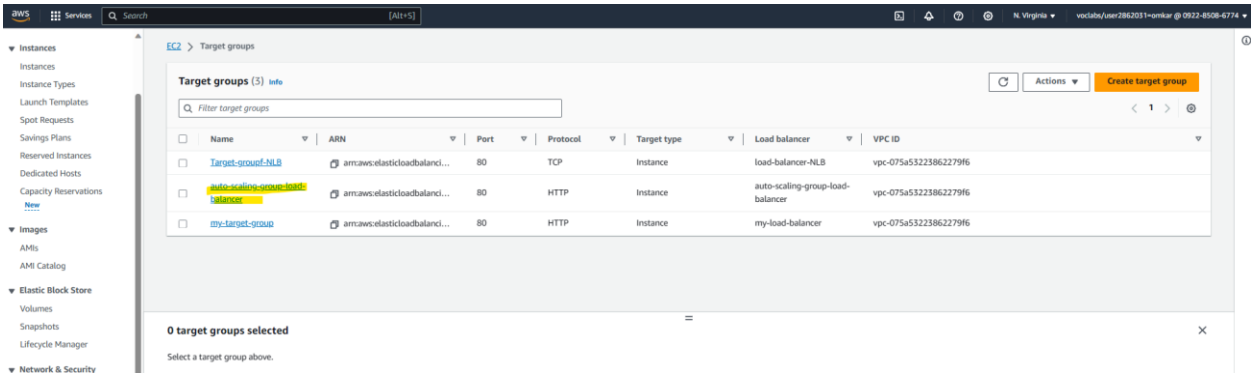
Step 1: create Launch template



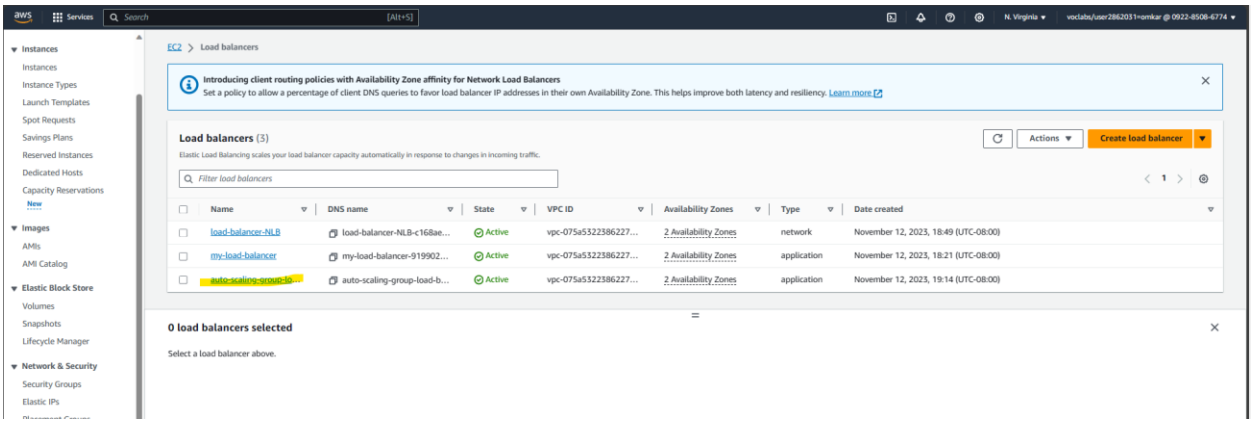
Step 2: Create auto scaling group:



Target group created:



Load Balancer created:



Response from Load Balancer: