Lab 07
COS20019
CLOUD COMPUTING ARCHITECTURE

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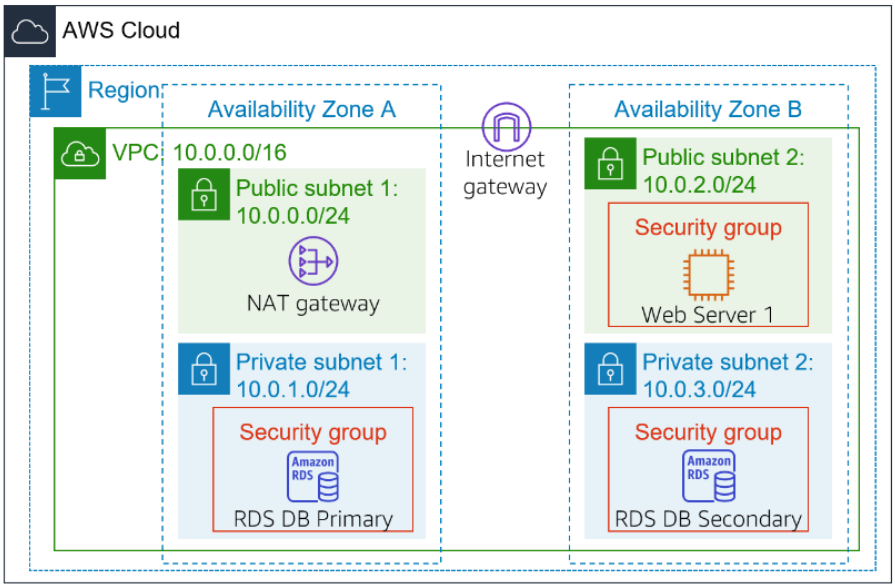
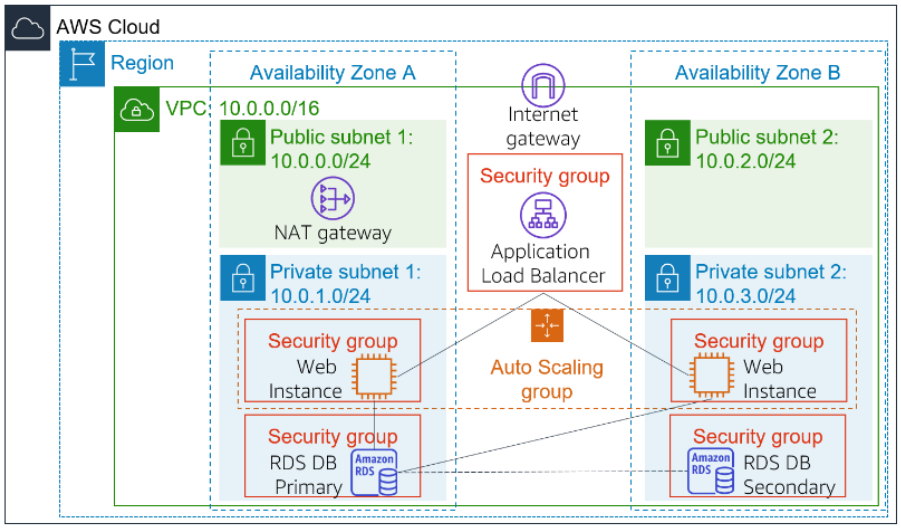
Scenario

You start with the following infrastructure:

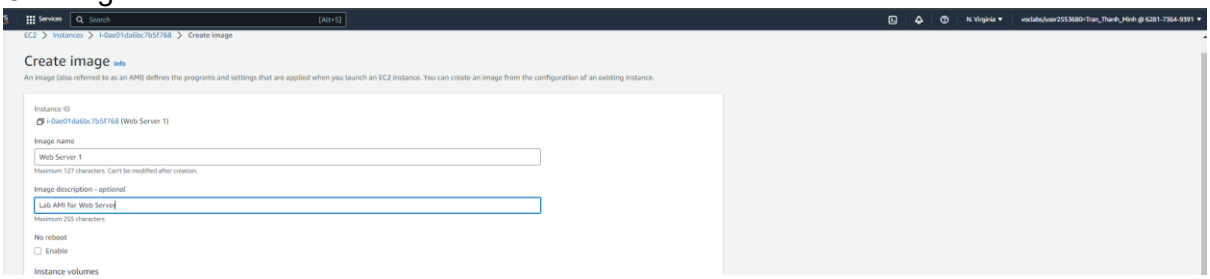


The final state of the infrastructure is:



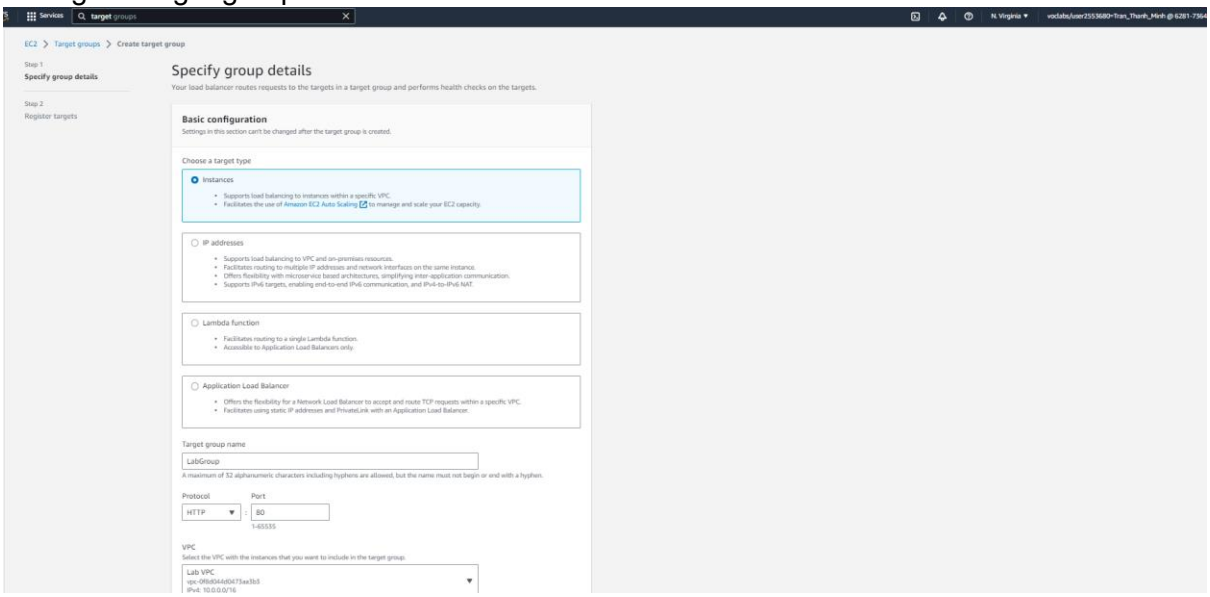
Task 1: Create an AMI for auto scaling

1. Creating AMI

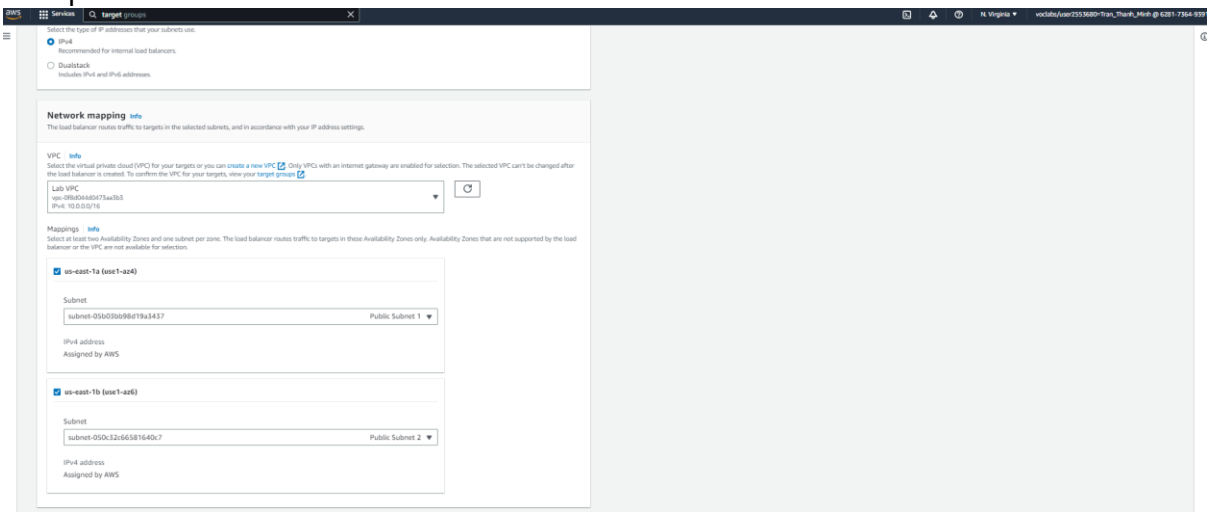


Taks 2: Create a Load Balancer

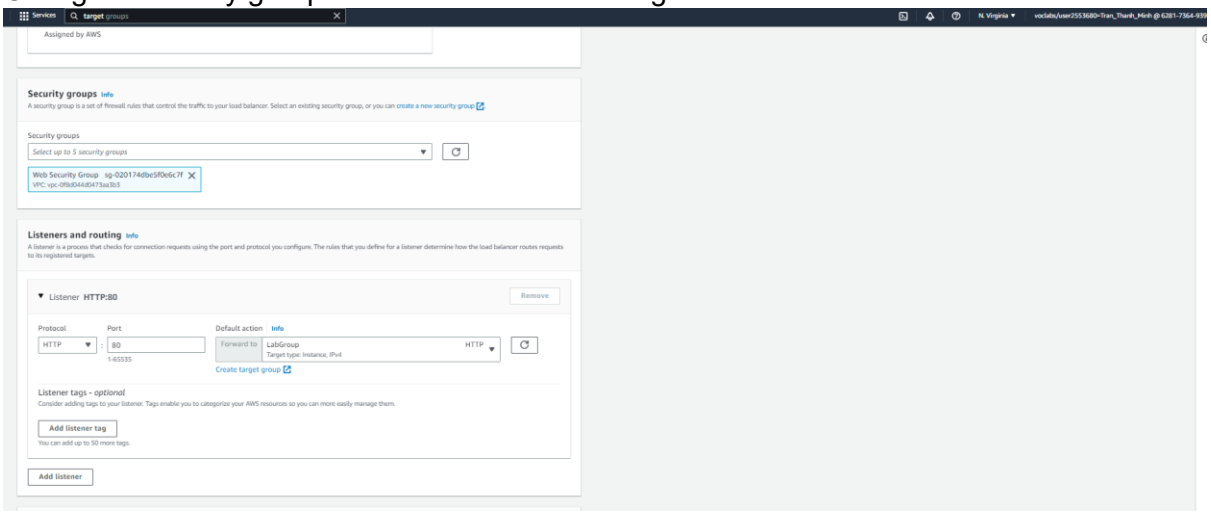
1. Configure target groups base on the instruction from the lab



2. Configure network mapping for the Application Load Balancer with the selection of both public subnets

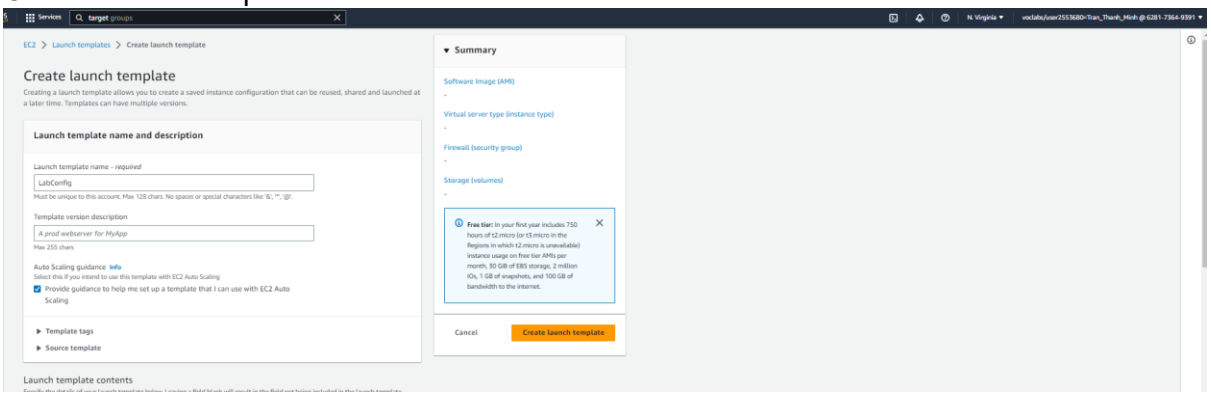


3. Configure security groups and listeners and routing section for the load balancer

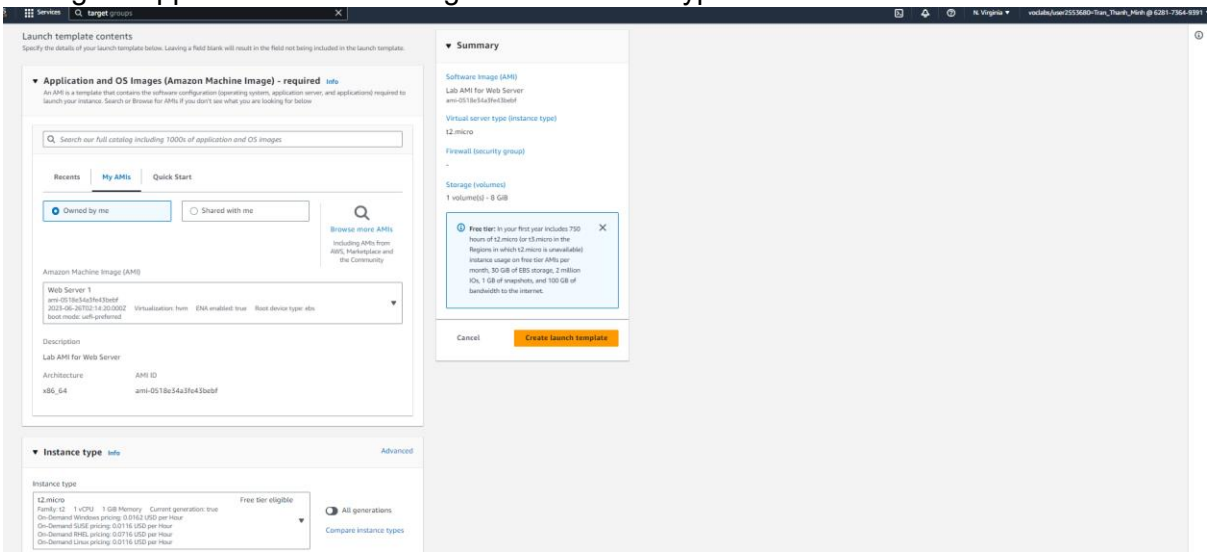


Task 3: Create a Launch Template and Auto scaling group

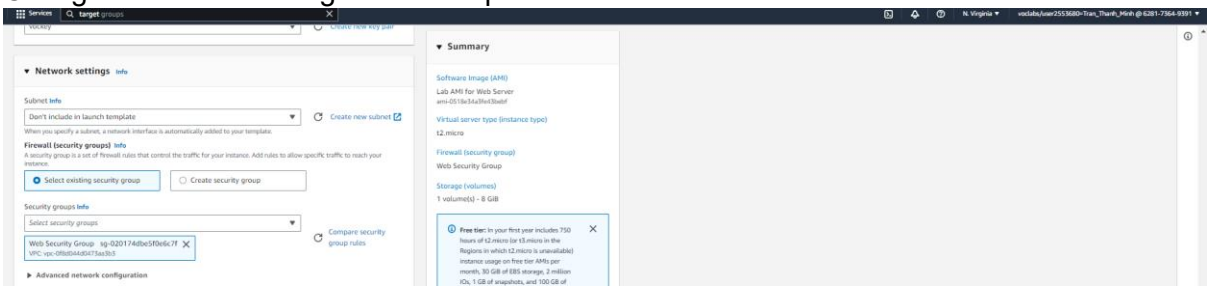
1. Create launch template



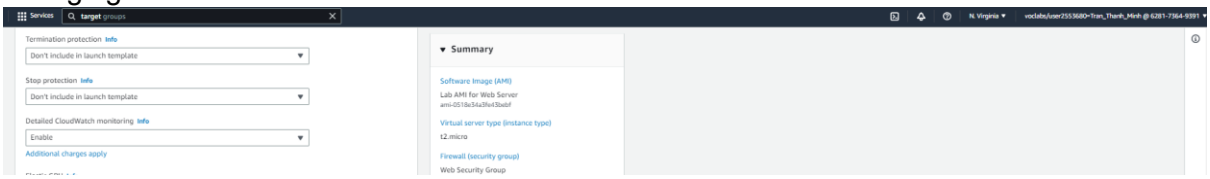
2. Configure Application and OS images and instance type sections



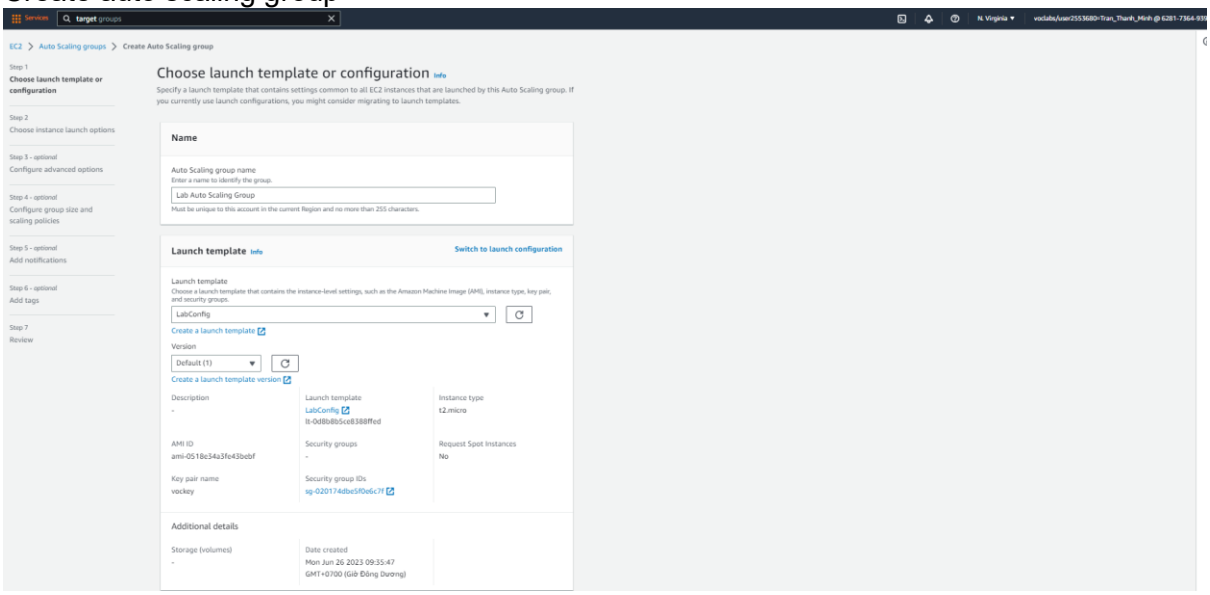
3. Configure network setting for the template



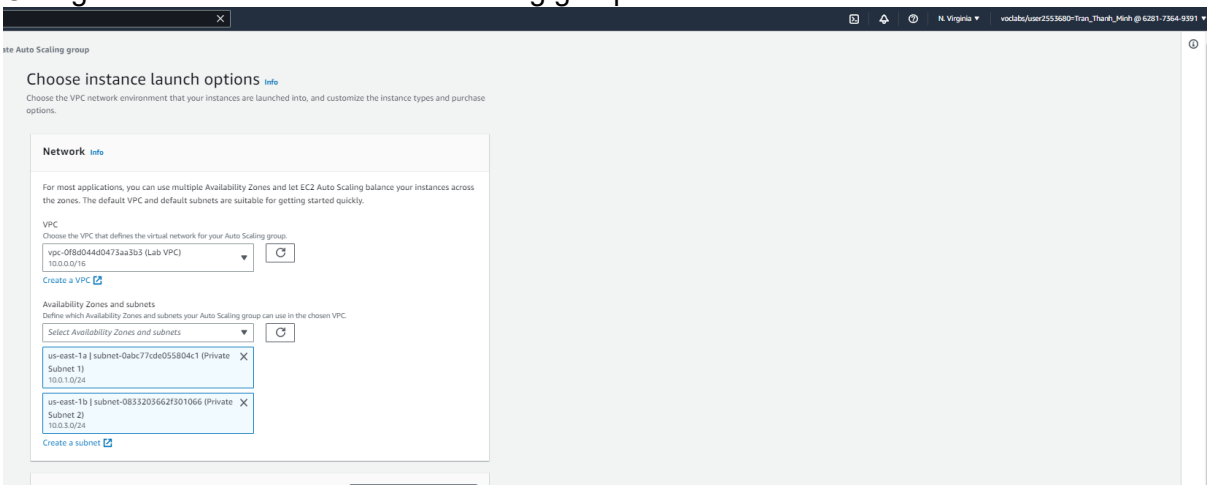
4. Enable detailed cloud watch monitoring for allowing auto scaling to react quickly to changing utilization.



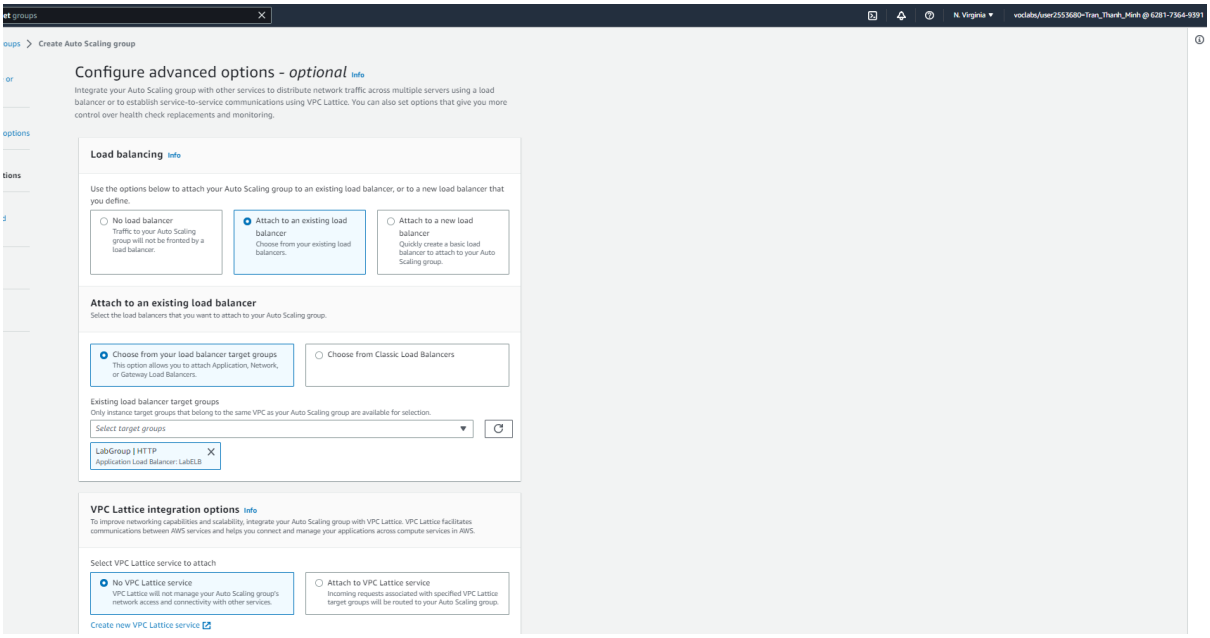
5. Create auto scaling group



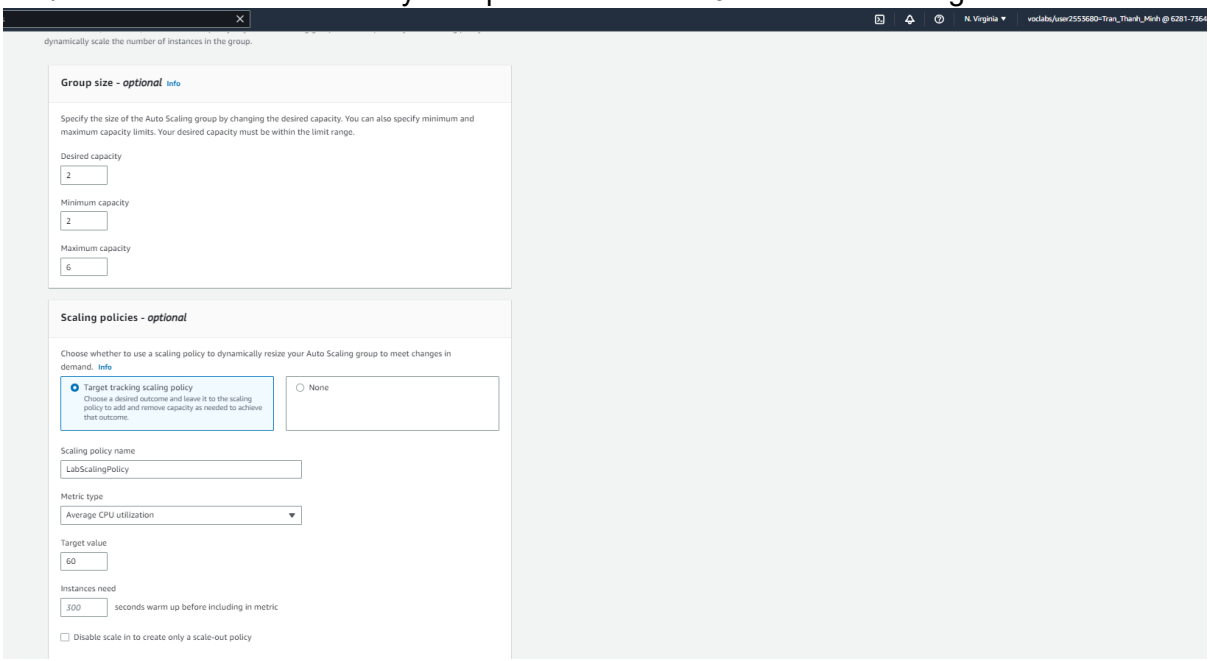
6. Configure the network for the auto scaling group



7. Attach it to the load balancer have been created before , and enable the group metrics collection within cloudwatch.

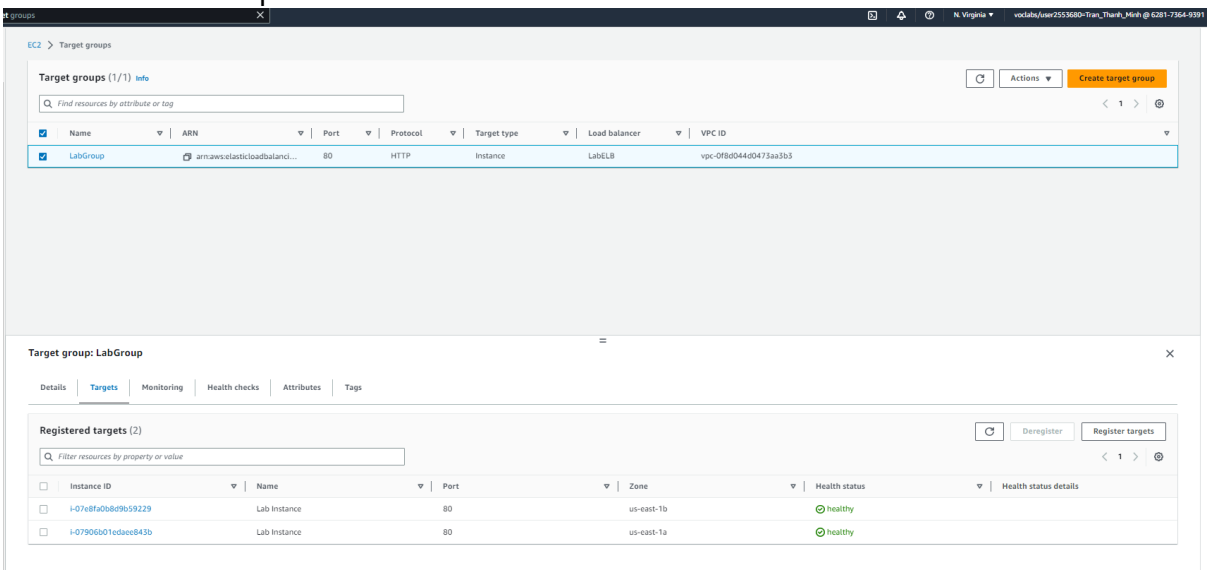


8. Configure group size and scaling policies to ensure auto scaling automatically add/remove instance and always keep between 2 and 6 instances running.

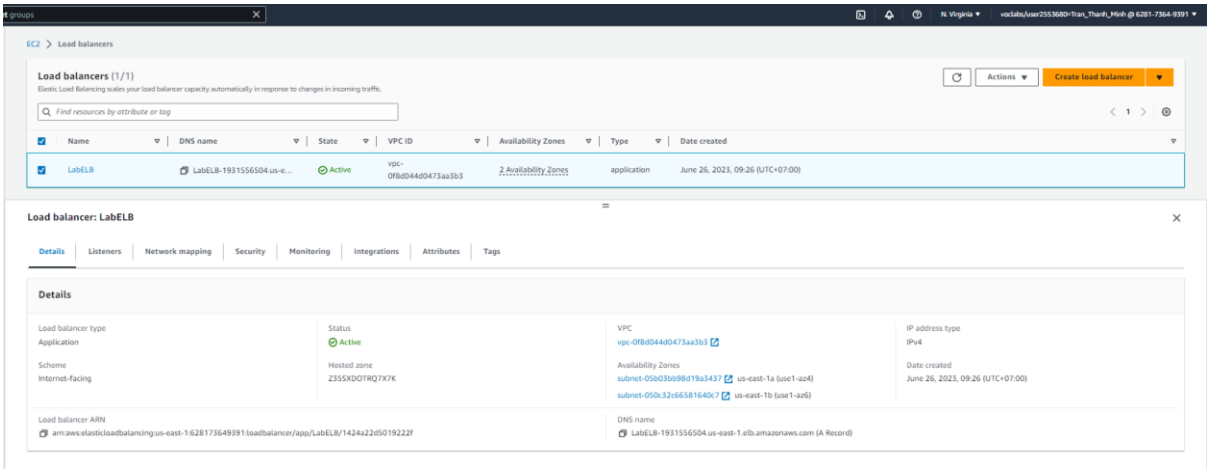


Task 4: Verify that load balancing is working

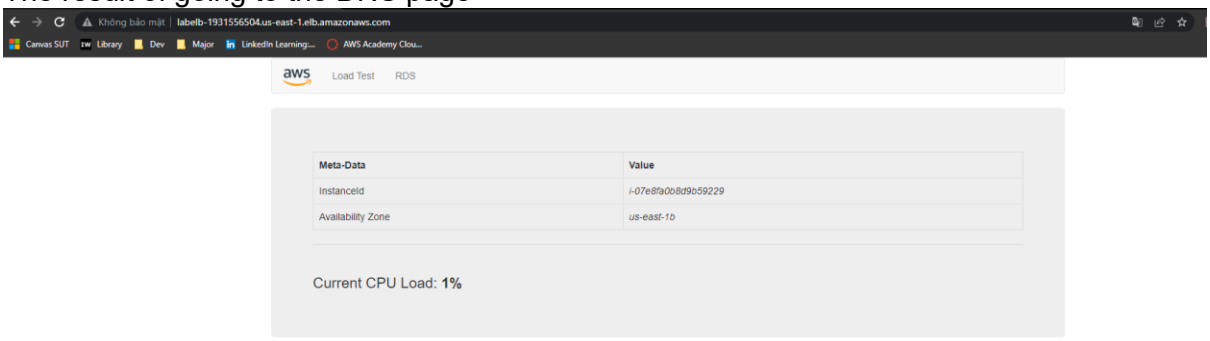
1. Both instances has passed the load balancer's health check



2. Get the DNS name of the load balancer

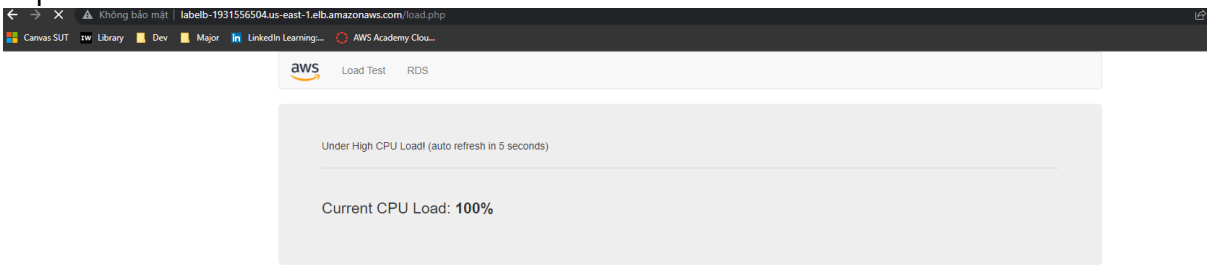


3. The result of going to the DNS page

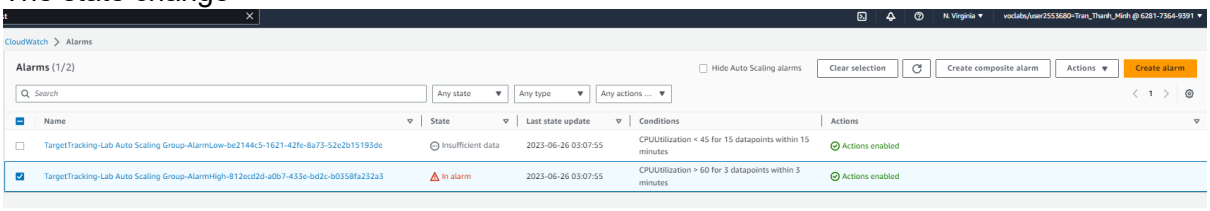


Task 5: Test auto scaling

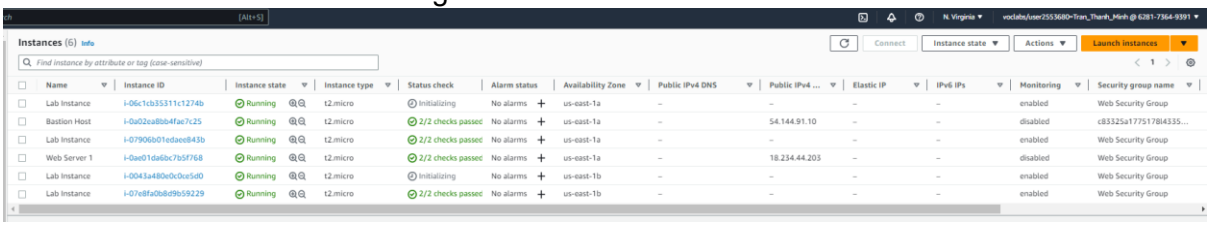
1. Implement load test



2. The state change



3. More than 2 instances are running



Task 6: terminate web server 1

1.