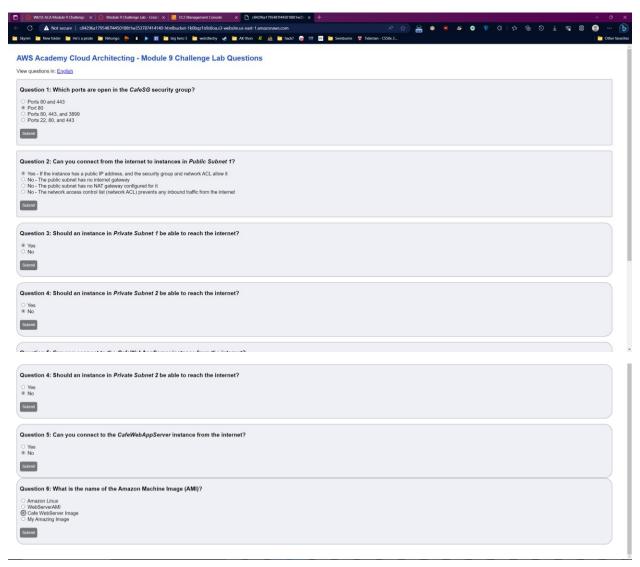
Module 9 - Challenge Lab: Creating a Scalable and Highly Available Environment for the Café

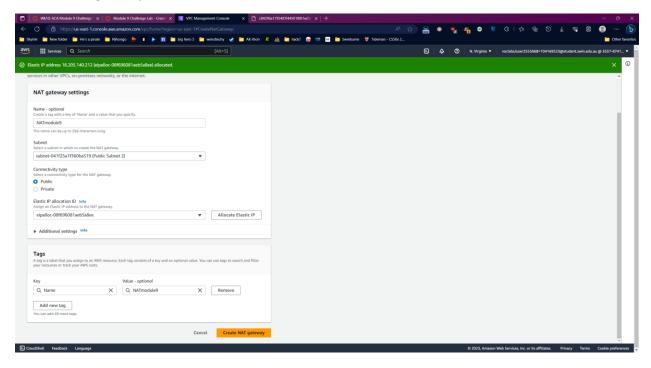
Task 1: Inspecting your environment

Answer the questions:

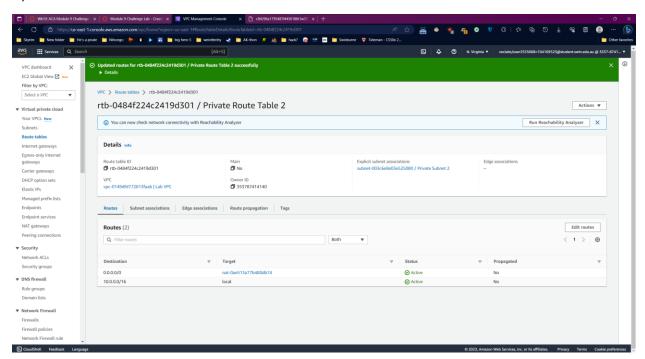


Task 2: Creating a NAT gateway for the second Availability Zone

Create a NAT gateway

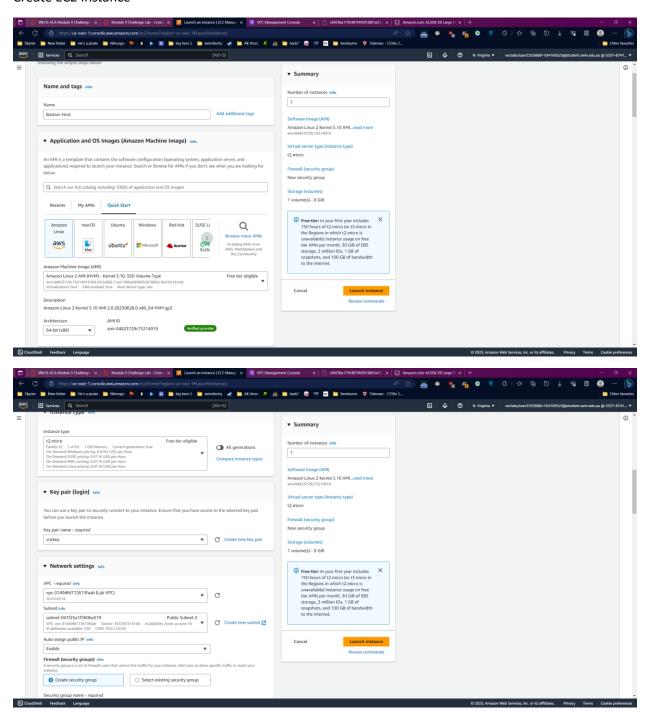


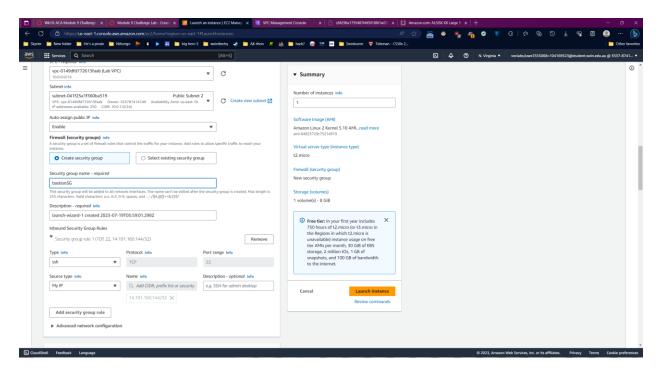
Update the Private Route table 2:



Task 3: Creating a bastion host instance in a public subnet

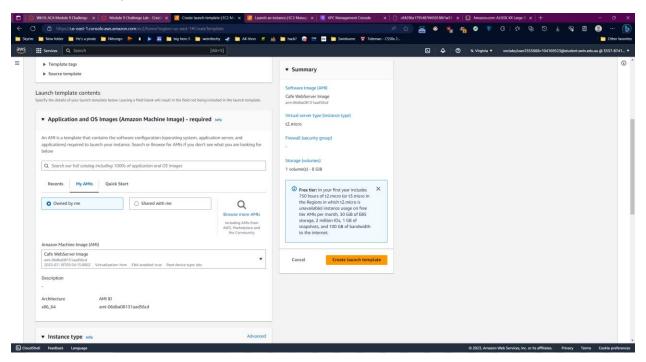
Create EC2 instance



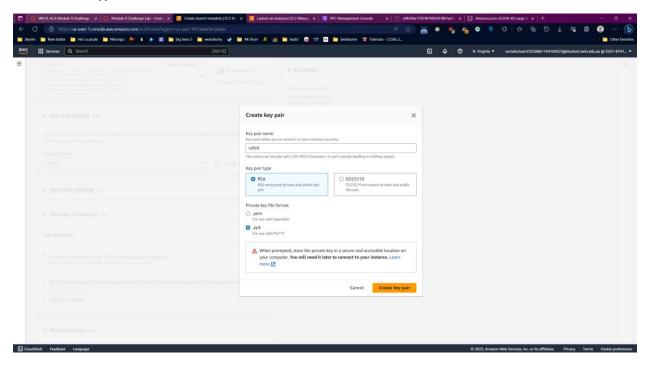


Task 4: Creating a launch template

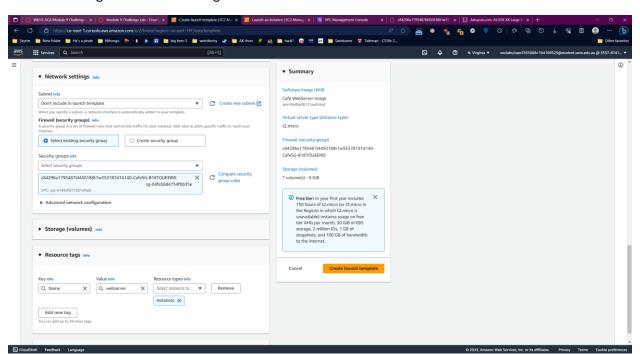
Create launch template



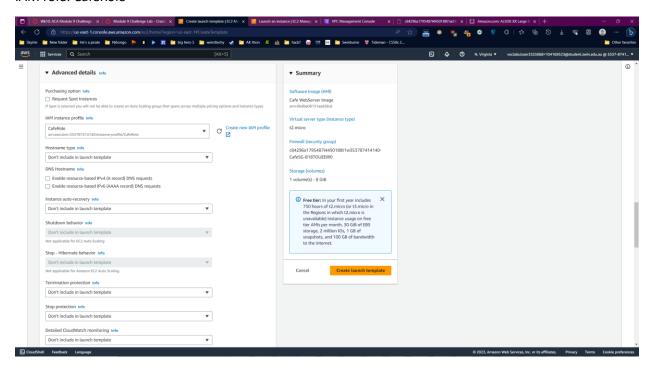
Create new keypair



Network settings and Resources tags

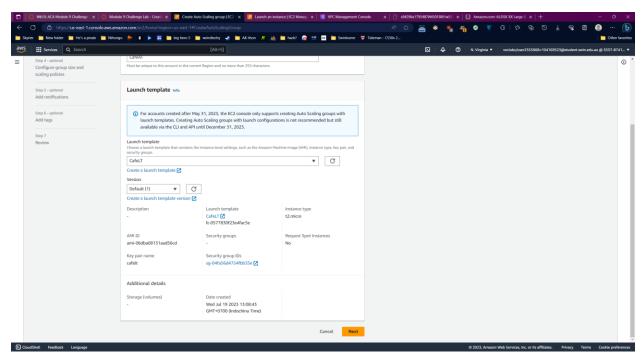


IAM role: CafeRole

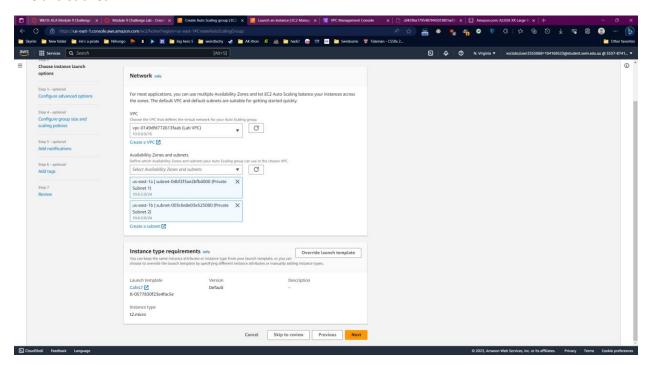


Task 5: Creating an Auto Scaling group

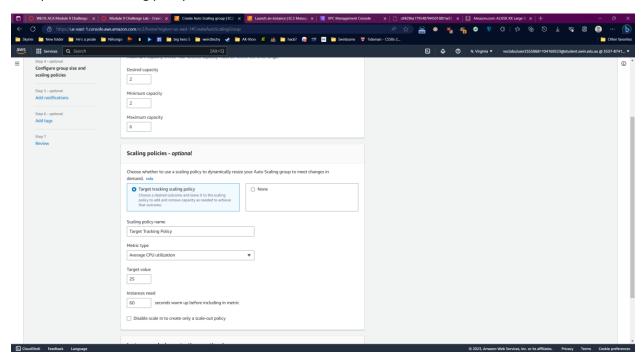
Launch template: the previous one



VPC and subnet

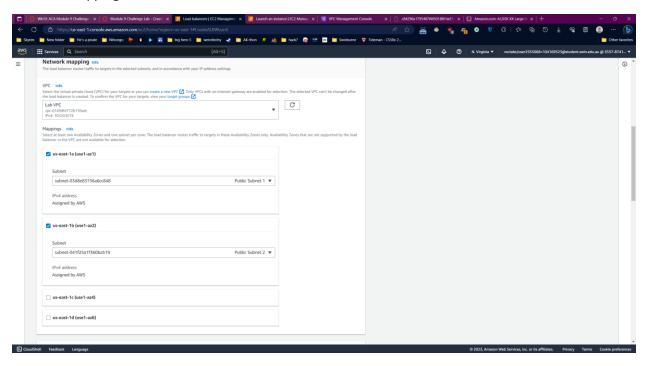


Group sizes and Scaling policy

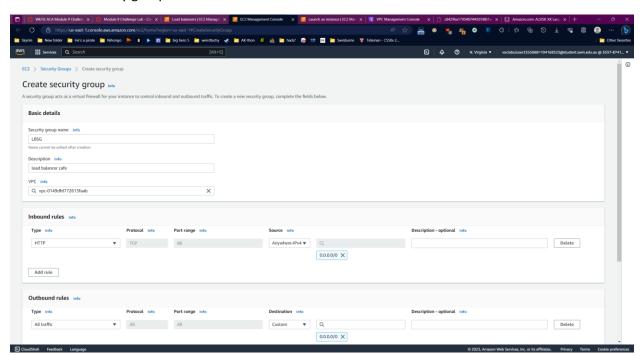


Task 6: Creating a load balancer

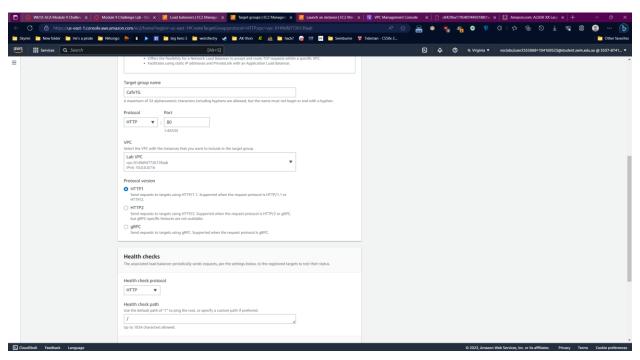
Network Mapping



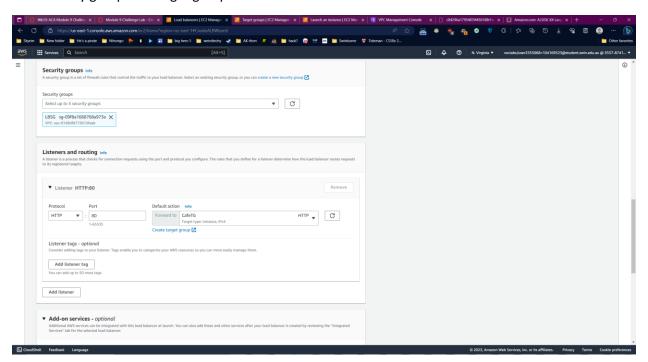
Create new security group



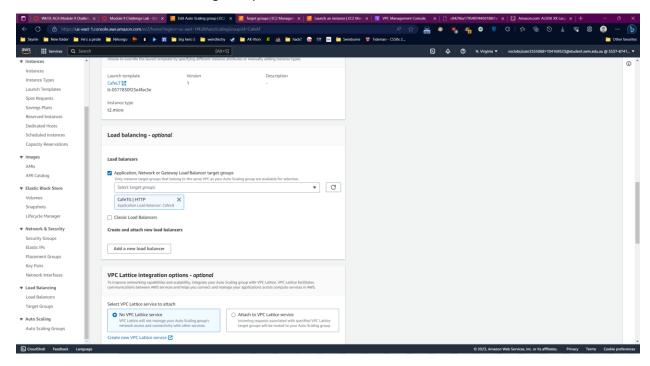
Create new target group



Add security group and target group:

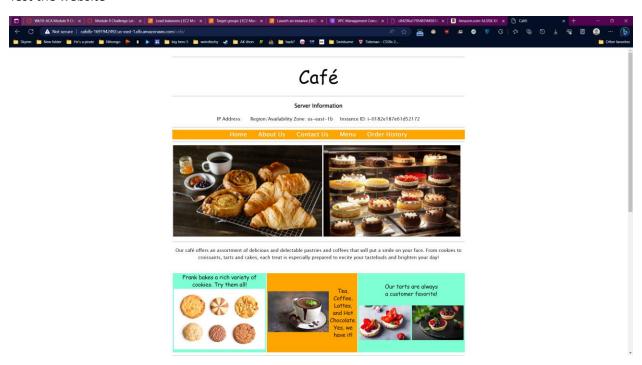


Add Load Balancer to Auto Scaling Group



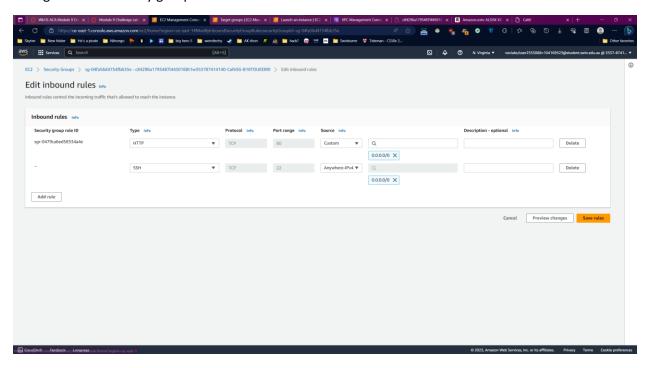
Task 7: Testing the web application

Test the website

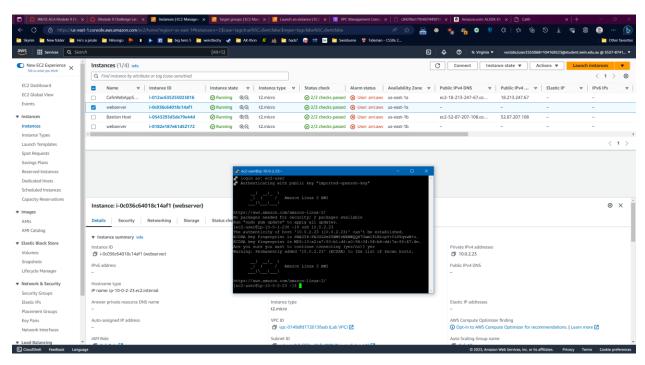


Task 8: Testing automatic scaling under load

Change CafeSG security group



SSH to a webserver instance:



Copy the test command:

