AWS CloudSpace Academy Class promotion:

AWS Cloud & DevOps Engineer 2025

Student: Ebsiy Anslem Ndimongang

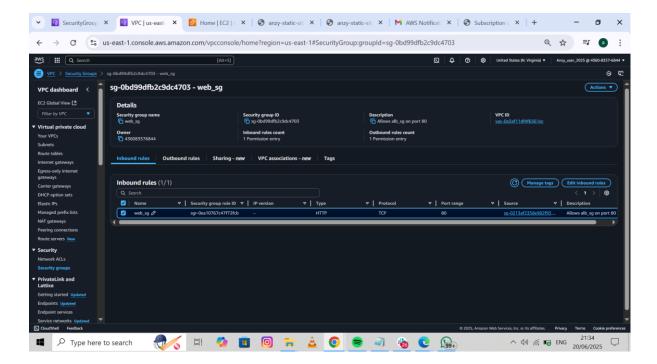
Course: ELB HOMEWORK
Teacher: Narcisse Tcheumo

Homework 1: Internet-facing Load Balancer with Public Subnet

Step 1: Create ALB and Webserver Security Group —> "alb_sg" and "web_sg" alb_sg should allow 0.0.0.0/0 on port 80

web_sg should allow alb_sg on port 80

take screenshot showing inbound rule of web_sg

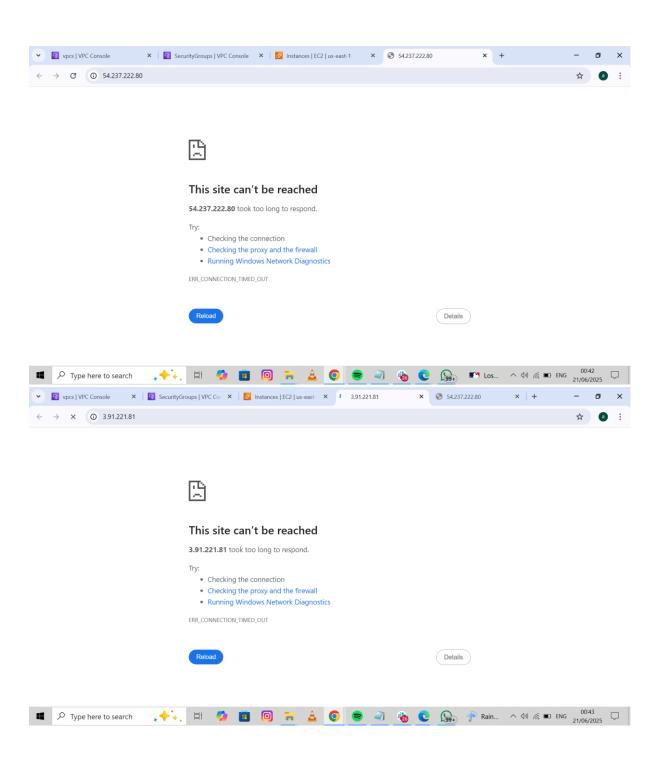


NB: please make sure you TAG your resources and note the alb_sg id

Step 2: Create your Public webservers Image ——> tag: image_server_1 and tag: image_server_2

test using public ip address

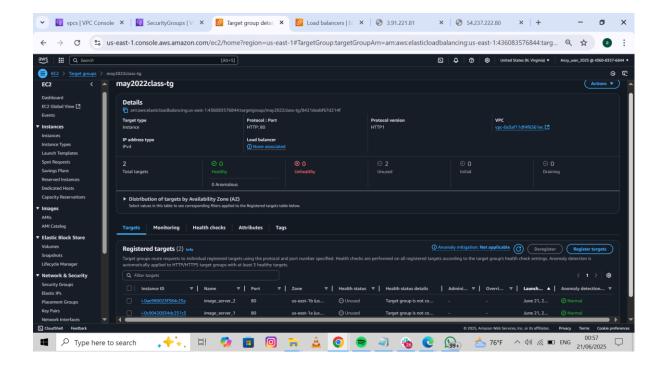
take screenshot showing timeout of both in the browser



Step 3: Create Target Group with targets (Webservers) —> name: "may2022class-tg"

please observe the status

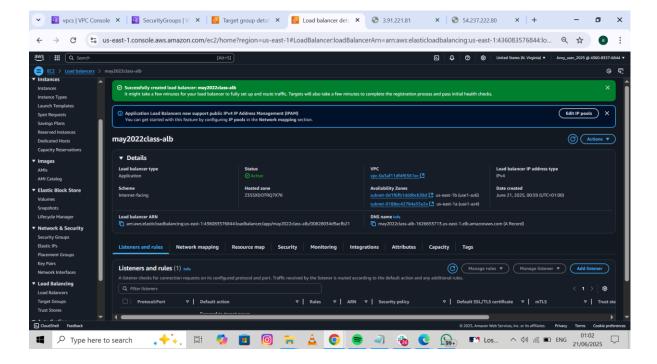
take screenshot showing "Health status details"



Step 4: Create an Application Load Balancer (ALB) —> name: "may2022class-alb"

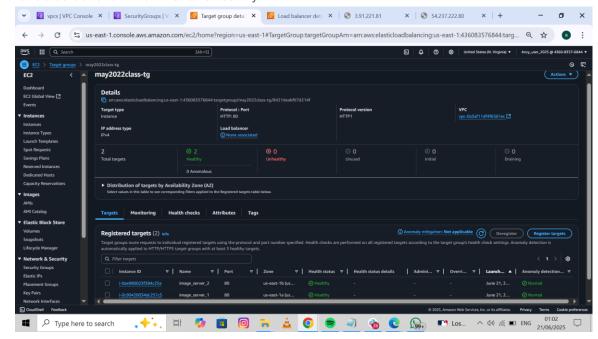
listener on http (80) only

select may 2022 class-alb > click on Listener and take a screen shot



Step 5: Observe the target group status again in the console

• take a screenshot when it shows healthy

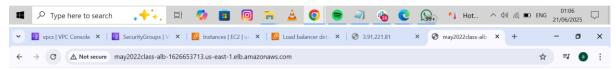


Step 6: test your website in a browser using the ALB dns name and refresh multiple time

• take screenshots of both Blue and Red



Welcome to the Image Server 1 (Blue)

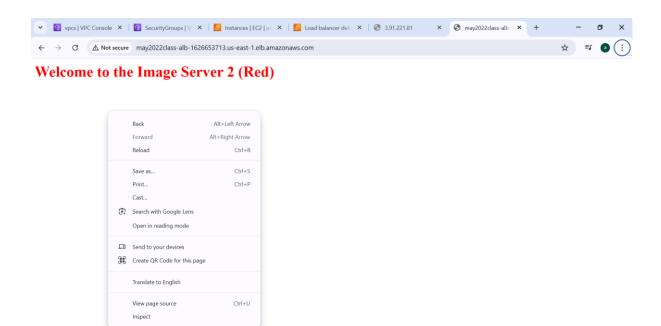


Welcome to the Image Server 2 (Red)



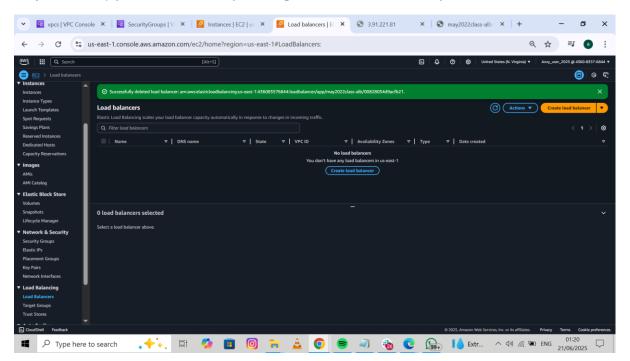
Step 7: stop webserver 1 and test again to see which server is now responding

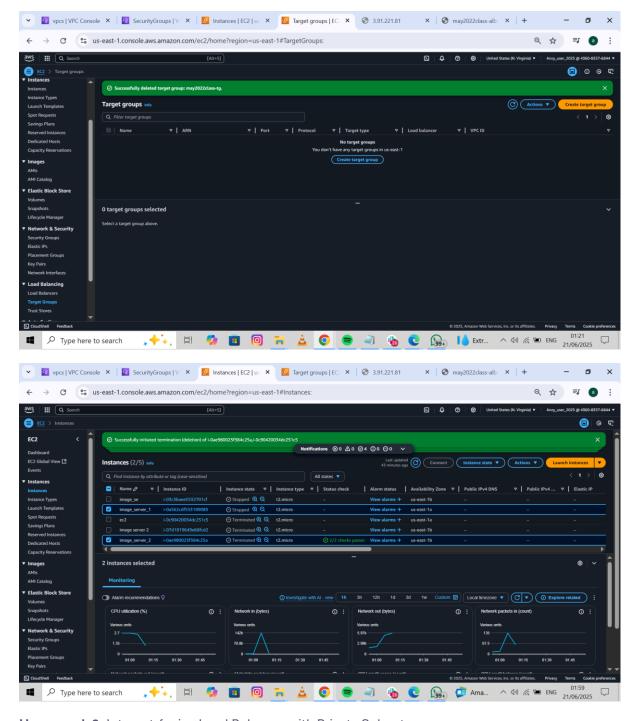
take a screenshot



Step 8: clean up your environment by deleting in the reverse order that you created all resources

■ P Type here to search





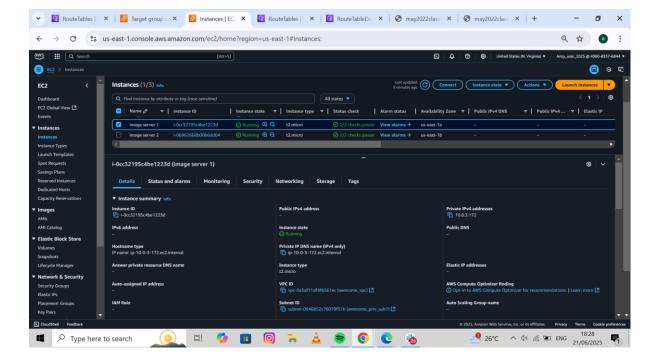
Homework 2: Internet-facing Load Balancer with Private Subnet

Repeat All step in **Homework 1** except step 2, create your EC2 Instance in the Private Subnet

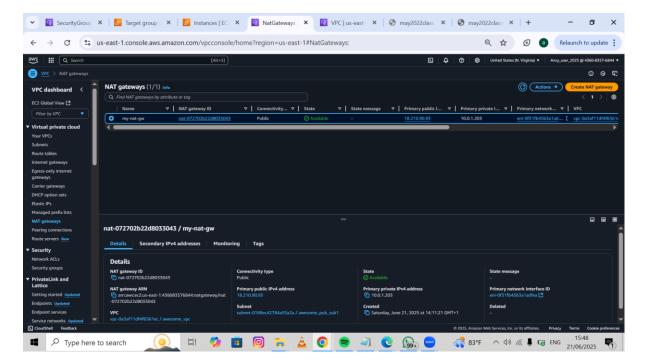
NB: read step 2 in Homework 1 carefully

use any resource to make this to work

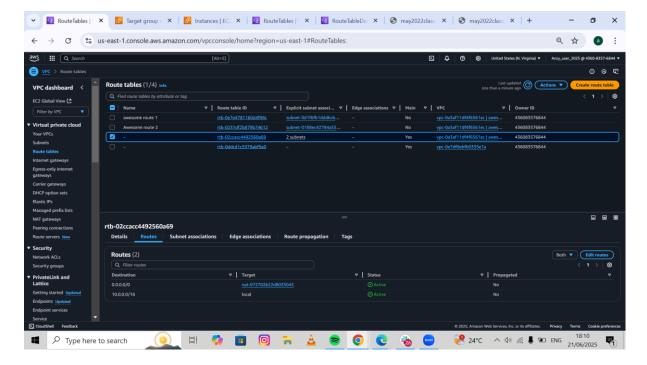
Launch 2 EC2 instances on private subnets



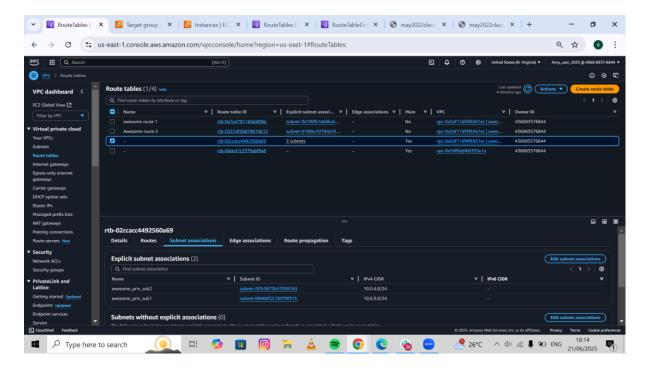
Configure a NAT GW to a public subnet and associate an elastic ip



The NAT GW associated to a route



Associate the route table to the private subnets

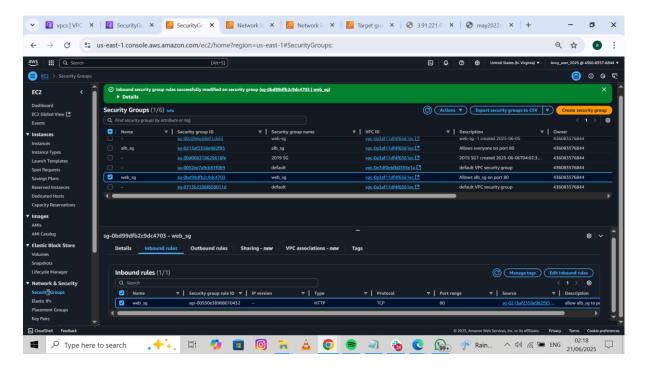


FOLLOW THE STEP 2-7 FROM HOMEWORK 1

Step 1: Create ALB and Webserver Security Group —> "alb_sg" and "web_sg" alb_sg should allow 0.0.0.0/0 on port 80

web_sg should allow alb_sg on port 80

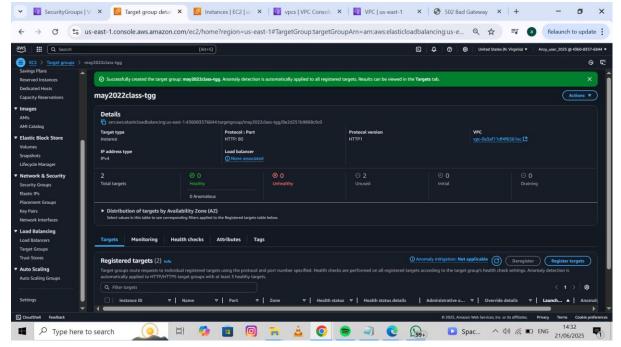
take screenshot showing inbound rule of web_sg



Step 3: Create Target Group with targets (Webservers) —> name: "may2022class-tg"

please observe the status

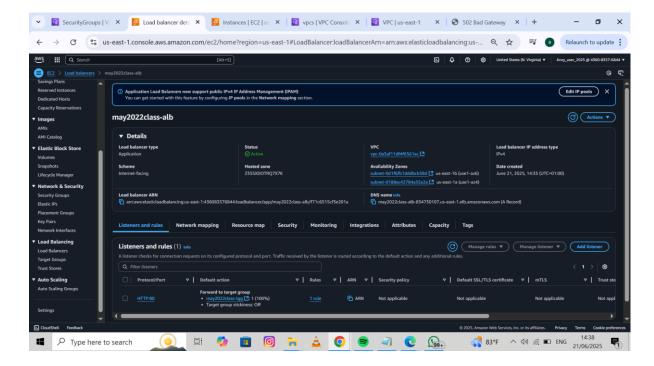
take screenshot showing "Health status details"



Step 4: Create an Application Load Balancer (ALB) --- > name: "may2022class-alb"

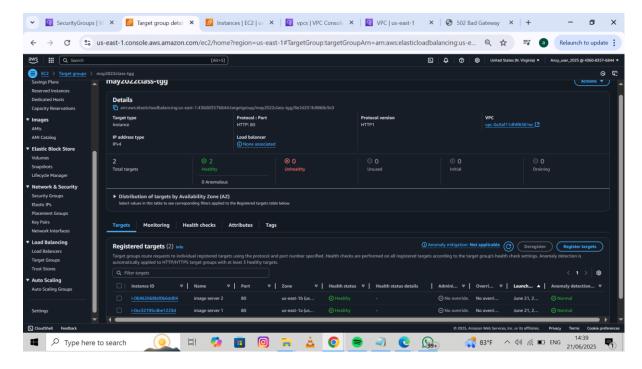
listener on http (80) only

select may2022class-alb > click on Listener and take a screenshot

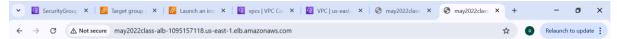


Step 5: Observe the target group status again in the console

take a screenshot when it shows healthy



Step 6: test your website in a browser using the ALB dns name and refresh multiple time



Welcome to the Image Server 1 (Green)

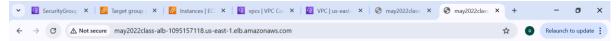


Welcome to the Image Server 2 (Purple)



Step 7: stop webserver 1 and test again to see which server is now responding

take a screenshot



Welcome to the Image Server 2 (Purple)



Step 8: clean up your environment by deleting in the reverse order that you created all resources

• take screenshots of both Blue and Red