AWS RESOURCES CREATED IN MANAGEMENT CONSOULE

1. Created a VPC
2. Created 2 public subnets & 2 private subnets in two availability zones respectively
3. Created 1 public route table and 2 private route table
4. Associated 2 public subnets to that 1 public route table and 2 private subnets to 2 different private route table respectively
5. Created an igw and attached it with the vpc and with 1 public route table
6. Created 2 elastic ips and 2 NAT gateways
7. Attached 2 NAT gateways to 2 different private route tables
8. Created an autoscaling group to create 2 ec2 instances in 2 private subnets in two different availability zones and to maintain the instances stable
9. Through the bastion host we will be login to private instances
10. And created an application load balancer to route the traffic properly between two ec2 instance

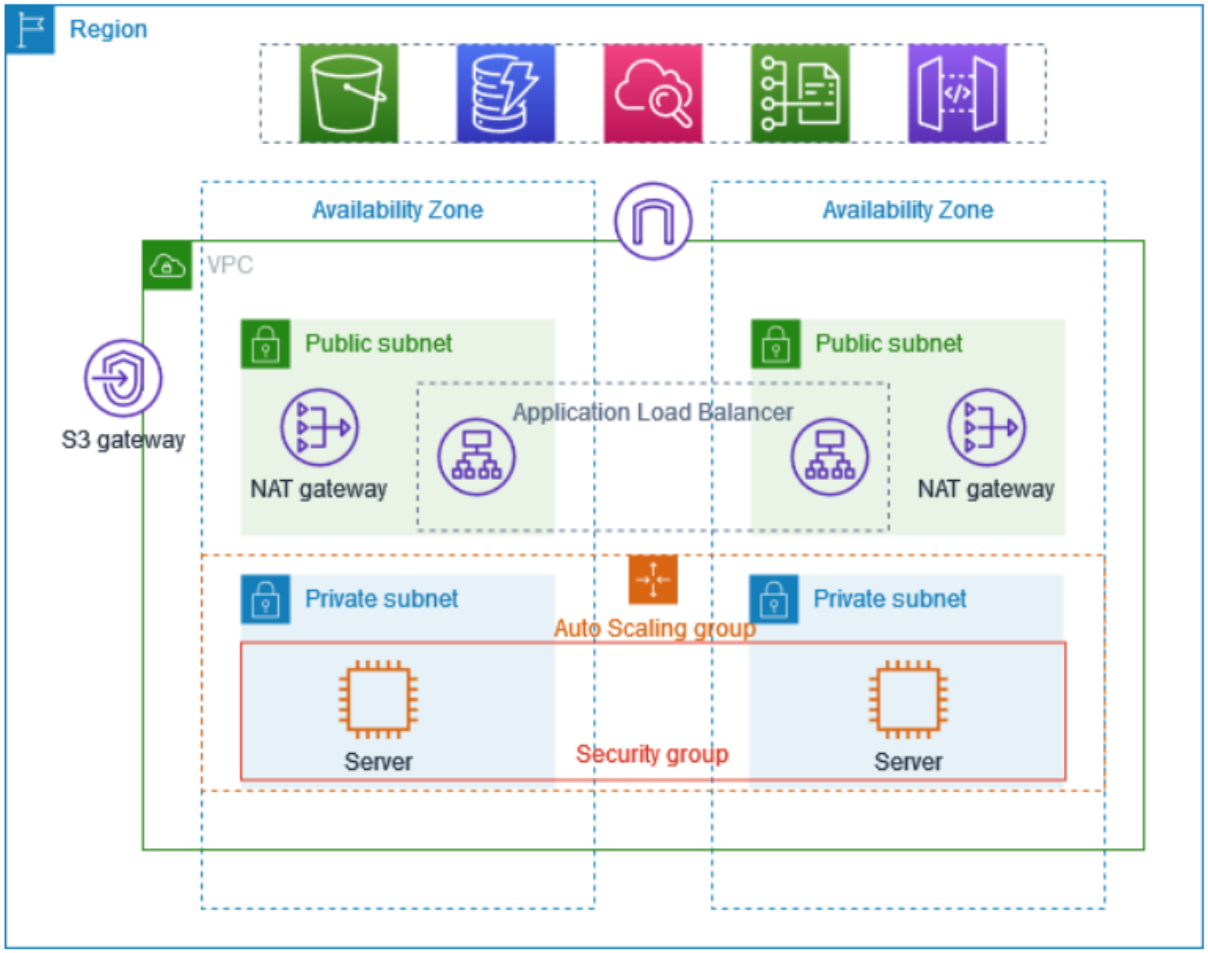
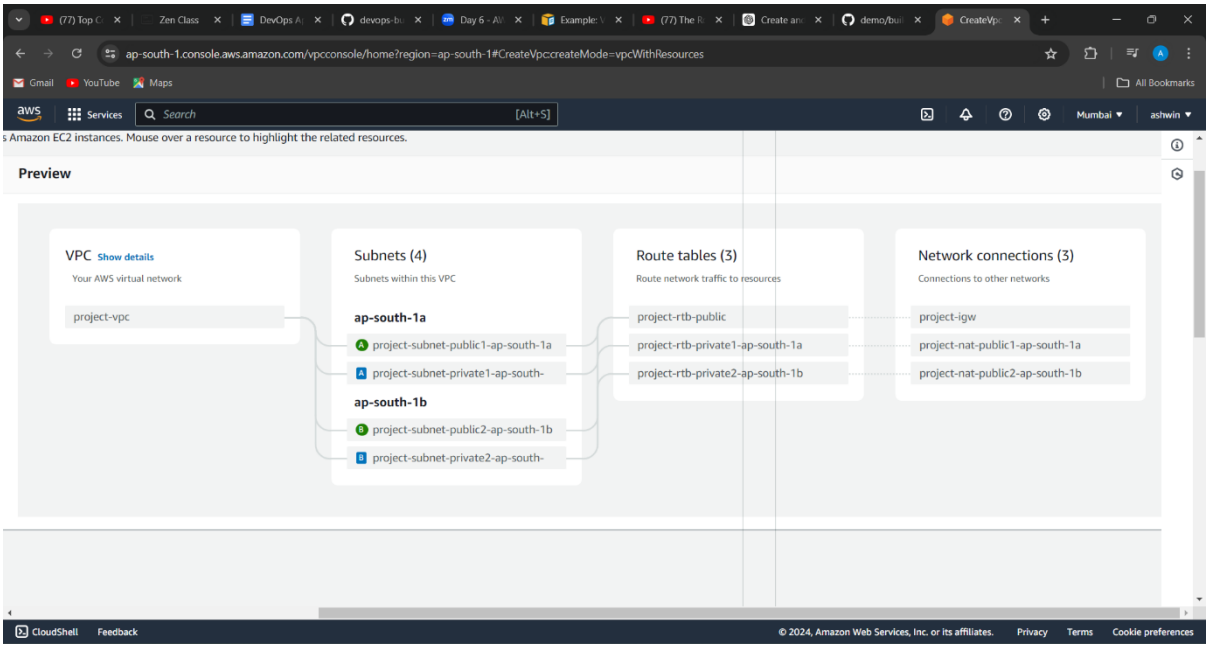
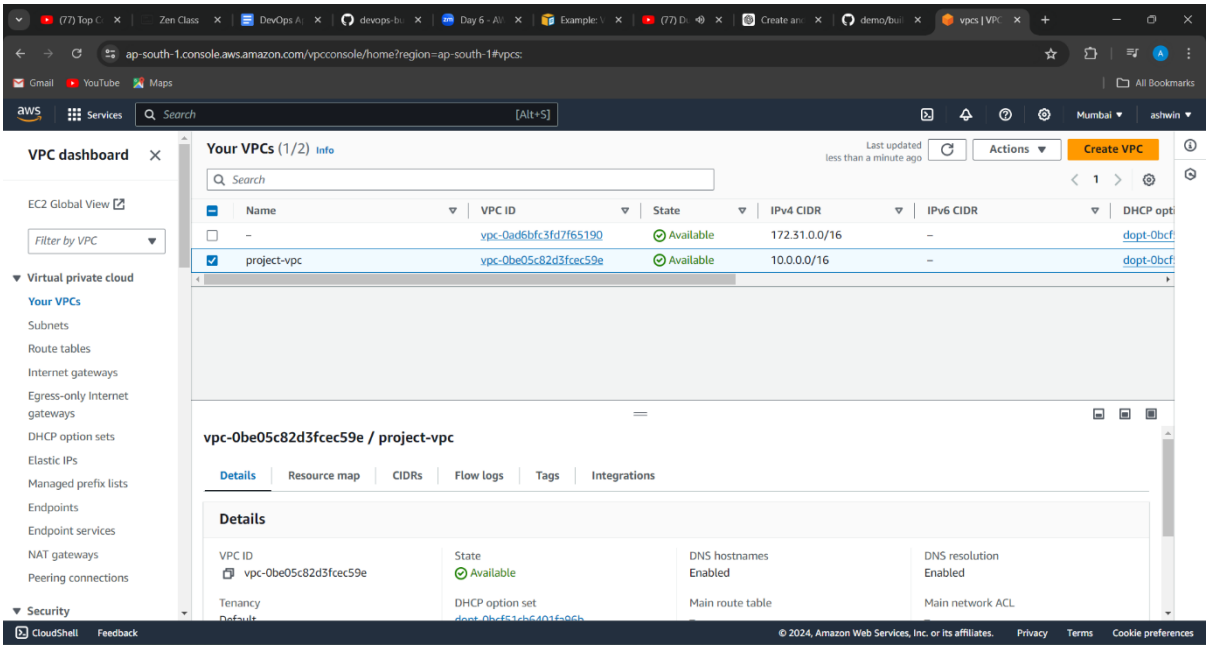


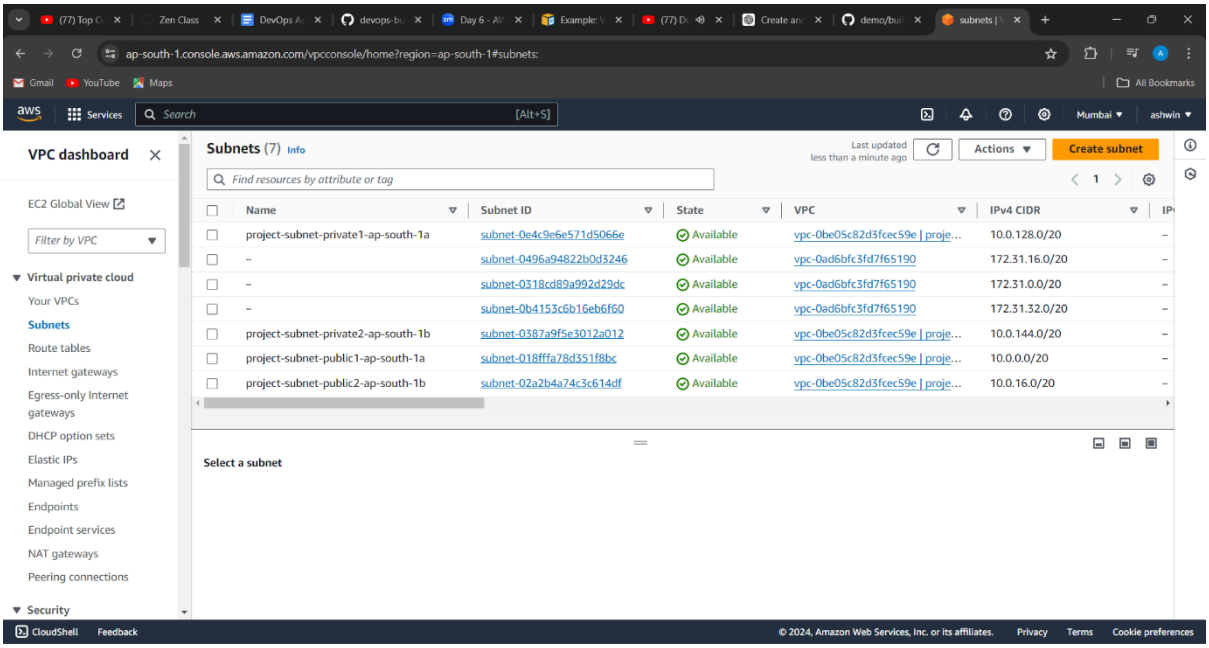
Diagram of the project



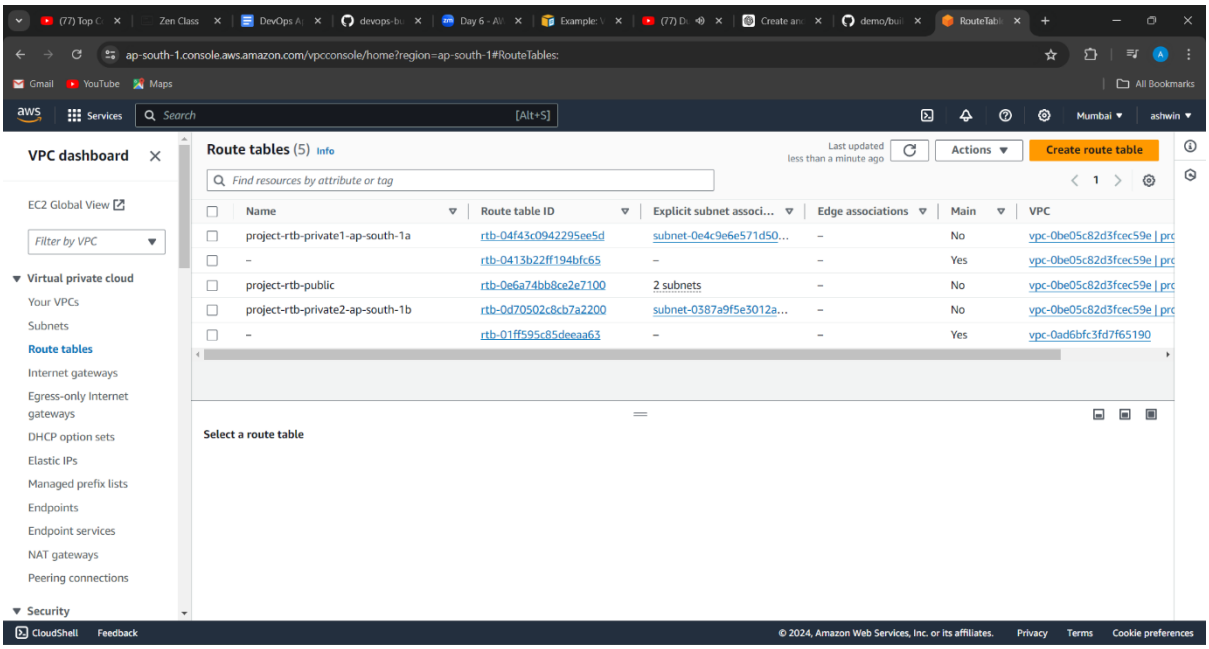
1.consoule diagram of the resources



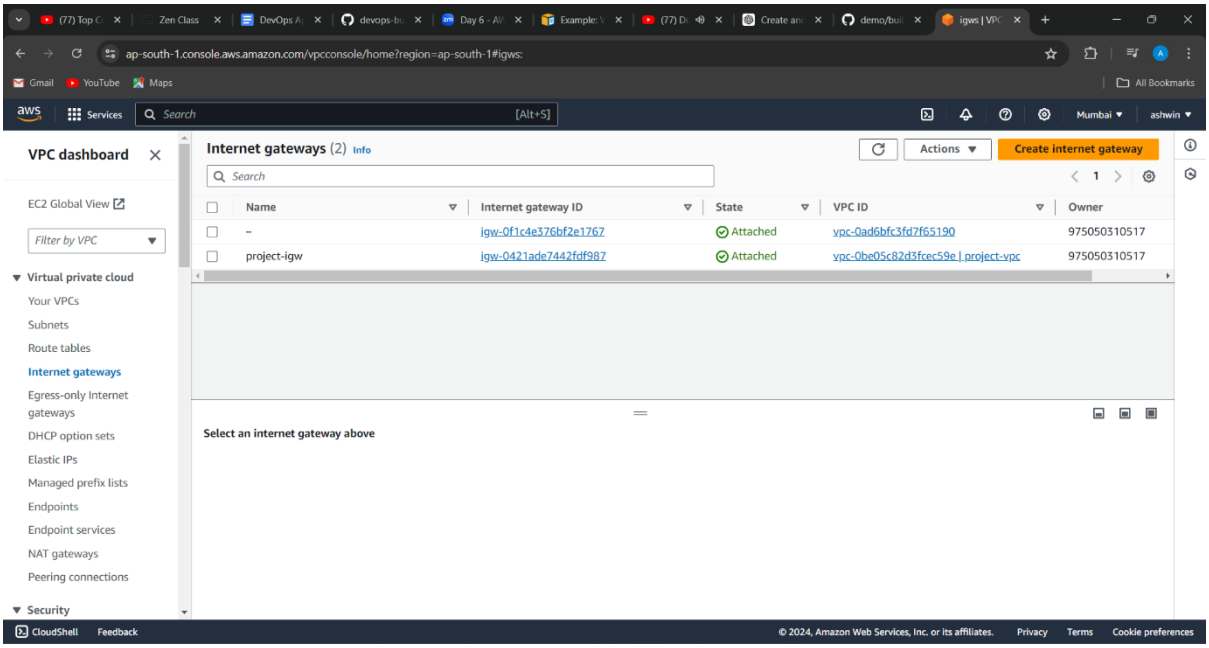
2.created a VPC



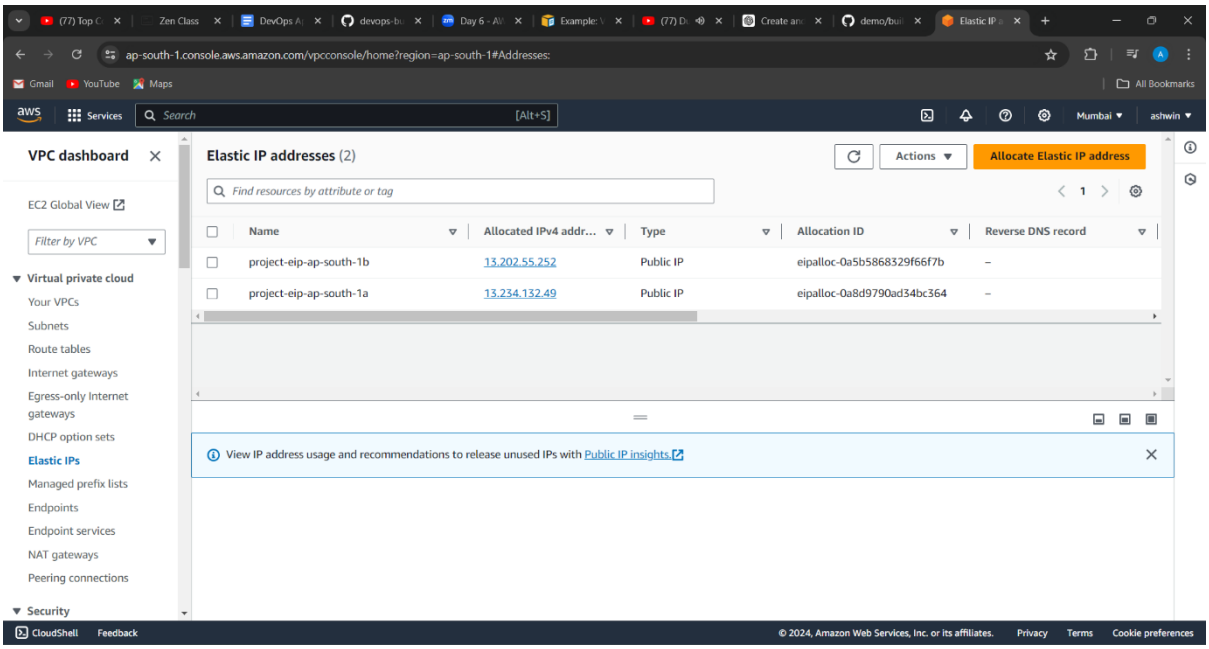
3.created 4 subnets with 2 public and 2 private subnets



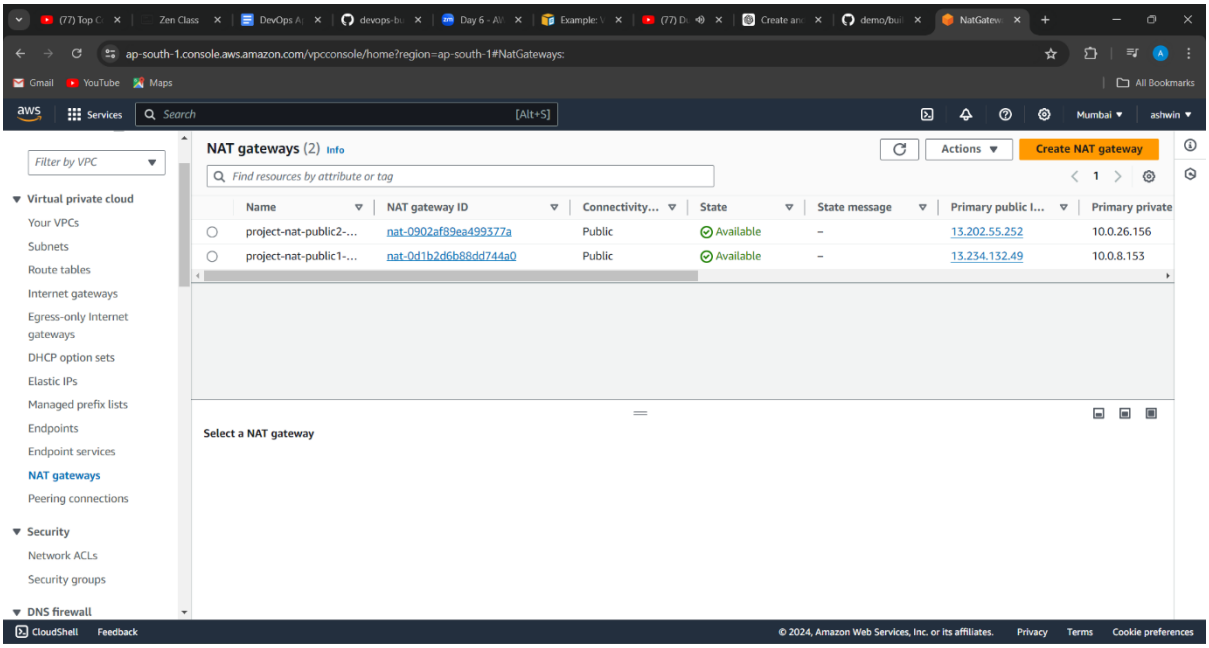
4.created 3 route tables 1 for public and 2 for private subnets



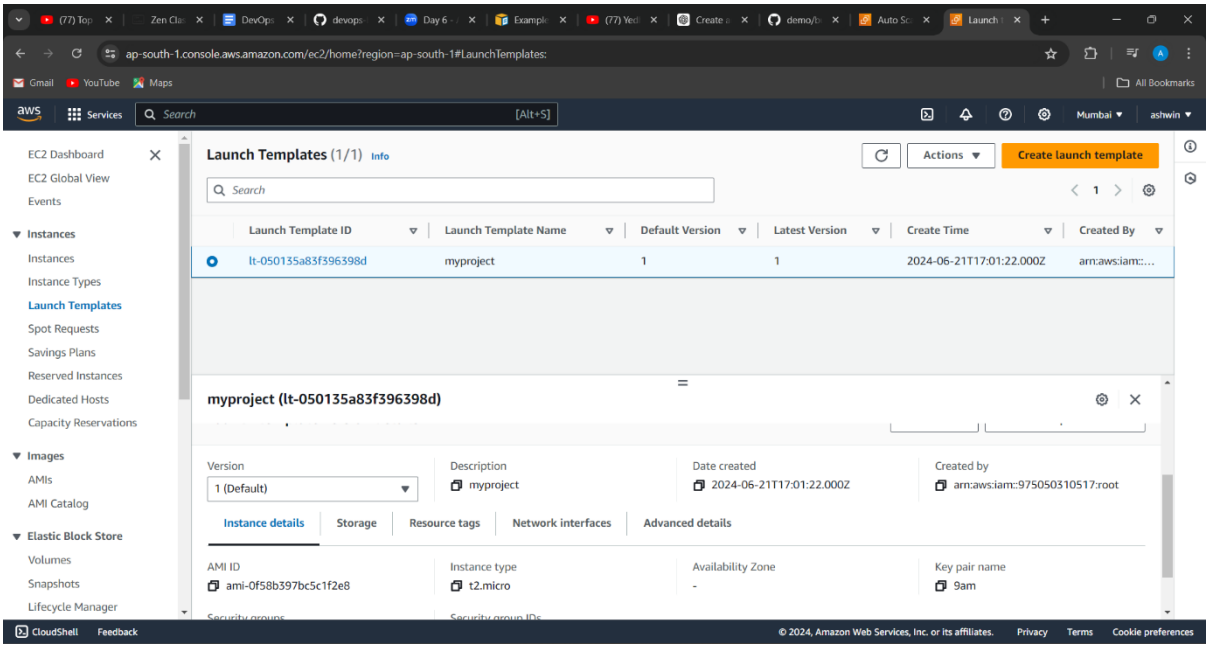
5.created an igw and attached to vpc and public route table



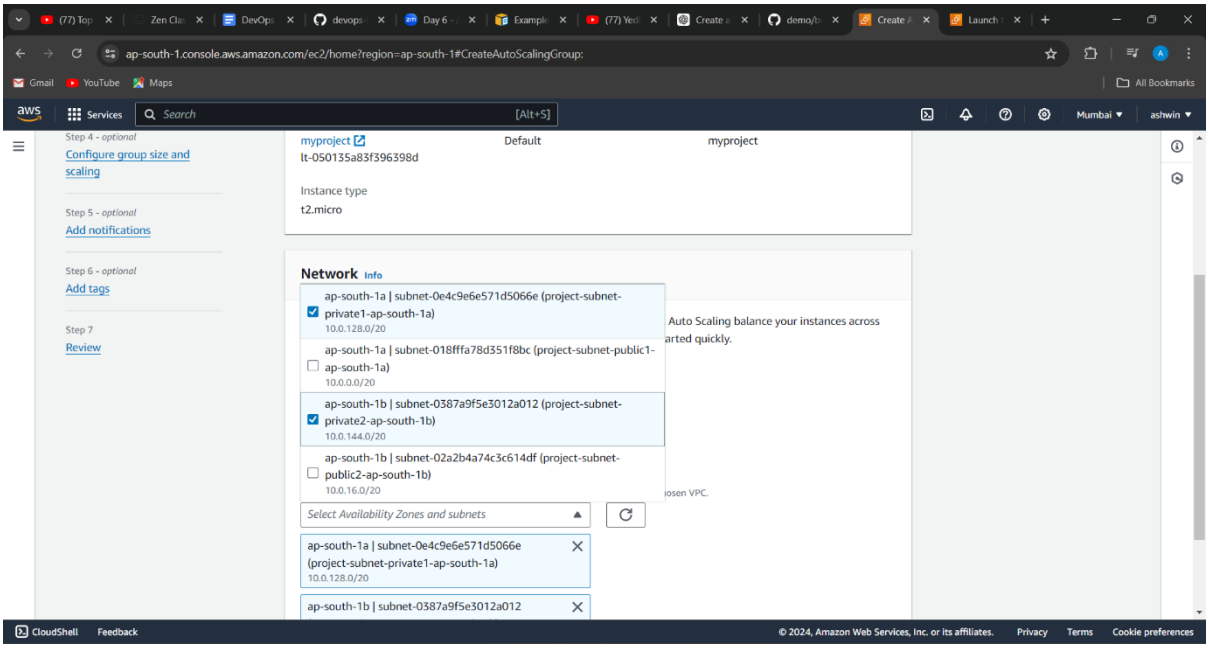
6.created 2 elastic ips to create 2 NAT gateways



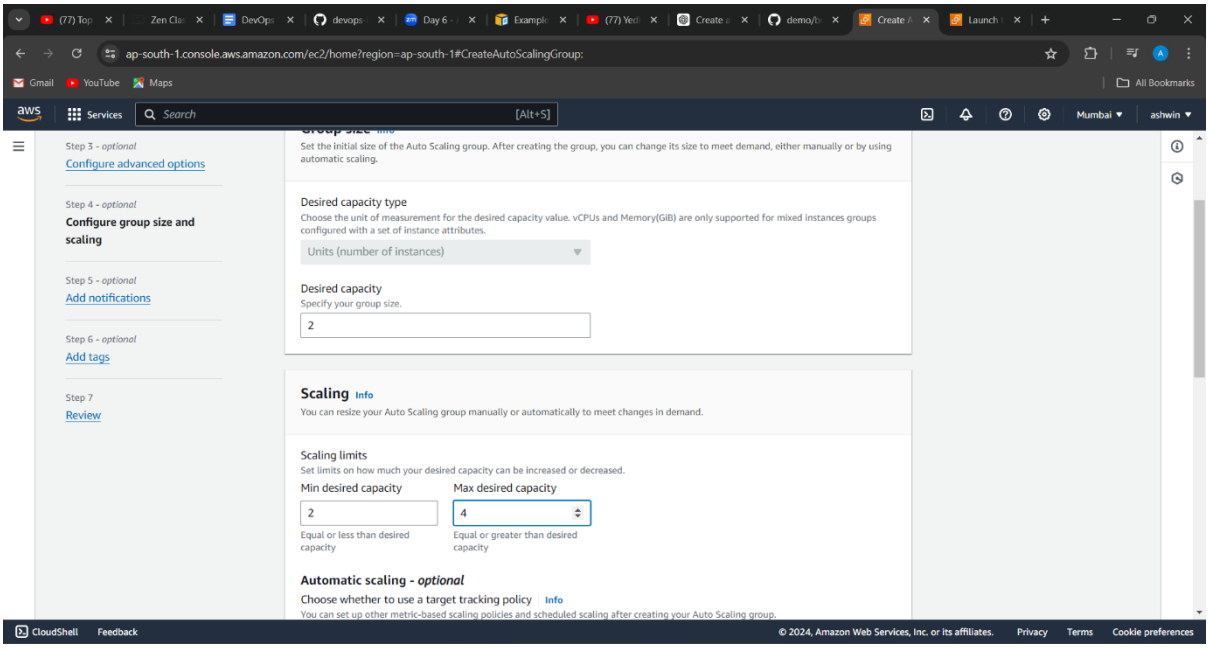
7.created two nat gateways for each route tables



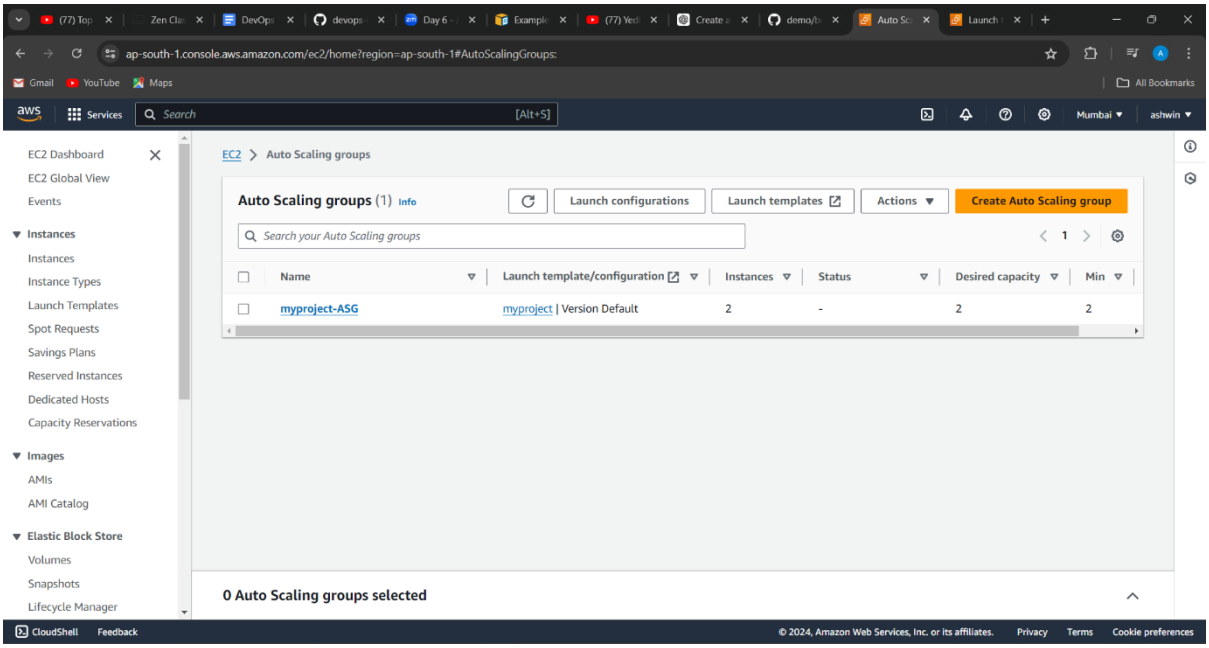
8. Created a launch template to create autoscaling group



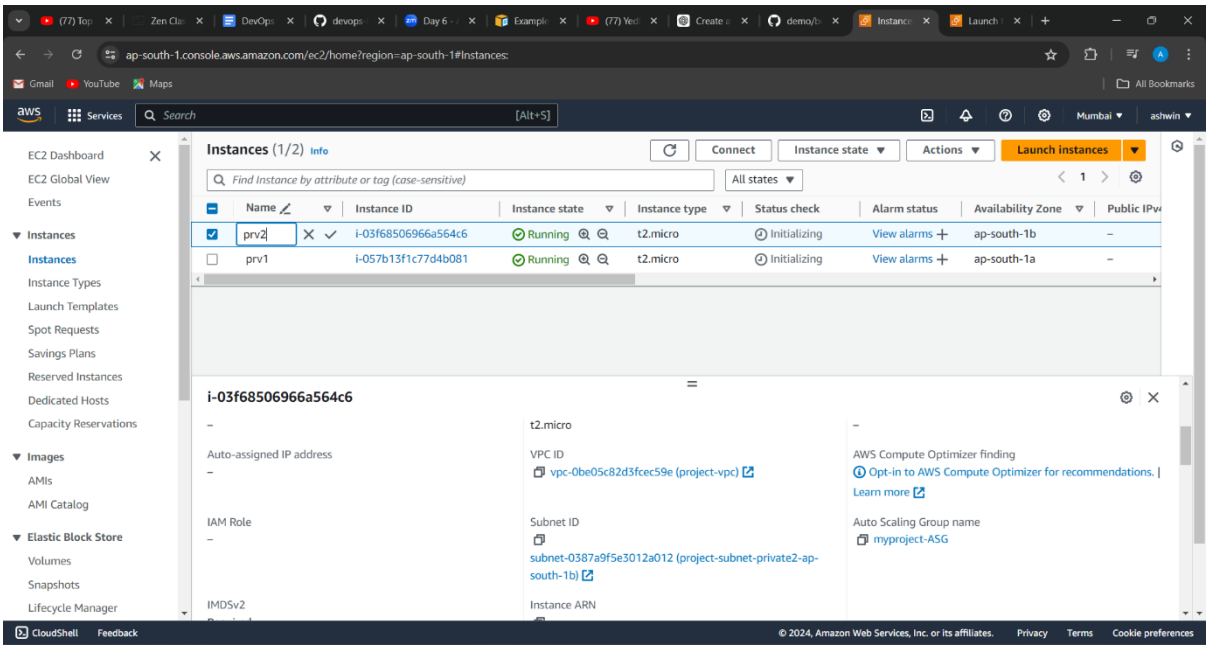
9. in autoscaling group selecting the 2 private subnets were the ec2 instance has to be created



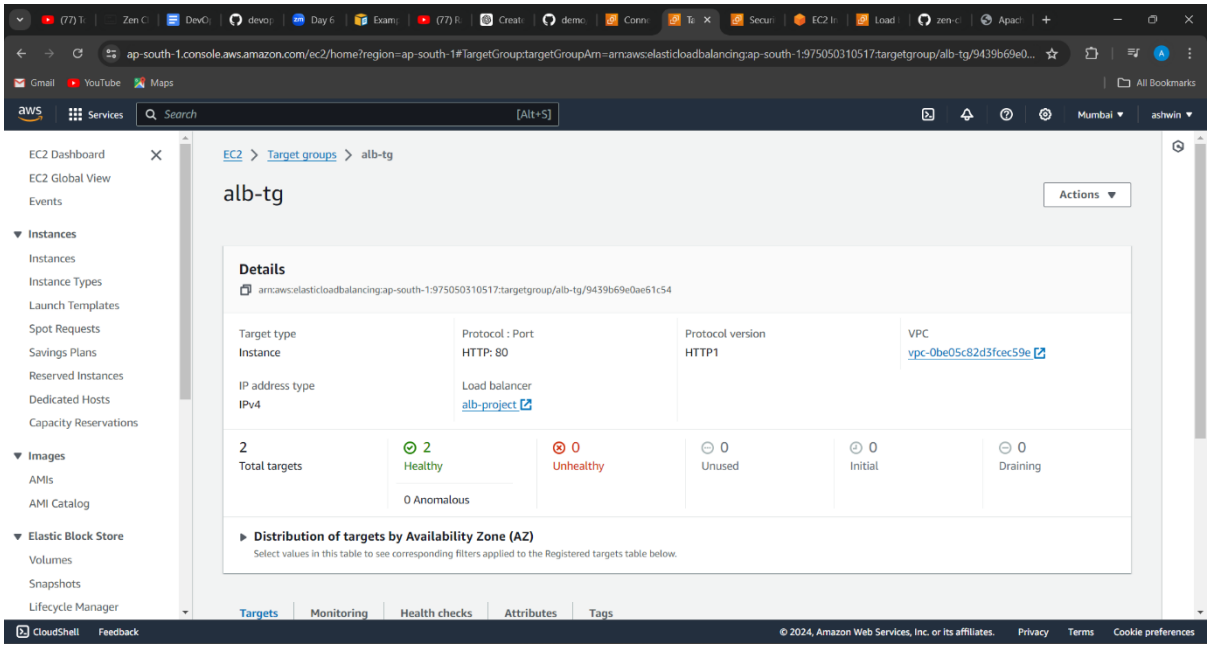
10 specifying desired capacity of ec2 instances and min & max capacity to maintain the load



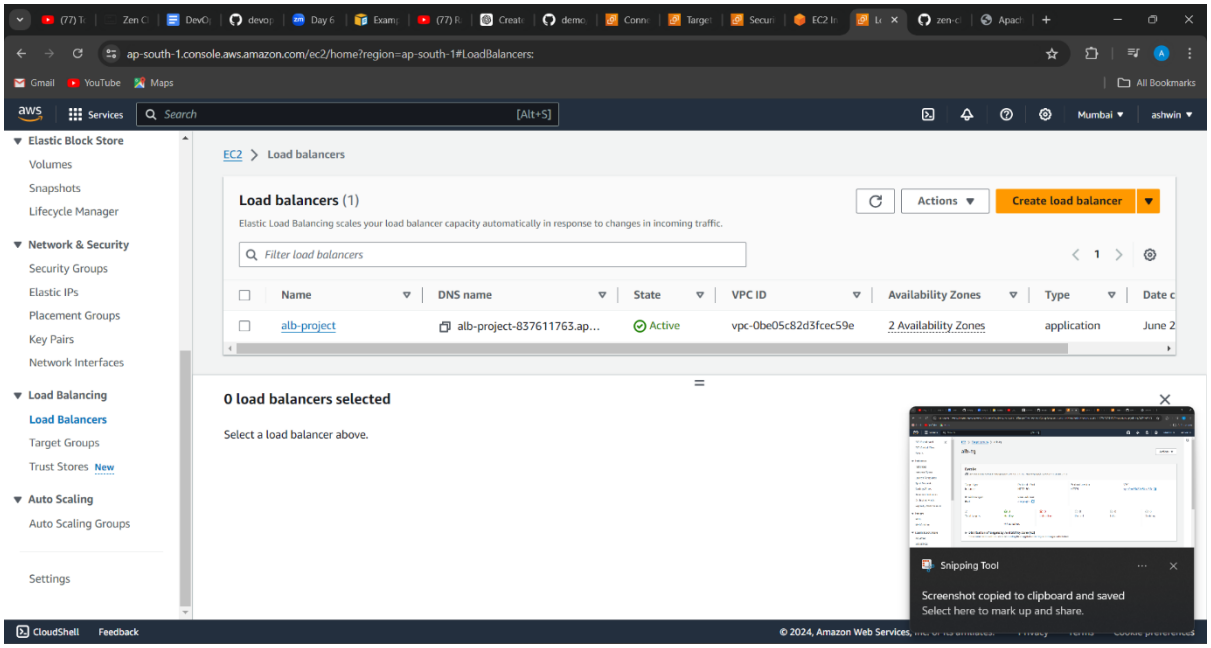
11.asg has been created



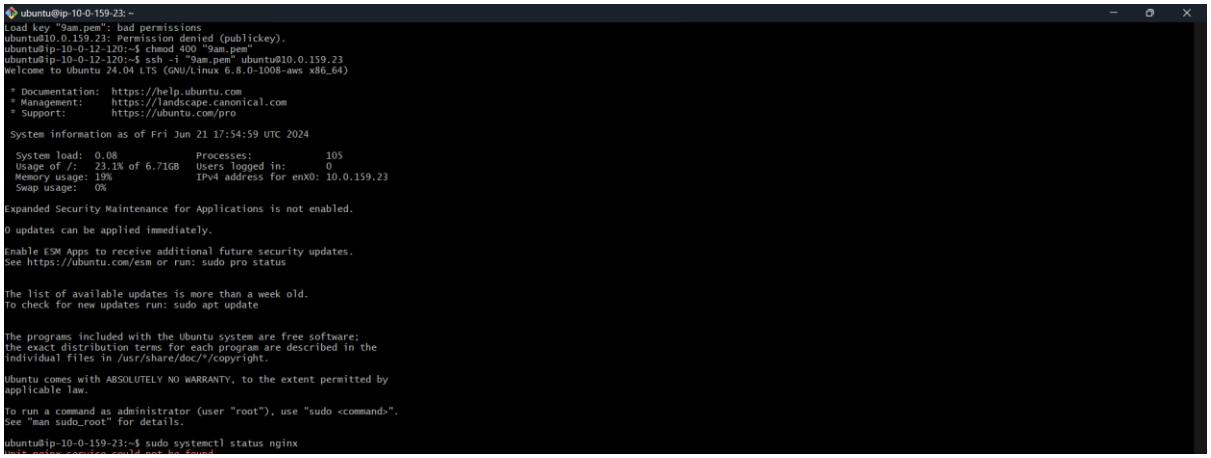
12. 2 instances has been created in 2 private subnets



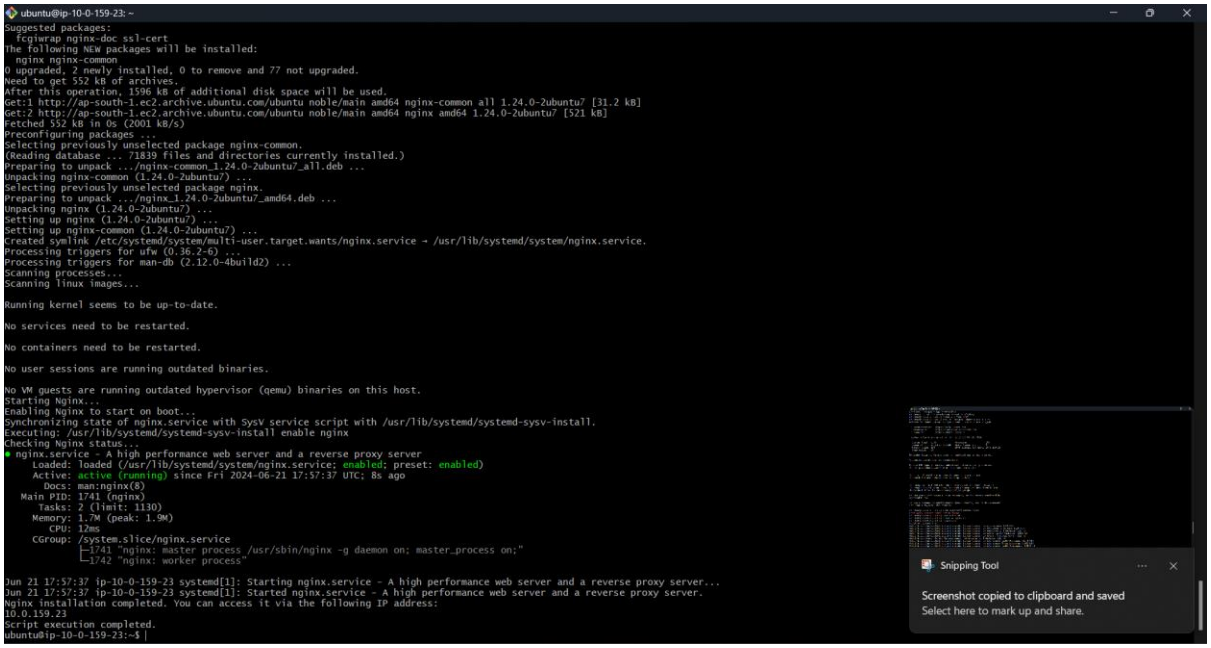
13. Application load balancer target group has been created with the 2 instances



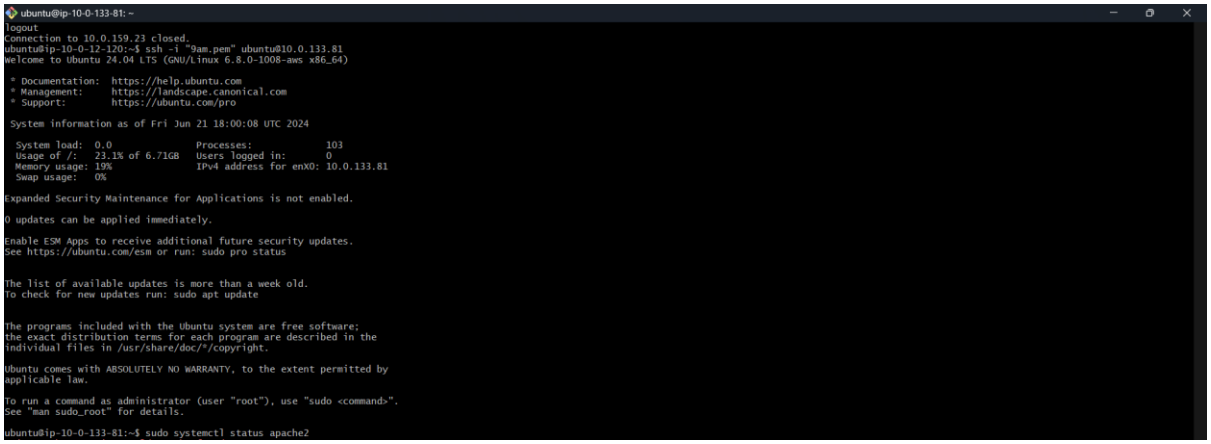
14. Alb has been created to route the traffic



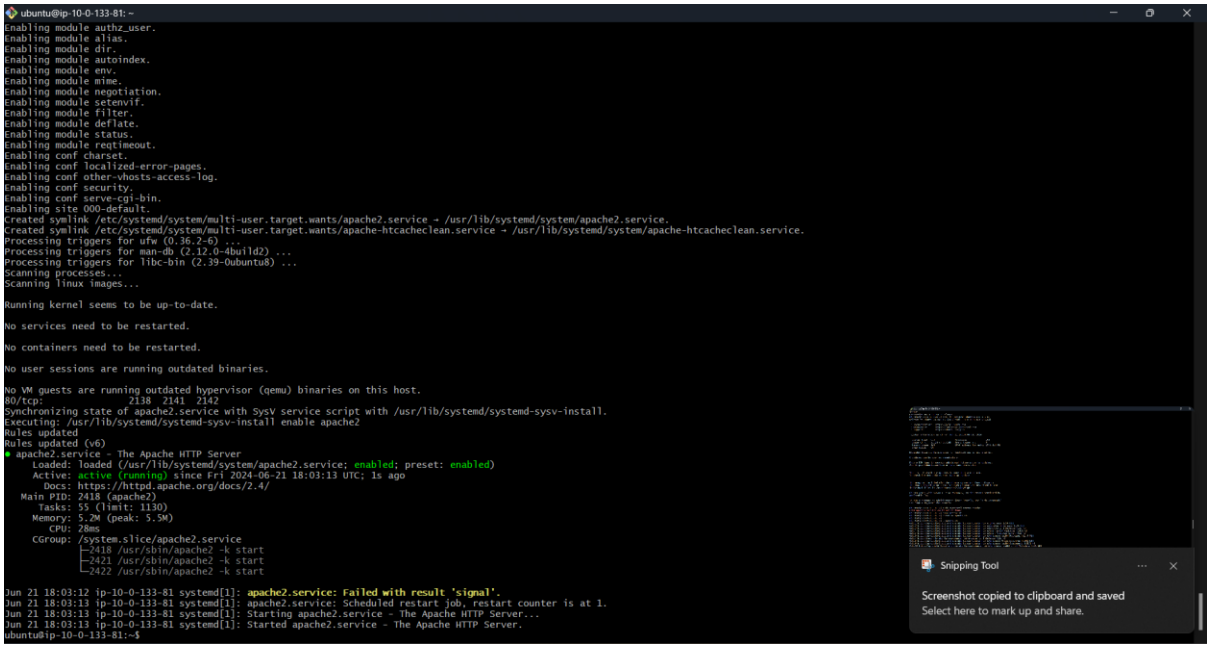
15.login to the private ec2 instance with bastion host



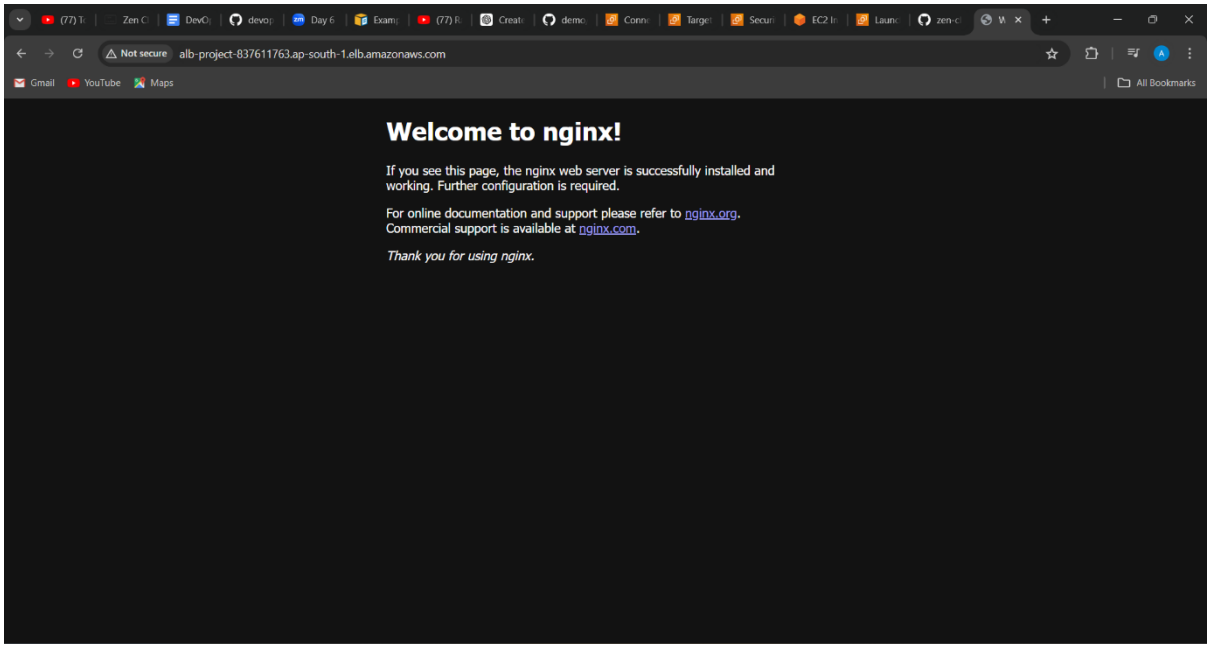
16 installed nginx web page into it



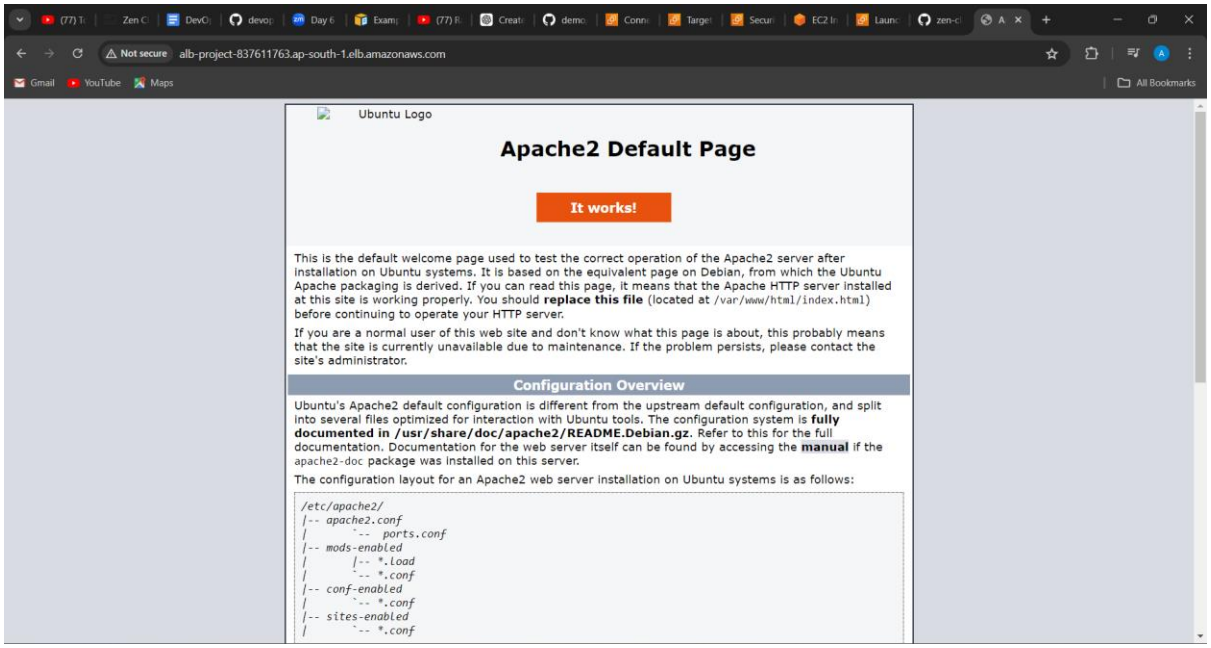
17. login to another private instance through bastion host



18. installed Apache web page to it



19. accessed nginx page with Alb id



20.accessed Apache page with Alb id