## 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

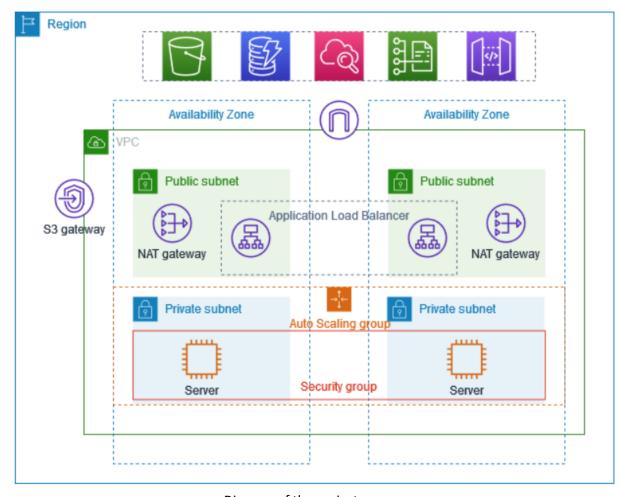
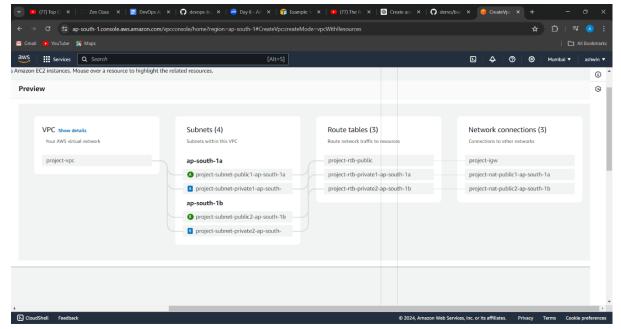
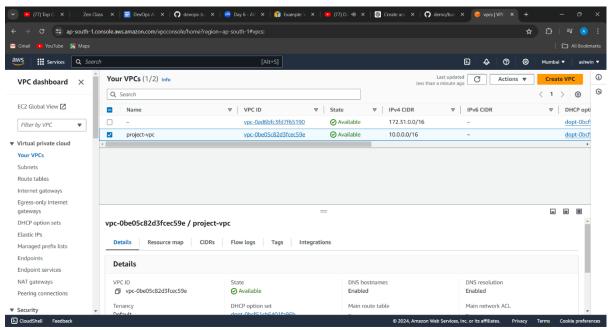


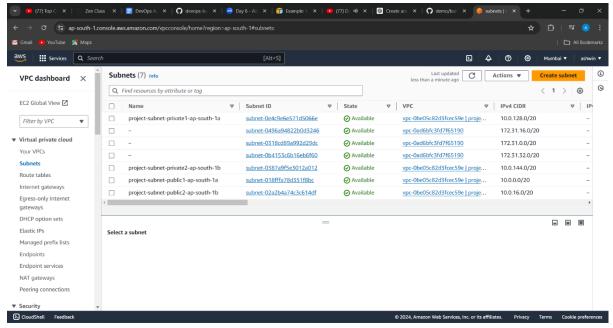
Diagram of the project



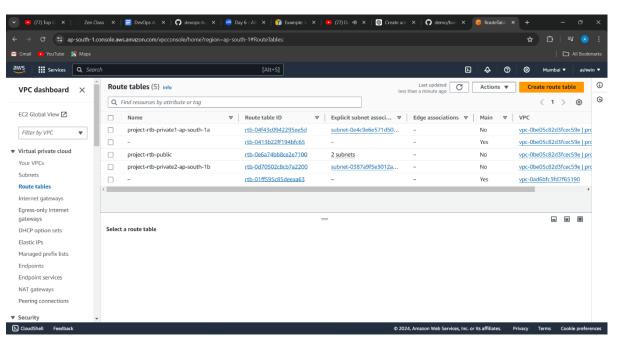
1.consoule diagram of the resources



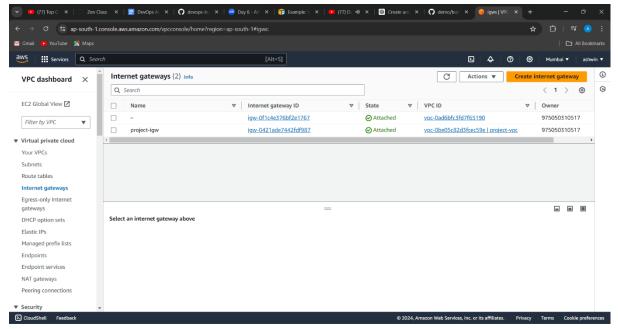
2.created a VPC



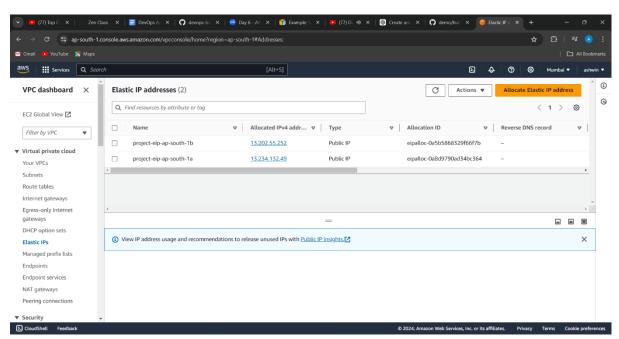
3.created 4 subnets with 2 public and 2 private subnets



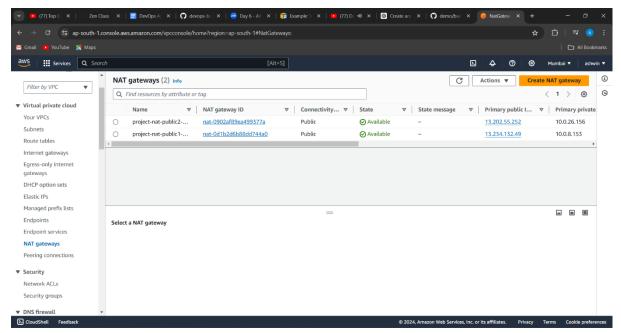
4.created 3 route tables 1 for public and 2 for private subnets



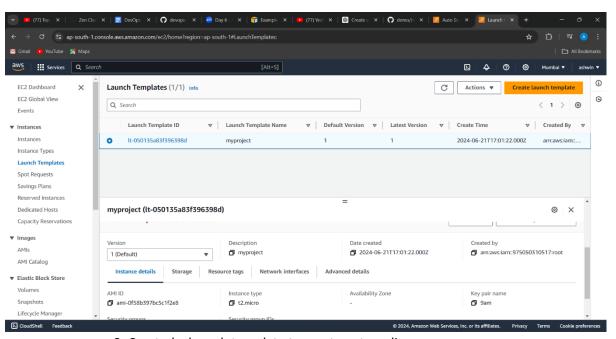
5.created an igw and attached to vpc and public route table



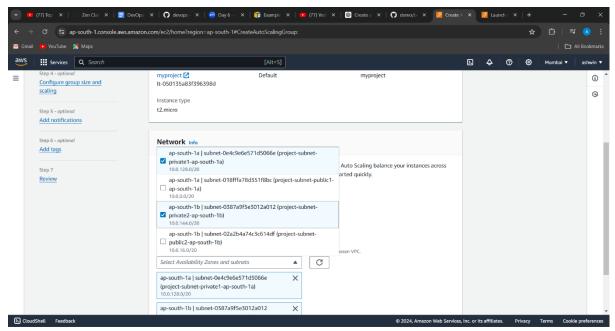
6.created 2 elastic ips to create 2 NAT gateways



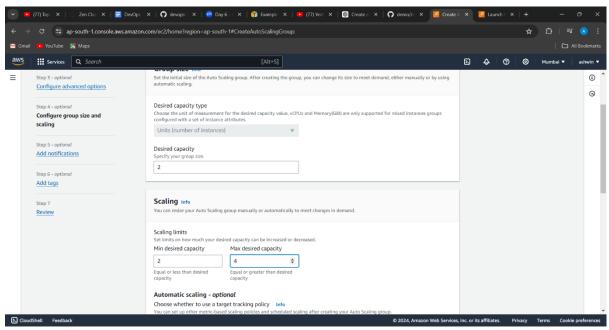
7.created two nat gateways for each route tables



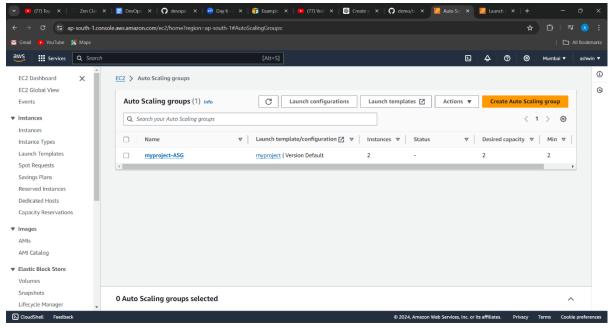
8. Created a launch template to create autoscaling group



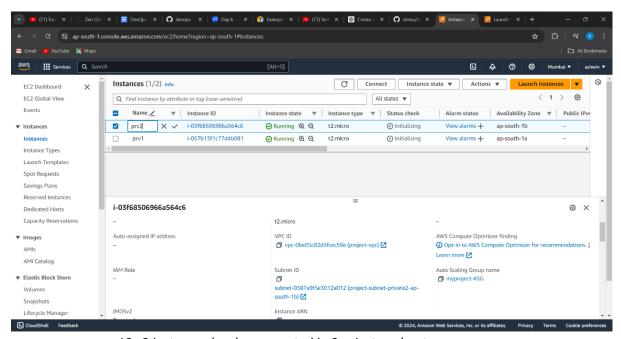
9. in autoscaling group selecting the 2 private subnets were the ec2 instance has to be created



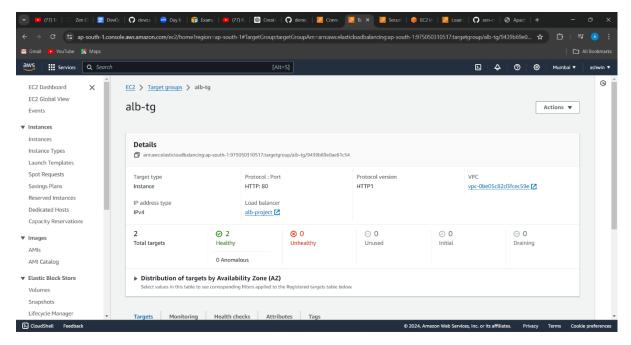
10 specifying desired capacity of ec2 instances and min & max capacity to maintain the load



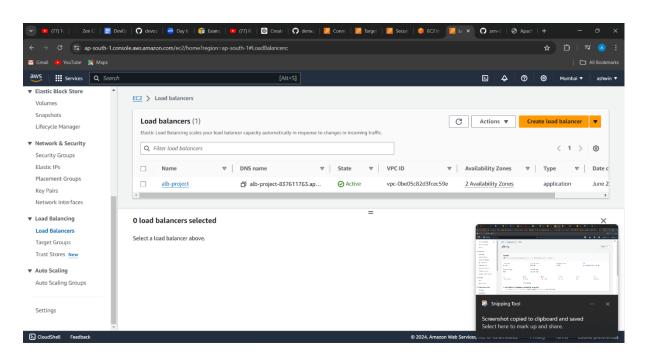
11.asg has been created



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

```
© xecond (sp. "Sam.pue"): Land permissions
ubbuntail.0.0.159.221; Permission denied (publickey).
ubuntail.0.0.159.221; Permission denied (publickey).
ubuntail.0.0.159.221; Permission denied (publickey).
ubuntail.0.0.159.221; Permission denied (do "Sam.pem" ubuntu@il.0.0.159.23
welcome to blumtu# 24.04 LTS (Good/Linus 6.26-1000-mos x86.04)

" Documentation: https://help.ubuntu.com
" Support: https://homtu.com/pro
" System information as of Fr1 Jun 21 LTS4.59 UTC 2024

System load: 0.08 Processes: 105
Usage of 7: 23.1% of 6.71GB Users Support in: 0
Memory usage: 19% Thv4 address for ento: 10.0.159.23
Smpu usage: 10%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.
Enable ESM.Aps. to receive additional future security updates.
See https://ubuntu.com/sem or run: sudo pro status

The list of available updates is nore than a week old.
To check for new updates run sudo apt update

The programs included with the Ubuntu system are free software: the exact distribution terms for each program are described in the individual Flies in /usr/share/doc/f/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable lists in /usr/share/doc/f/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable lists in /usr/share/doc/f/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable list on /usr/share/doc/f/copyright.

Ubuntus comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable lists in /usr/share/doc/f/copyright.
```

15.login to the private ec2 instance with bastion host

```
© ununtable 100-119-22-
Supposed packages:
Supposed packages:
Supposed packages:
Supposed packages:
Fig. 10 months packages will be installed:
Supposed packages:
Su
```

16 installed nginx web page into it

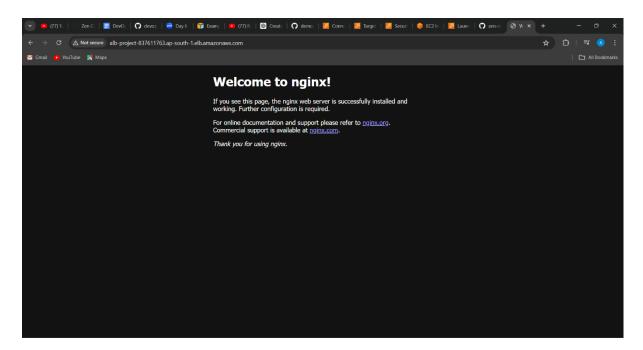
```
## Comparison to 10.0.159.33 closed.
## Comparison to 10.0.159.35 closed.
## Comparis
```

17. login to another private instance through bastion host

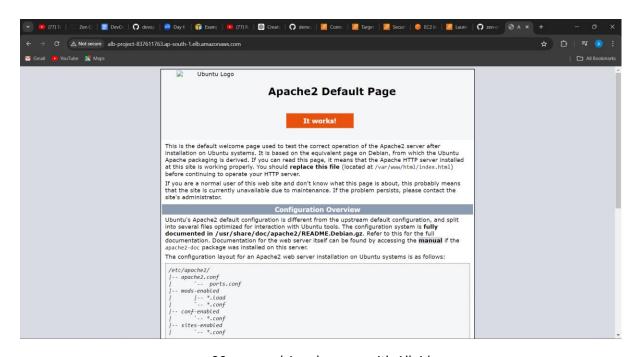
```
**Commission Processors**

**Commission Processo
```

18. installed Apache web page to it



19. accessed nginx page with Alb id



20.accessed Apache page with Alb id