

Procedure

- ➔ Create a vpc with name “fast-tech-solutions”
- ➔ Create public and private subnets(if u allow auto assign ip , it indicates public subnet)
- ➔ Create two ec2 instances(web-tier , database-tier) which is hosted one in private subnet and other in public subnet. The instance Ami is ubuntu.
- ➔ Create internet gateway and attach to VPC “fast-tech-solutions”
- ➔ Create Route table and configure the rules. So that , public instance “web-tier” will access internet
- ➔ Modify public security group of “web-tier” instance such way that instance can access traffic from all sources.
- ➔ Modify private security group of “database-tier” such way that it can only access traffic from web-tier by 5432 port.
- ➔ Connect to “web-tier” instance through AWS Direct-Connect and try to connect to database-tier through 5432 port. The syntax is :-

telnet {database-tier-ip-address} 5432

- ➔ We get message that showing “connection refused”

Screenshots

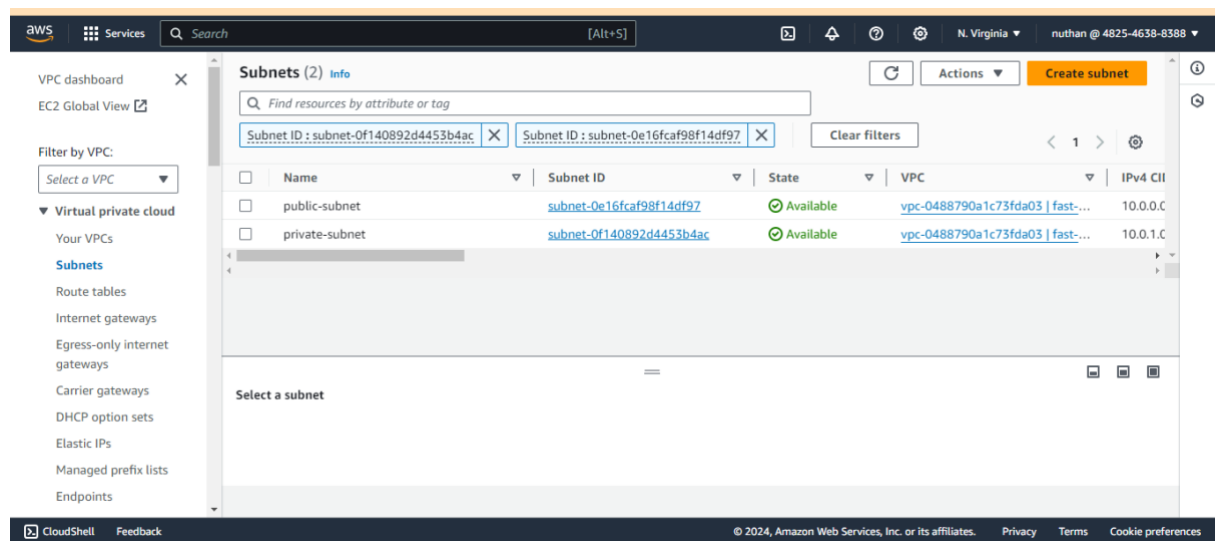


Fig-1 : created private and public subnets with in fast-tech-solutions VPC

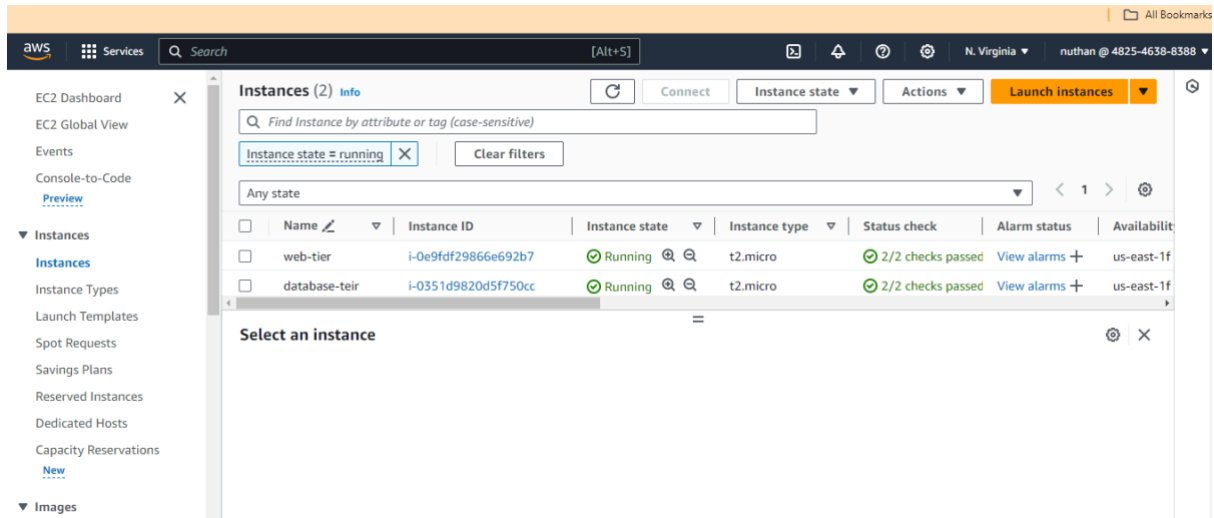


Fig-2 : Created web-tier and database-tier instances

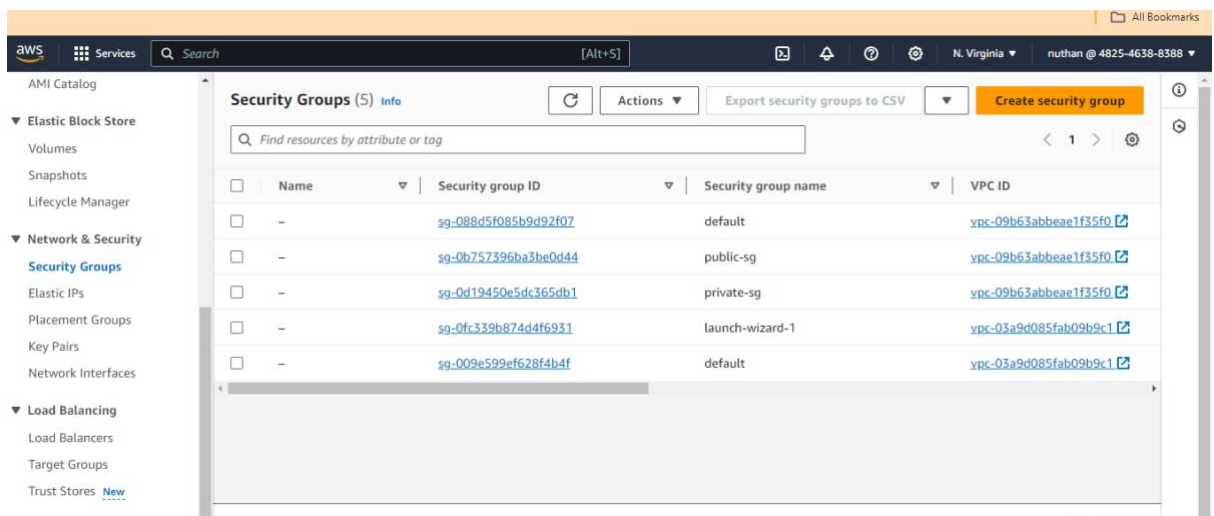


Fig-3 : created public security group and private sg for respected instances

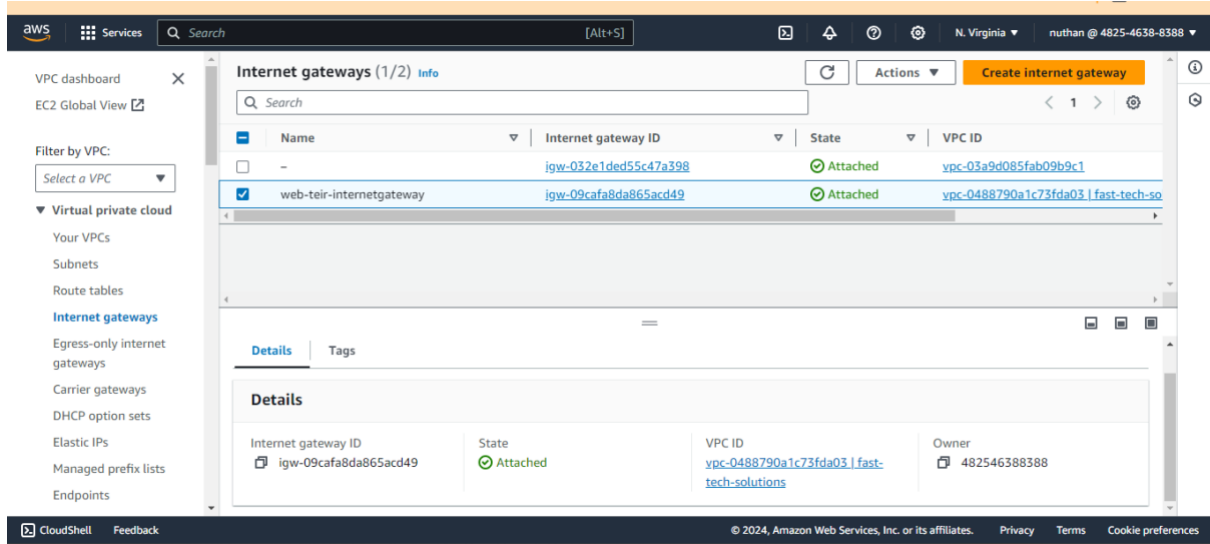


Fig-4 : created Internet gateway to provide internet to public instance web- tier

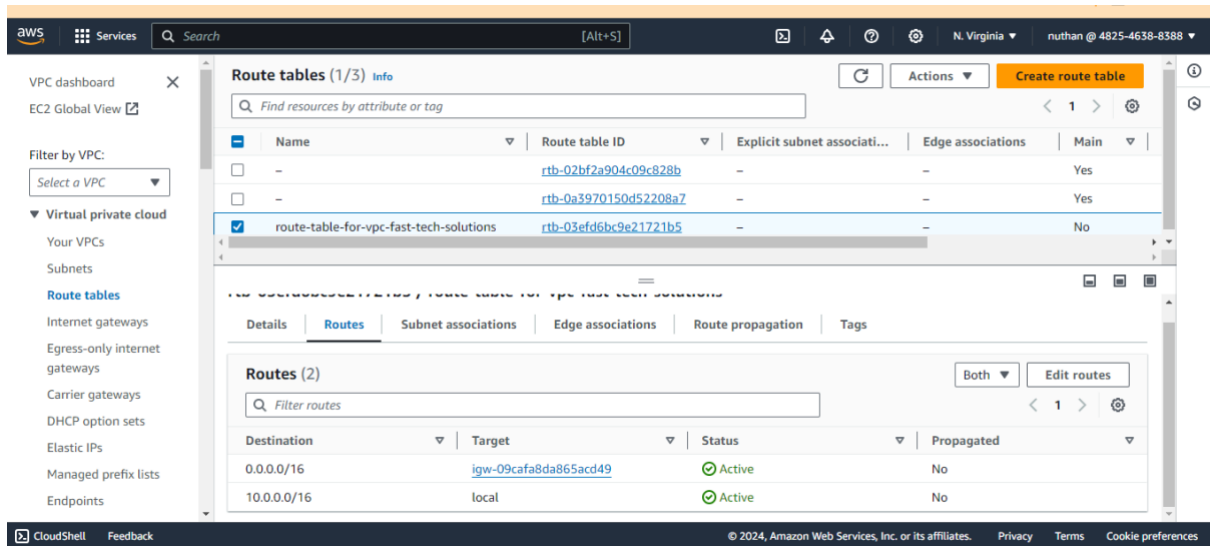


Fig-5 : Created route-table and configured routes to get access internet by public instance

The screenshot shows an AWS CloudShell terminal window. The top bar includes the AWS logo, 'Services', a search bar, and the user 'nathan @ 4825-4638-8388' in 'N. Virginia'. The terminal output displays system information as of Thursday, January 25, 2024, at 16:38:44 UTC. It lists system load (0.0), memory usage (22%), and processes (100). It also shows that Expanded Security Maintenance for Applications is not enabled and that 0 updates can be applied immediately. The terminal then shows the user attempting a telnet connection to 10.0.0.189 on port 5432, which is refused. The bottom of the window shows the CloudShell interface with a 'Feedback' button, a copyright notice for Amazon Web Services, Inc., and a Windows taskbar at the very bottom with the date 25-01-2024 and time 22:09.

```
aws Services Search [Alt+S] All Bookmarks
* Support: https://ubuntu.com/advantage
System information as of Thu Jan 25 16:38:44 UTC 2024
System load: 0.0          Processes: 100
Usage of /: 20.8% of 7.57GB Users logged in: 1
Memory usage: 22%        IPv4 address for eth0: 10.0.1.82
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

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

Last login: Thu Jan 25 16:25:38 2024 from 18.206.107.29
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-10-0-1-82:~$ telnet 10.0.0.189 5432
Trying 10.0.0.189...
telnet: Unable to connect to remote host: Connection refused
ubuntu@ip-10-0-1-82:~$
```

Fig -6: telnet connection refused (required output for mini_project)