3-TIER ARCHITECTURE

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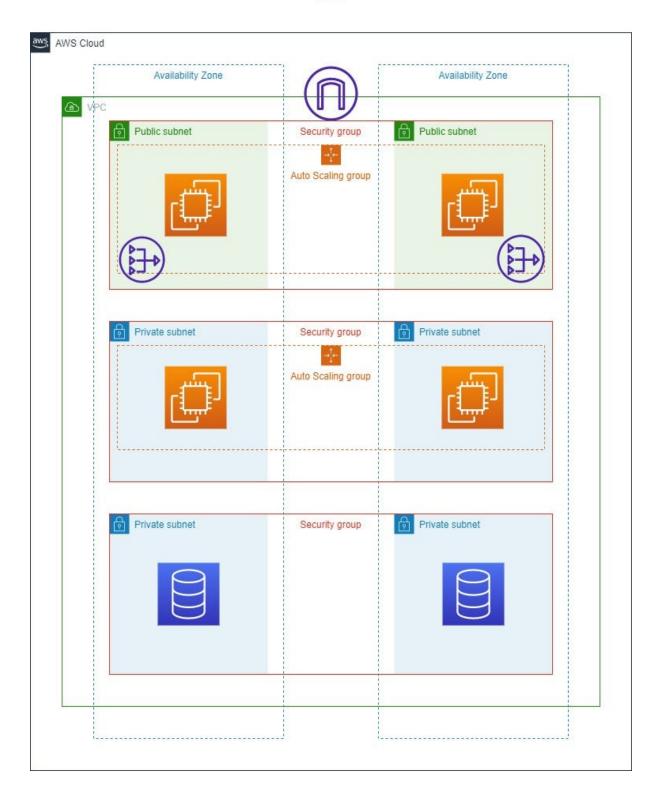
3- Tire architecture

Three-tier architecture is a application architecture that organizes applications into three logical and physical computing tiers: the presentation tier, logic tier, and data tier.

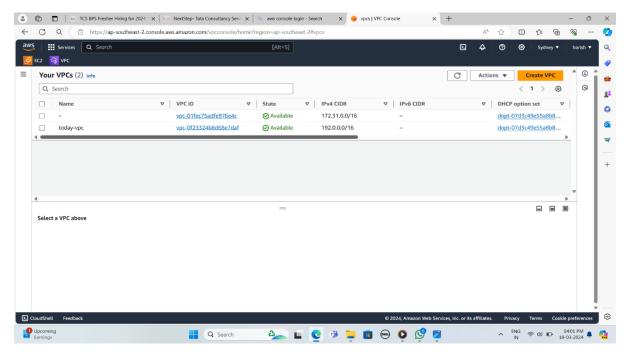


- **1. Web tier:** The web tier offers a graphical user interface, which displays information to and collects information from the users.
- **2. Application tier:** In this tier, information that is collected in the presentation tier is processed sometimes against other information in the data tier.
- **3. Data tier: Data tier controls the servers where the** information is stored, it runs a relational database management system on a database server.



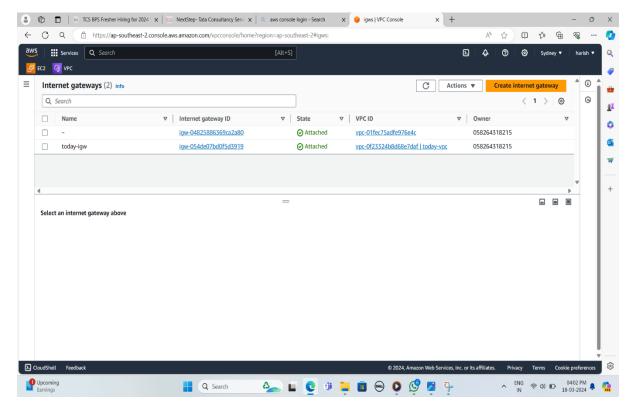


Create a vpc with specific name (today-vpc) in a region Sydney

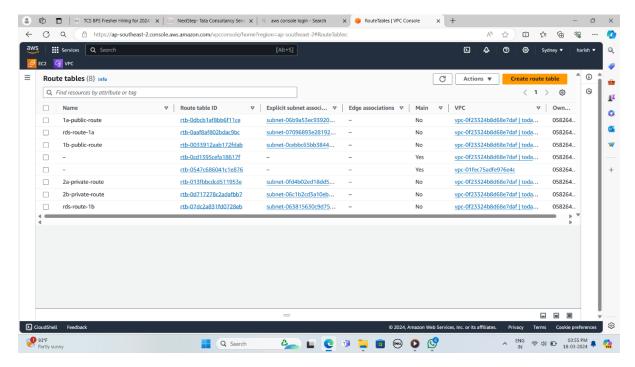


Create a 6 subnets (1 public, 2 private subnets in one AZ and other 3 subnets are same, but in different AZ) with same vpc.

Now, create a Internet Gateway and attach to the vpc



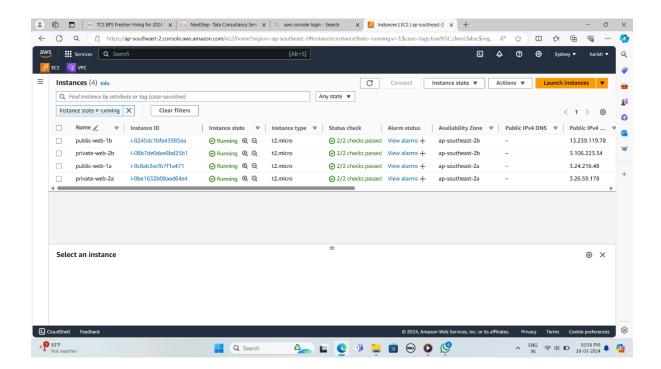
To create a route tables and associate with the subnet along with internet connection



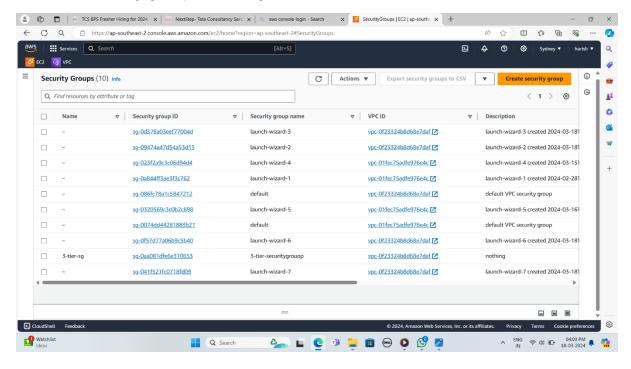
Now, Create 4 instance with the assign security group

2-public and 2-private instances with Different AZ

(public-1a, private-2a one Availability zone and public-2b, private-2b is another Availability zone).

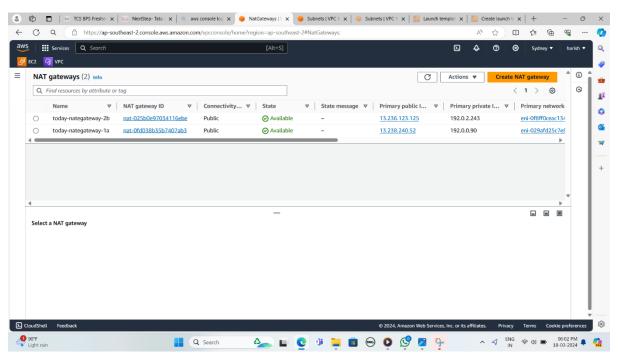


Create a Security group (3-tier-sg)



Then launch instance and install nginx, to check communication in private subnet, Does not communicates the public subnet. So we want one way communication

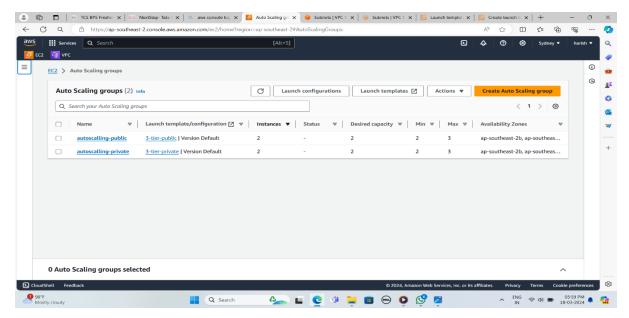
Now, create a Nat gateway



After we create a Nat Gateway, we have edit route tables in edit routes with different availability zone

To create a target group purpose of autoscaling.

Now, to create a two Autoscalling group (1-public and 1-private)



Now, create a RDS in 2 subnets with different availability zones

Create a database subnet group and create rds in there subnet with any one engine.

The RDS connect only vpc connection.

