Assignment VPC

Task1 : Create a VPC:

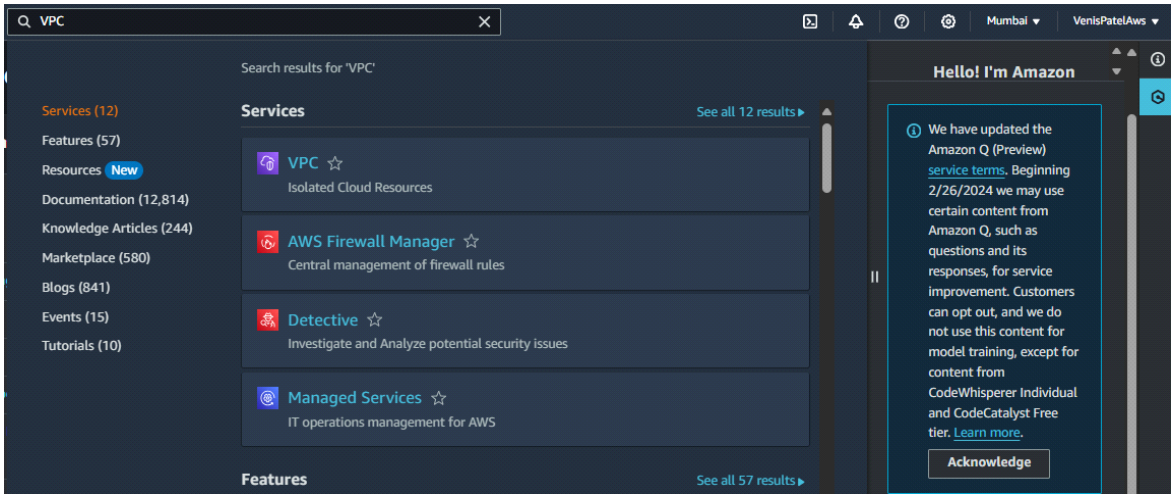
1. Include at least two subnets, each in a different Availability Zone.

2. Internet Gateway (IGW):

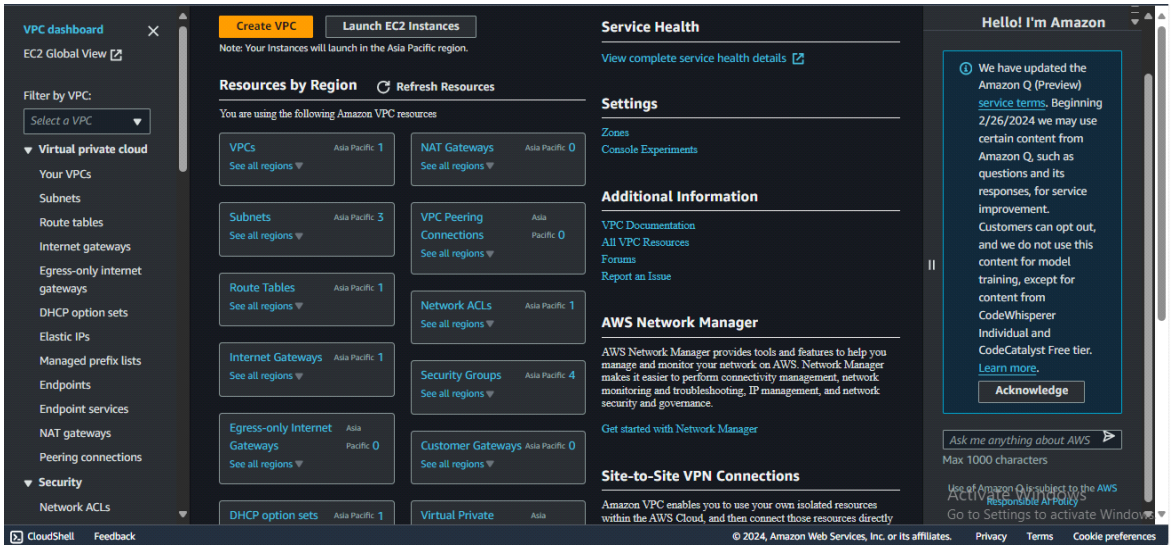
3. Do not create NAT gateway but understand how and why it is needed?

➢ STEPS:

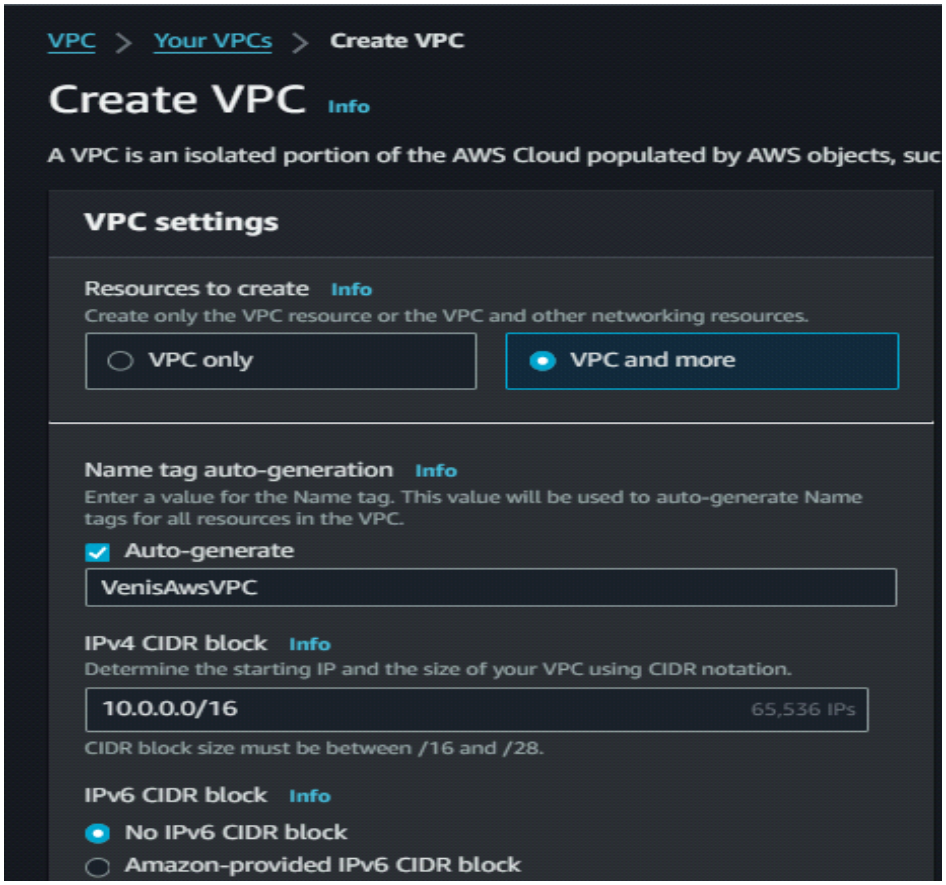
1. Go to AWS console and search for "VPC" and select VPC isolated cloud services.



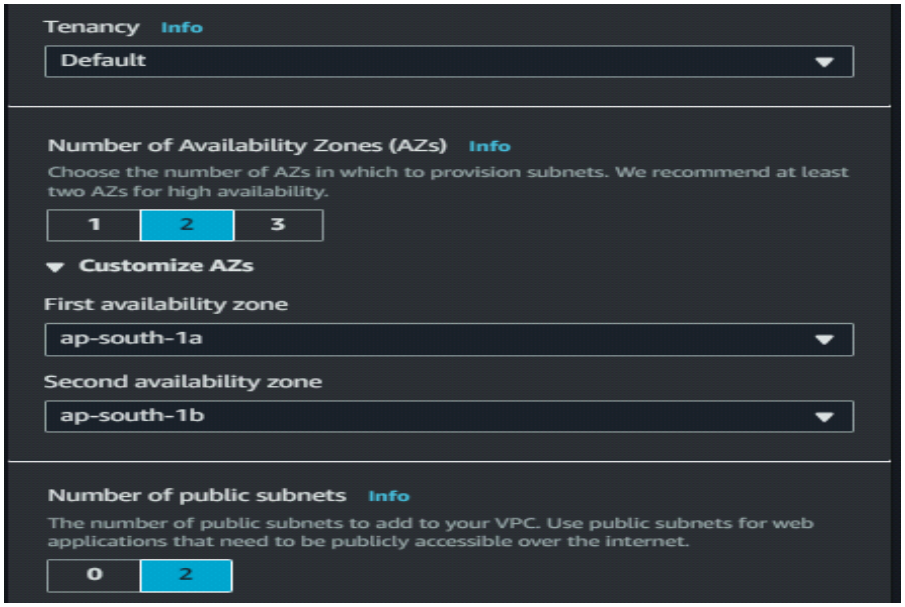
2. Now select on "Create VPC"

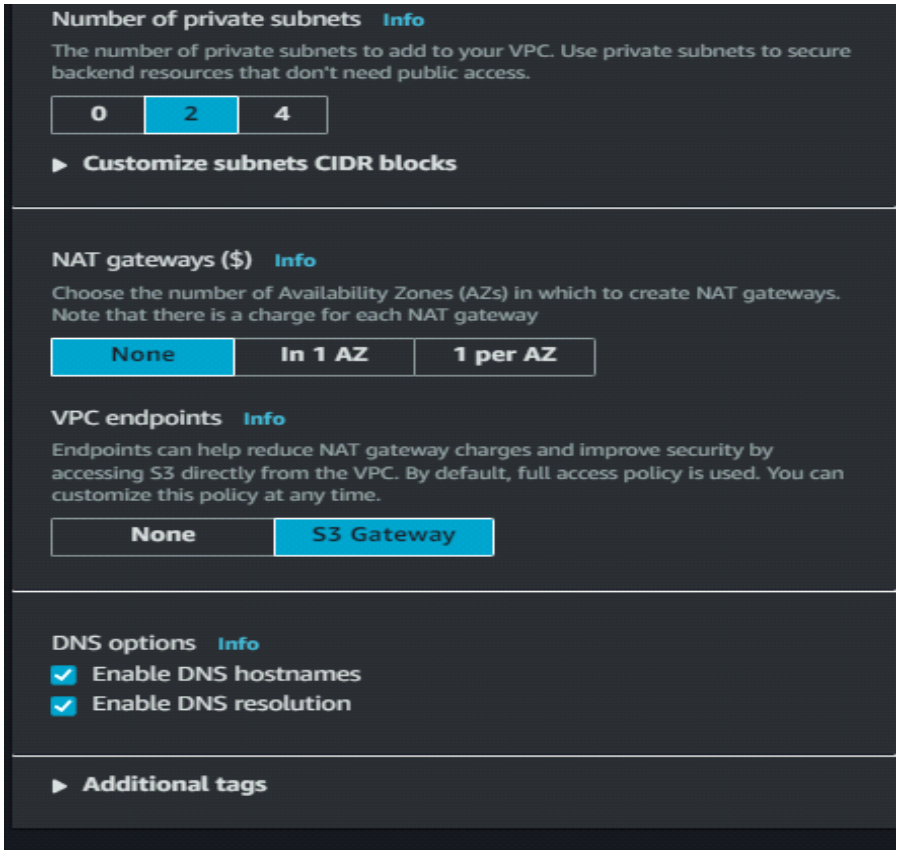


3. Give name to VPC as "VenisAwsVPC" and scroll down.

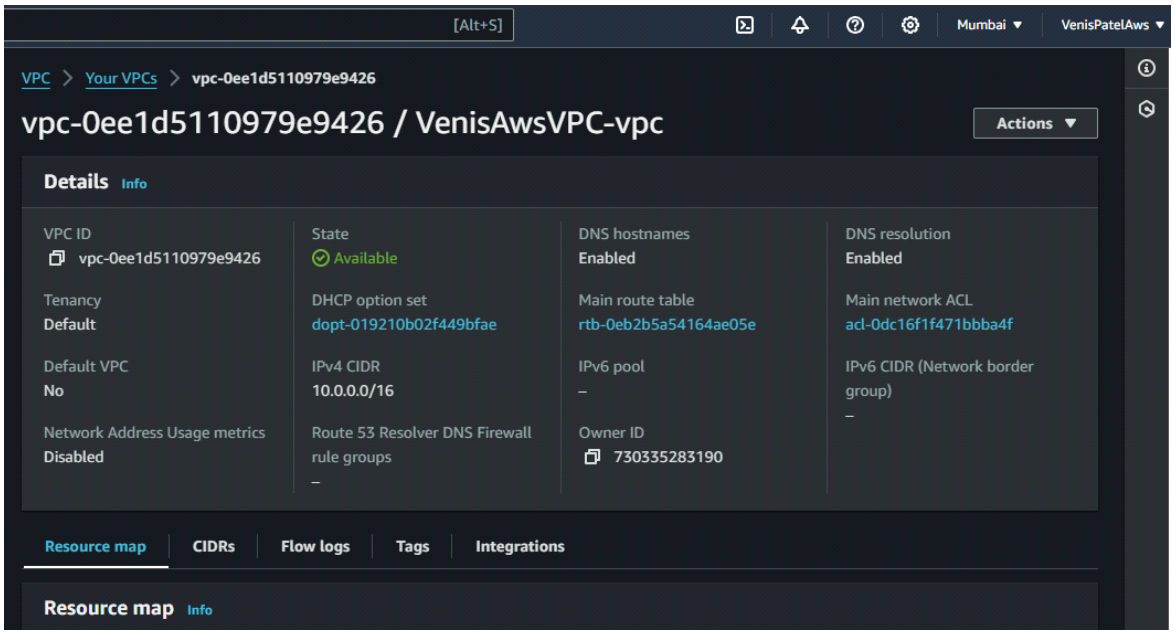


4. Select Number of Availability zones as 2 and select two different AZ's as "ap-south-1-a" and "ap-south-1-b" and keep everything as unchanged and select on create VPC .

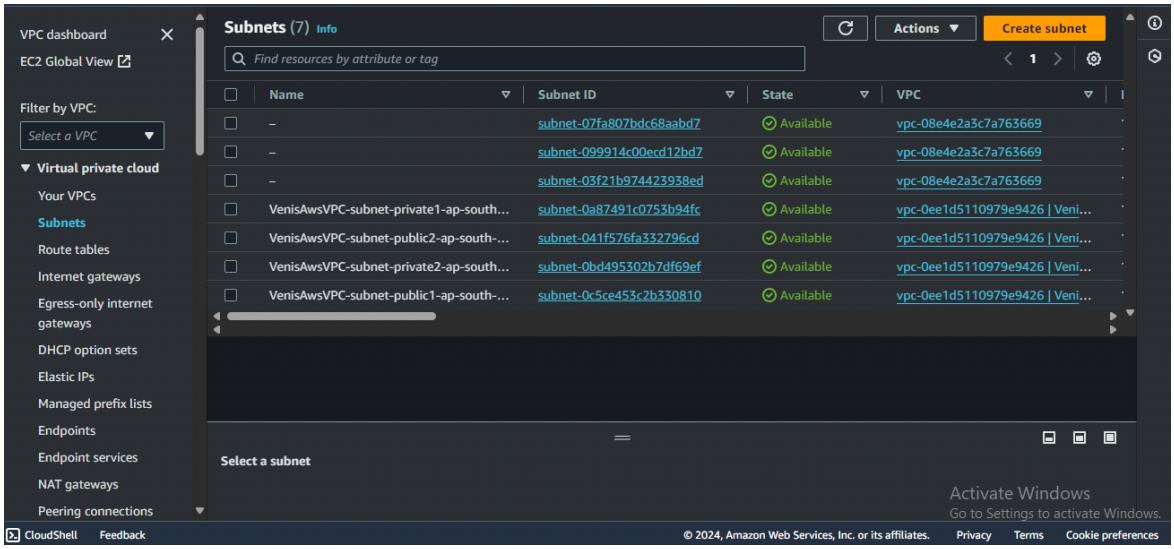




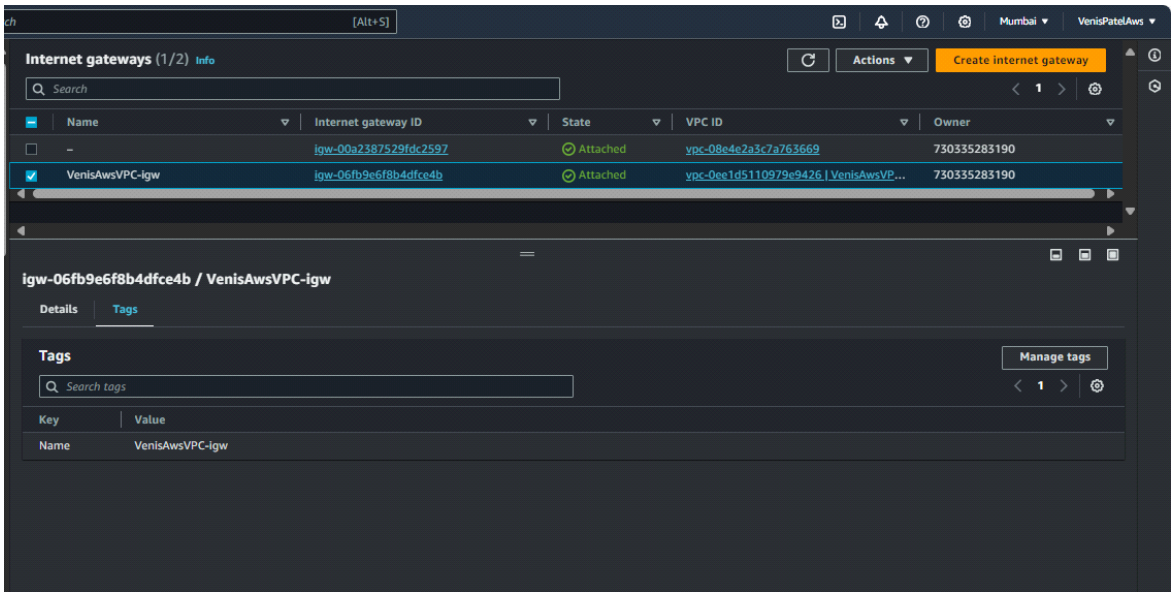
5. Now here we can see that VPC has been created .



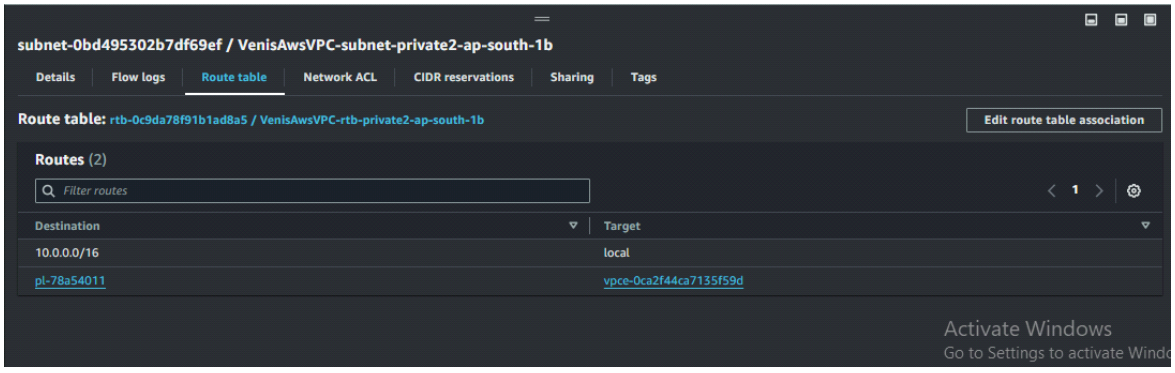
6. Here we can see that subnets have also been created in two different availability zones .



7. Now go to Internet gateway and attach it to VPC .

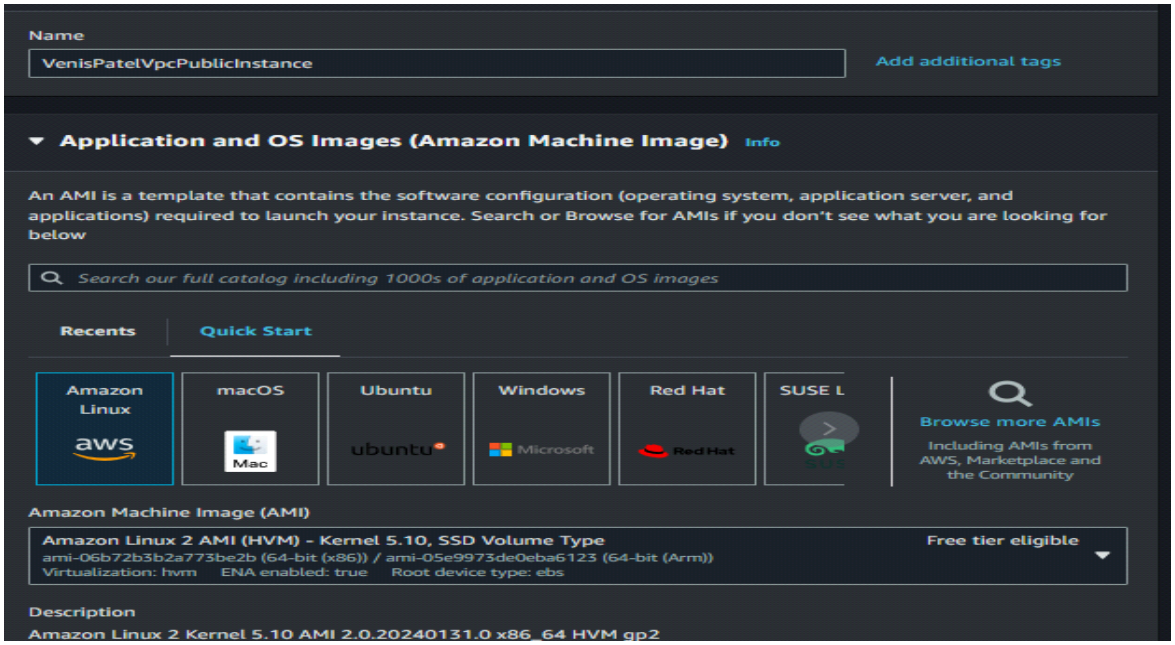


8. Now for route table here we can see that for public subnet's route table is allowing traffic from everywhere so it would be accessible from anywhere through internet whereas for private subnet's route table , we are not allowing traffic from everywhere so we will not be able to access in future .

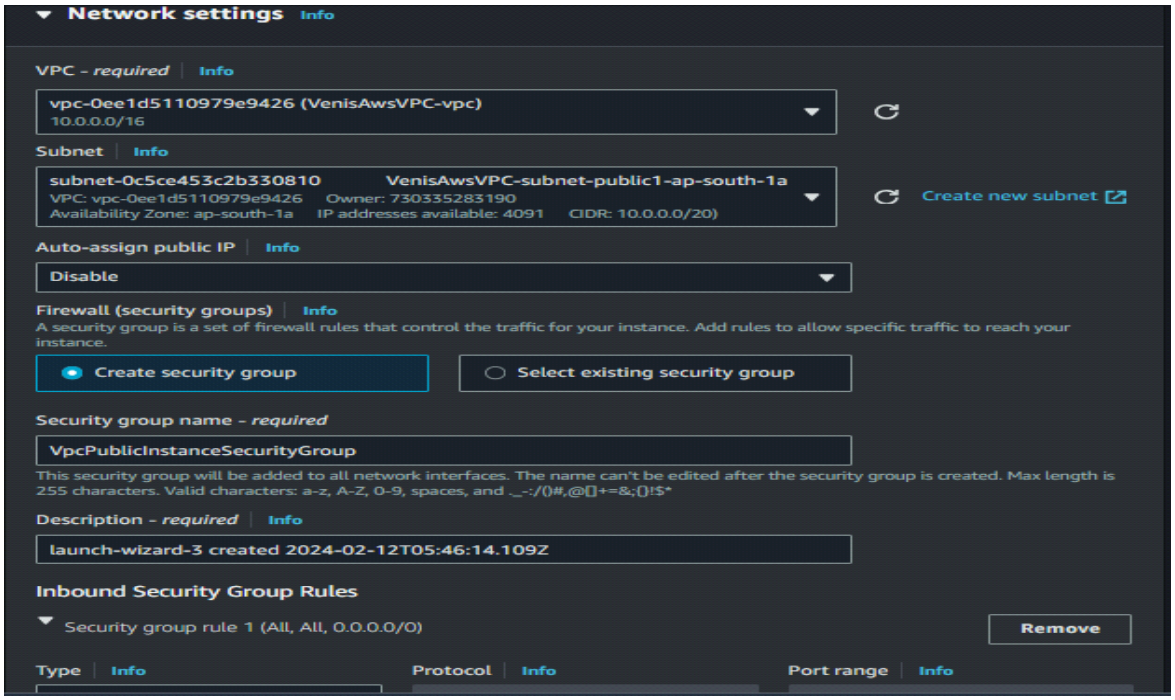


9. Now we have to create two instances , one which will be connecting to public subnet and one which will be connecting to priavate subnet , So first of lets create for public .

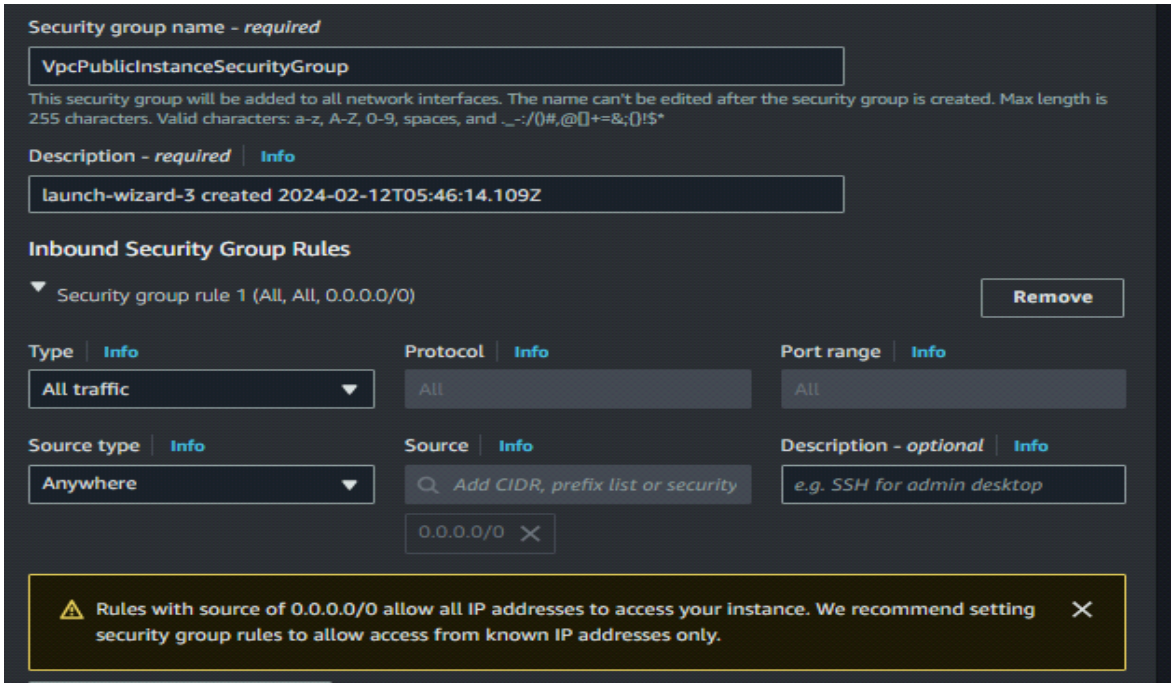
- Give name to the instance and select required Quick start .



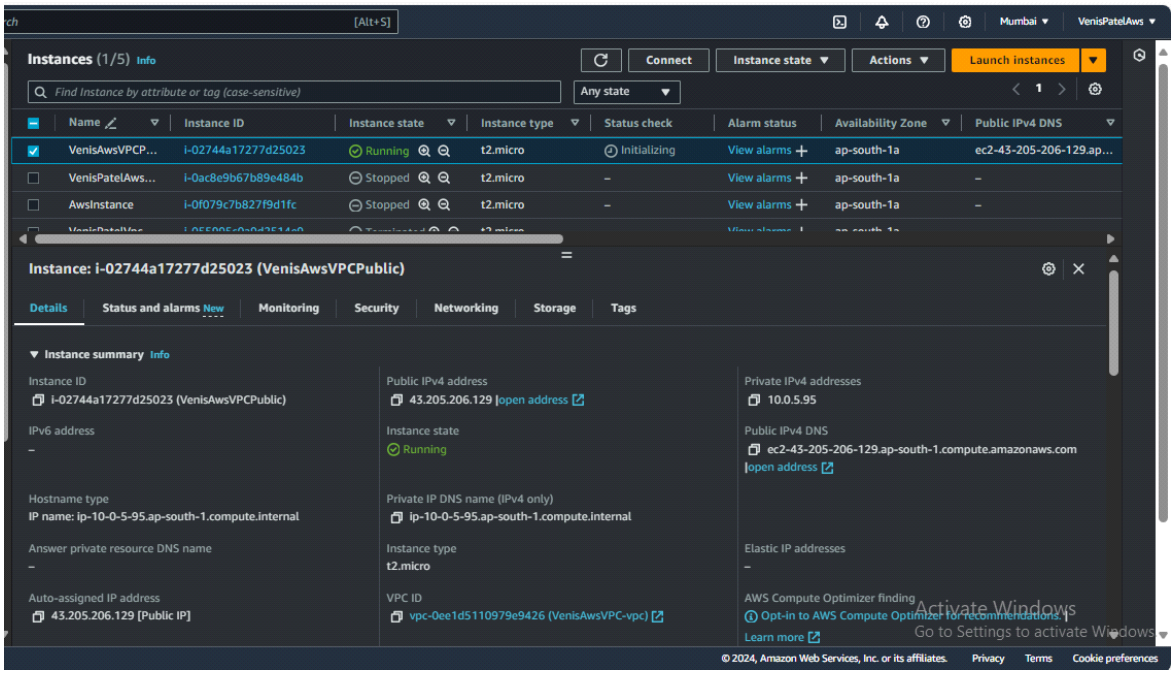
10. Now go in Advanced networking setting and select VPC which we created and select subnet public1 from south-1a Availability zone, Assign Auto-assign public Ip as "enable" and select on create new security group and give name to that.



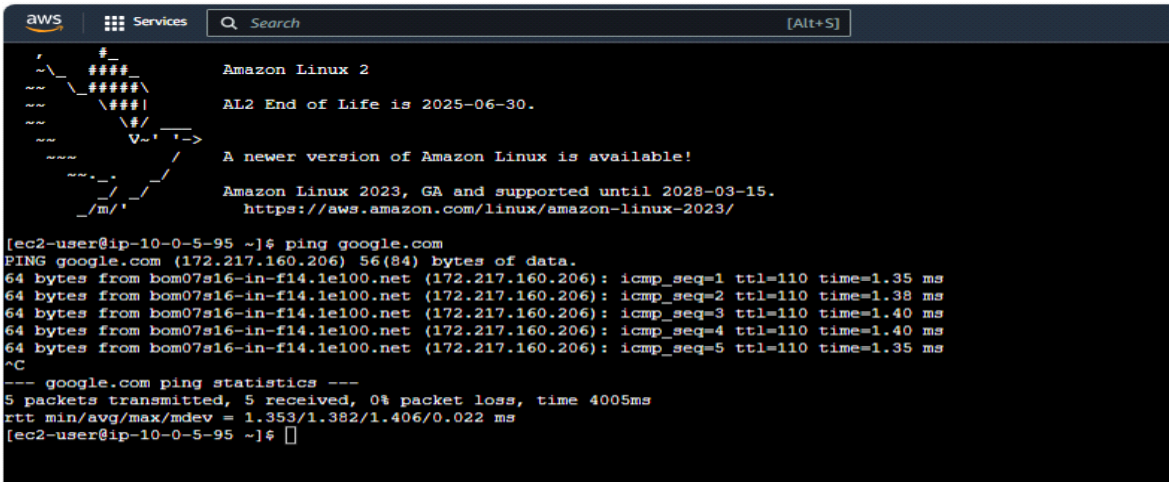
11. Now in inbound security rules , Select all traffic and source as Anywhere to get accessible from internet .



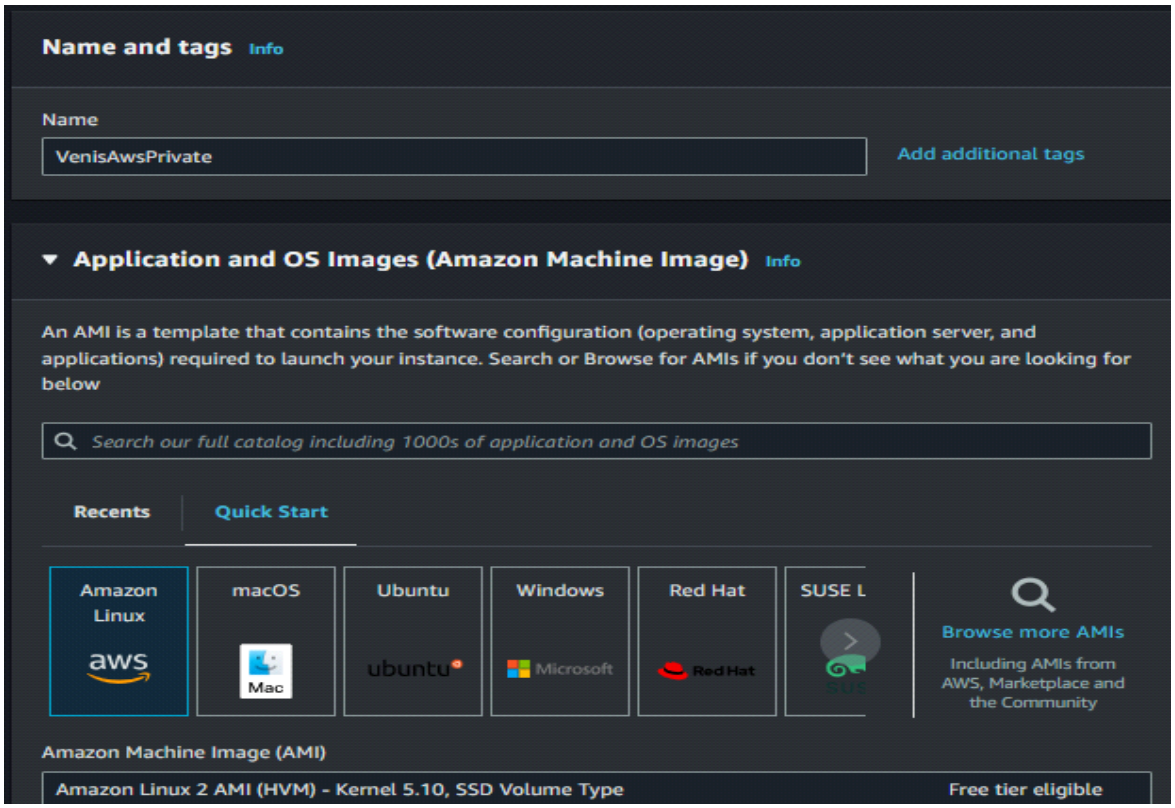
12. Now here we can see that our instance has been created , Now select that instance and click on connect .



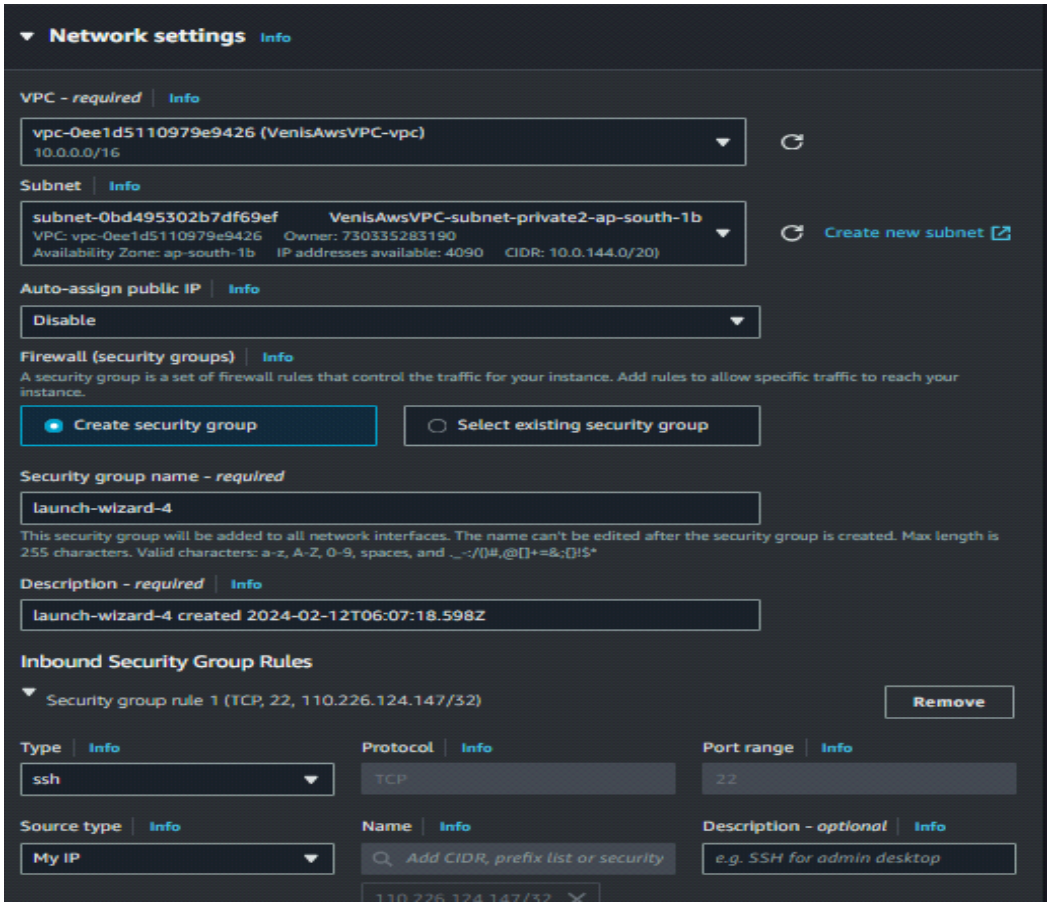
13. Now here , we can see that our instance has been connected and if we try to ping "google.com" then also we are able to do that .



14. Now lets create instance which is accessible privately . Give name to instance and select proper Quick start .



15. Now go to Network settings and select VPC that we created and select subnet as private-2 which is from different Availability zone as "south-1b" and disable Auto-assign public Ip . Now create new security group , which will not allow all the traffic to access out instance .



16. Now select on created instance and click on connect , Here we can see that we are not able to connect to our instance because it has been created in private subnet.