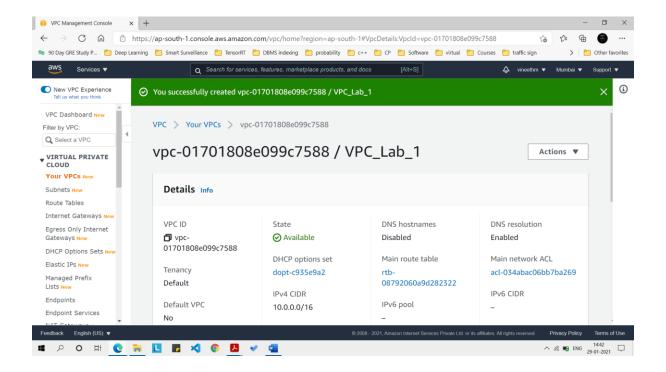
Lab Assignment – 03

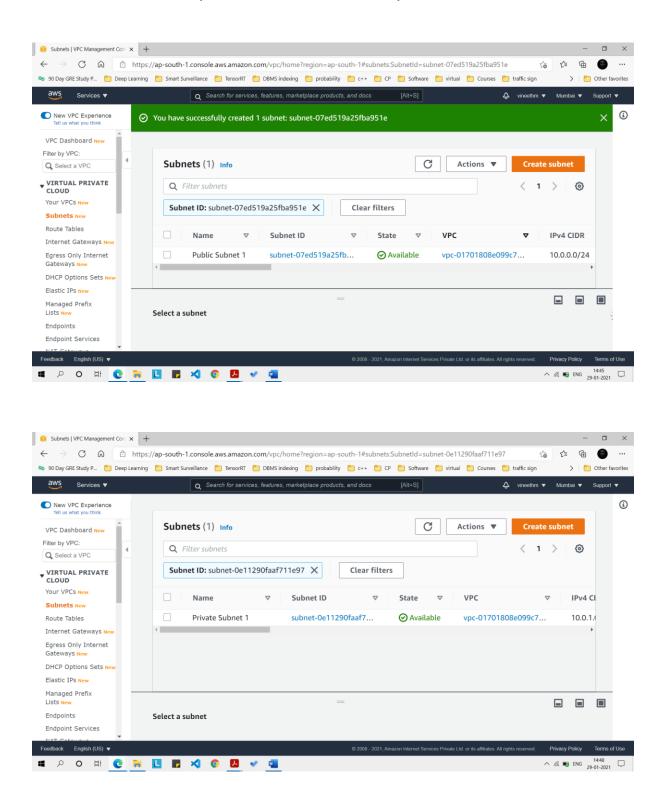
Lab Objectives:

- 1. Create a VPC
- 2. Create Subnets
- 3. Configure a security group
- 4. Launch an EC2 instance into VPC

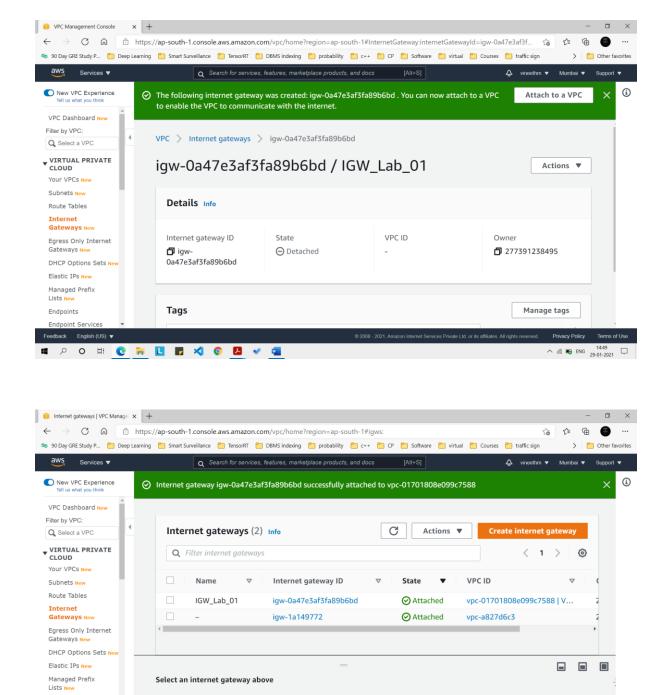
Task-1: Create AWS VPC in an availability zone at one region.



Task-2: Create one public subnet and one private subnet



Task-3: Create Internet Gateway and attach it to VPC

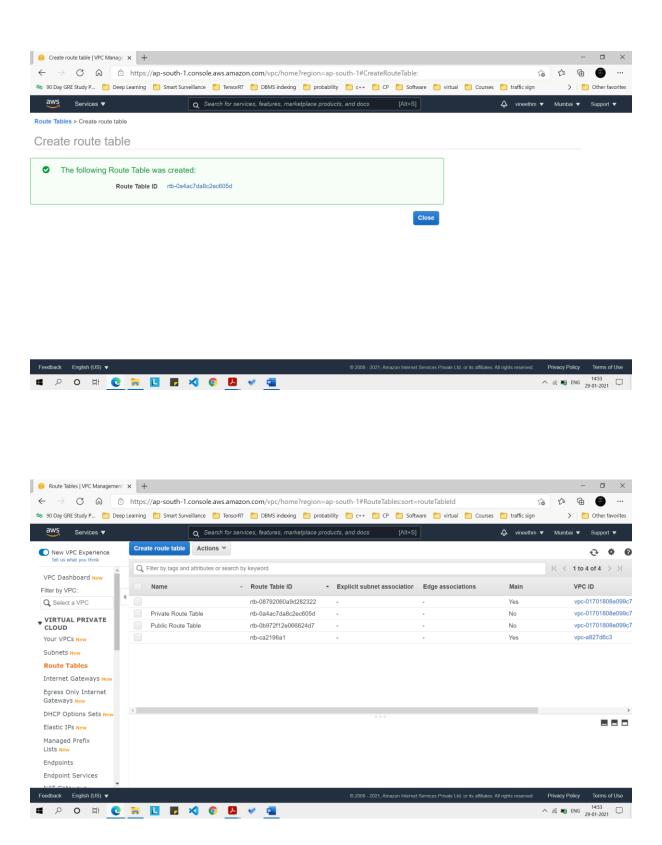


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Endpoints

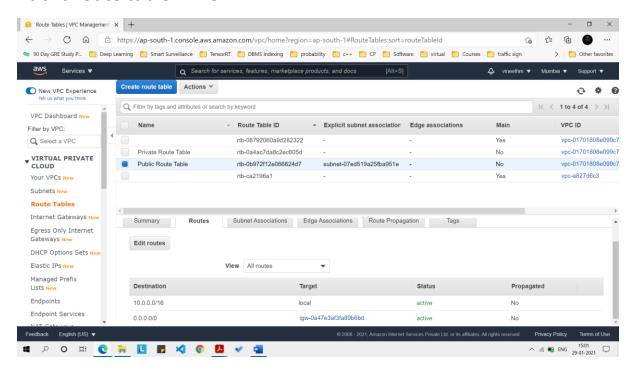
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Task-4: Create route tables for public and private subnet

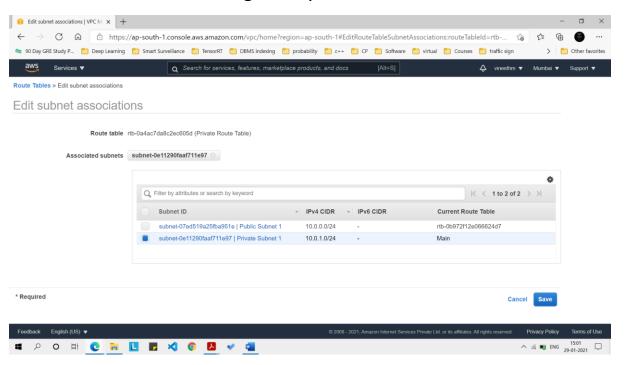


Task-5: configure route tables.

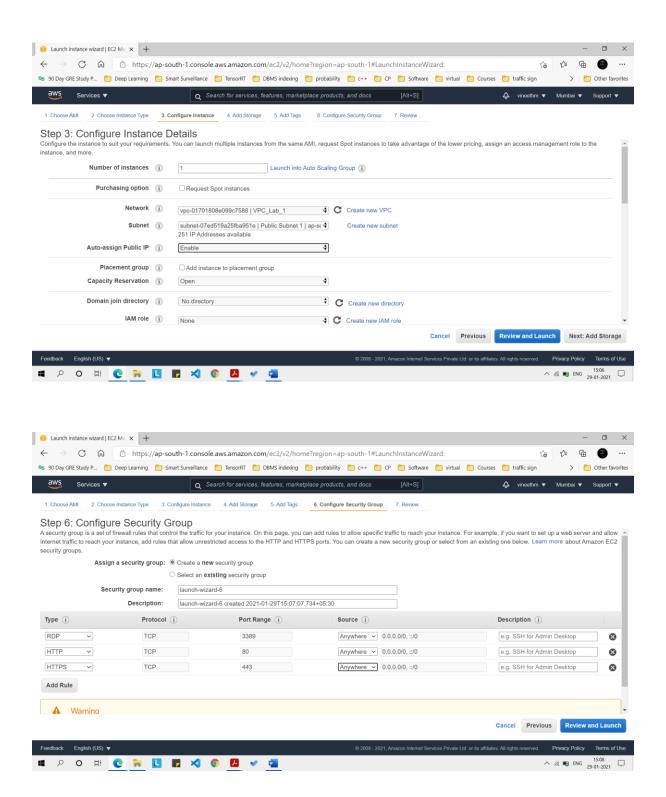
Public route table → IGW

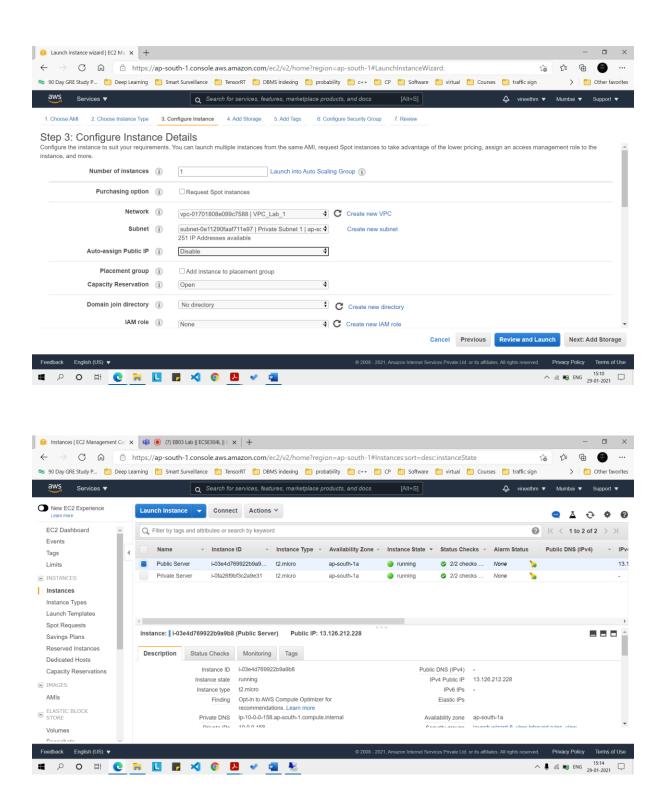


Private route table → NAT gateway

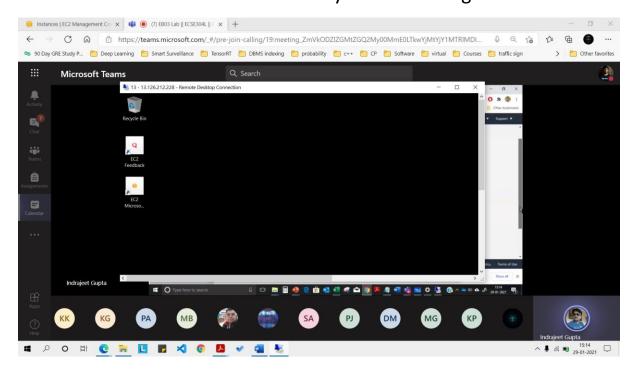


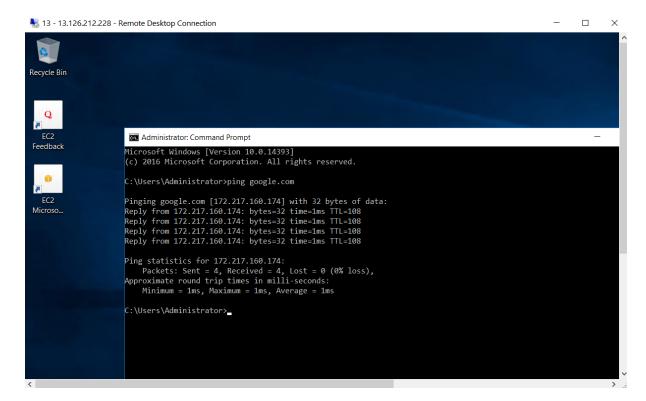
Task-6: Launch 2 different windows EC2 instances in each created subnet





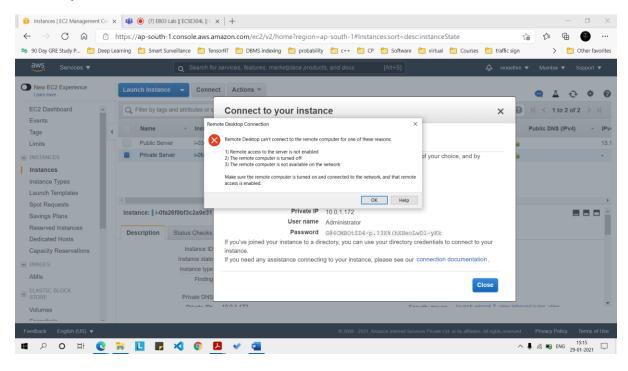
Task-7: Check the internet availability of the running EC2 instances.



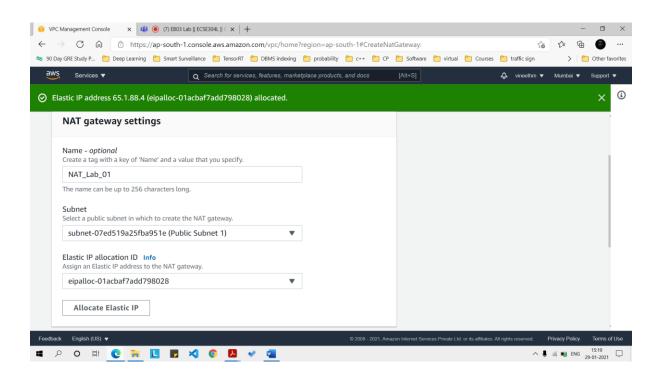


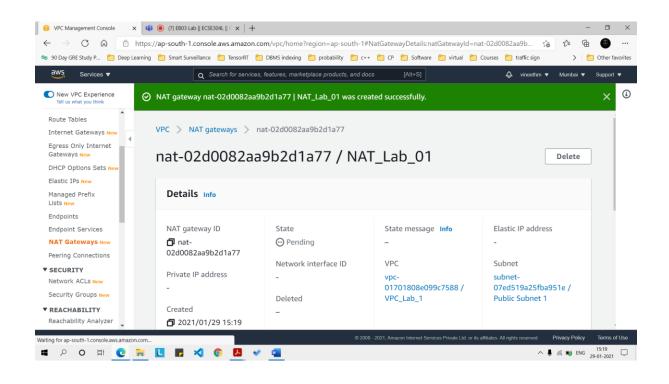
We get the below error when connecting to the instance in the private subnet because there is no route in the private route table.

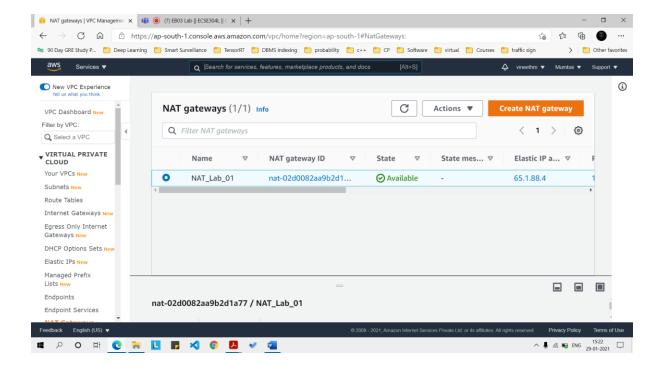
To resolve this issue, we need to create the NAT Gateway and add it in the private route table.



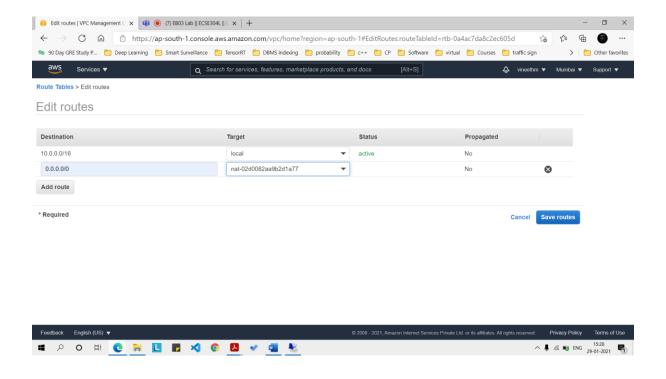
Task-8: Create NAT Gateway



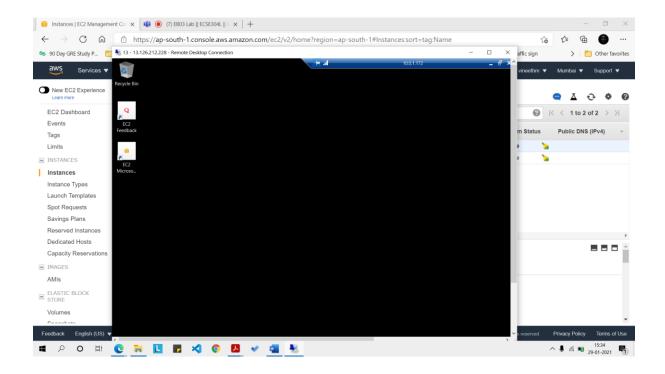


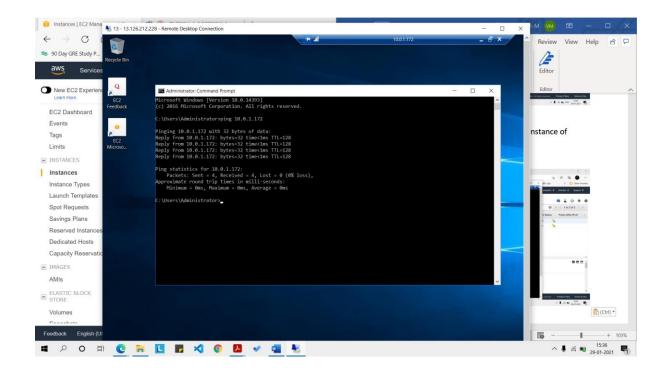


Task-9: Attach the NAT Gateway to the private route table



Task-10: Via RDP of the public server, we connected to instance of private subnet.





We can notice the ping command to the private instance results in a success.

We cannot access this instance from outside as it is a part of the private subnet. The public instance can access it because they are a part of the same VPC.