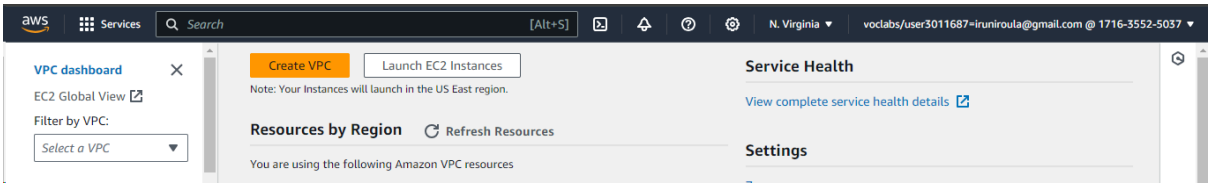
VPC Configuration Lab

Objective: To understand the fundamentals of AWS networking through the configuration of a Virtual Private Cloud (VPC).

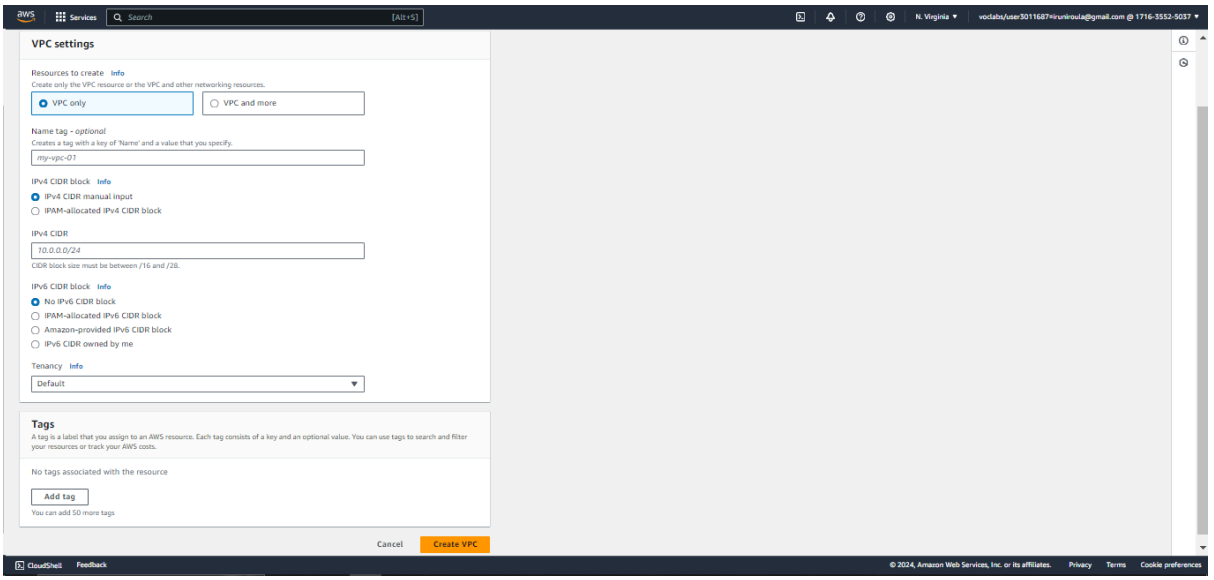
Approach: Students will create a new VPC, add subnets, set up an Internet Gateway, and configure route tables. The lab might also include setting up a simple EC2 instance within this VPC to demonstrate how resources are deployed in a custom network environment.

Goal: By the end of this lab, students should be able to create and configure a VPC, understand subnetting, and the role of route tables and internet gateways in AWS.

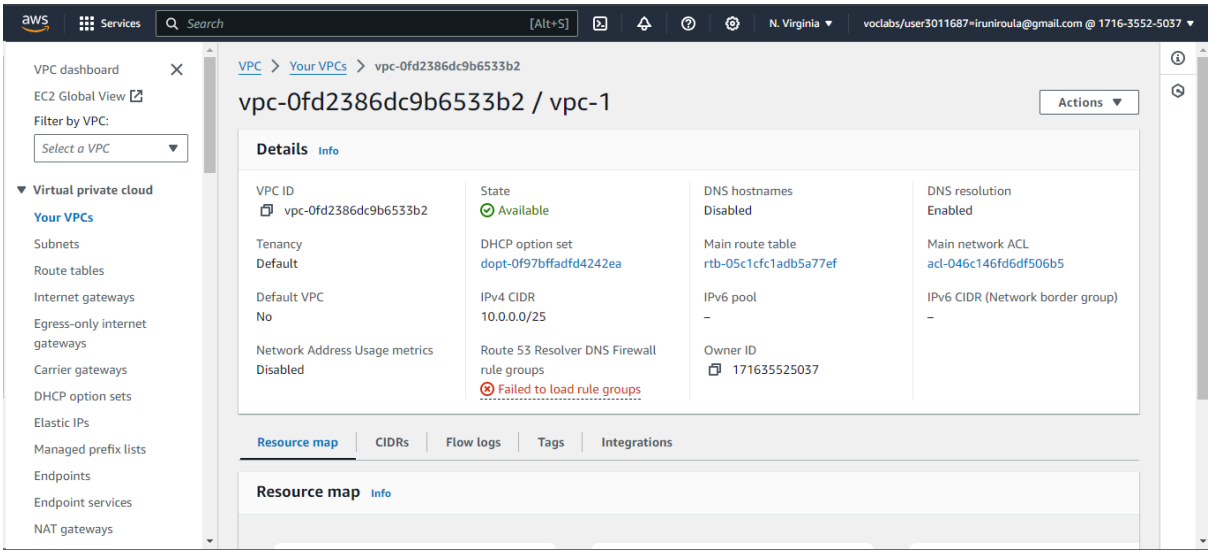
Step 1: Navigate to VPC Dashboard and click on “Create VPC” to create a new VPC.



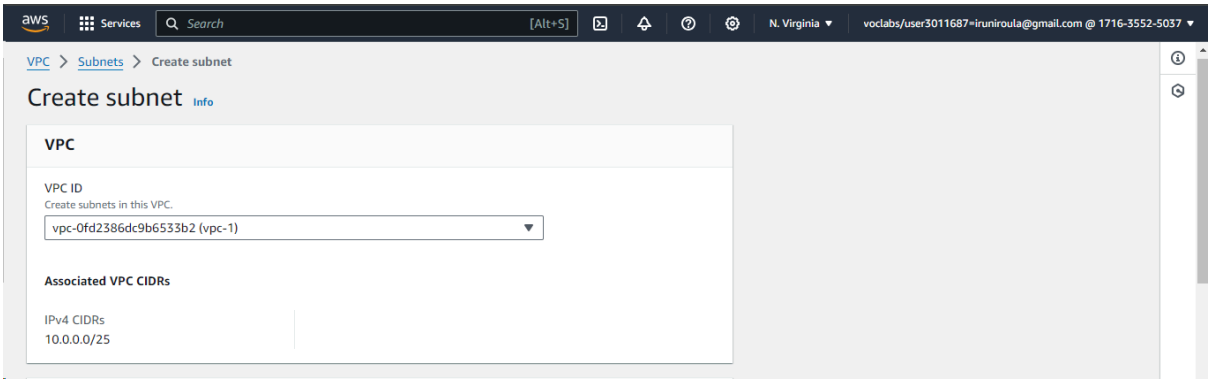
Step 2: Configure the VPC form and assign requested values.



New VPC is created

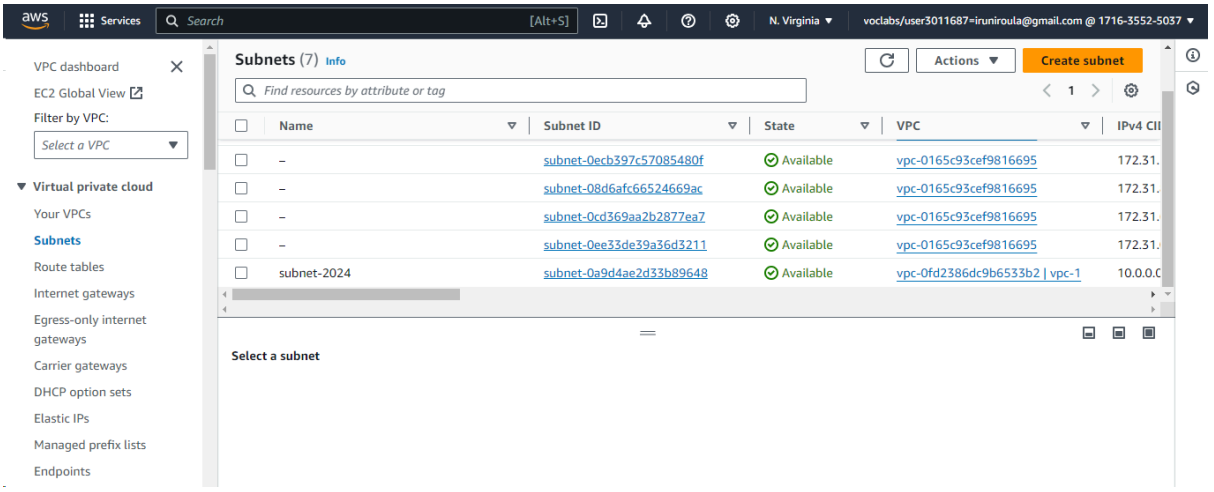


Step 3: Navigate to the subnet section and select created VPC ID

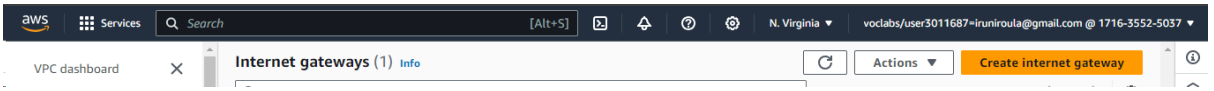


Step 4: Give subnet name select availability region and click on create subnet

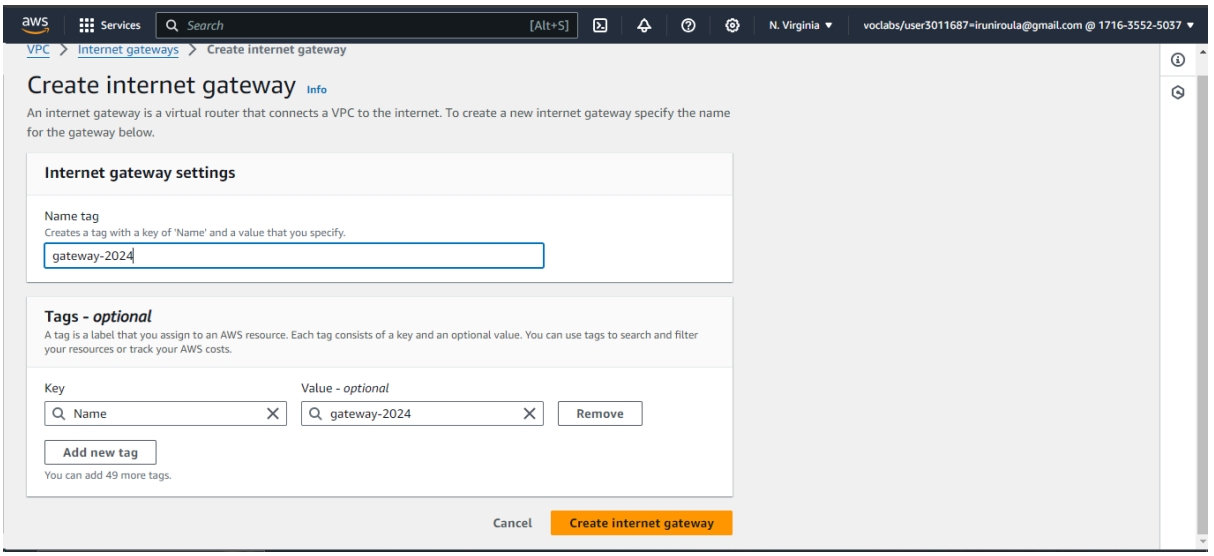
Here, the subnet (subnet-2024) is created.

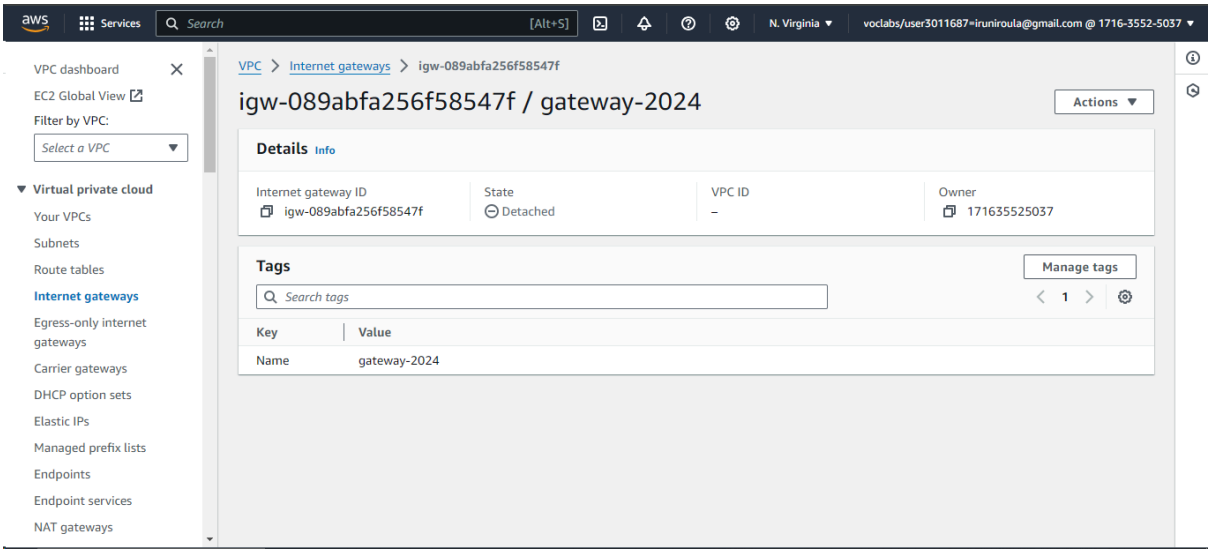


Step 5: Navigate to Internet gateway and select create internet gateway

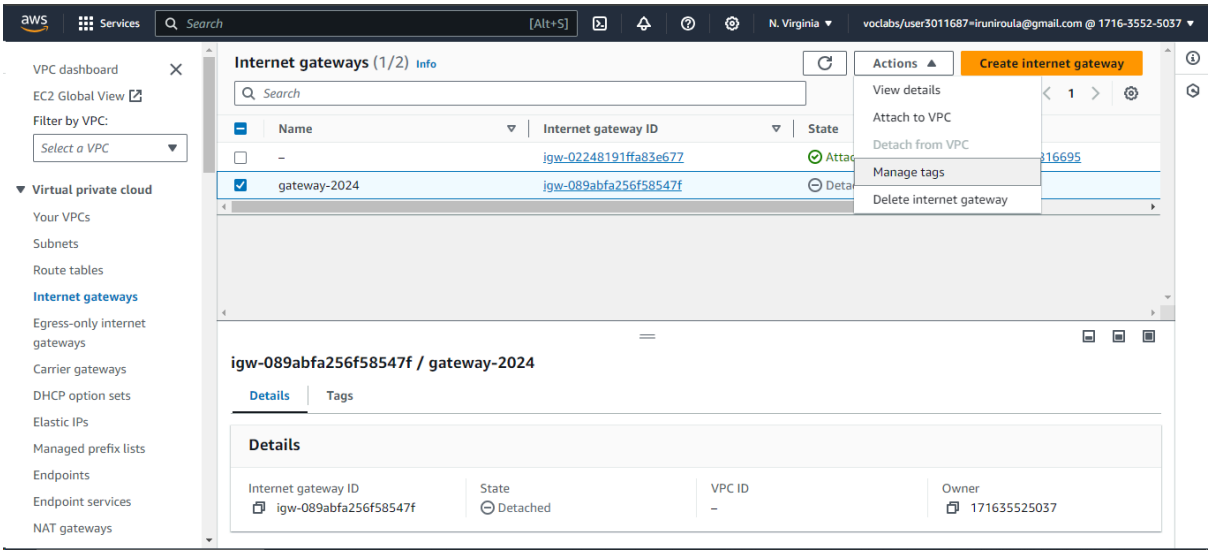


Step 6: Assign gateway name and then create

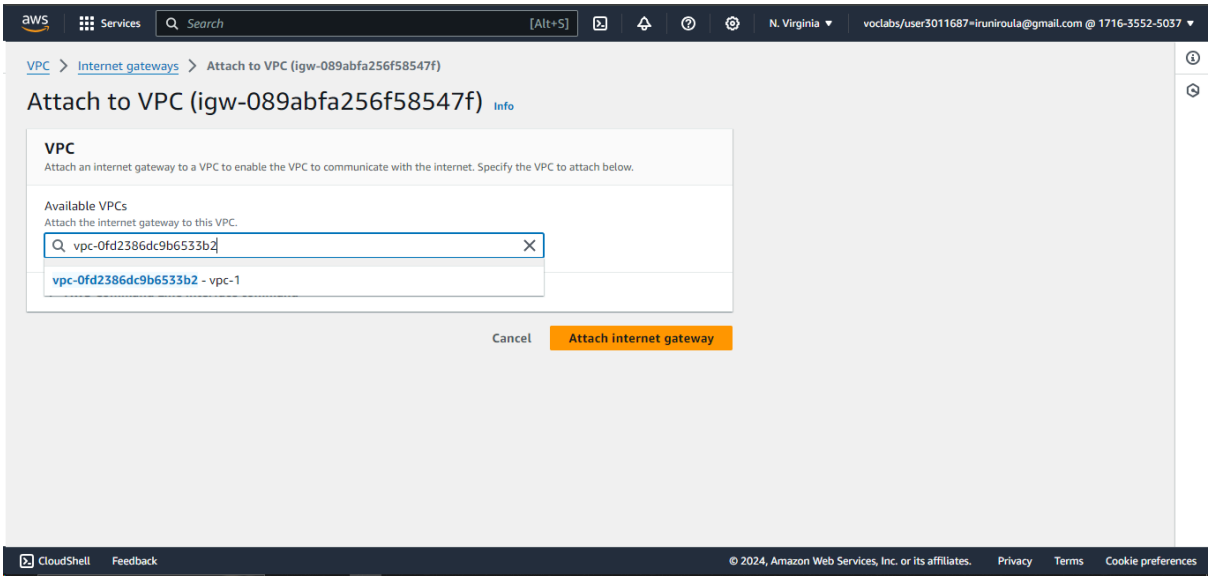


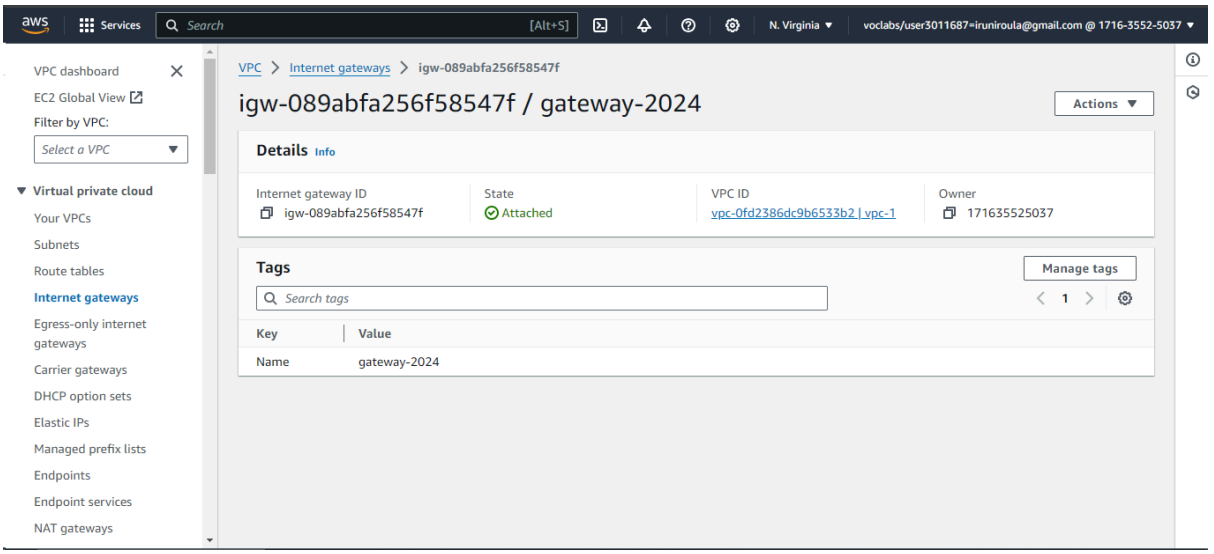


Step 7: Attach gateway to VPC by selecting internet gateway and selecting “Attach to VPC” in the dropdown

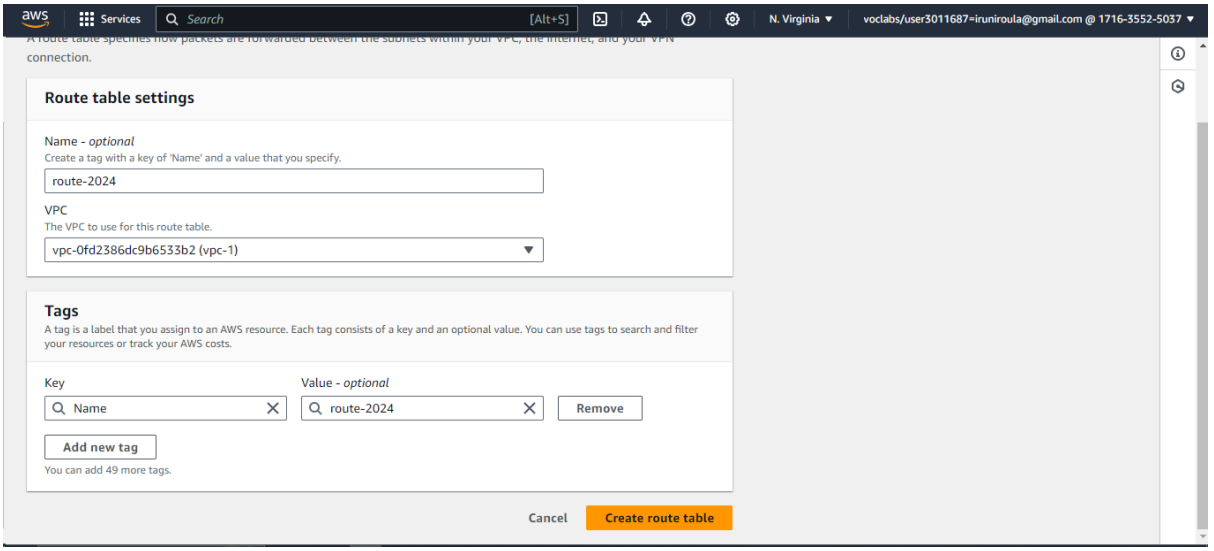


Step 8: Attach to the vpc created

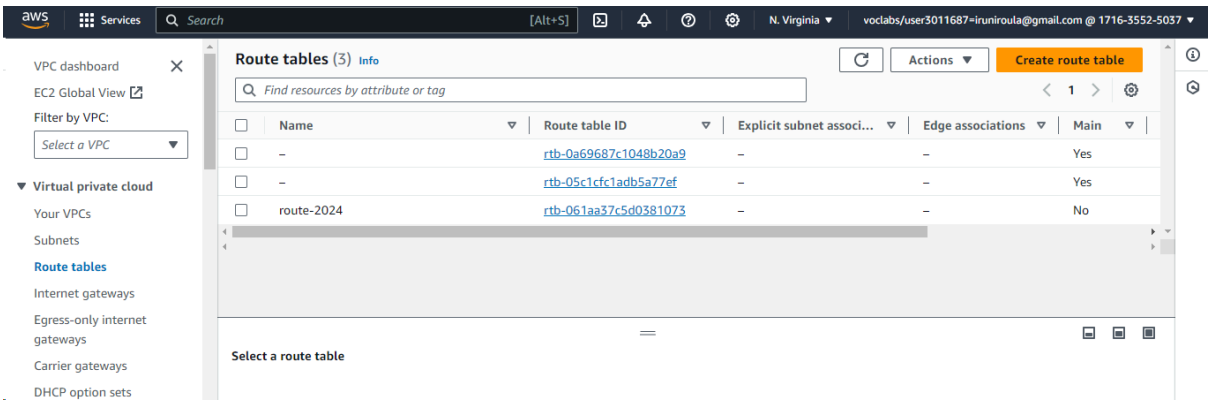




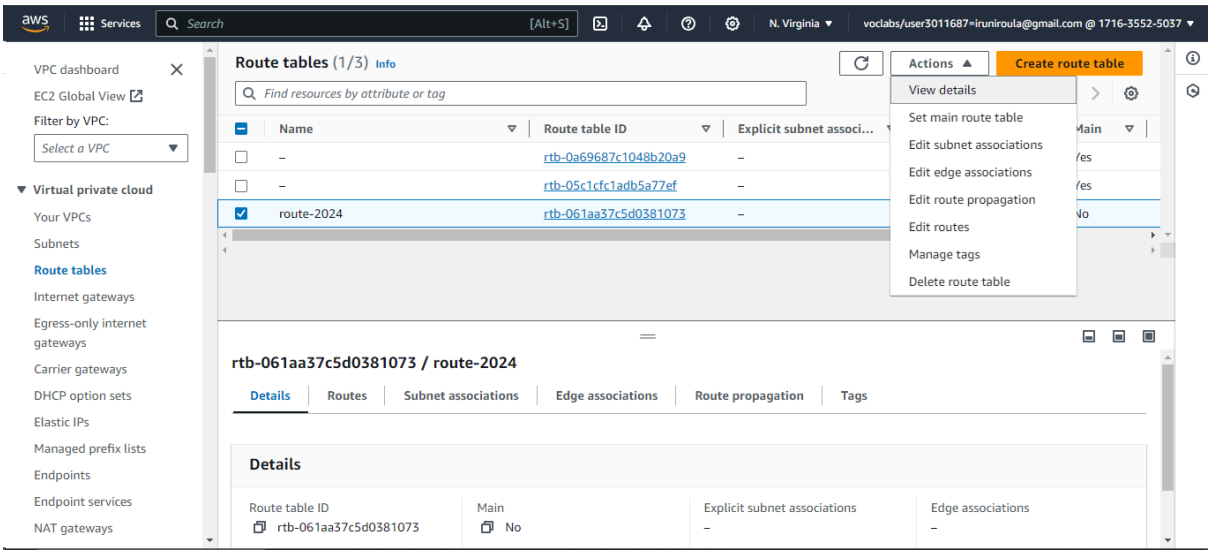
Step 9: Navigate to route table and select create route table. Give route table name and select vpc



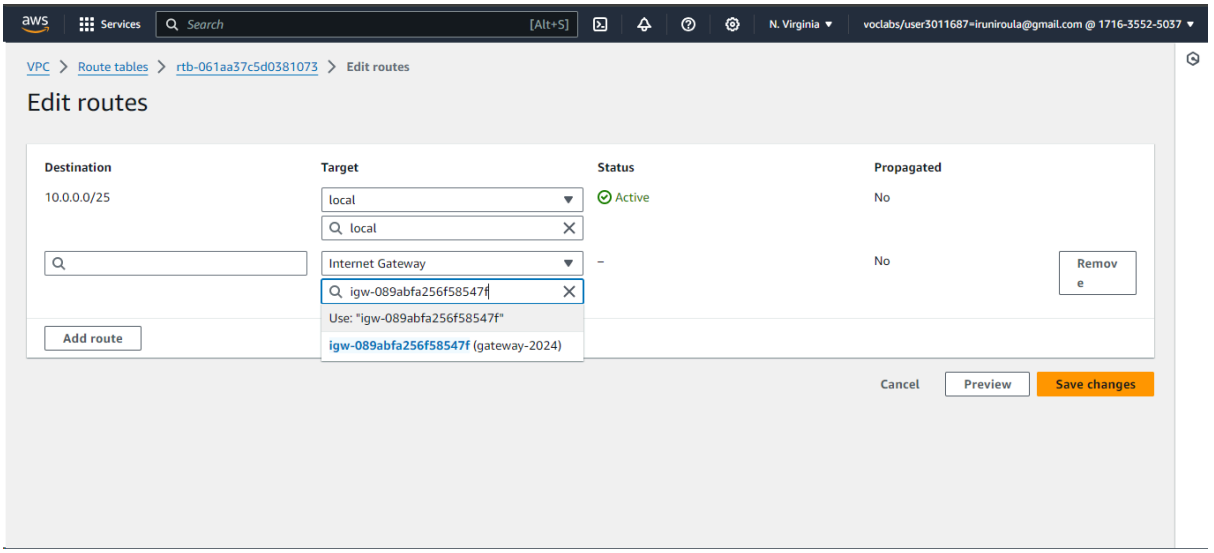
Route table created

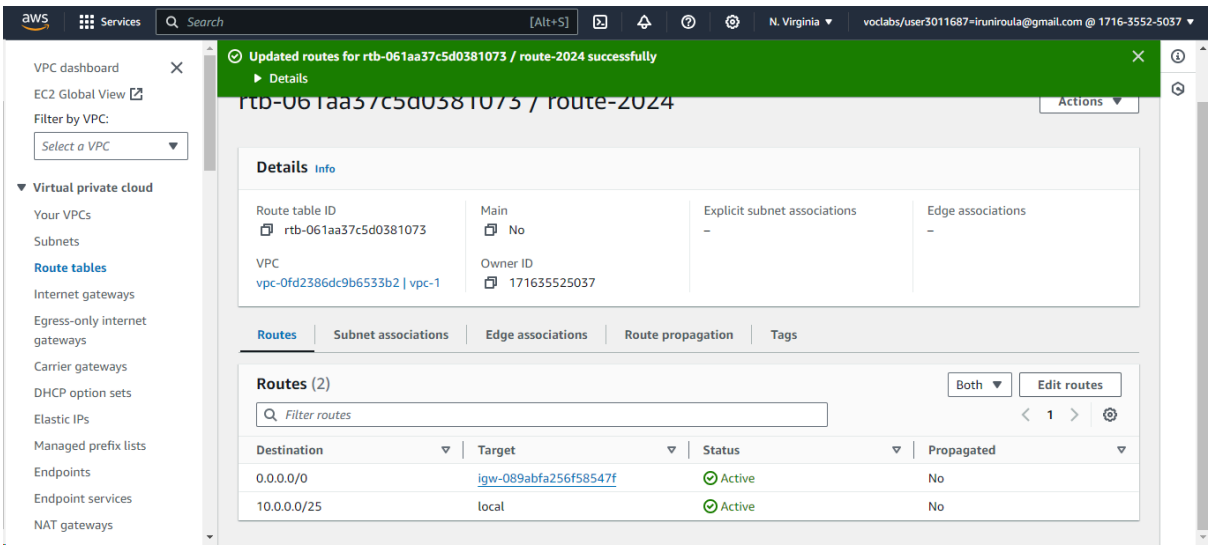


Step 10: Select route table and click on edit routes

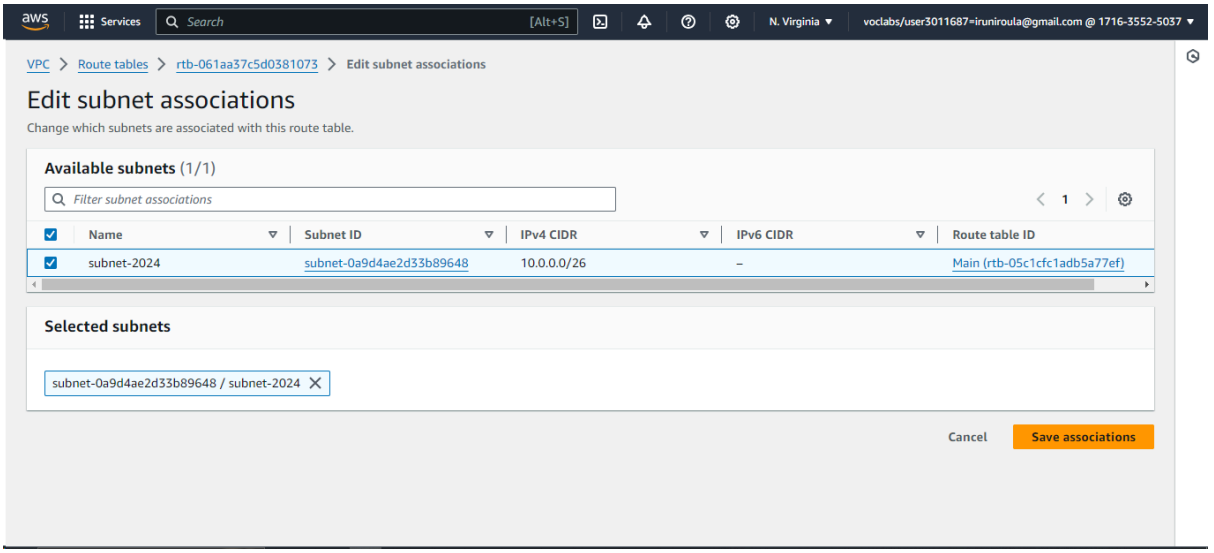


Step 11: Select add route and select the internet gateway created earlier

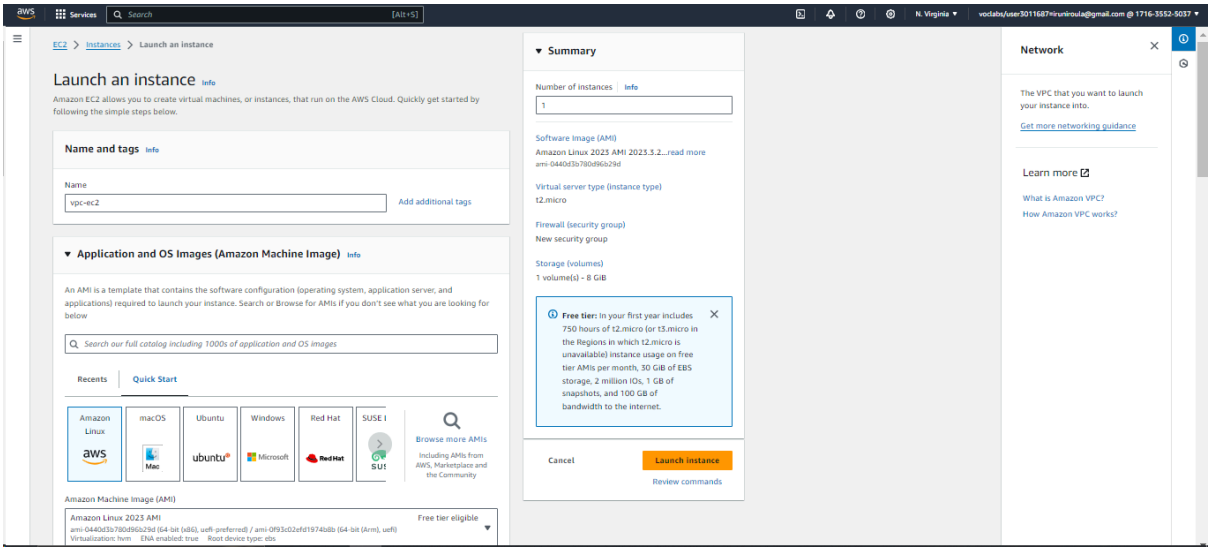


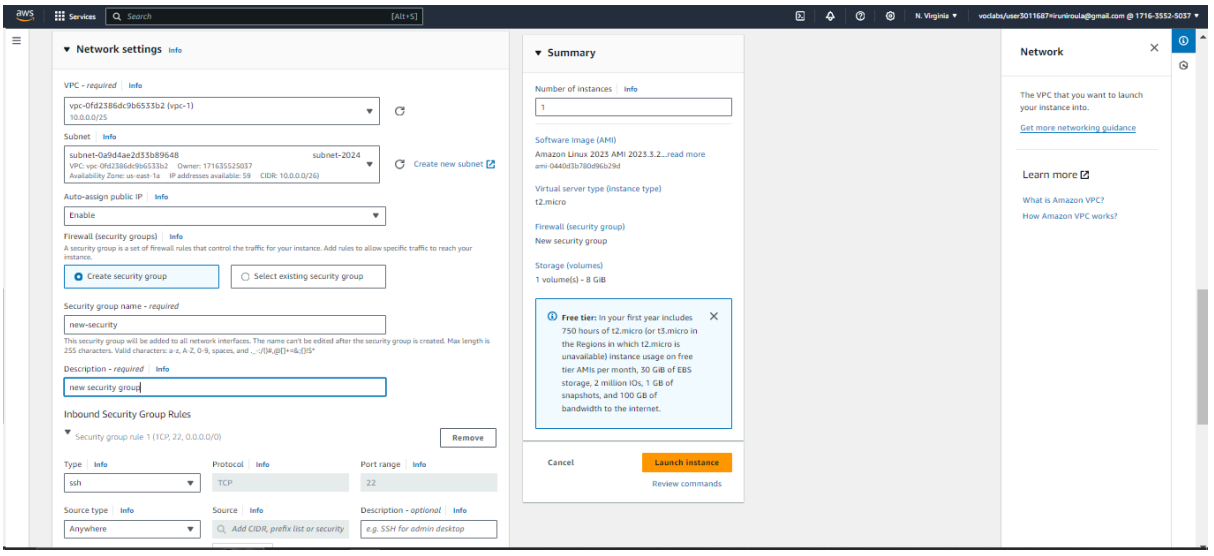


Step 12: Navigate to subnet associations tab. Select created subnet and save associations.

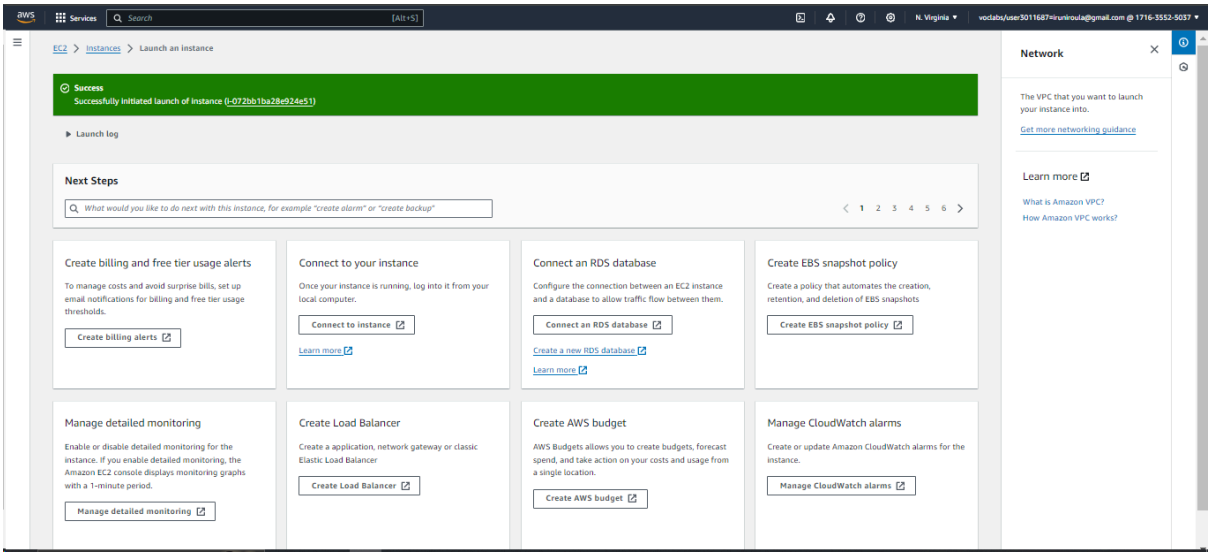


Step 13: Setting up simple EC2 instance and selecting created VPC and subnet and enabling “Auto assign public IP”. creating a new ssh group.





EC2 Instance is launched



Connecting to the instance