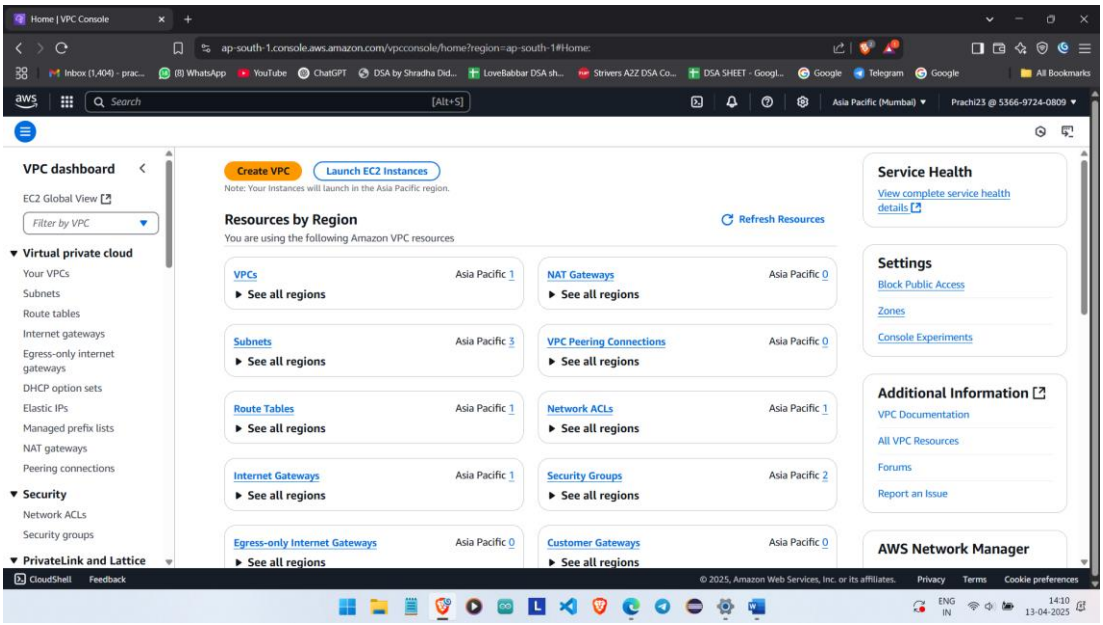
PRACTICAL NO : 11

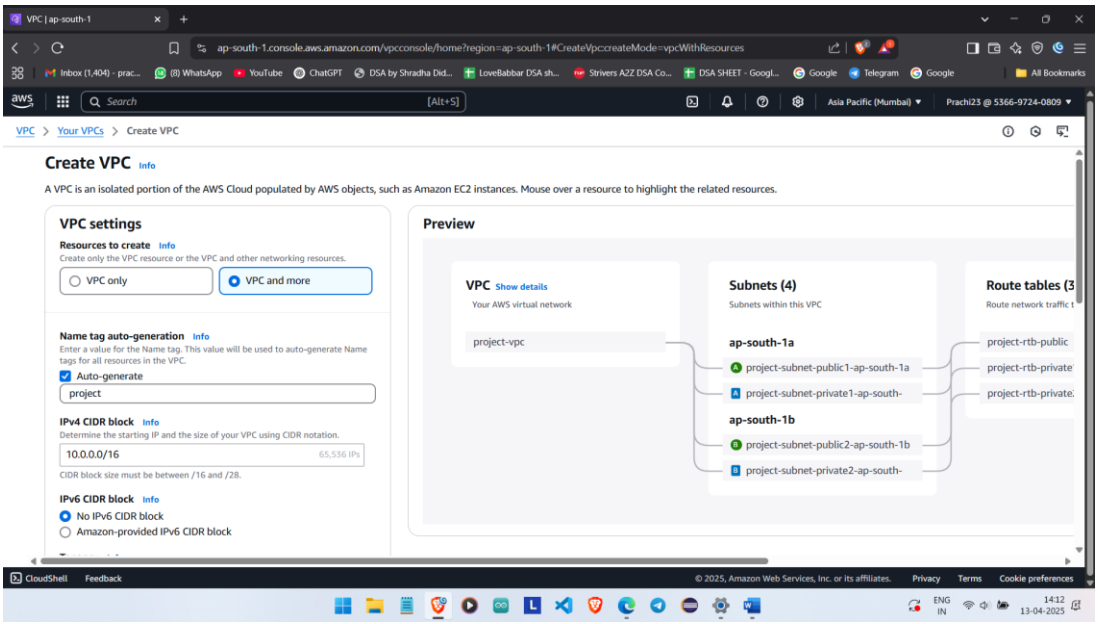
Title: Create A VPC network.

Steps:

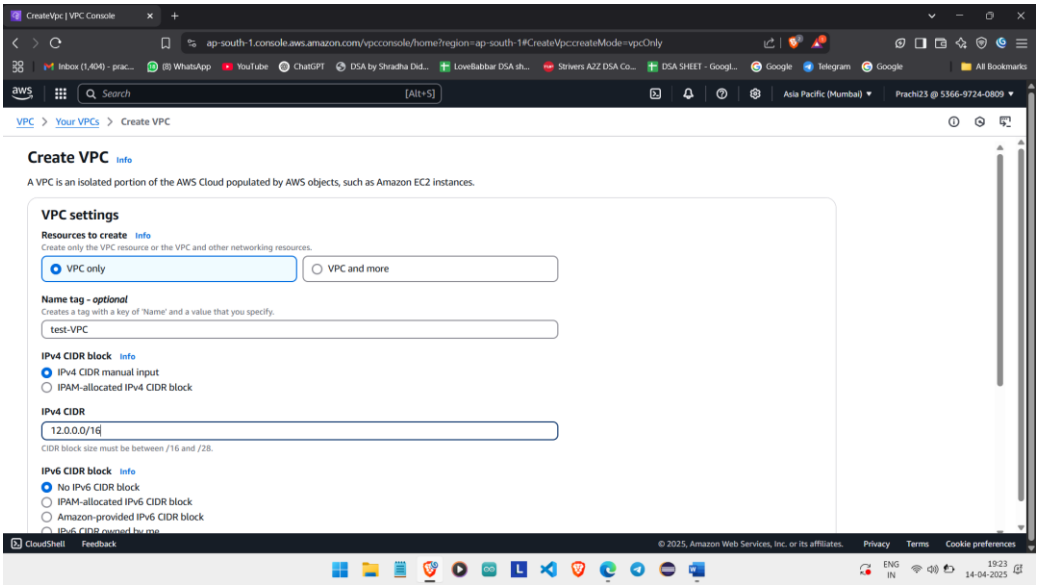
1. Login to AWS Console and Go to VPC section.



2. Click on ‘Create VPC’ button at the top.

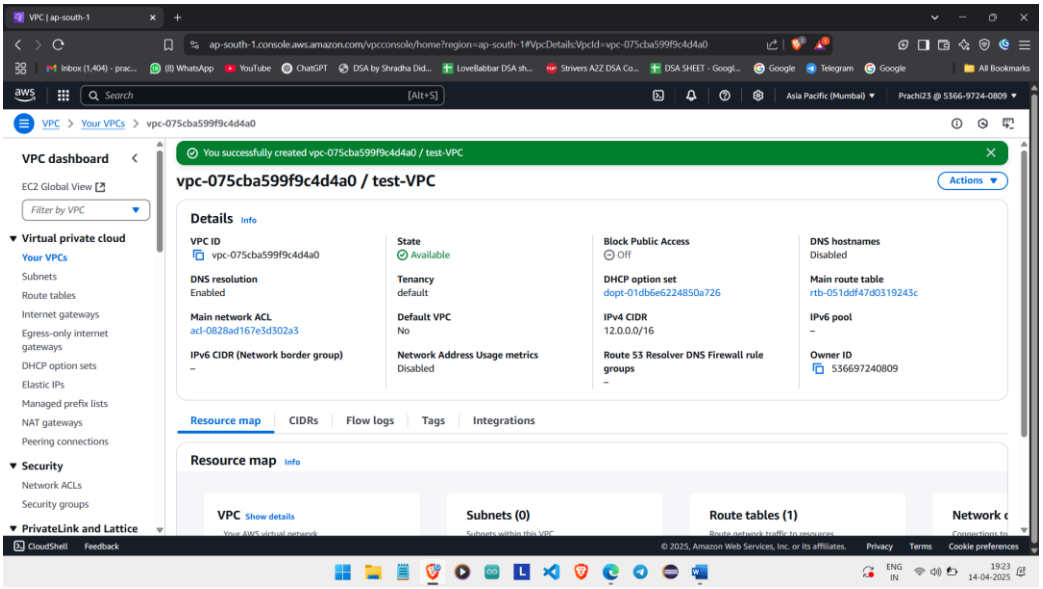


Give name to the VPC and IPV4 CIDR.

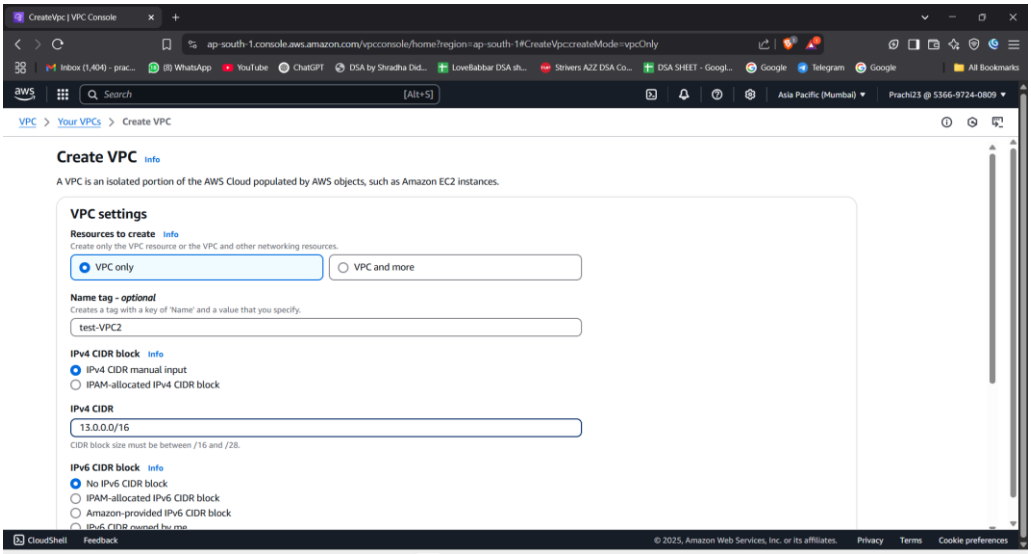


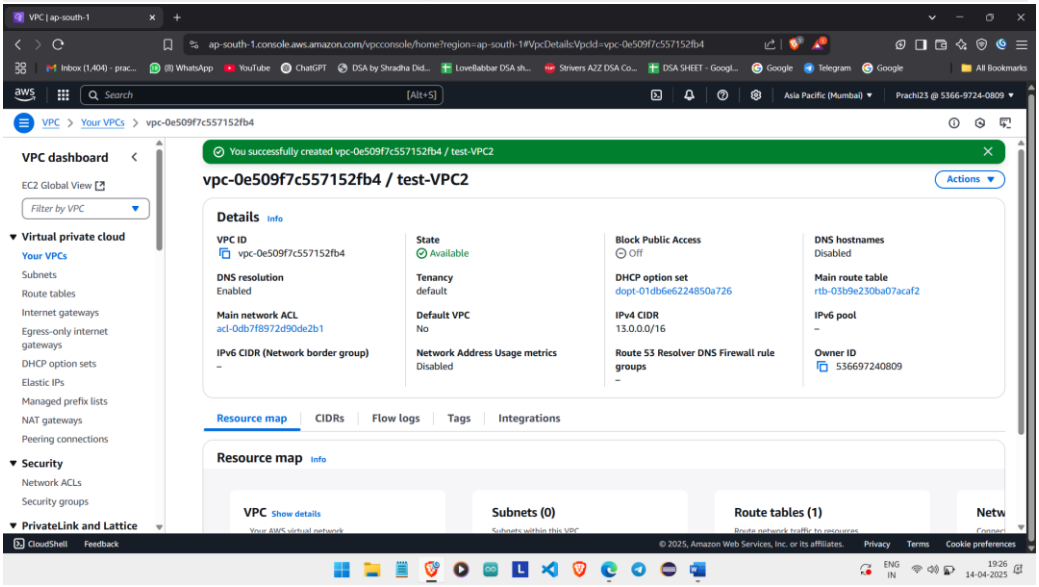
Then click on ‘CREATE VPC’.

Now , we have successfully created our VPC.

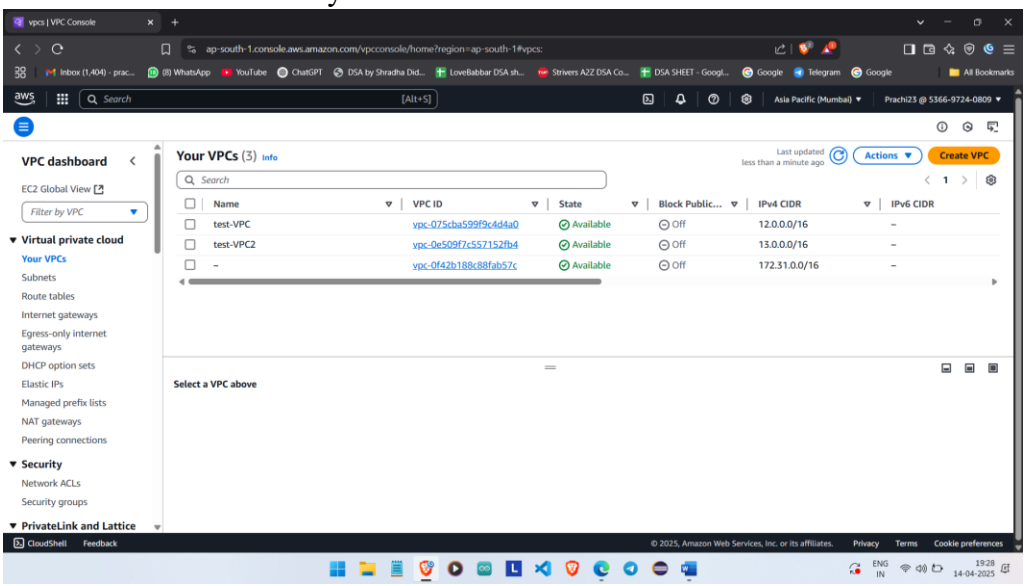


3. Similarly, create second VPC

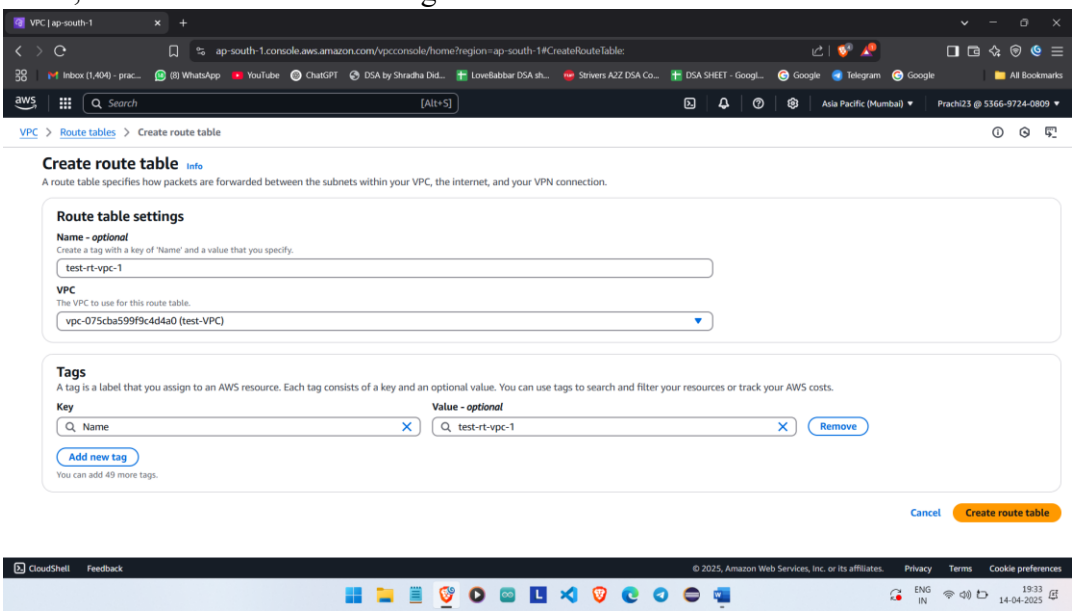


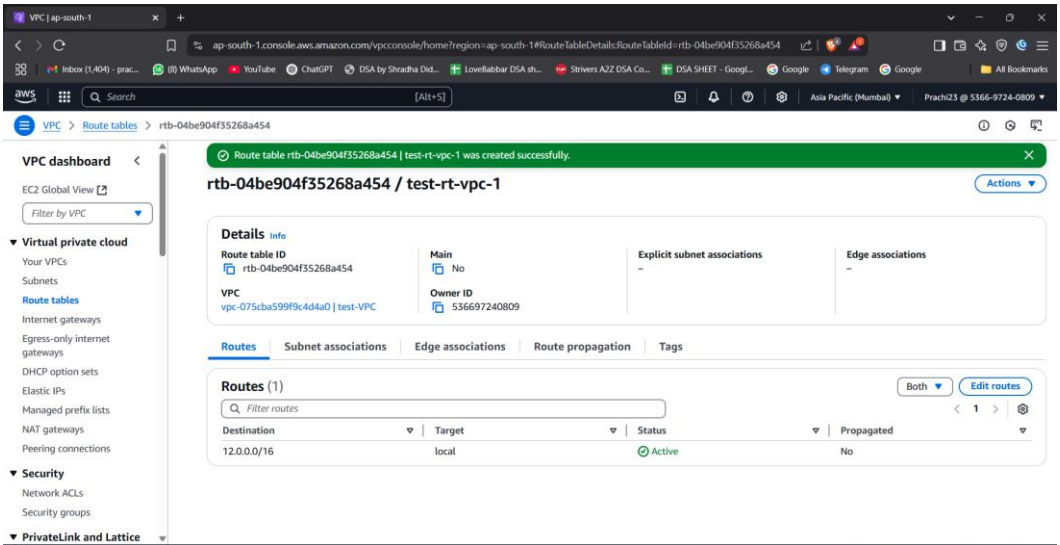


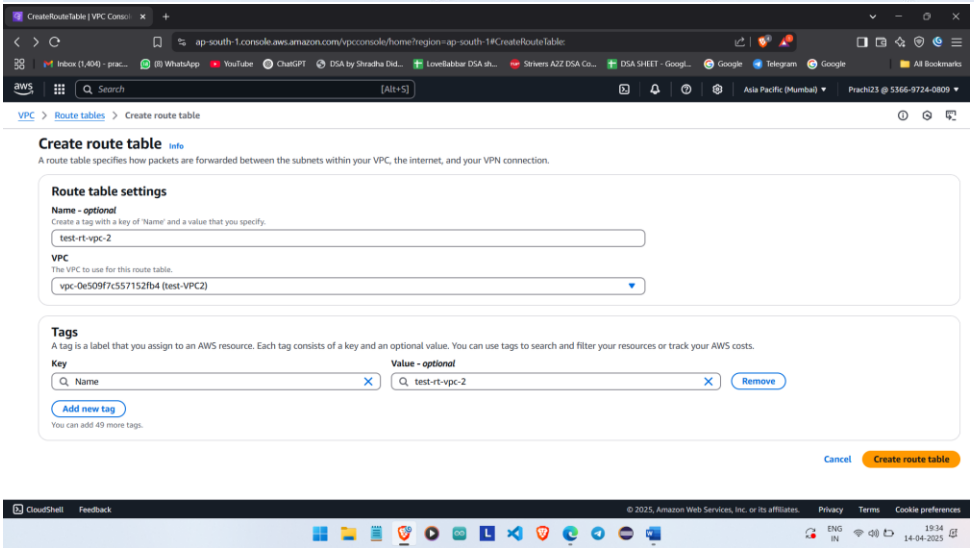
Now we have successfully create 2 VPC’s.

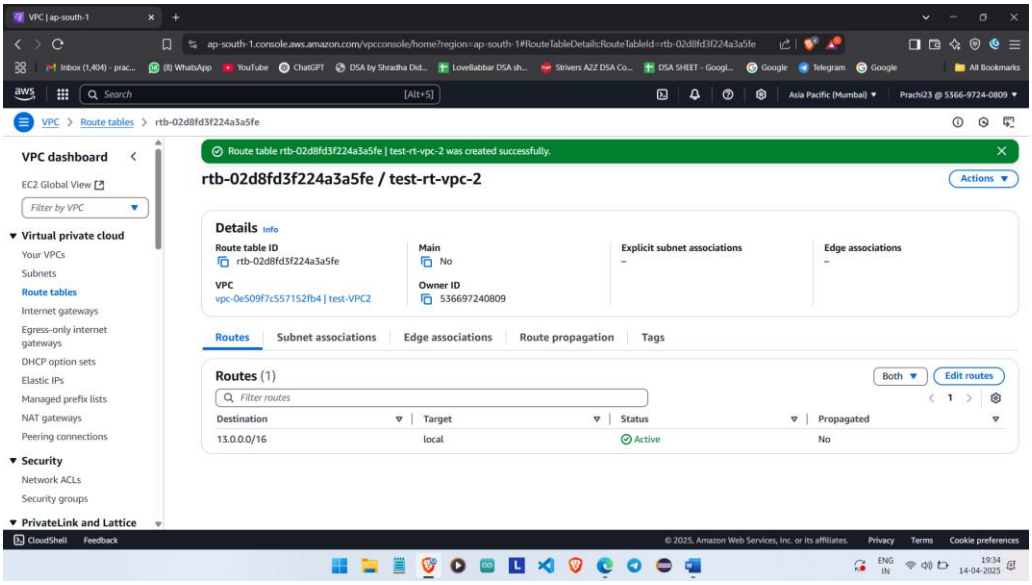


4. Now , we need to create 2 routing tables : so Go to Route Tables tab

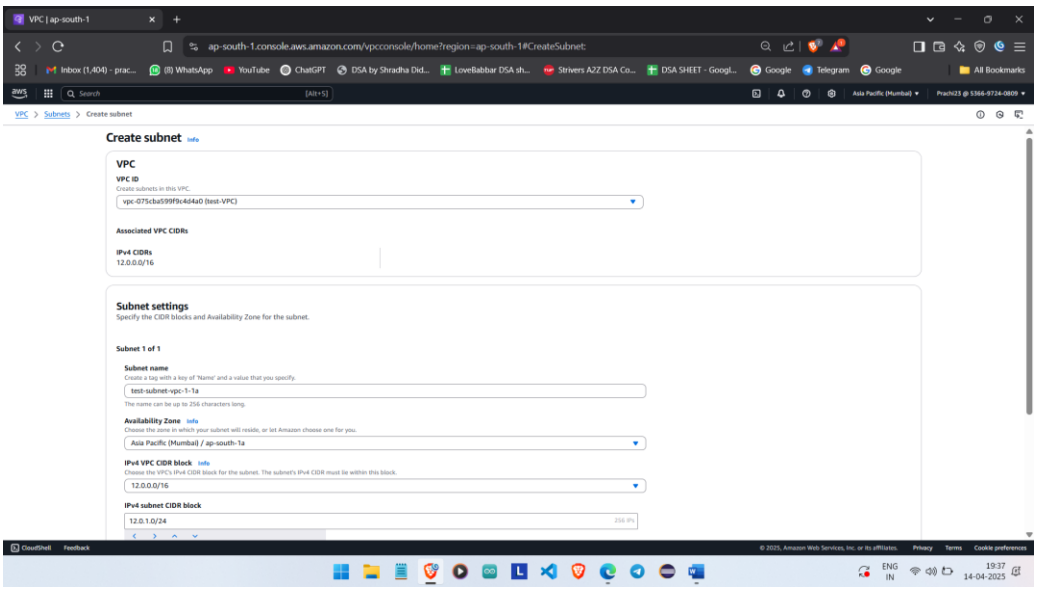


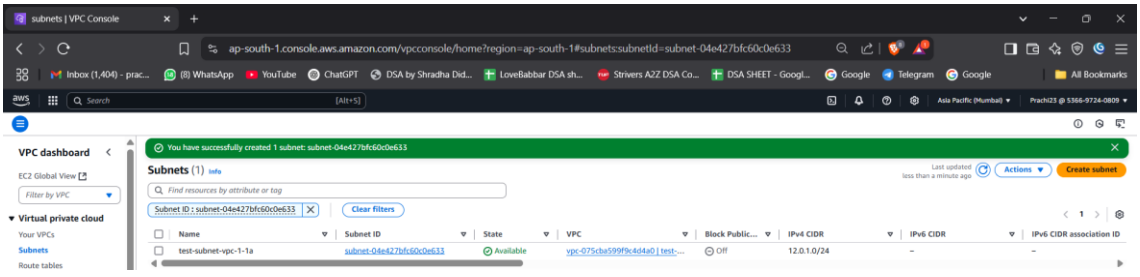




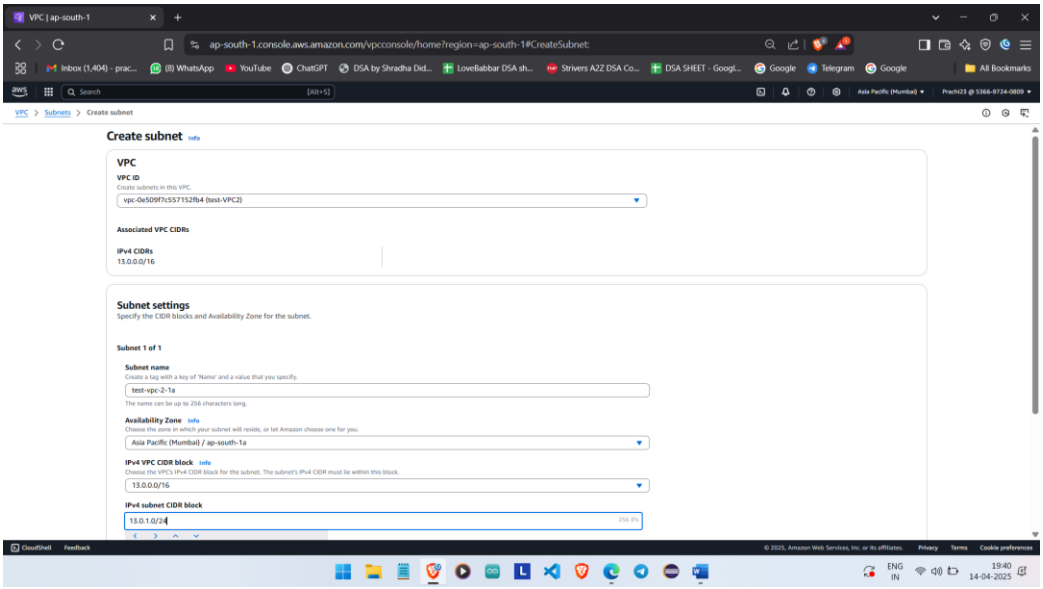


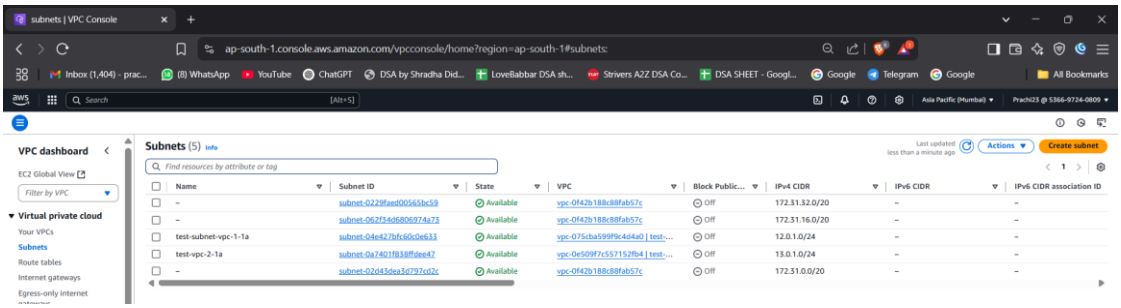
5. Now, Create Subnets:
For VPC1:



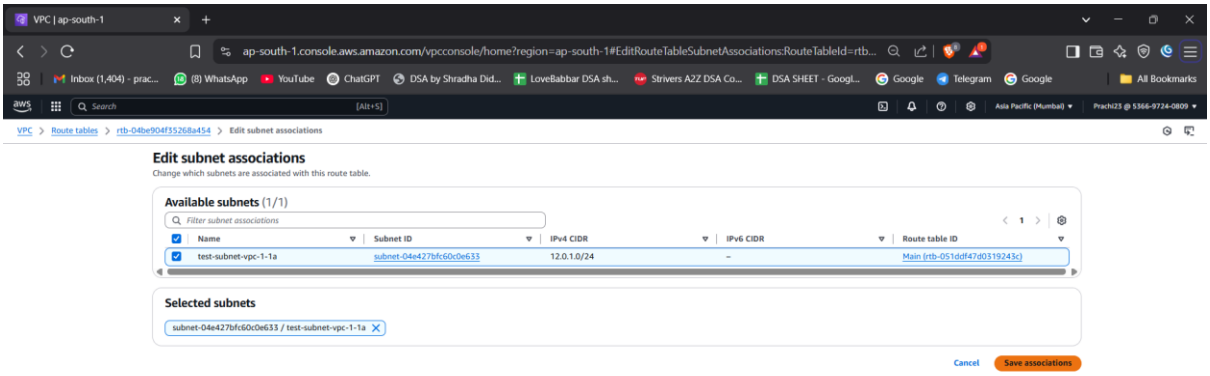


For VPC2:

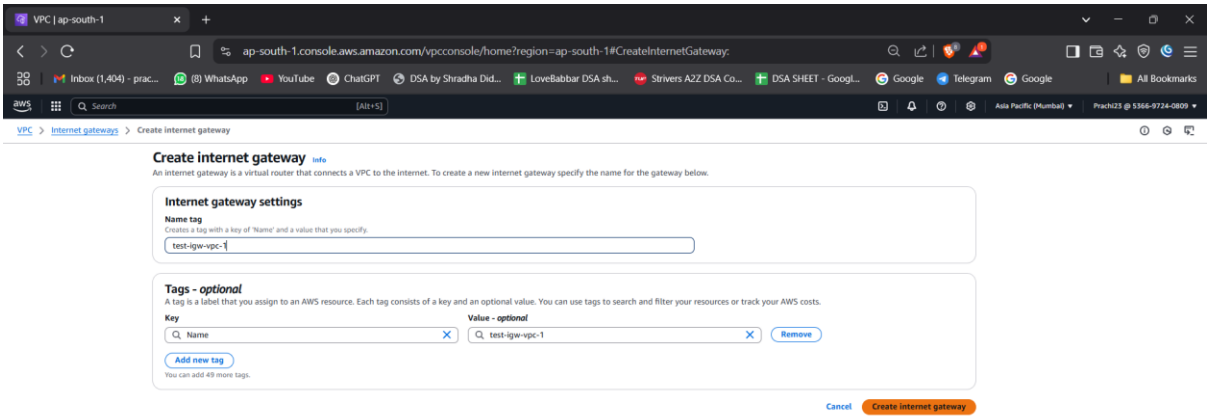




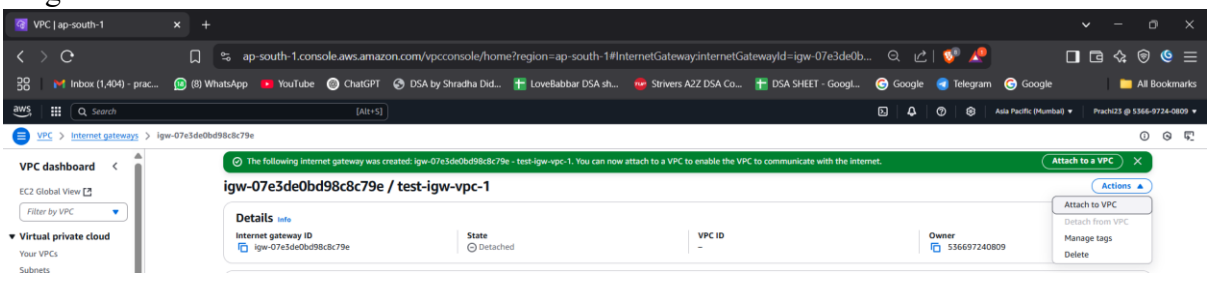
6. Now we need to connect our route tables with subnets.
   Go to Route table -> VPC1 ->Subnet Association -> edit subnet association -> select text box and save association

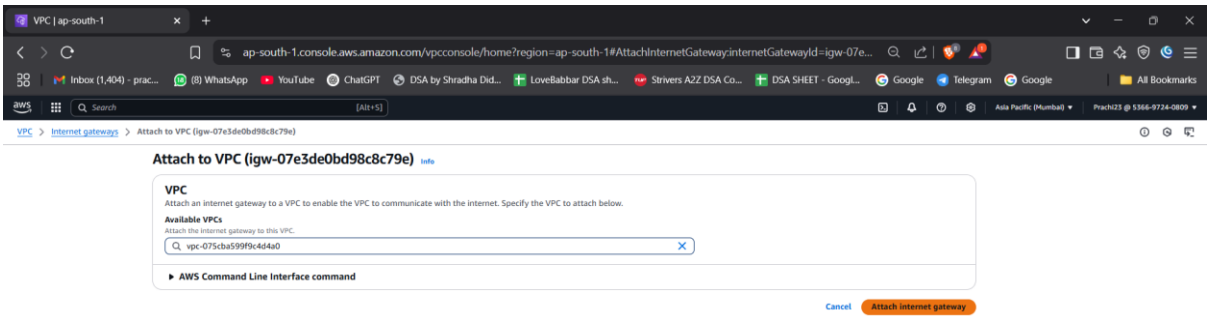


7. Create INTERNET GATEWAY

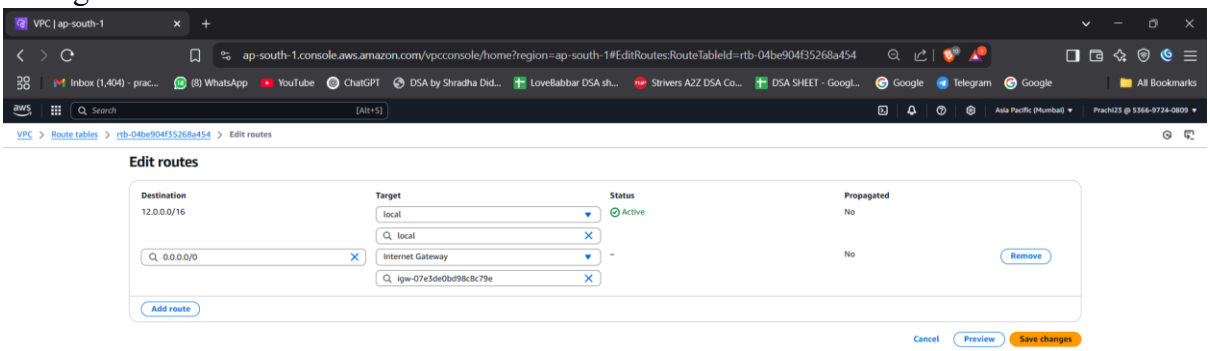


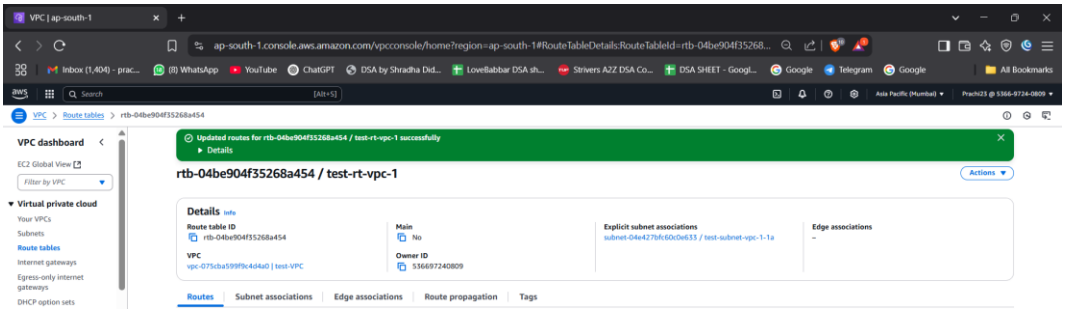
Then we need to attach VPC with internet gateway :
So go to ACTIONS->ATTACH VPC ->SELECT VPC -> ATTACH



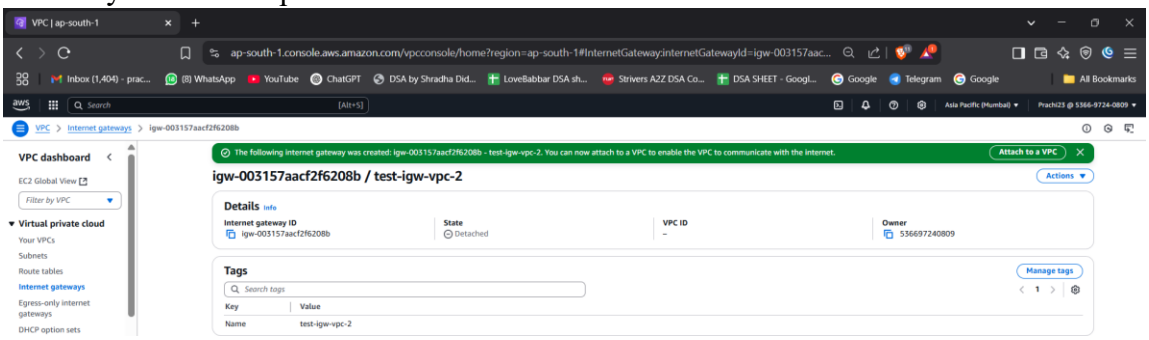


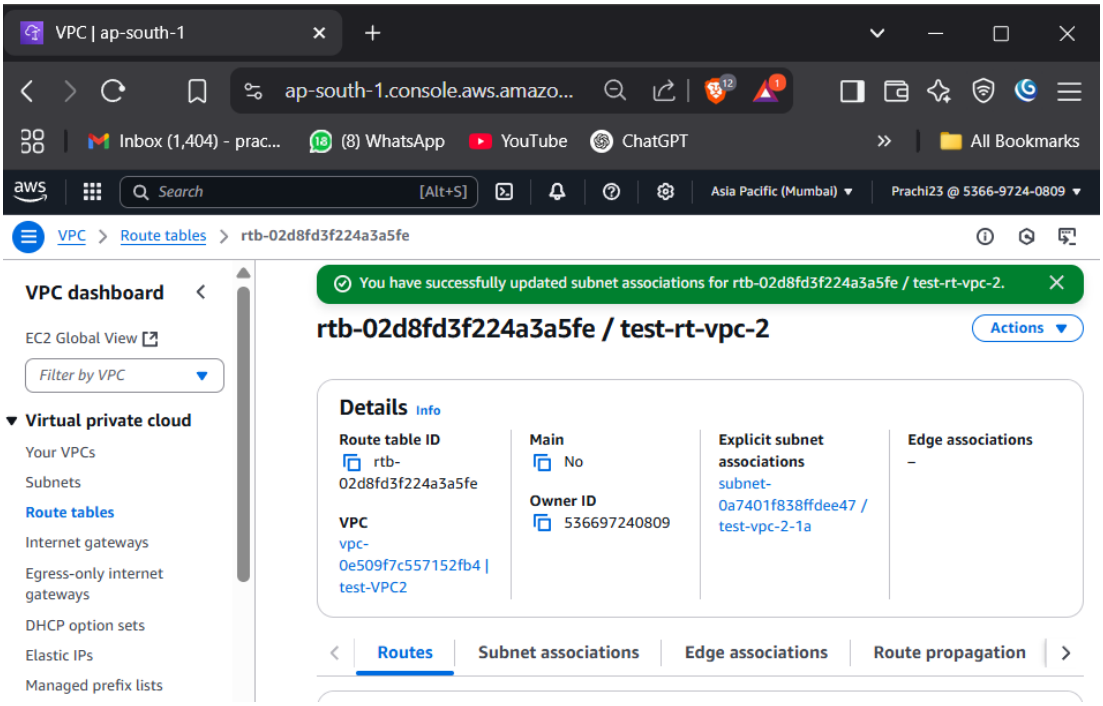
8. Now go to Route table -> VPC1-> edit route



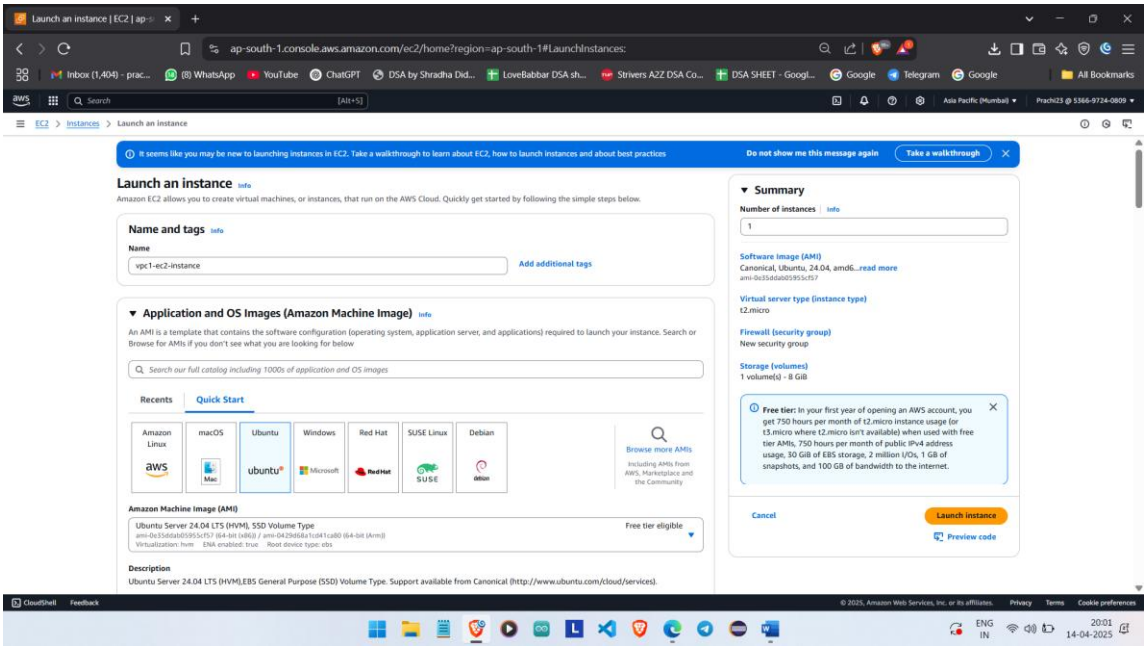


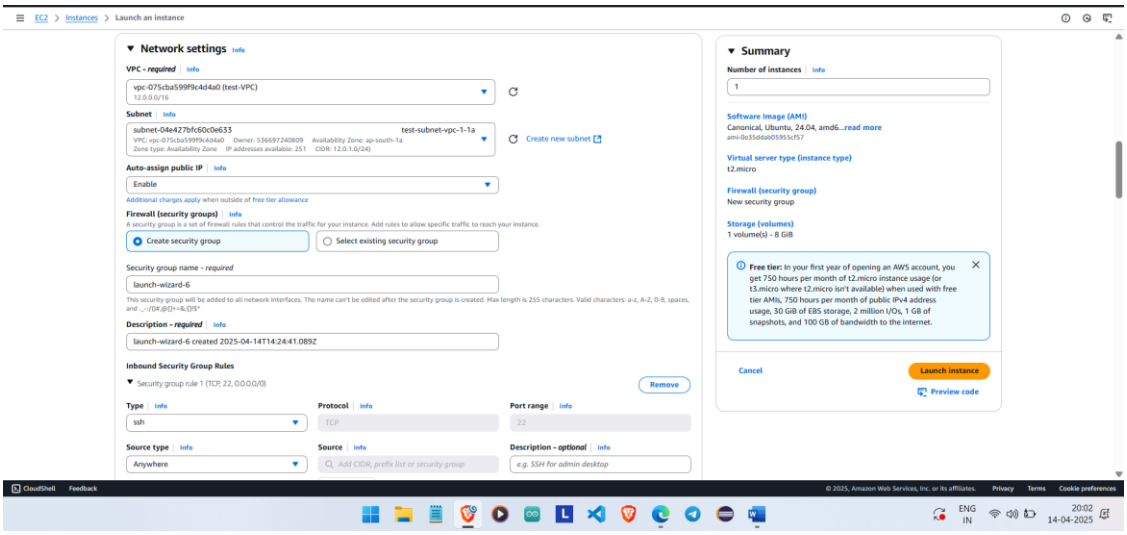
9. Similarly do these steps for VPC2

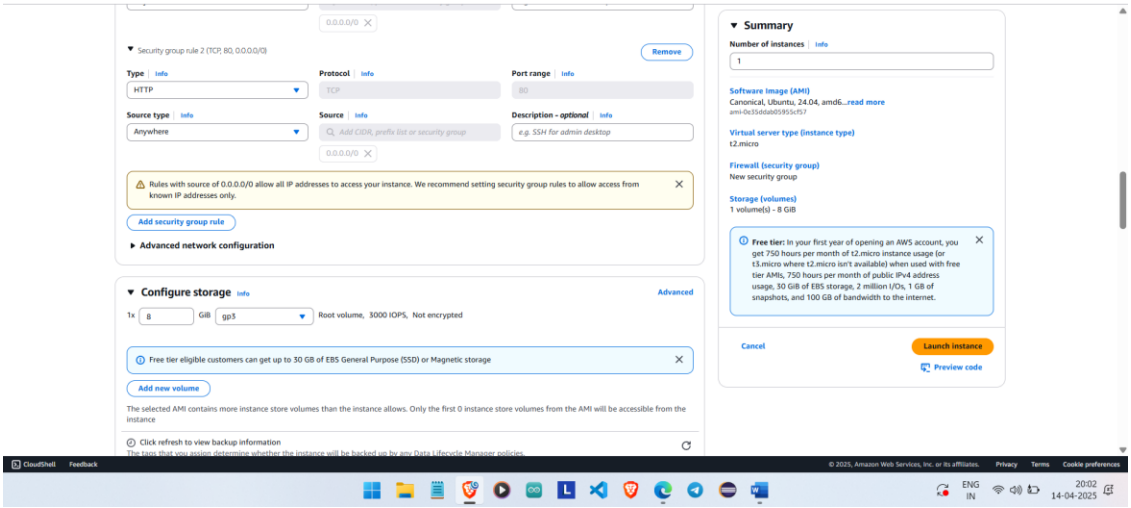


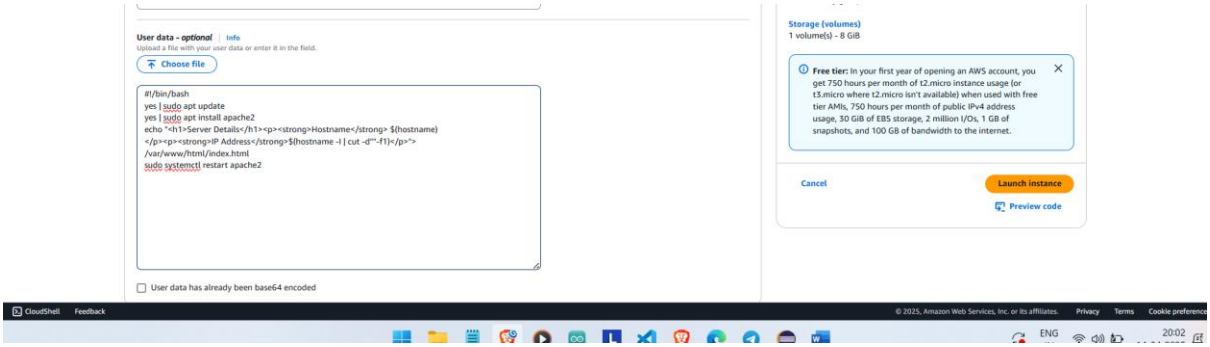


10. Now create an EC2 instance.

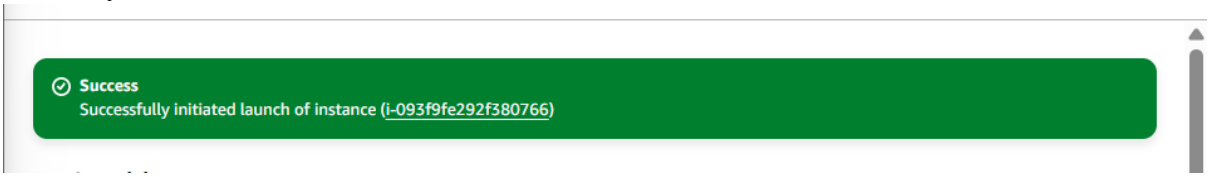

Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
EC2 > Instances > Launch an instance
Launch an instance
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags
Name
vpc1-ec2-instance
Add additional tags
Application and OS Images (Amazon Machine Image)
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Ubuntu Server 24.04 LTS (HVM), SSD Volume Type
Free tier eligible
Description
Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Summary
Number of instances
1
Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Preview code


EC2 > Instances > Launch an instance
Network settings
VPC - required
vpc-075cba599f9c4d4a0 (test-VPC)
Subnet
subnet-04e427bfc60c0e633
test-subnet-vpc-1-1a
Create new subnet
Auto-assign public IP
Enable
Firewall (security groups)
Create security group
Select existing security group
Security group name - required
launch-wizard-6
Description - required
launch-wizard-6 created 2025-04-14T14:24:41.089Z
Inbound Security Group Rules
Security group rule 1 (TCP, 22, 0.0.0.0/0)
Remove
Type
ssh
Protocol
TCP
Port range
22
Source type
Anywhere
Source
Add CIDR, prefix list or security group
Description - optional
e.g. SSH for admin desktop
Summary
Number of instances
1
Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Preview code

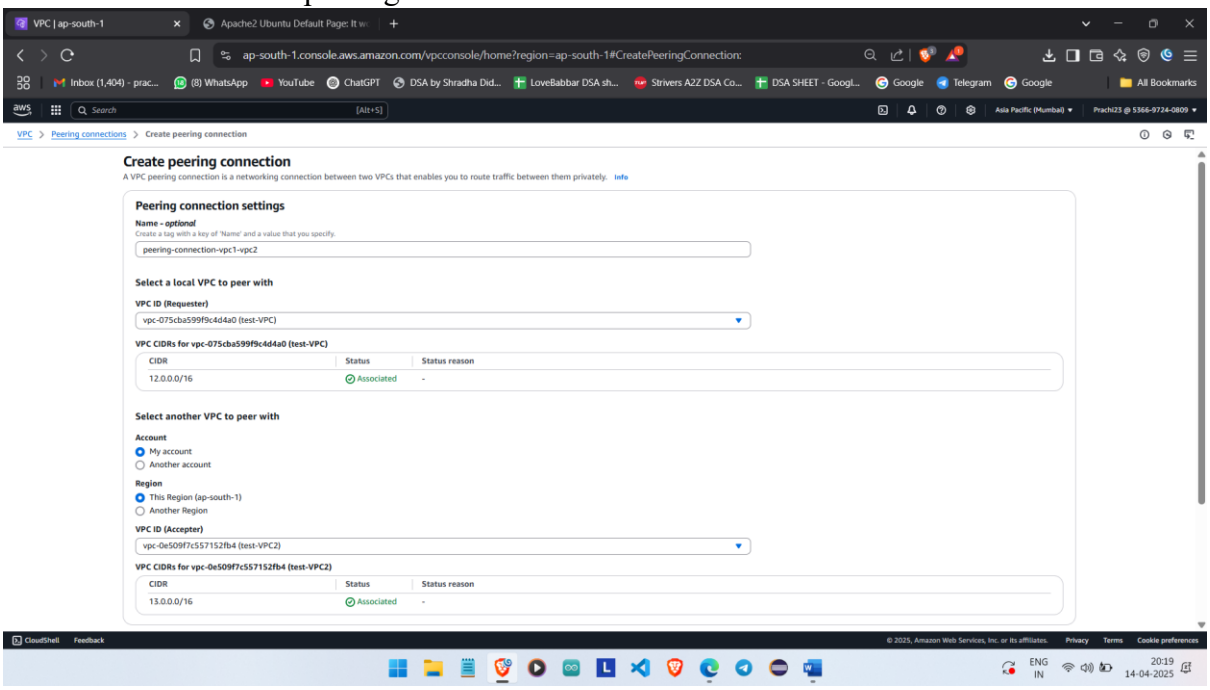

Security group rule 2 (TCP, 80, 0.0.0.0/0)
Remove
Type
HTTP
Protocol
TCP
Port range
80
Source type
Anywhere
Source
Add CIDR, prefix list or security group
Description - optional
e.g. SSH for admin desktop
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Add security group rule
Advanced network configuration
Configure storage
Advanced
1x
8
GiB
gp3
Root volume, 3000 IOPS, Not encrypted
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance
Click refresh to view backup information
Summary
Number of instances
1
Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Preview code

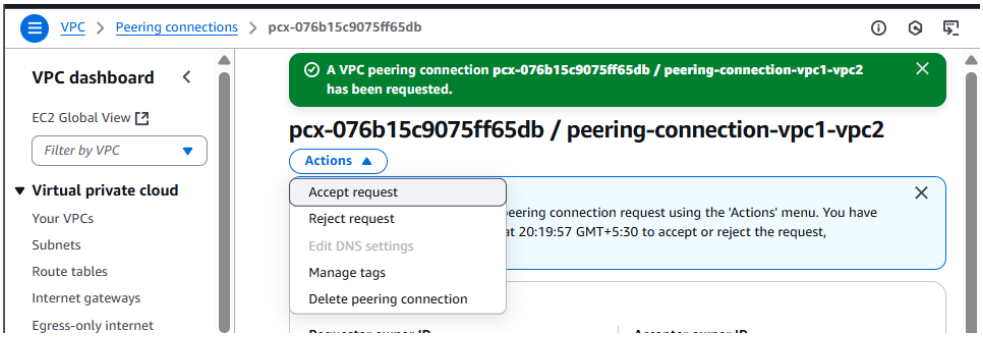


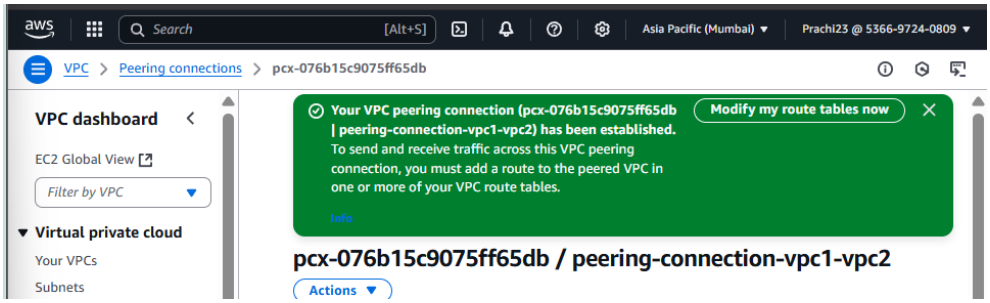
Similarly launch EC2 instance for VPC2



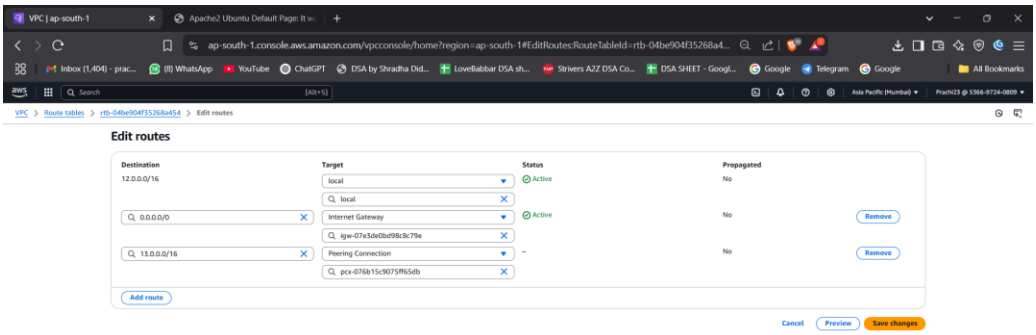
11. Now we need to create peering between 2 VPC's



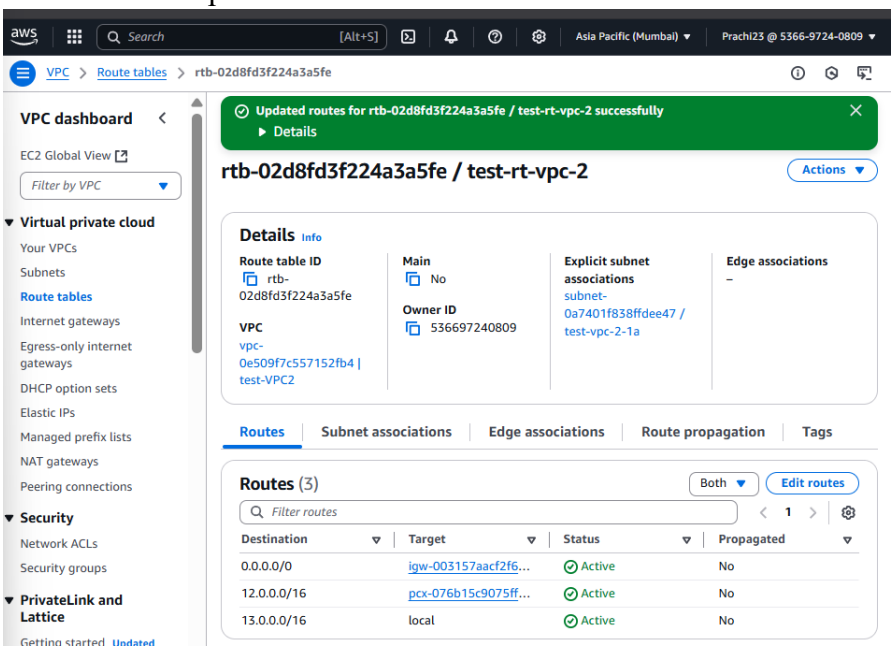


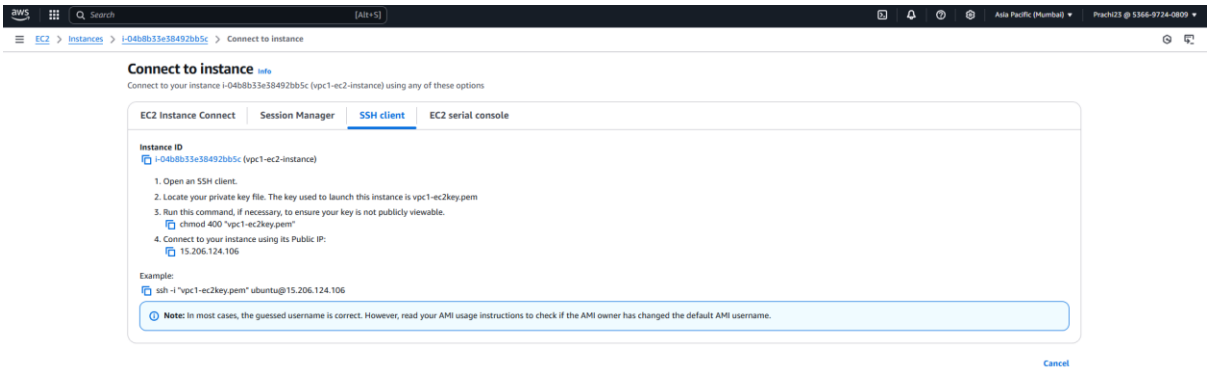


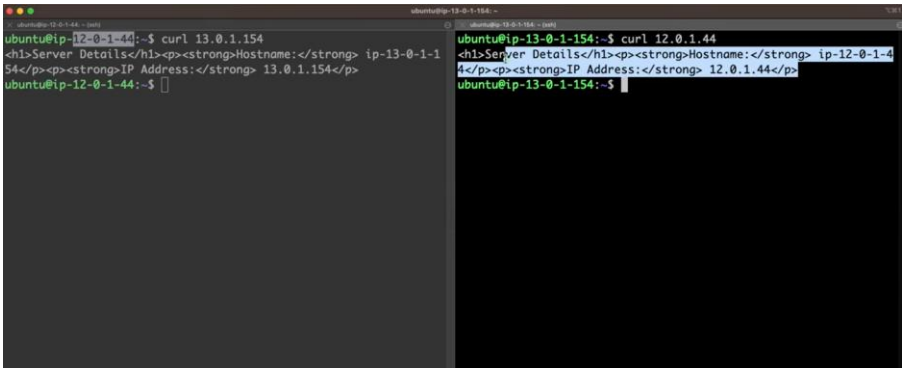
12. Now go to route table -> vpc1 -> edit route -> add route



Do similar for vpc2 route table




Search
[Alt+S]
Asia Pacific (Mumbai)
Prachi23 @ 5366-9724-0809
EC2 > Instances > i-04b8b33e38492bb5c > Connect to instance
Connect to instance Info
Connect to your instance i-04b8b33e38492bb5c (vpc1-ec2-instance) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-04b8b33e38492bb5c (vpc1-ec2-instance)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is vpc1-ec2key.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "vpc1-ec2key.pem"
4. Connect to your instance using its Public IP:
15.206.124.106
Example:
ssh -i "vpc1-ec2key.pem" ubuntu@15.206.124.106
Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel


ubuntu@ip-12-0-1-44:~$ curl 13.0.1.154
<h1>Server Details</h1> Hostname: ip-13-0-1-154 IP Address: 13.0.1.154
ubuntu@ip-12-0-1-44:~$
ubuntu@ip-13-0-1-154:~$ curl 12.0.1.44
<h1>Server Details</h1> Hostname: ip-12-0-1-44 IP Address: 12.0.1.44
ubuntu@ip-13-0-1-154:~$