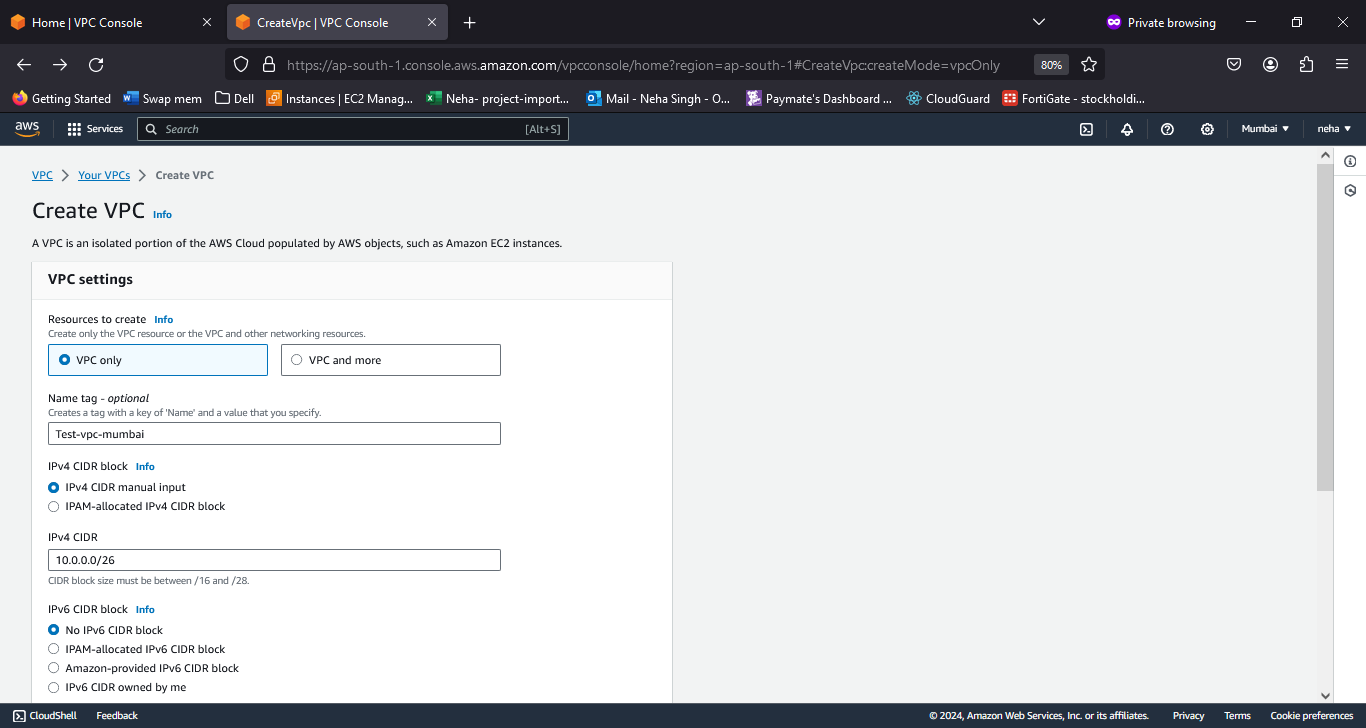
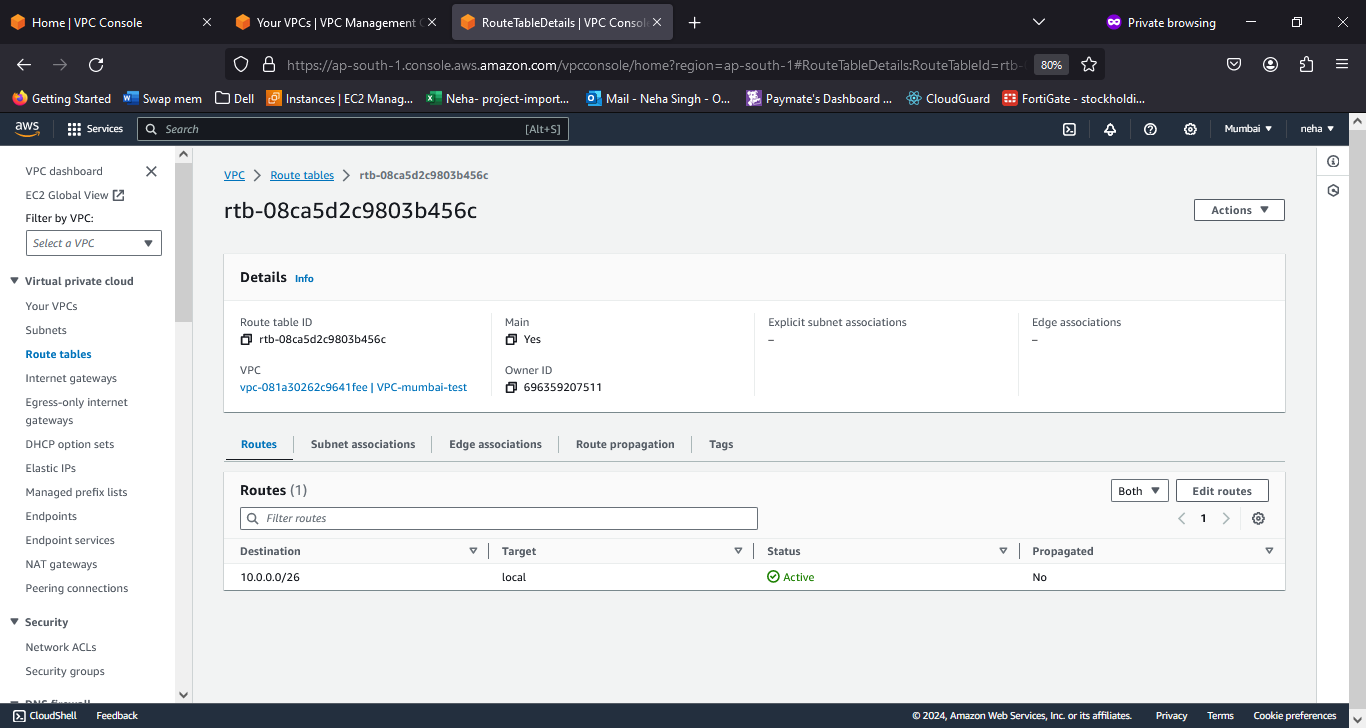
VPC creation

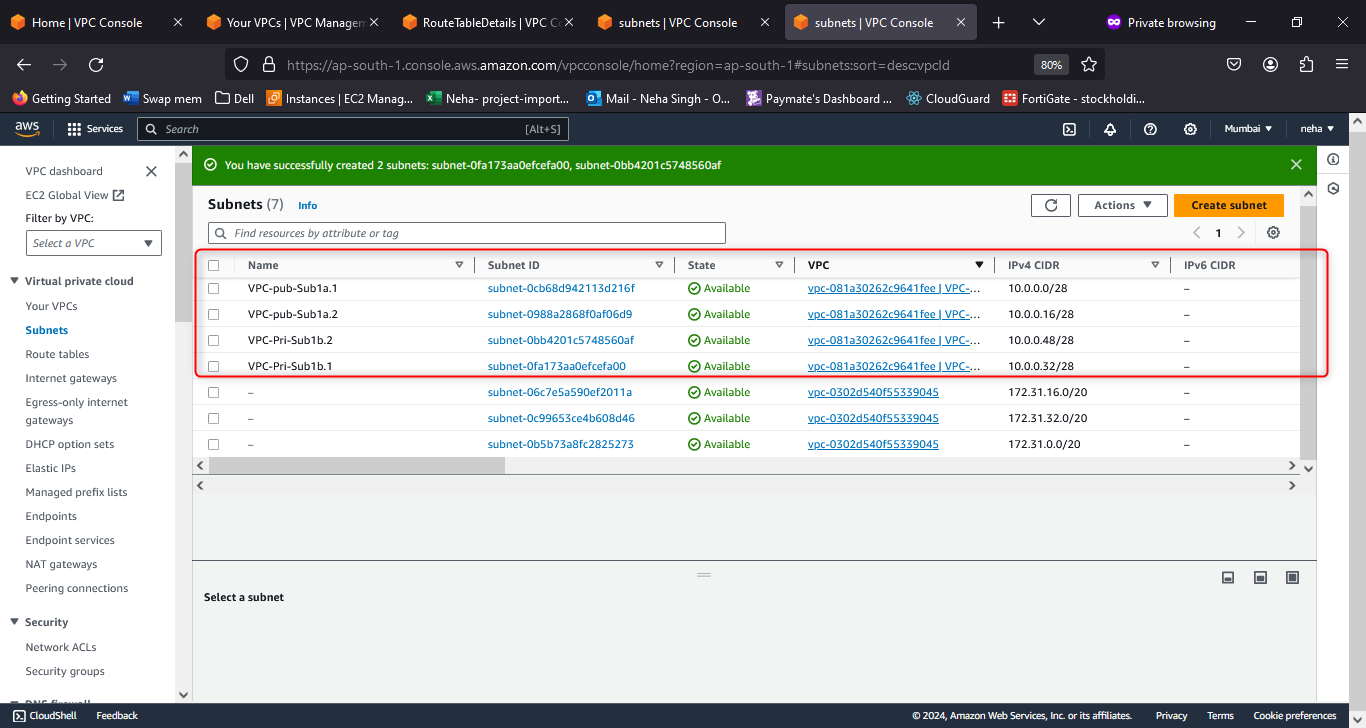
STEP1: Create VPC, with name and CIDR range

Note : If you select VPC and more option, then your VPC with subnets will get created in 2 AZ’s



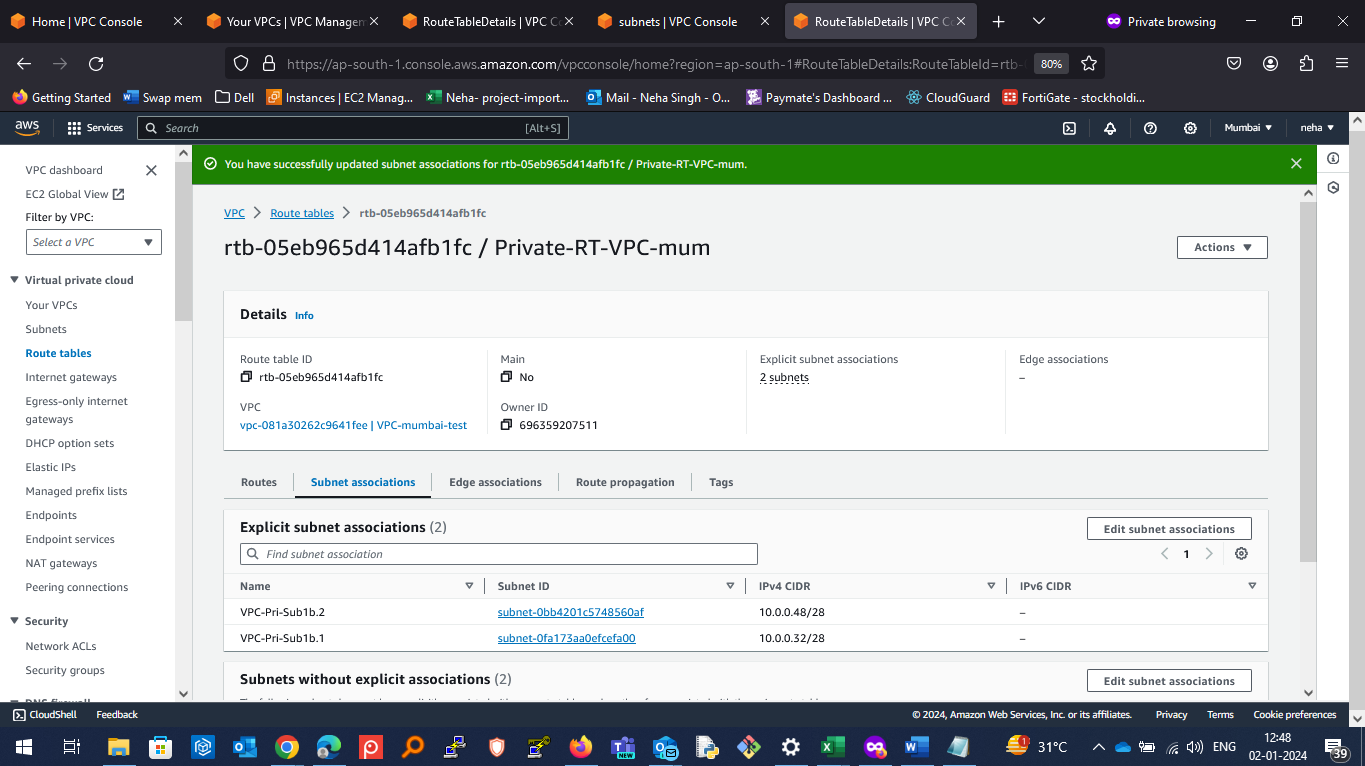
Route table gets automatically created



STEP2: Create Subnet (2 public subnet, 2 private subnet) total 4 subnet so 10.0.0.0/26 =64 Ips so 16 Ip each subnet. The CIDR for each subnet will be like 10.0.0.0/28, 10.0.0.16/28, 10.0.0.32/28, 10.0.0.48/28 ----- 32-28=4, 2^4= 16 Ip’s each

STEP3: Create a 2 Route tables each for Public and Private subnet (For Private subnet, we need Internet Gateway)

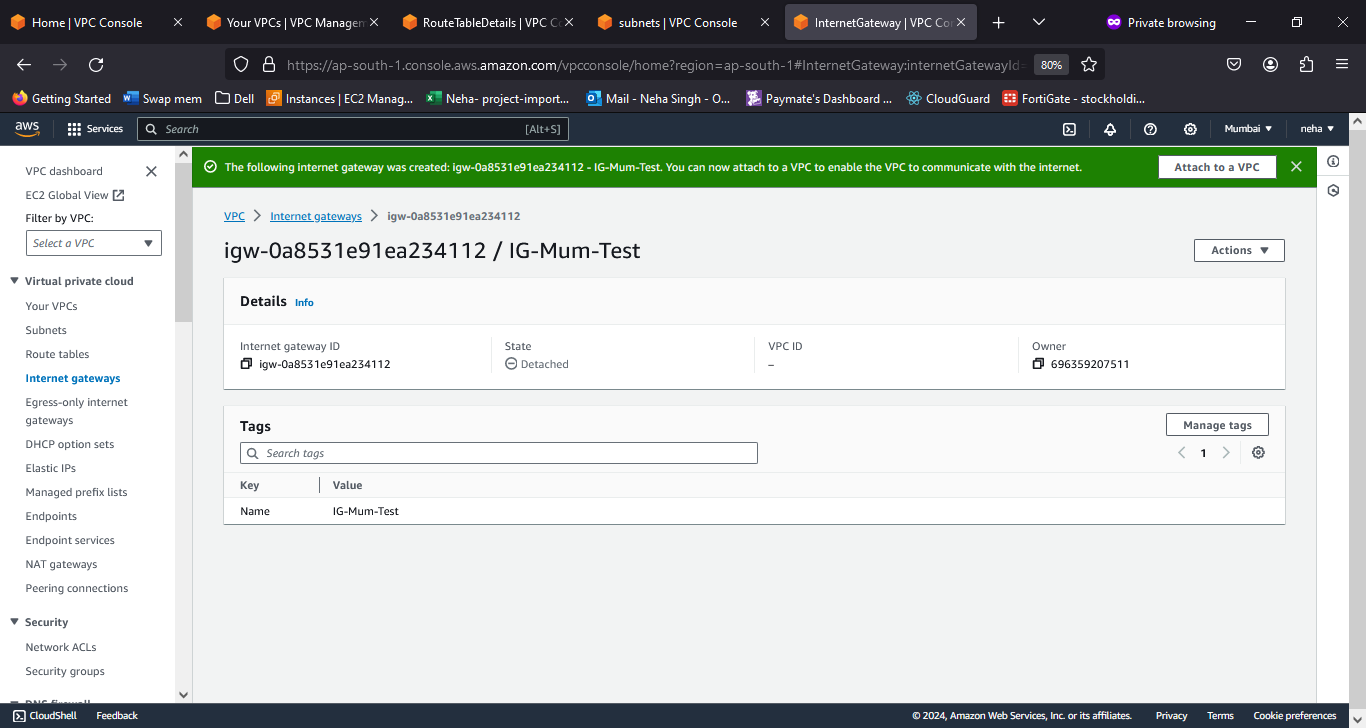
In My case I will create a separate route table for private subnets and I will associate only private subnets



Later I will associate my public subnets with Original route table

A screenshot of a computer

Description automatically generated

STEP4: Create Internet Gateway and attach it to Main or Public Route table

Attach the IG to Main Rout table – first attach it to the appropriate VPCA screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Not Add the IG to main Route table

A screenshot of a computer

Description automatically generated

STEP5: Create NAT gateway to give internet access to private subnet

We need to create the NAT gateway in same AZ where the Public Subnet is created.

A screenshot of a computer

Description automatically generated

Next we need to add the NAT gateway to Private Subnet’s Route table.

A screenshot of a computer

Description automatically generated

Create Instance in the VPC and attach the SG and Subnet accordingly.