Assignment 1

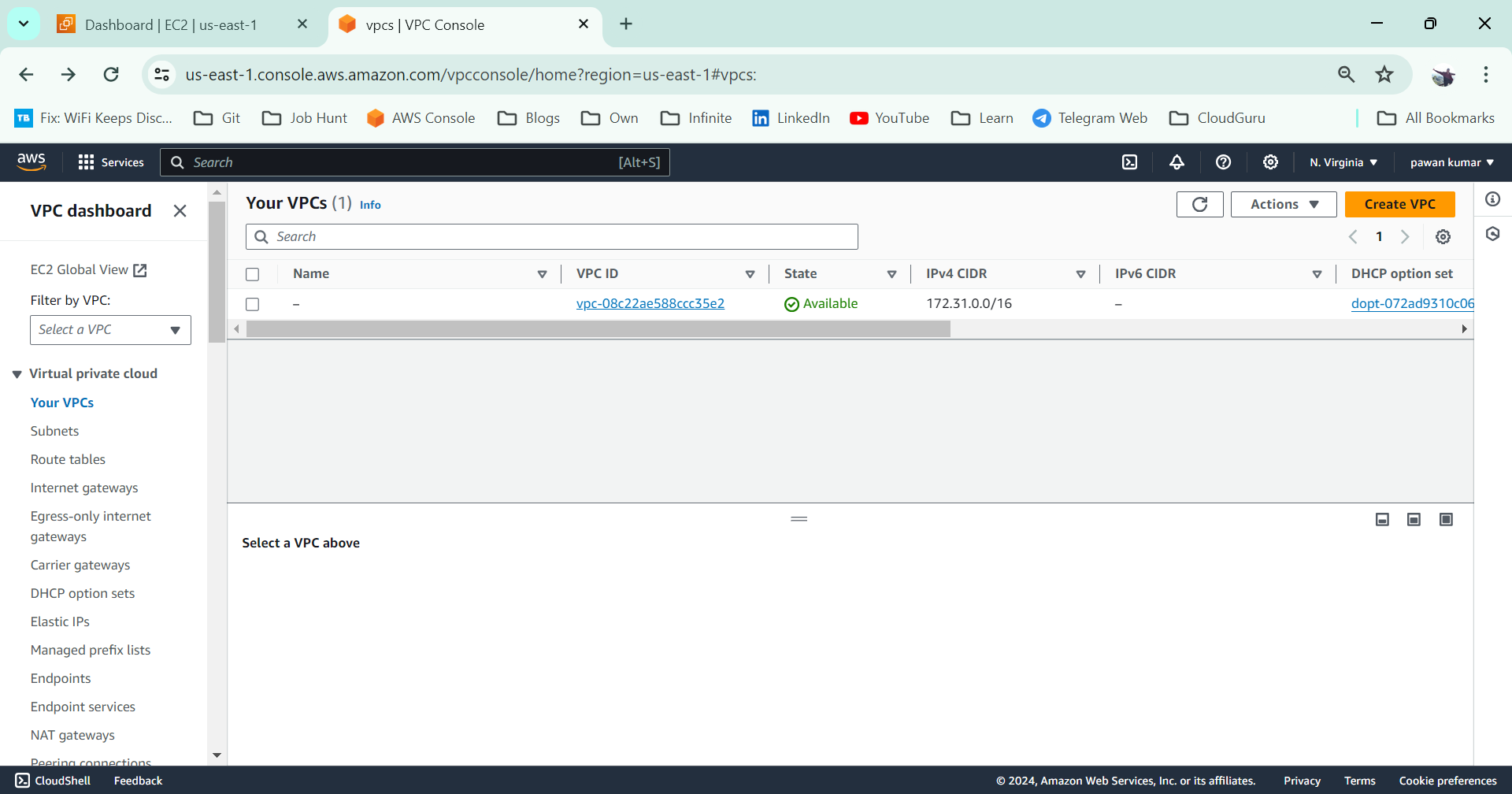
* **Create VPC with 2 subnets and launch 2 instances to check the communication between two Instances.**

Diagram

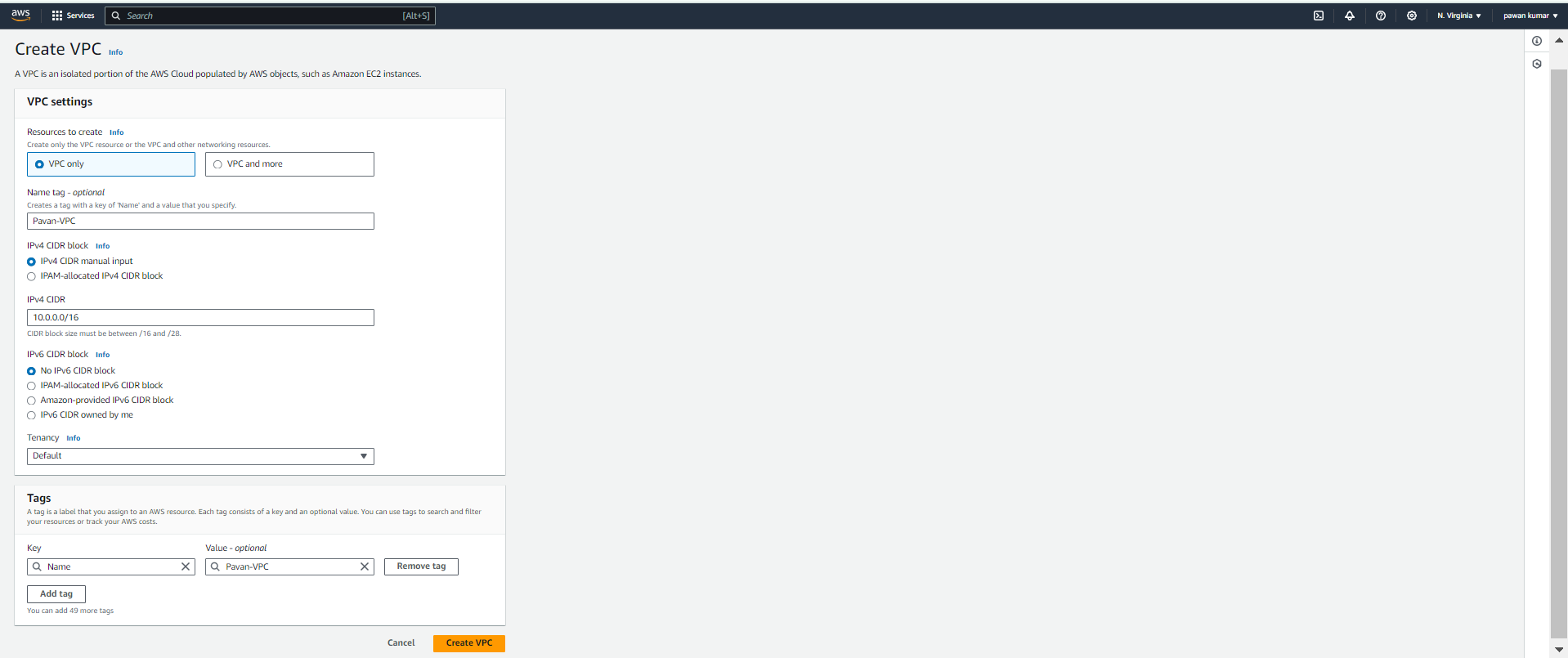
Description automatically generated

VPC

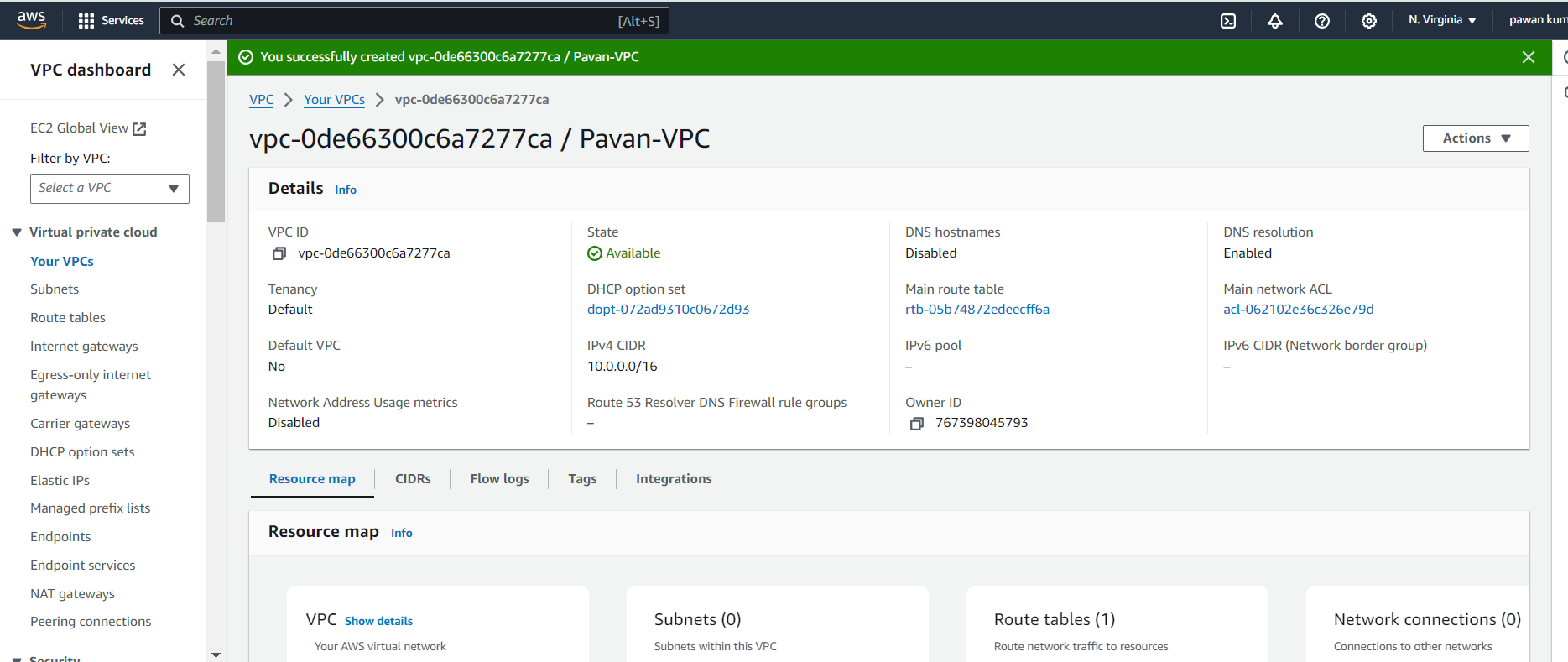
Navigate to VPC



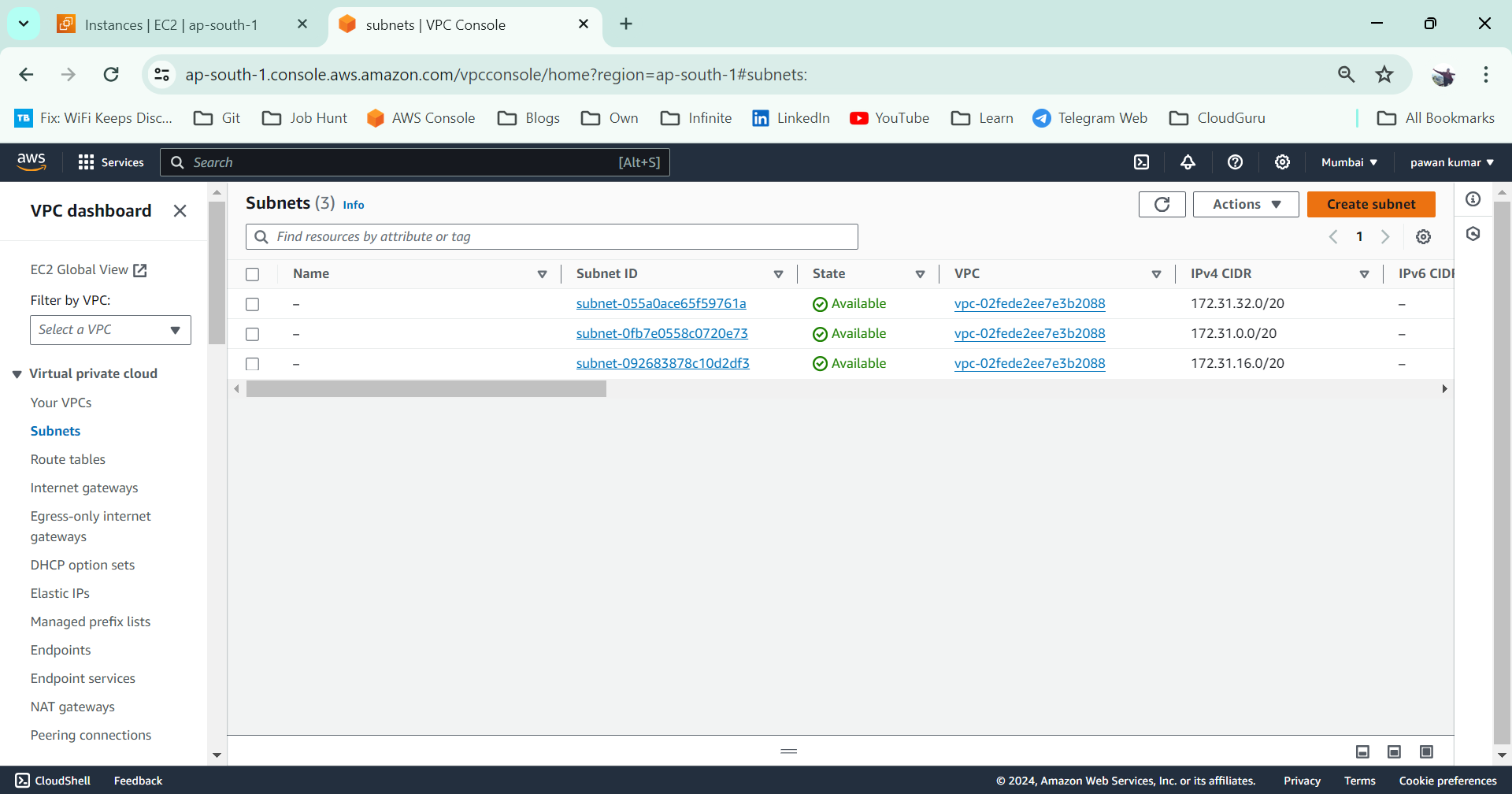
VPC creation



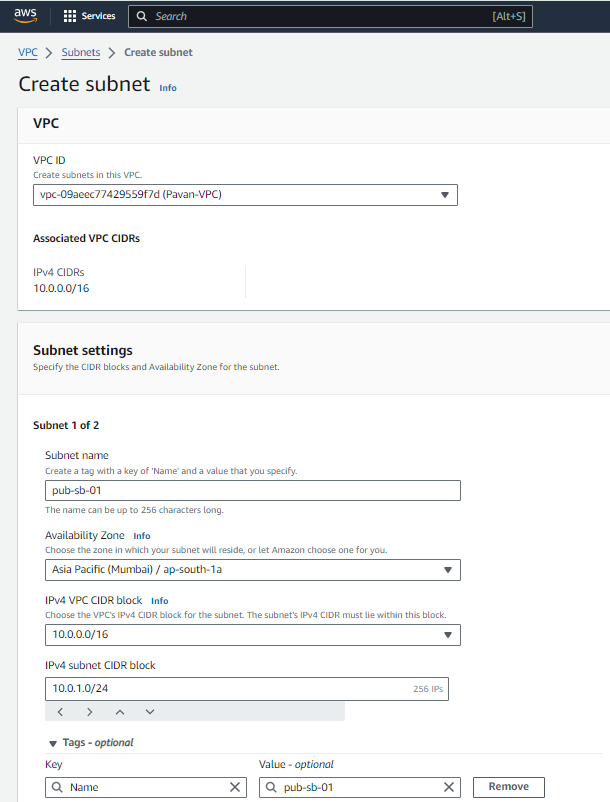
VPC got created

****

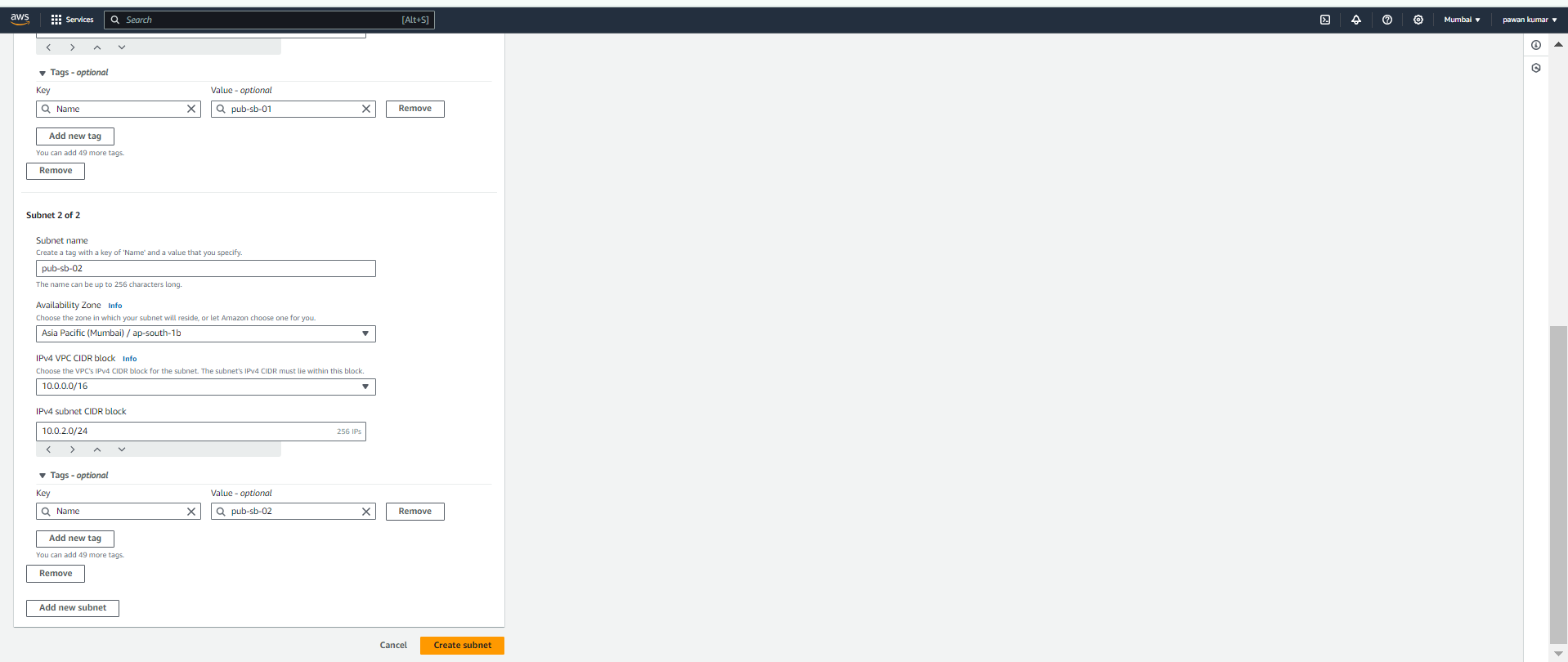
**Navigate to subnets & then click on Create Subnets**

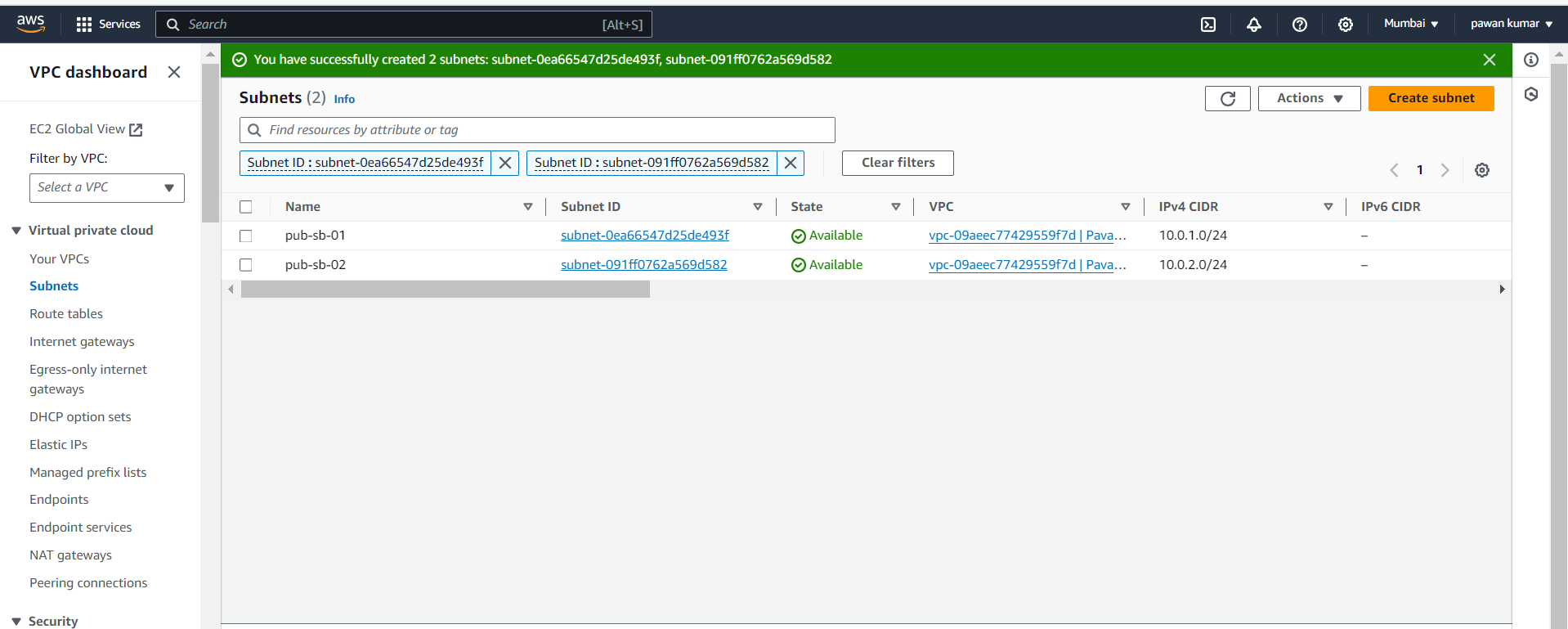


**Create Subnet within our custom VPC**

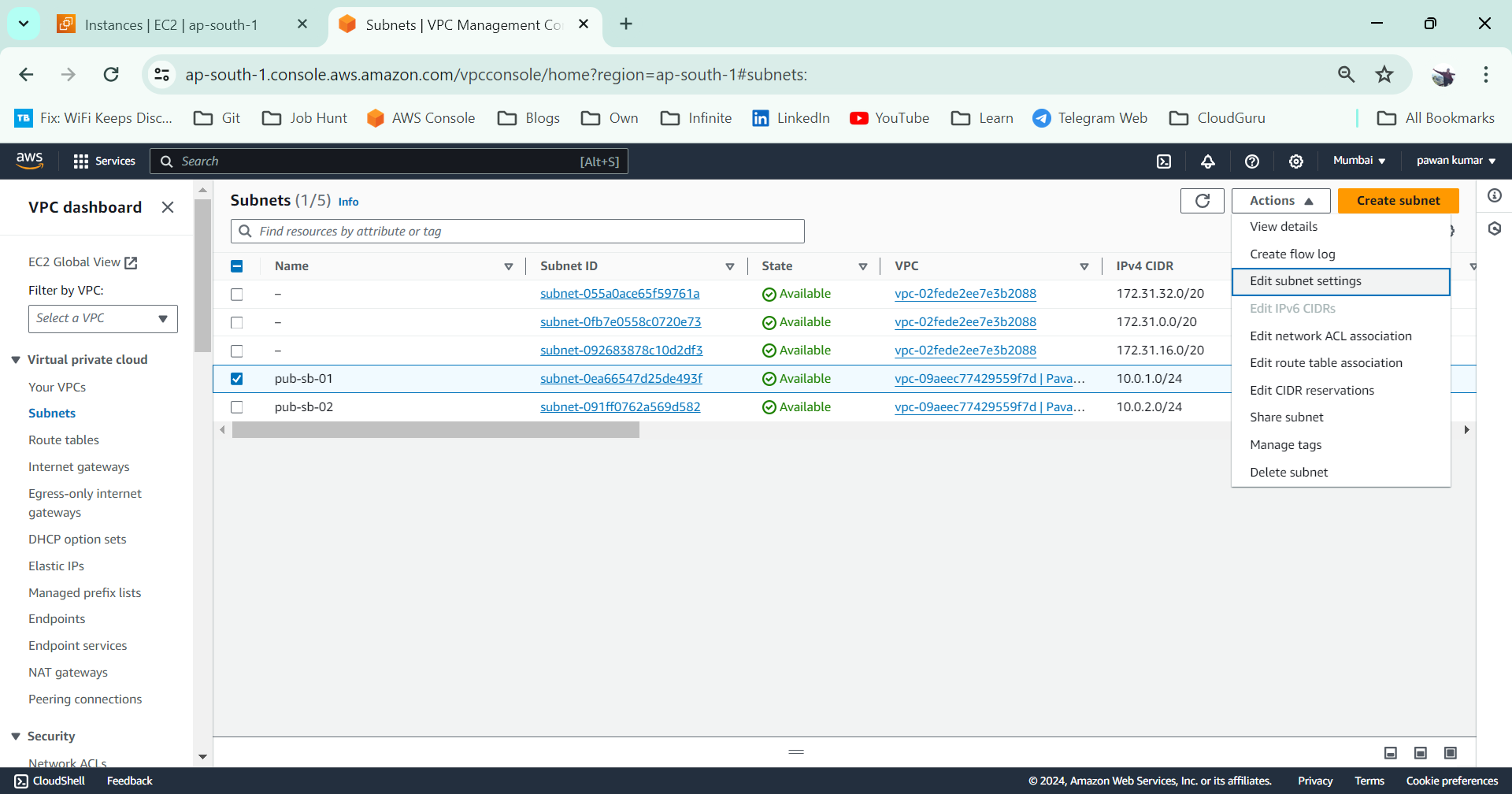
****

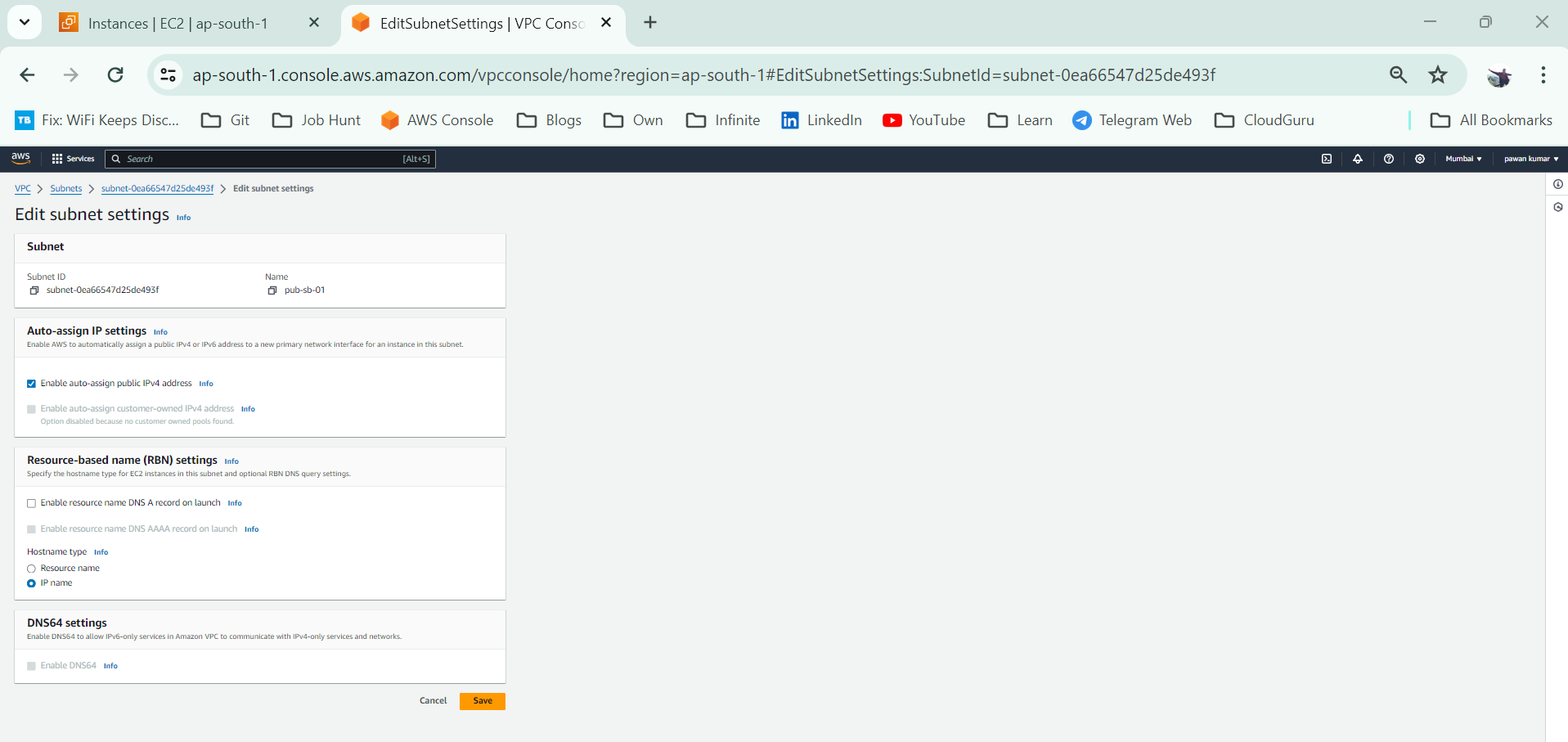
**Sb-02**

****

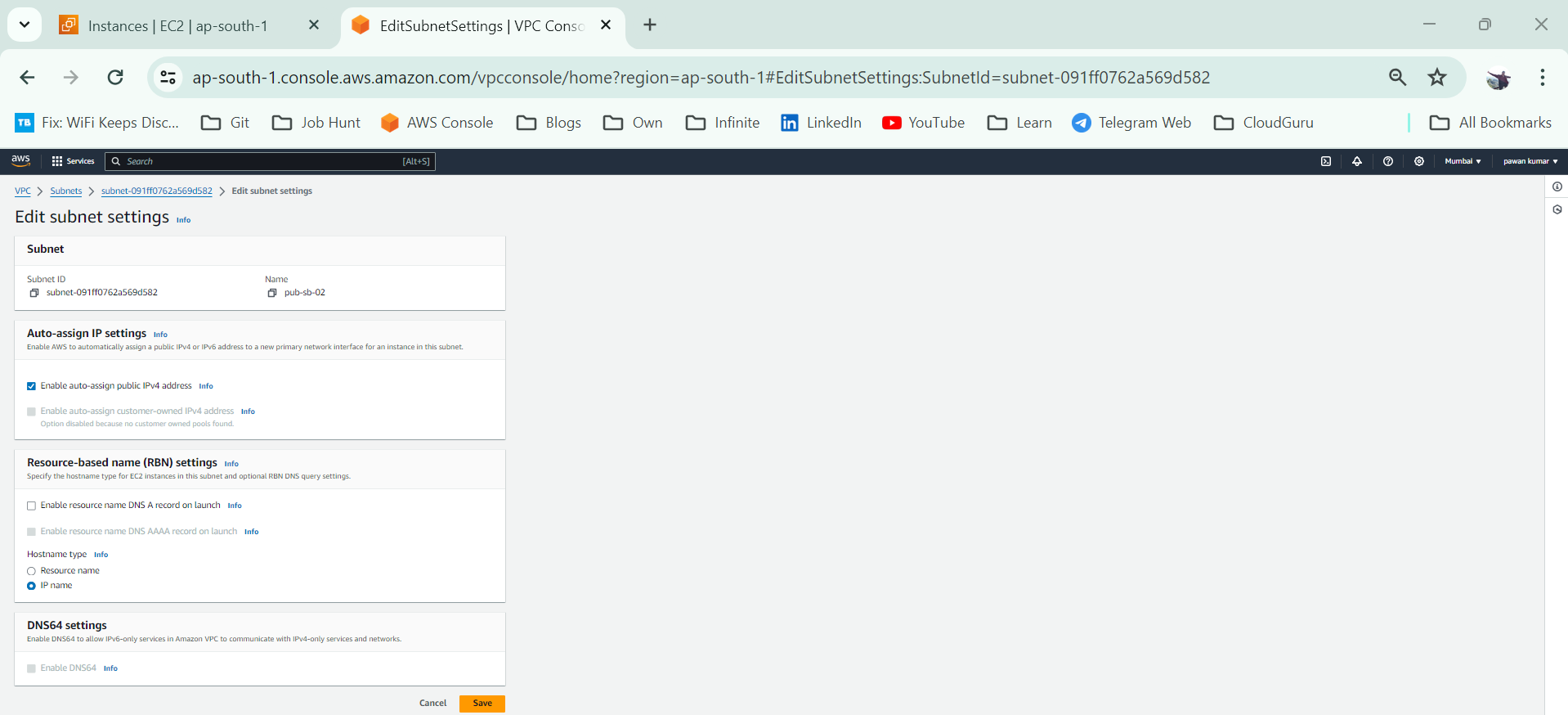
****

**Select Sb 🡪 Actions 🡪 Edit sb settings**

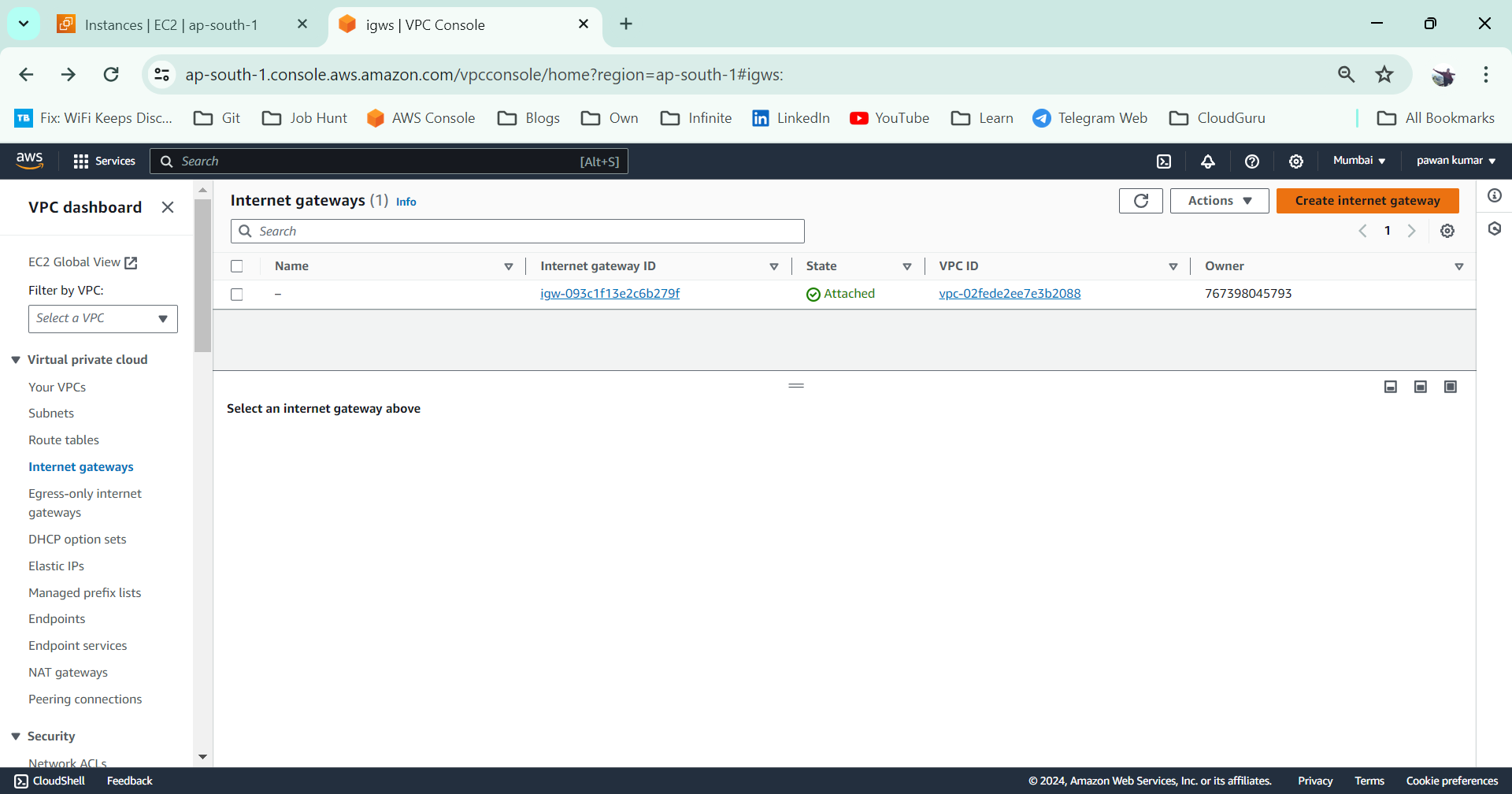


****

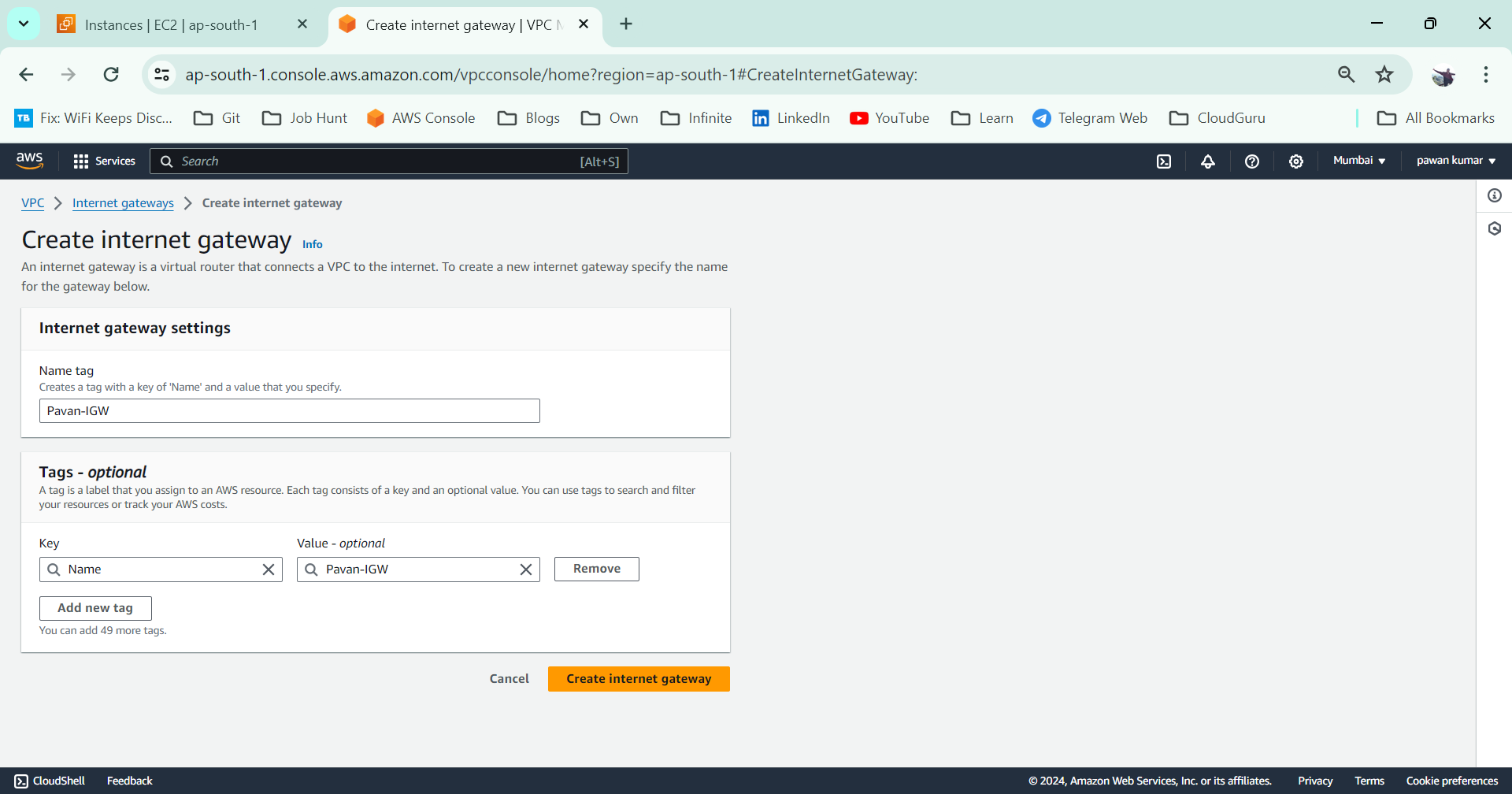
**Repeat same step for sb-02 as well**

****

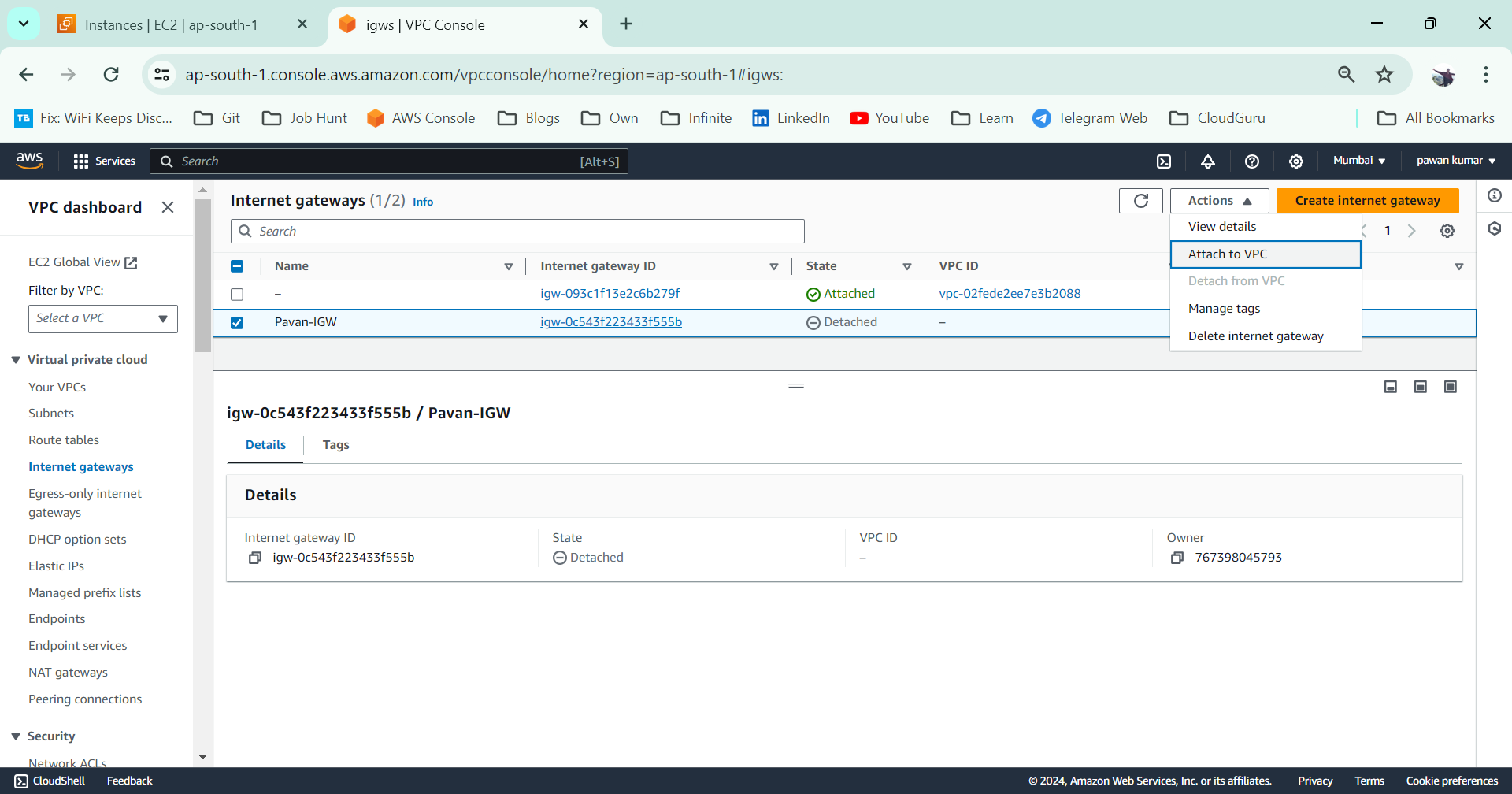
**Navigate to IGW**



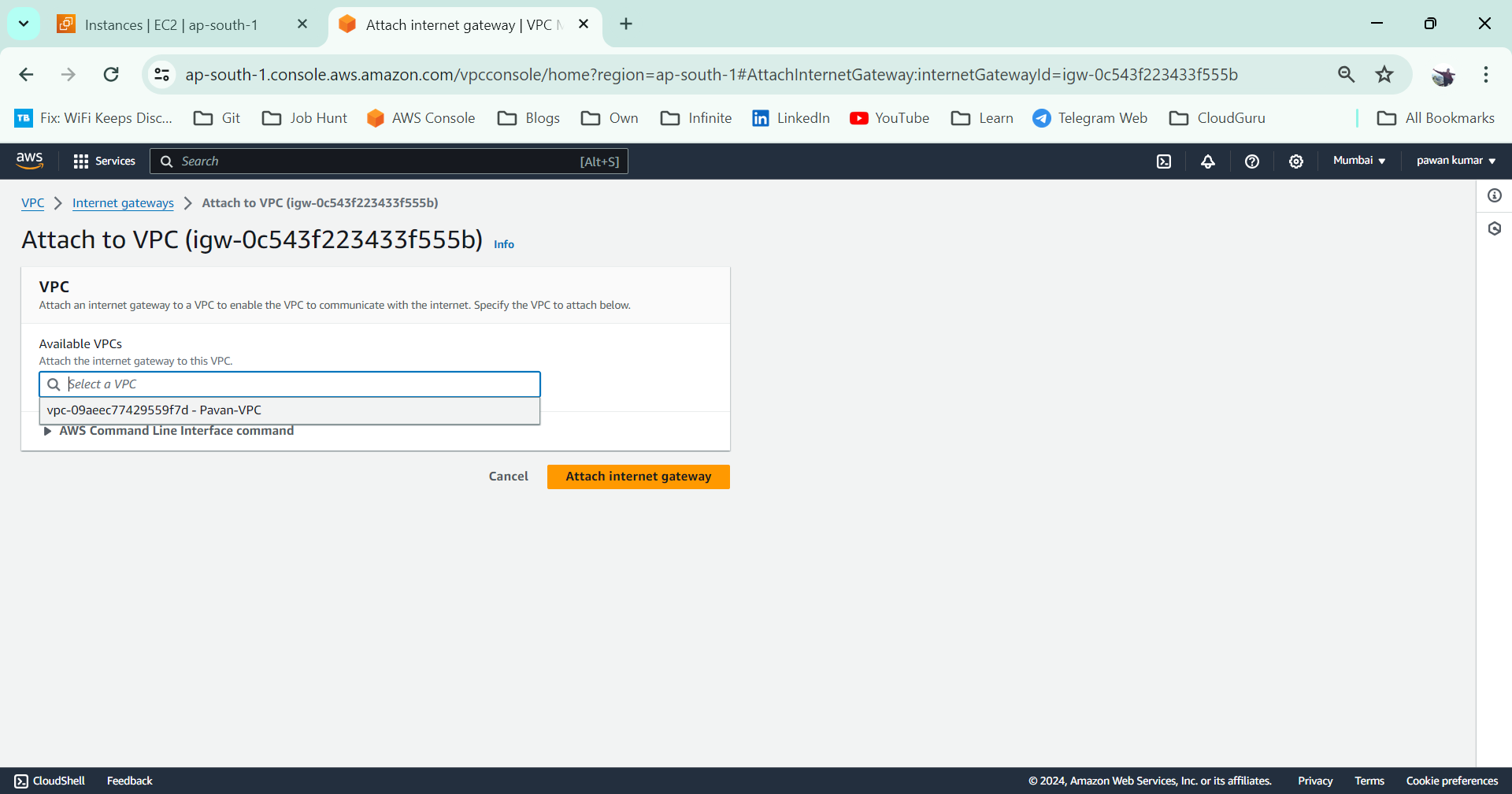
**IGW01**



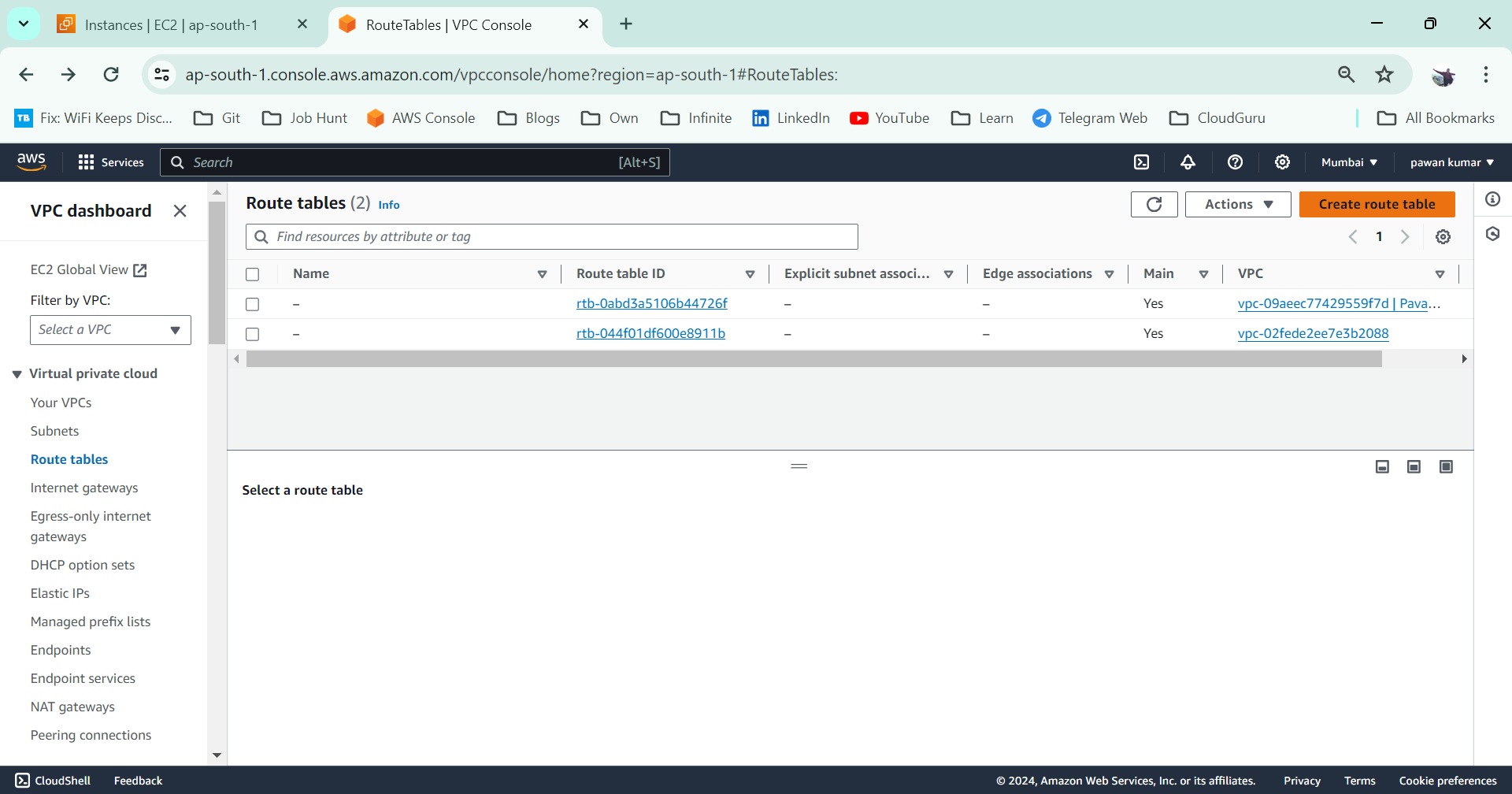
**Select IGW & Actions 🡪 Attach to VPC**



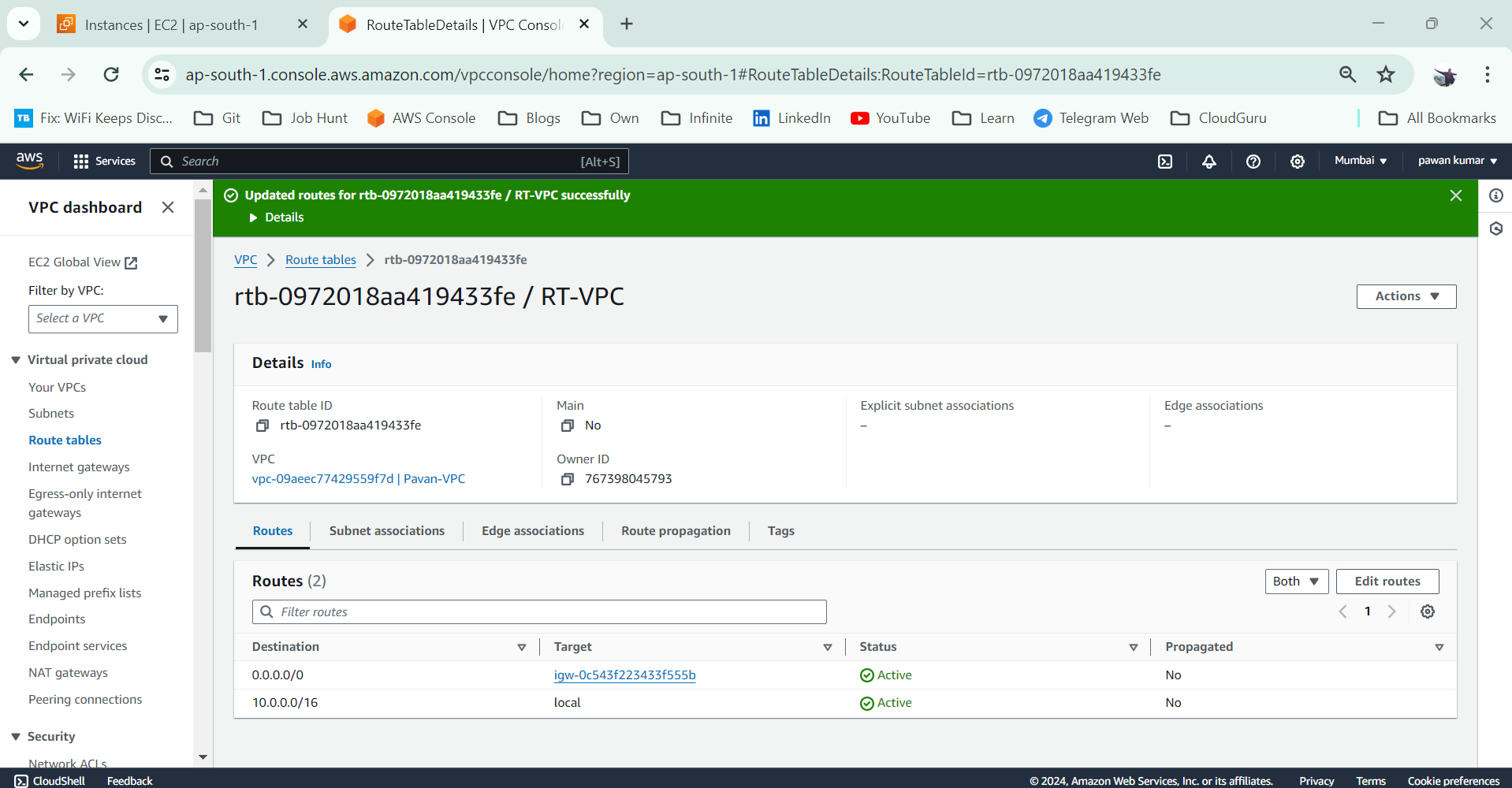
**Choose Custom VPC created & then click on Attach Internet Gateway**



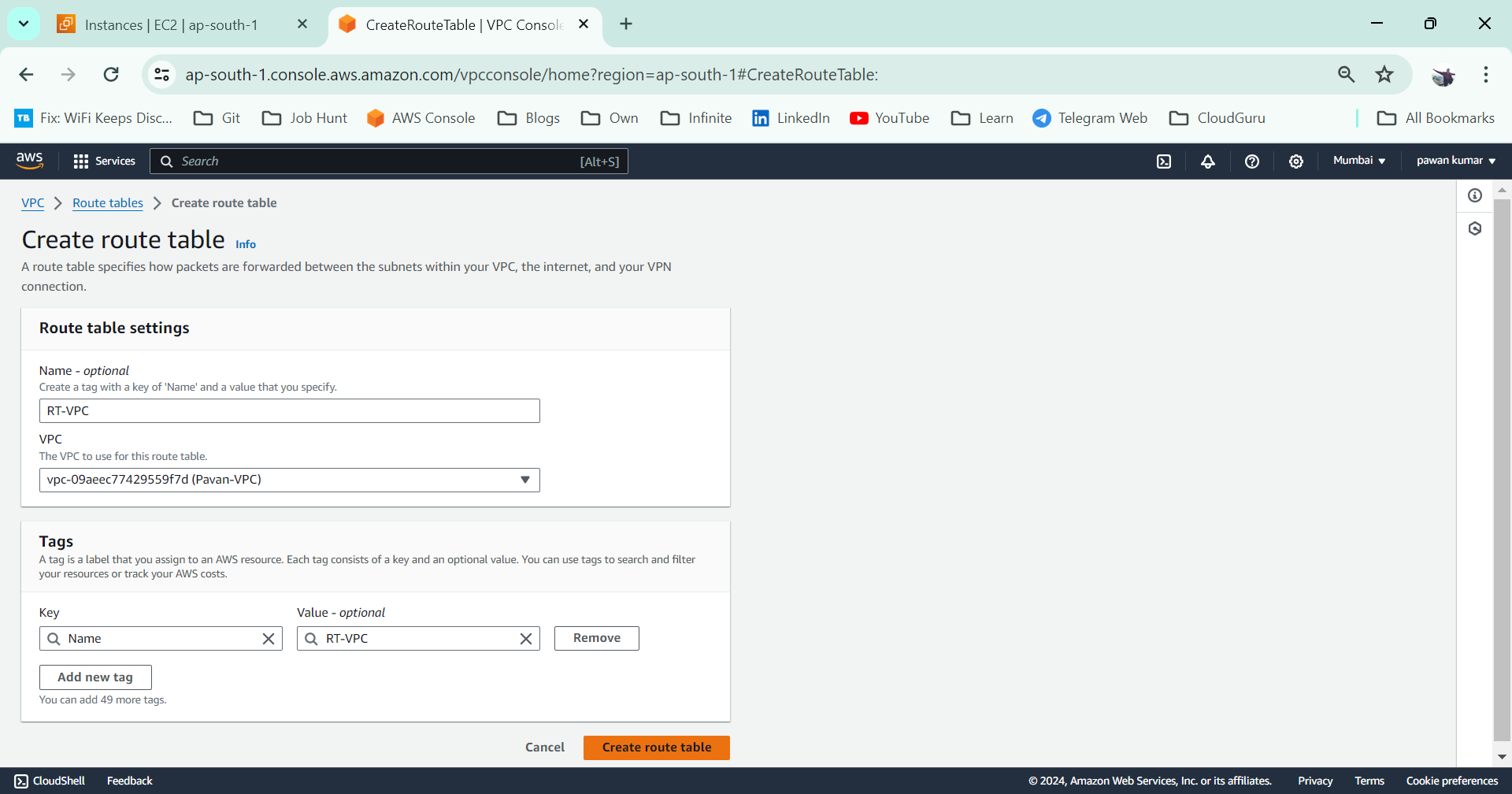
**Navigate to RT**

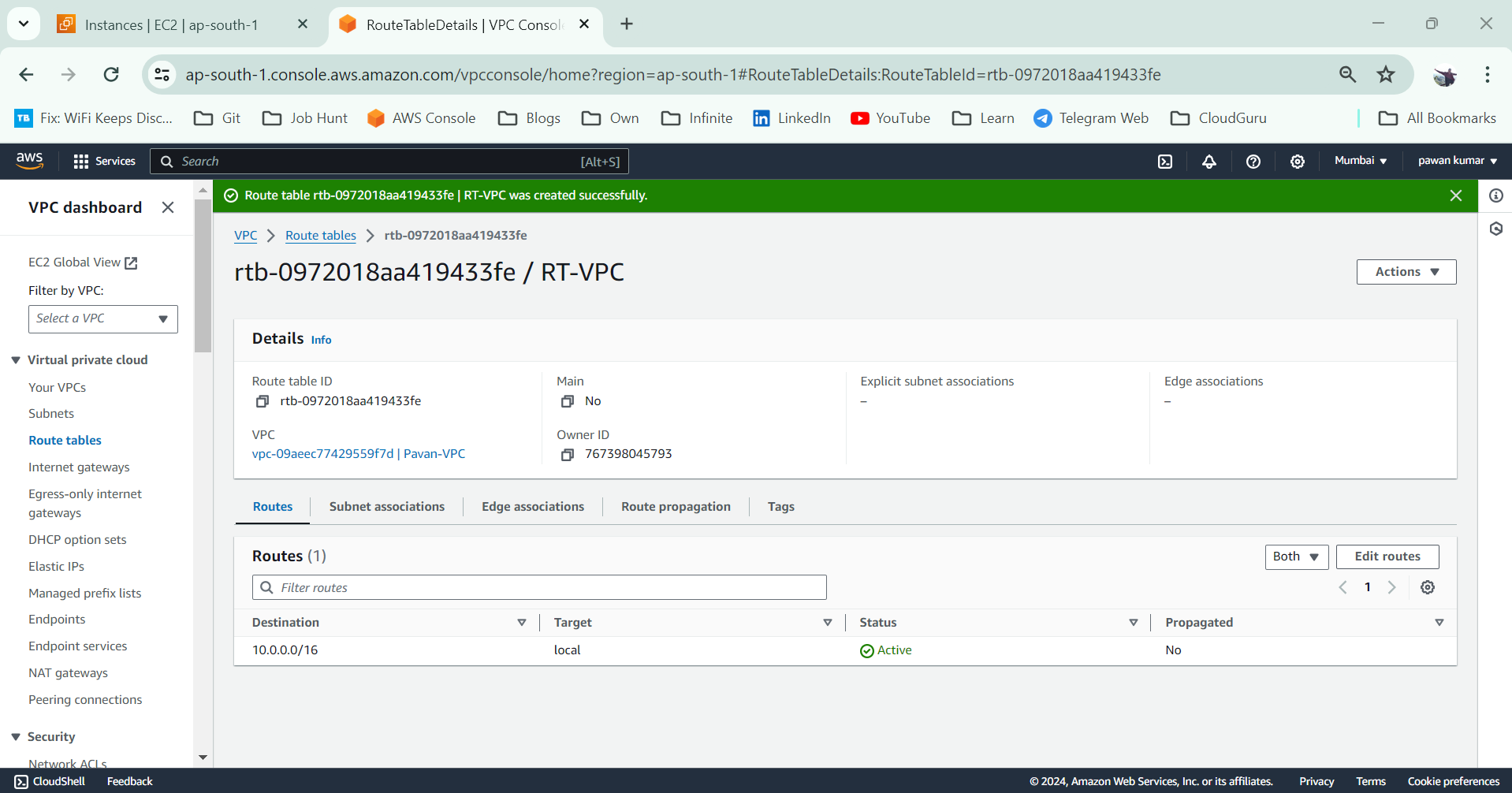


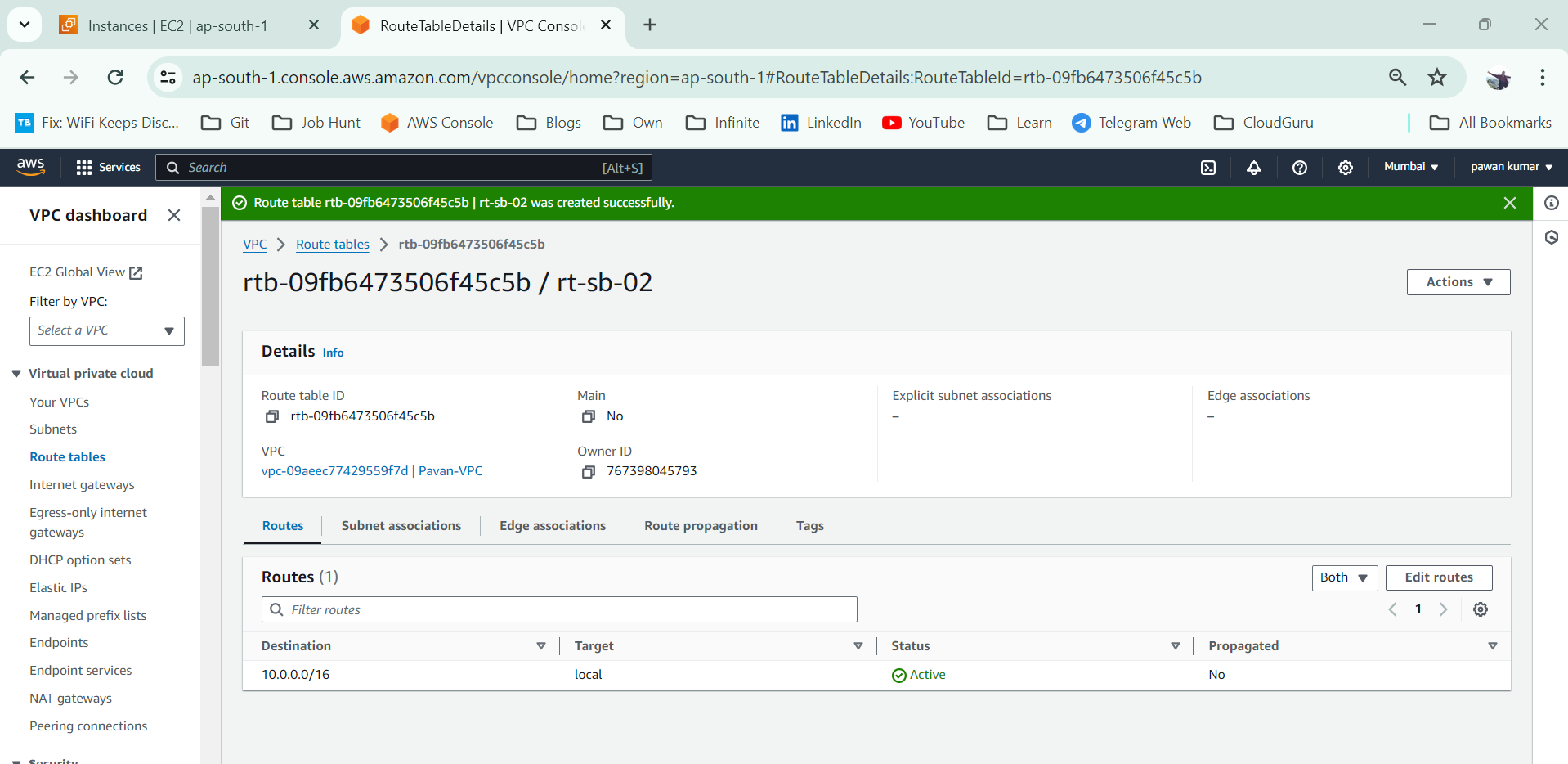
**IGW is created**

****

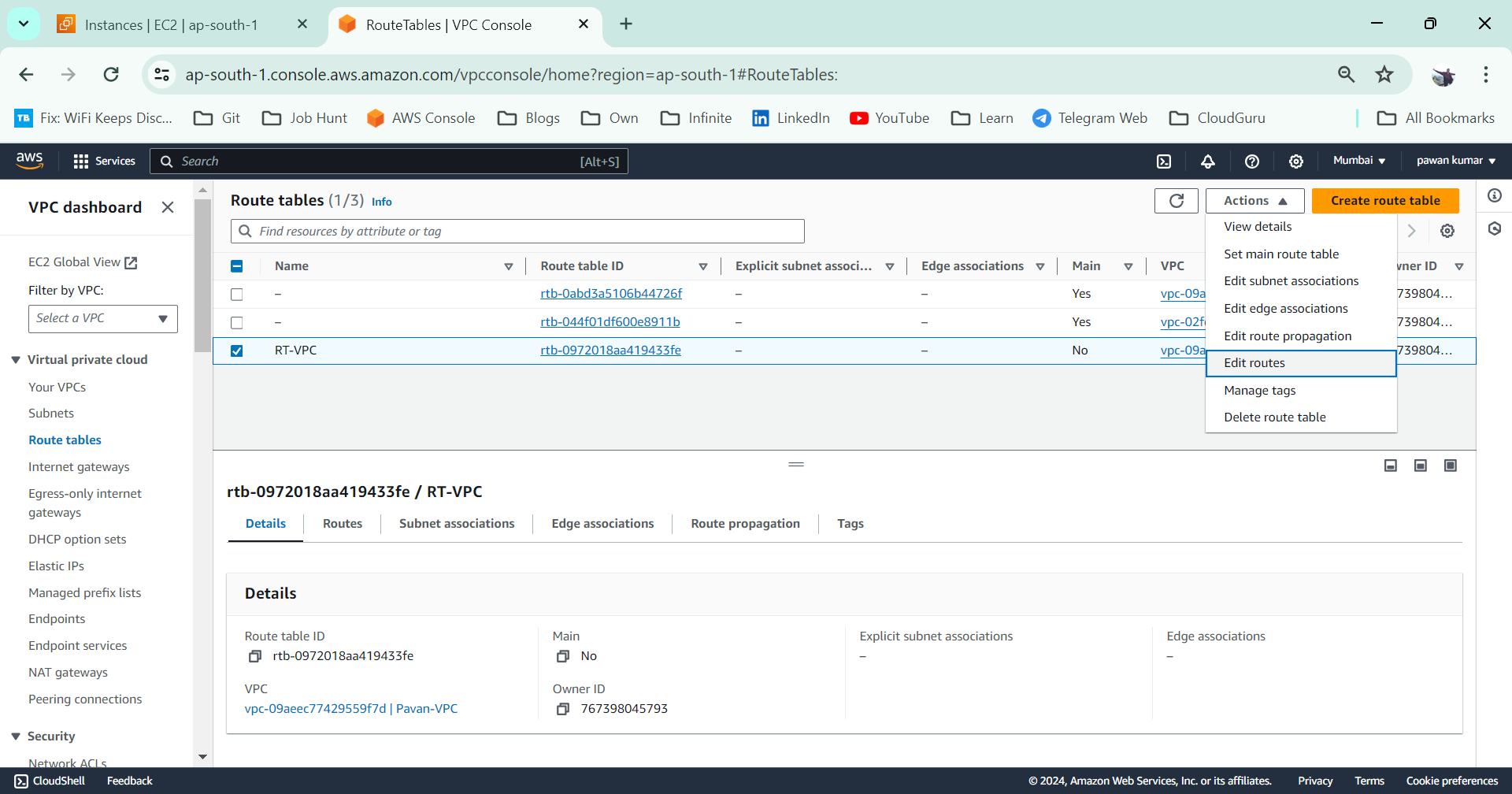
**Navigate to Route Table & then create Route Table**



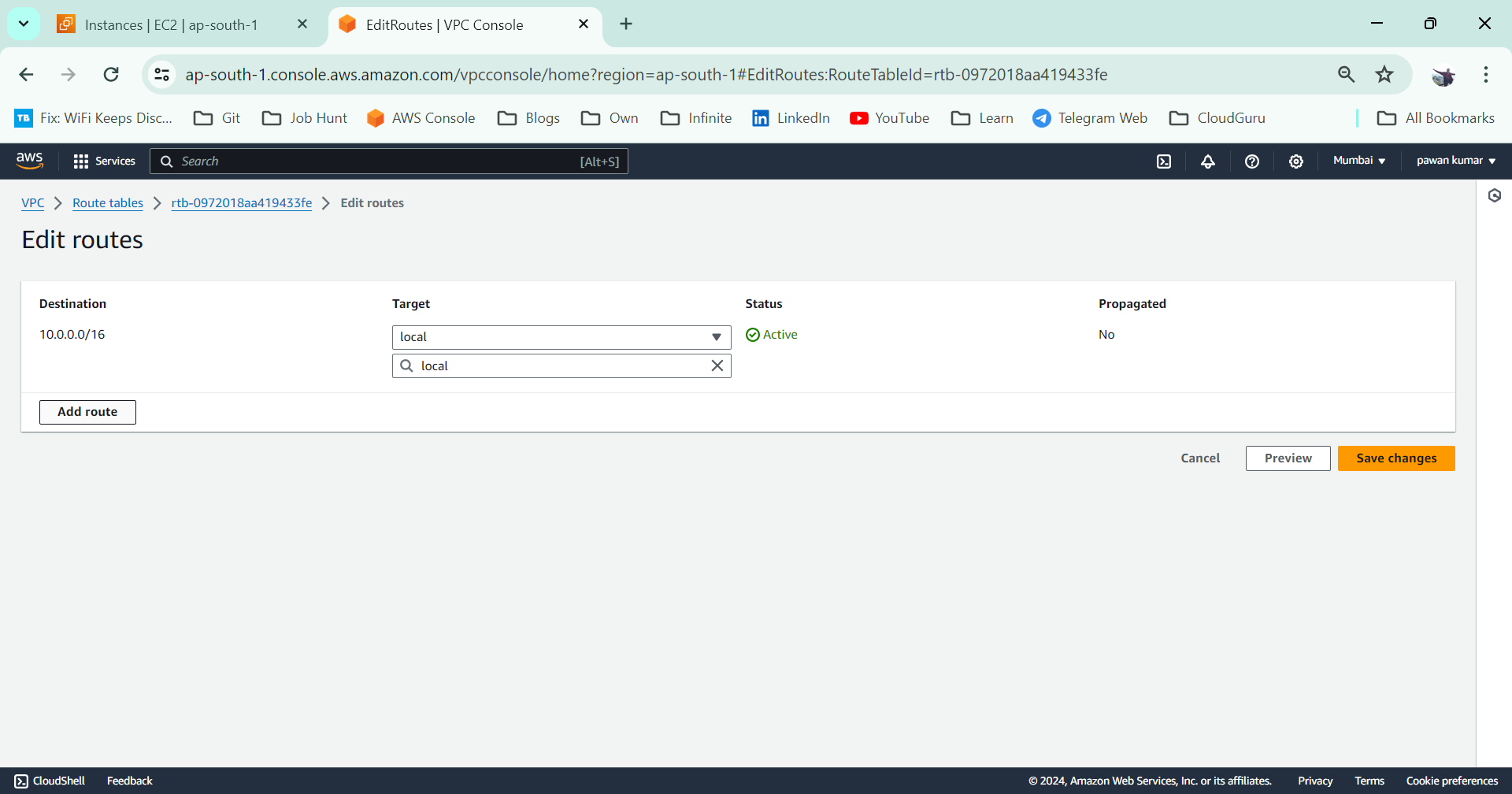
****

****

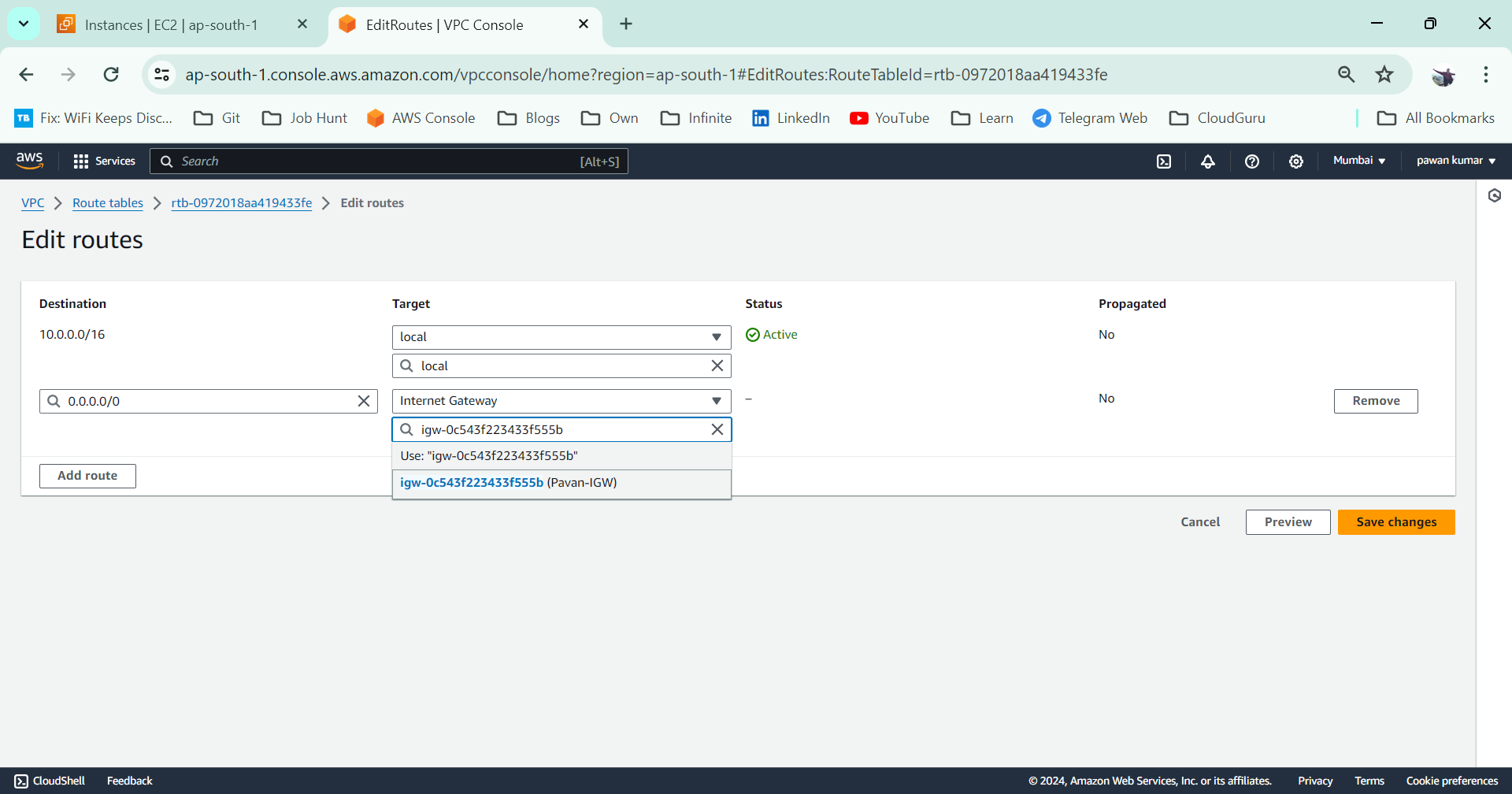
**Actions 🡪 Edit RT**



Click on Add New Route

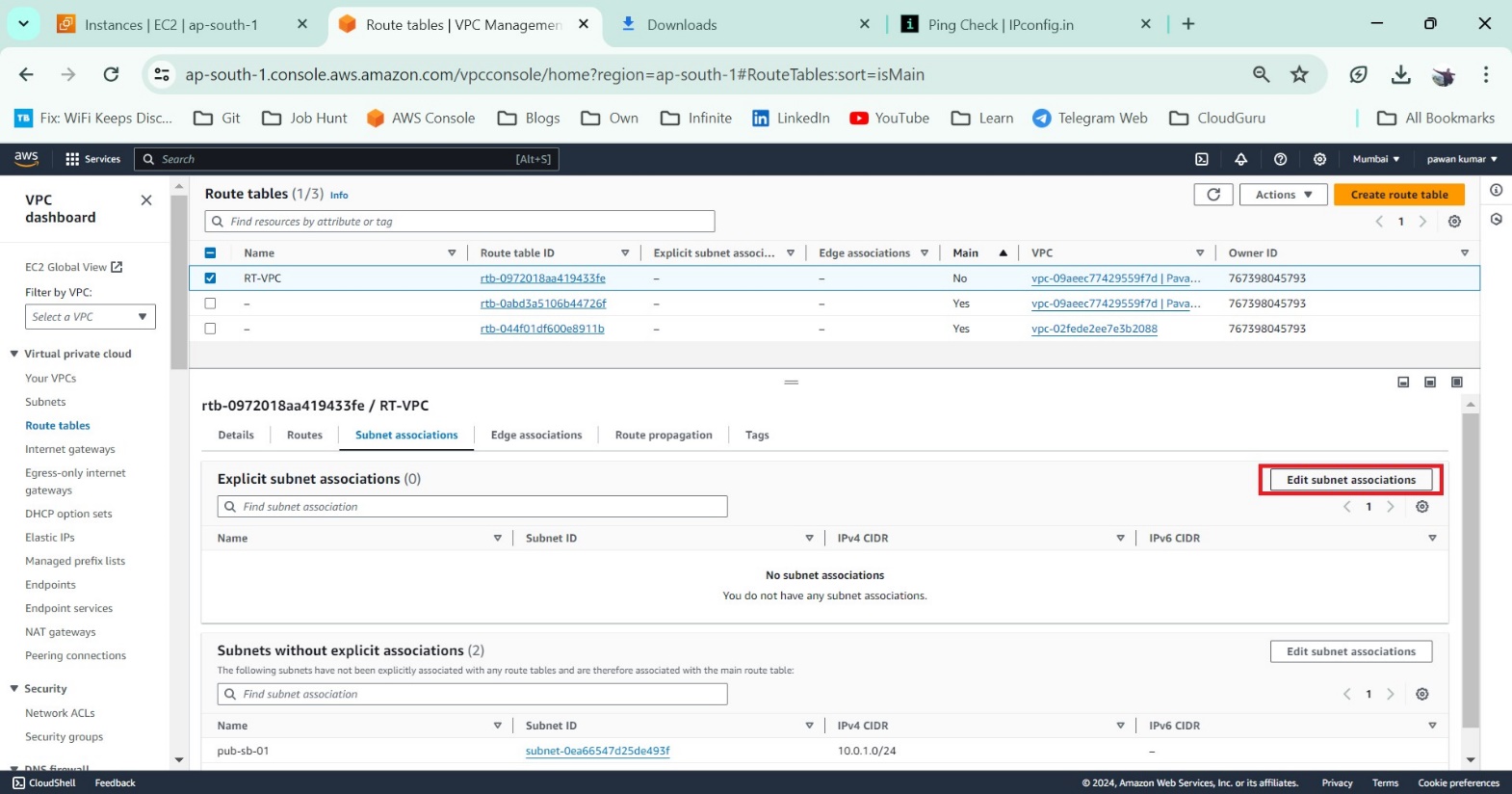


**Then choose 0.0.0.0/0 address & select IGW**

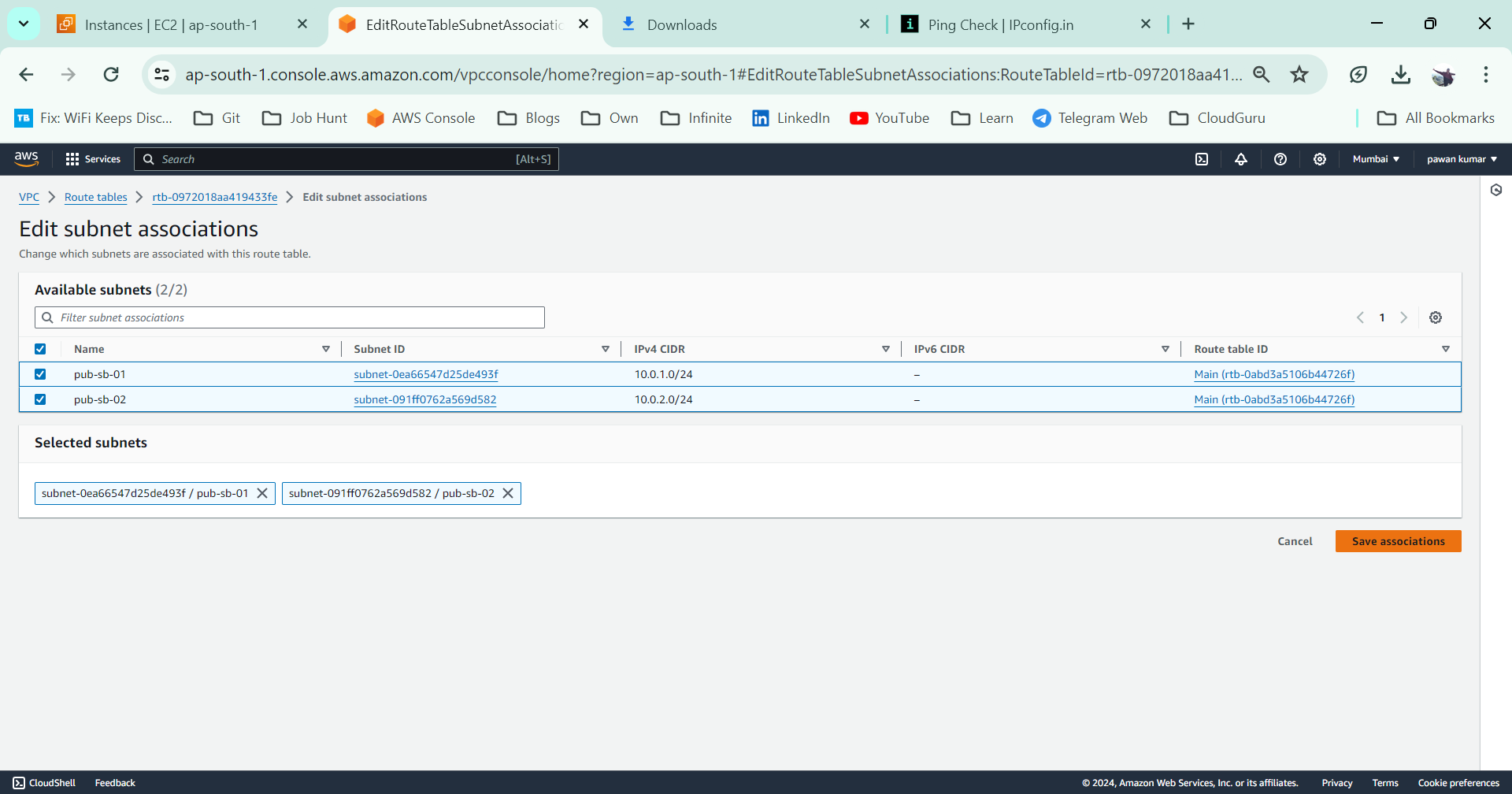


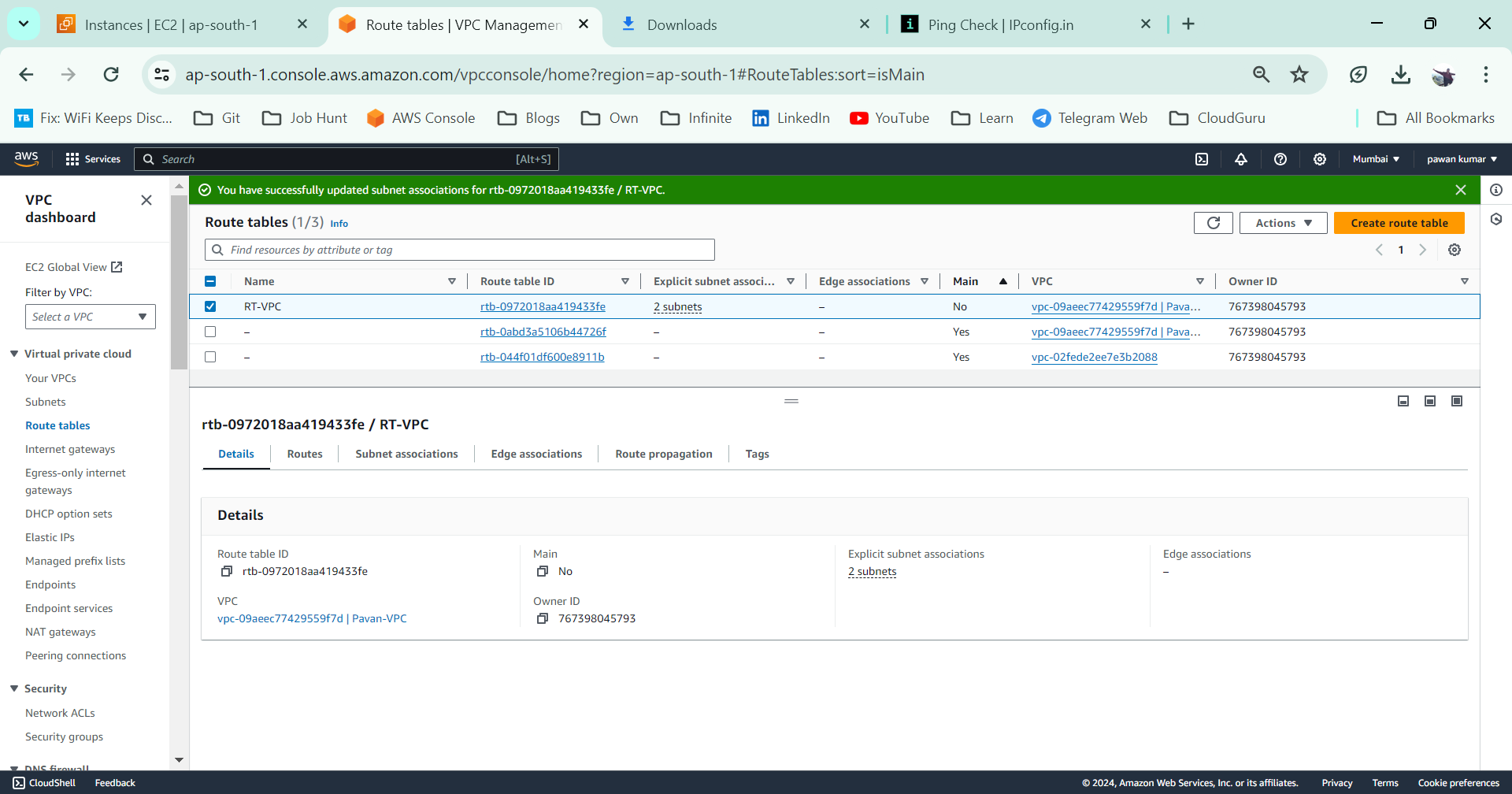
**Select RT & then click on Subnet Associations as shown in figure**

**Note: Choose only Explicit subnet Association otherwise we can’t access the instances**

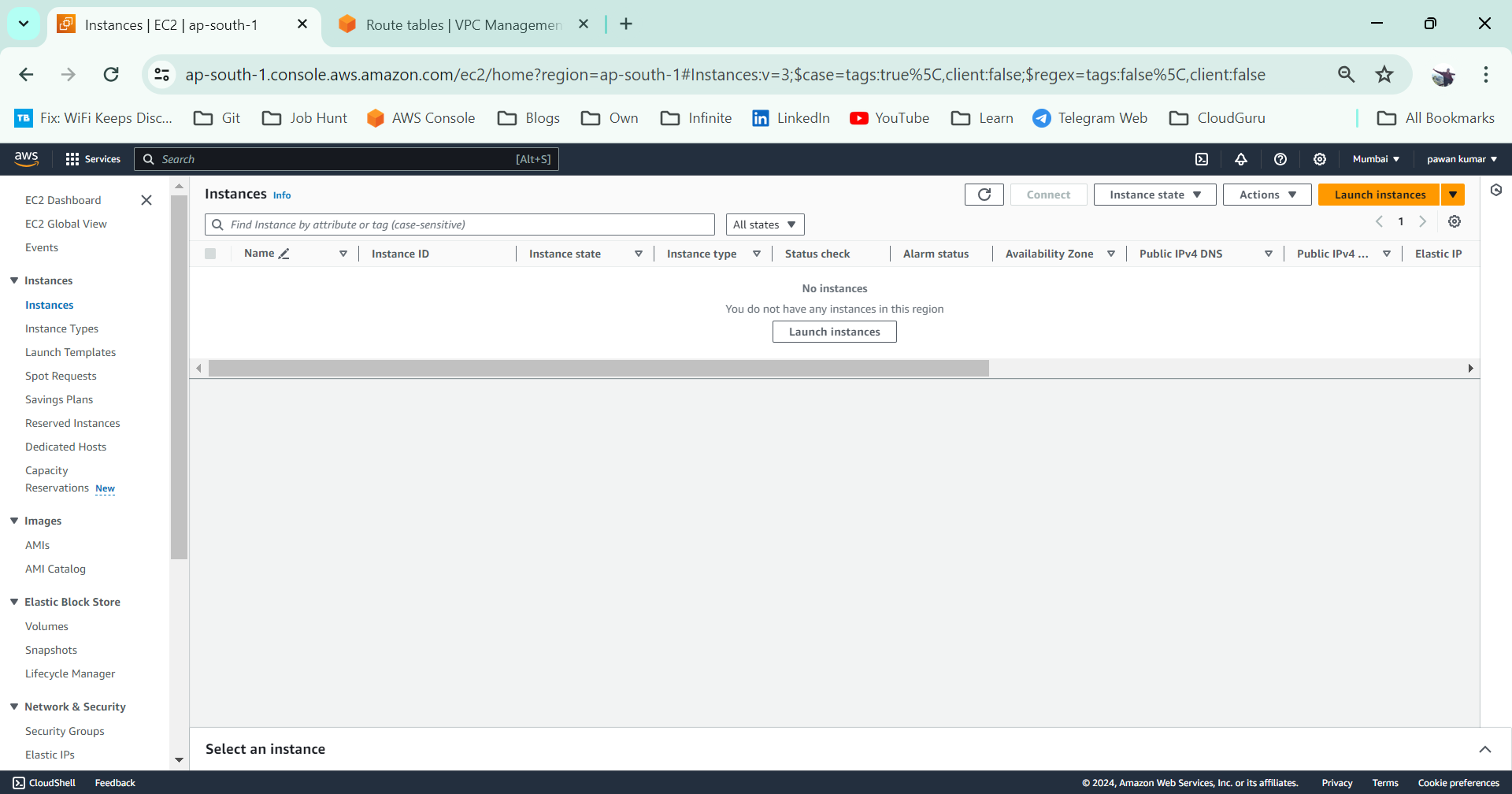


**Select two subnets & then save**





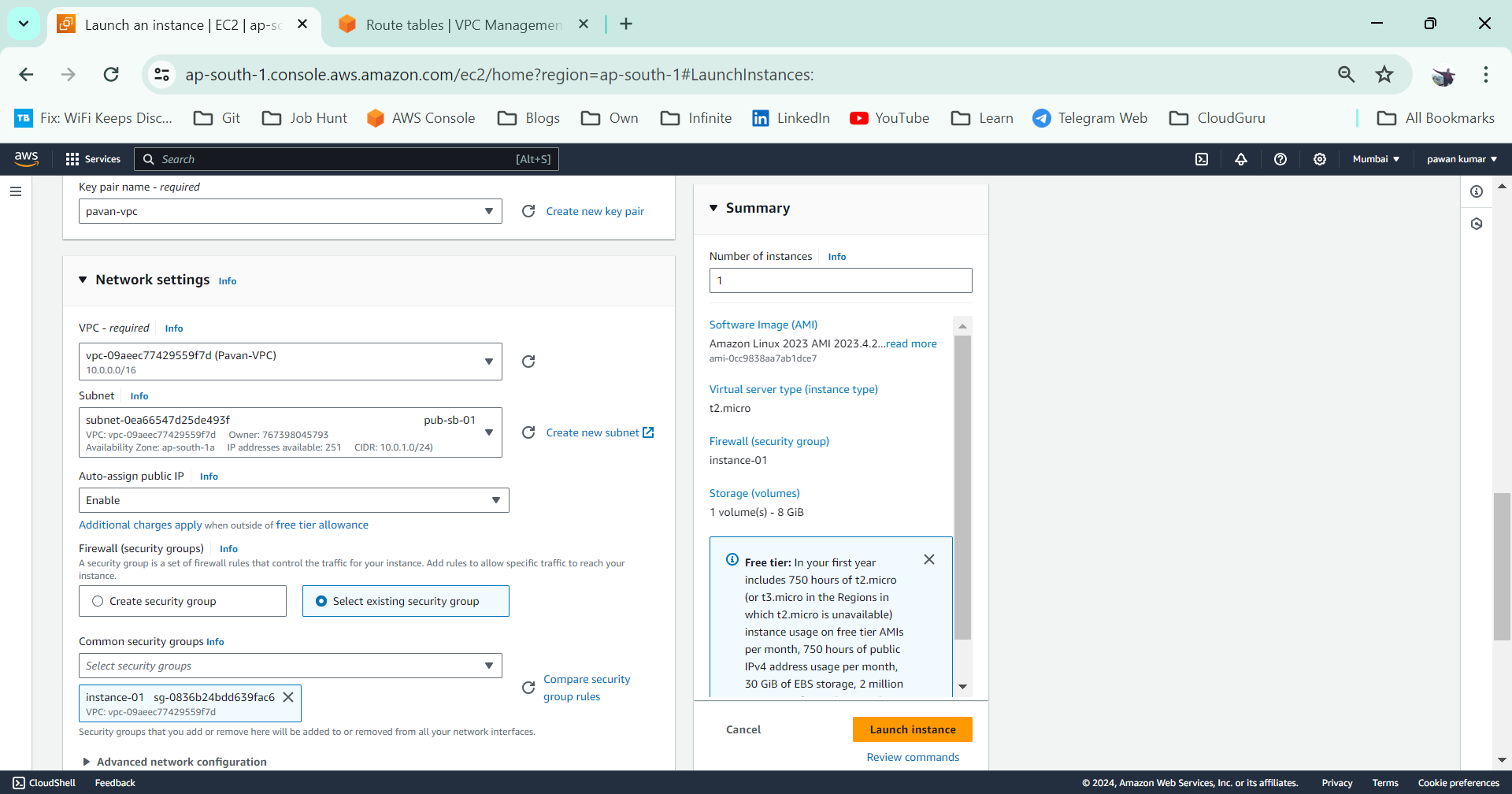
**Launch Instance-01 in subnet-01**



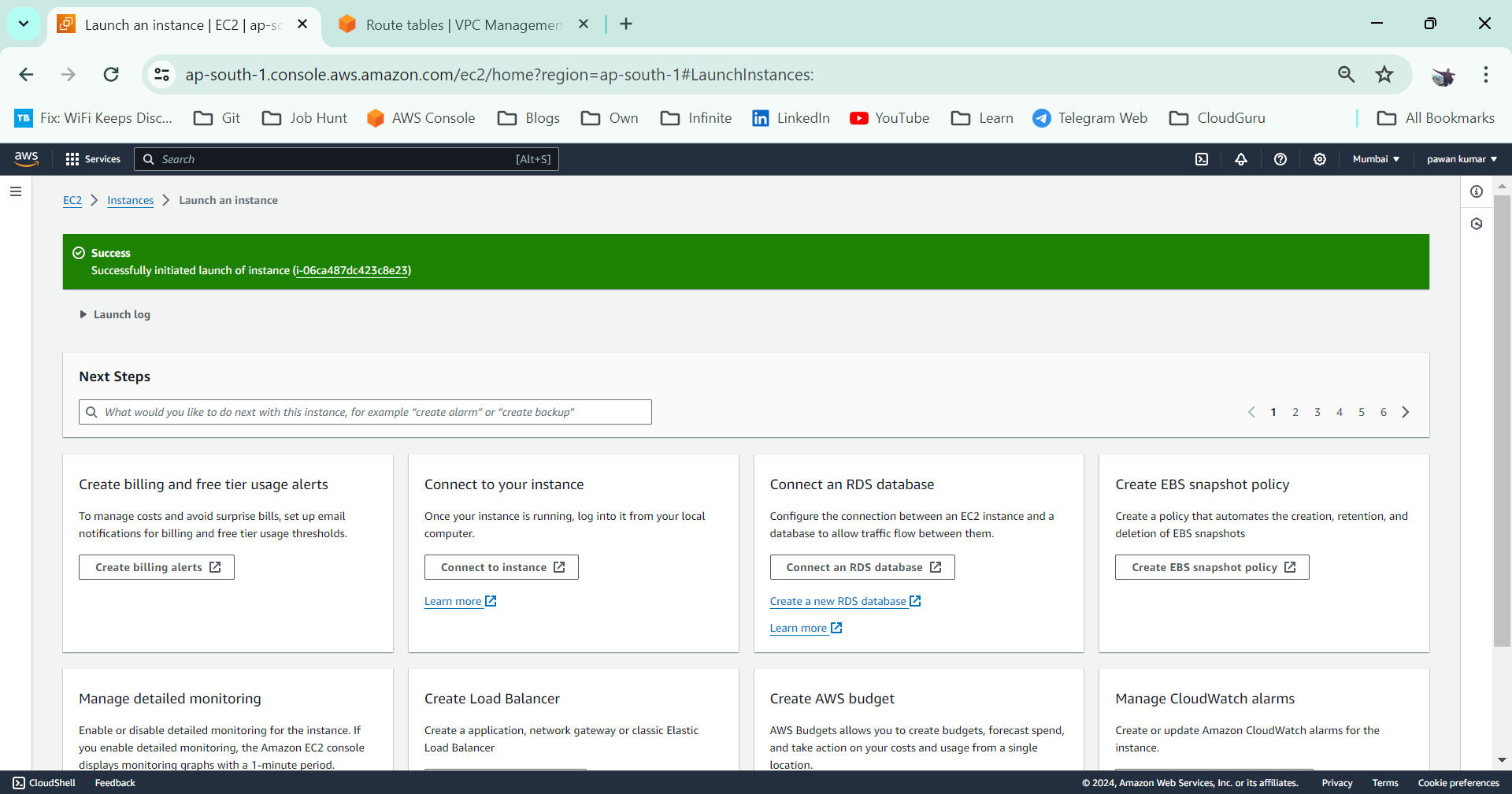
**SG settings🡪**

**SSH(22) for My IP 🡪 IP/32**

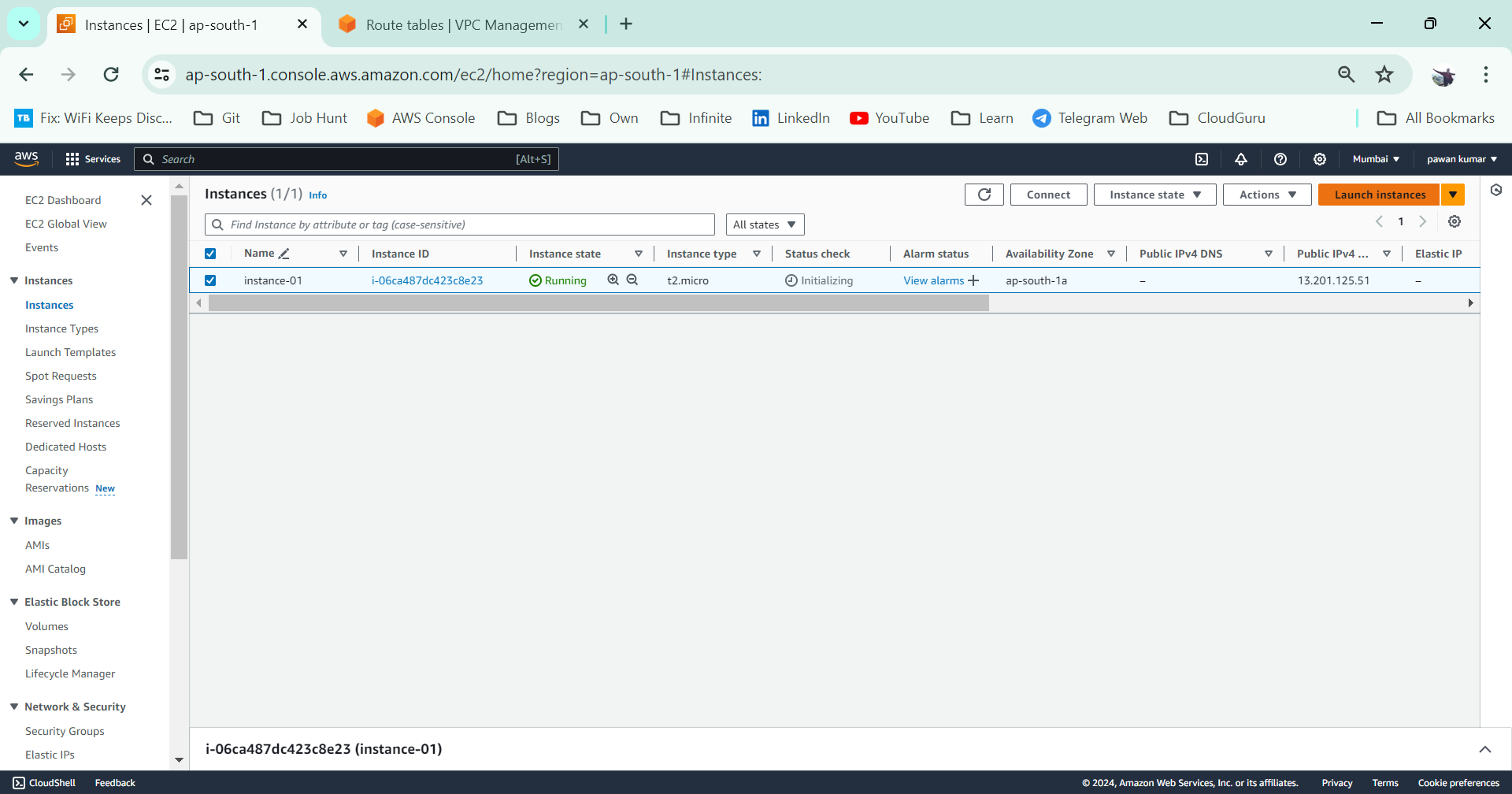
**http for anywhere 🡪 80**

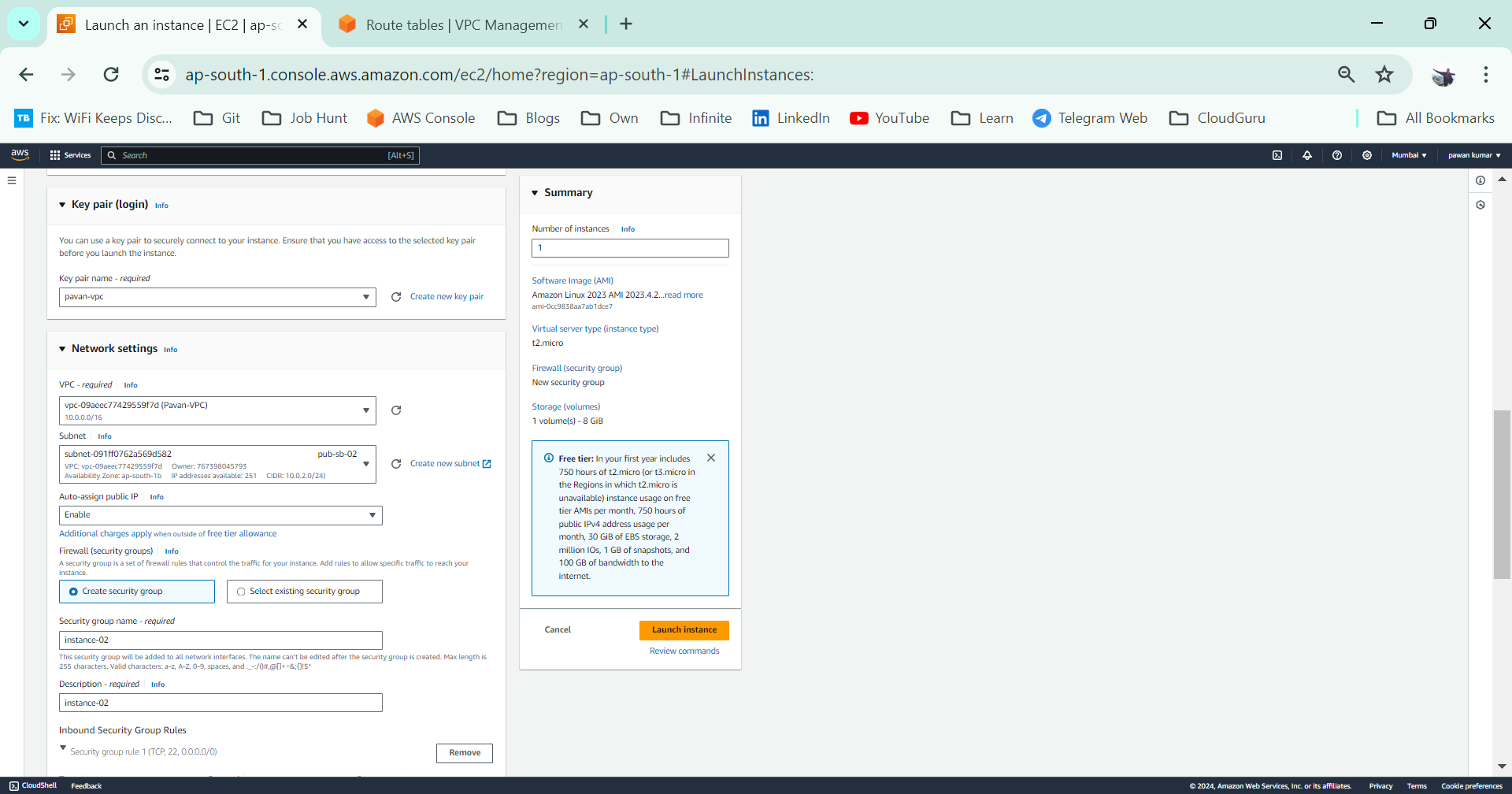


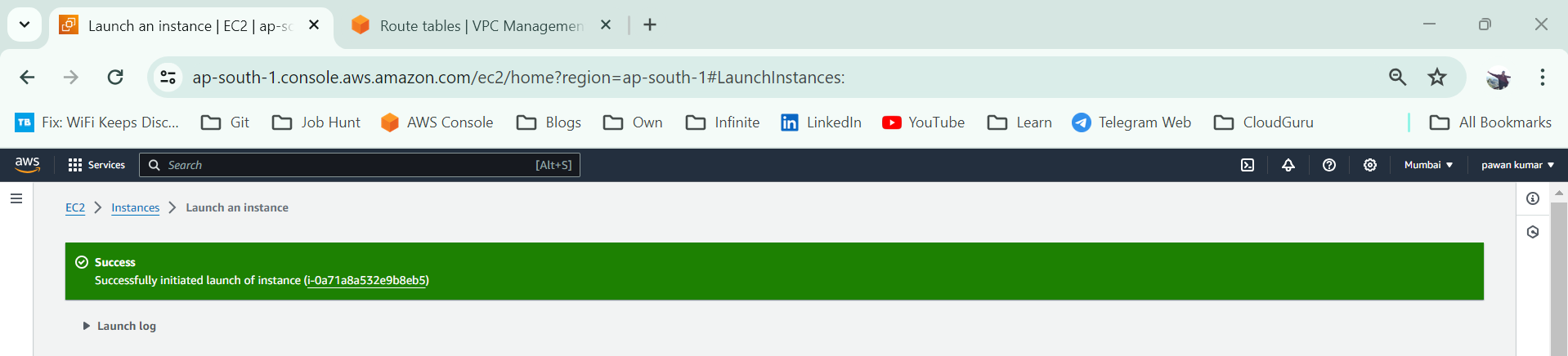
**Instance creation is in progress**



**Launch Instance-02 in subnet-2**

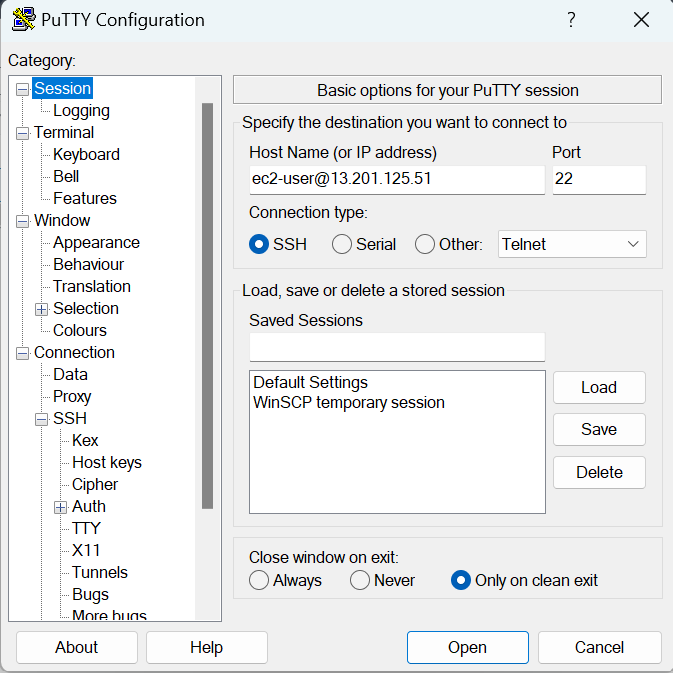




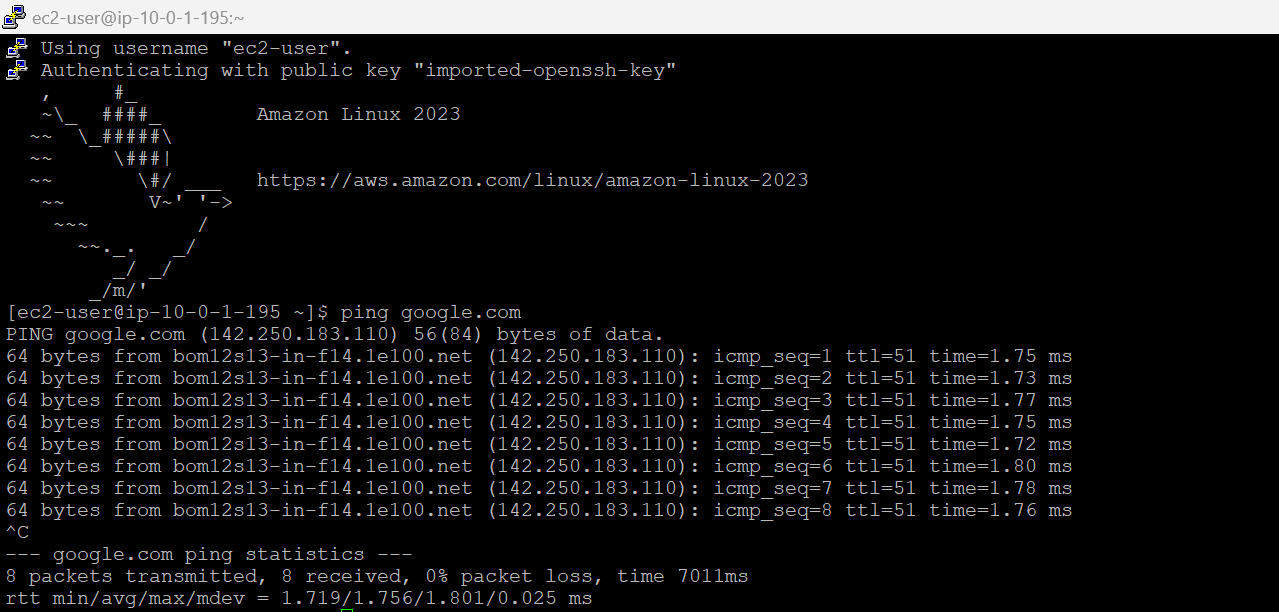
****

**Communication Check**

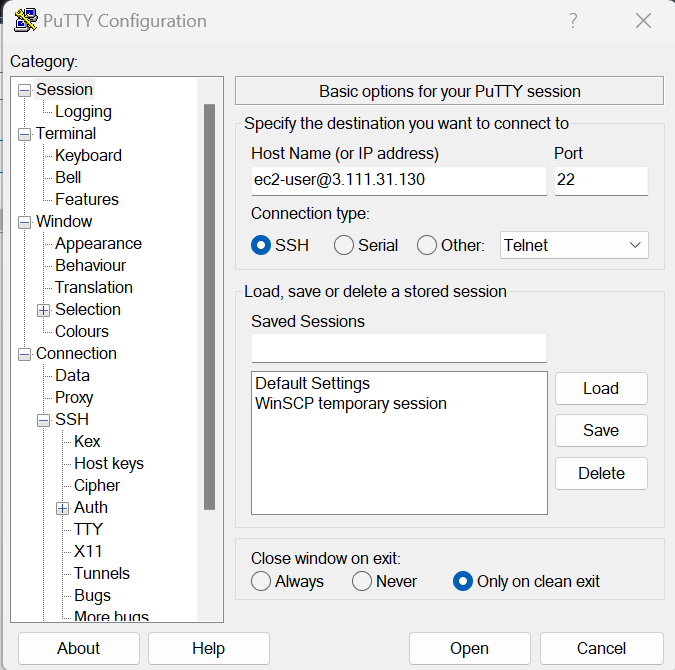
**Login into Instance-01**

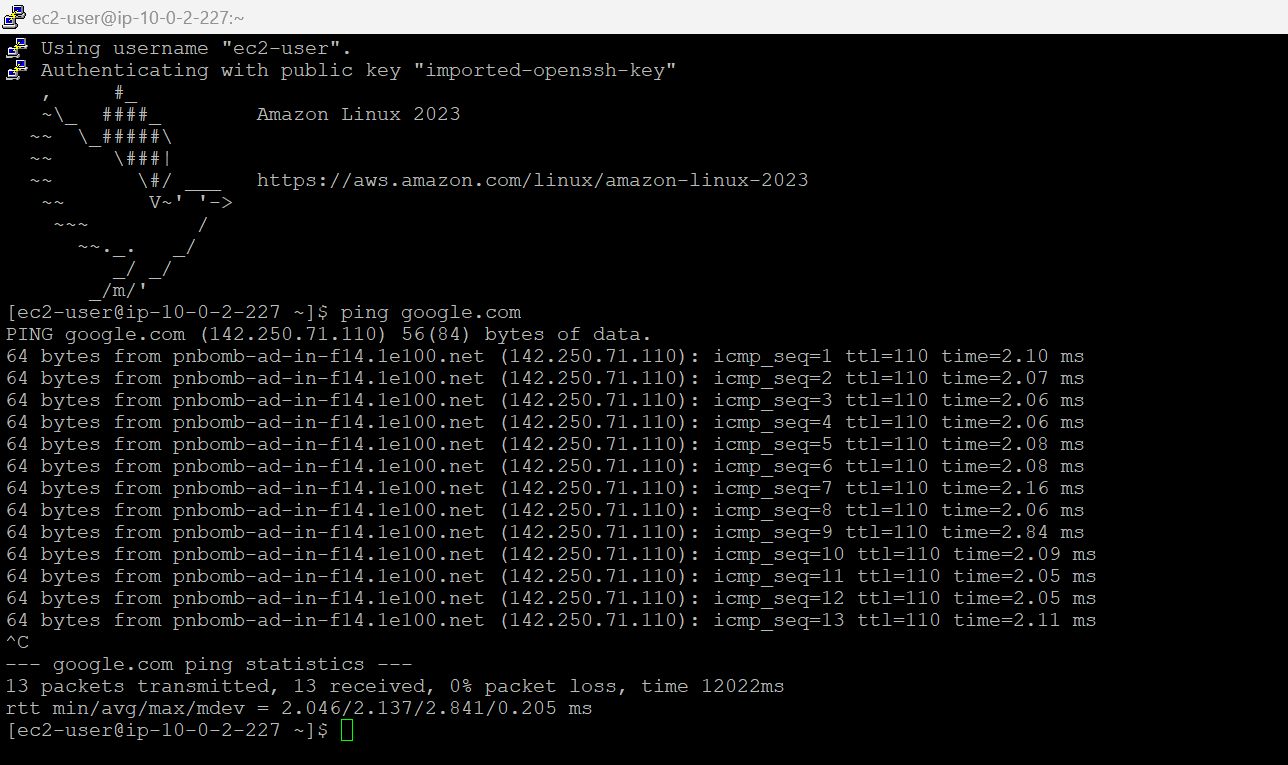
****

**Ping google**

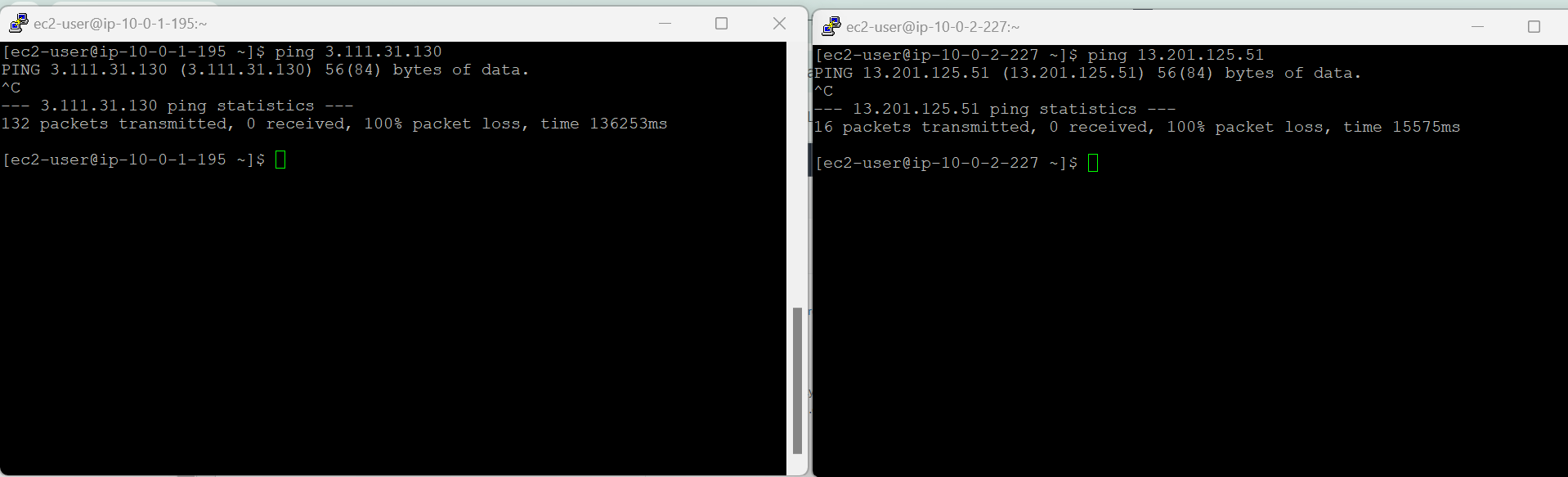
****

**Login into Instnace-02**

****

****

**Unable to get response when pinging b/w instances**

****

**https://stackoverflow.com/questions/21981796/cannot-ping-aws-ec2-instance**