Name: Saurabh Sanjay Jadhav

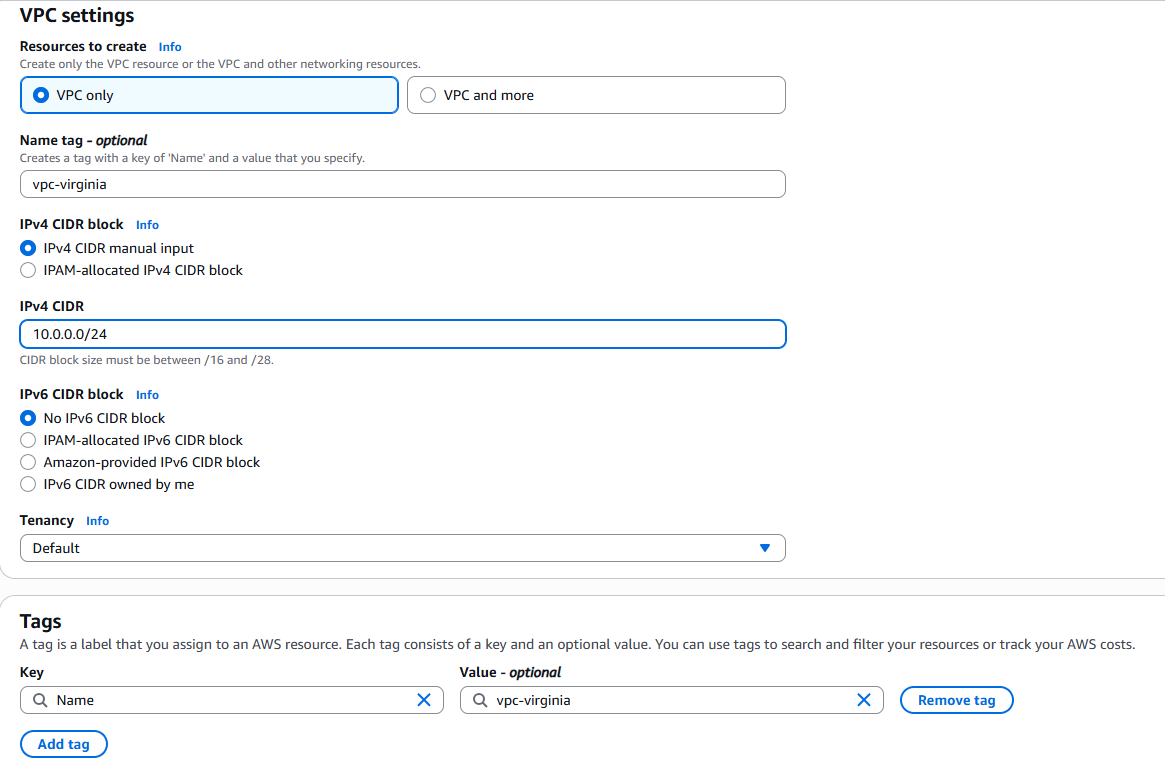
Topic : VPC peering(Same region peering & Different region peering).

Assignment no. : 20

1. Create a VPC network in virginia region.
2. Create VPC

Name : vpc-virginia

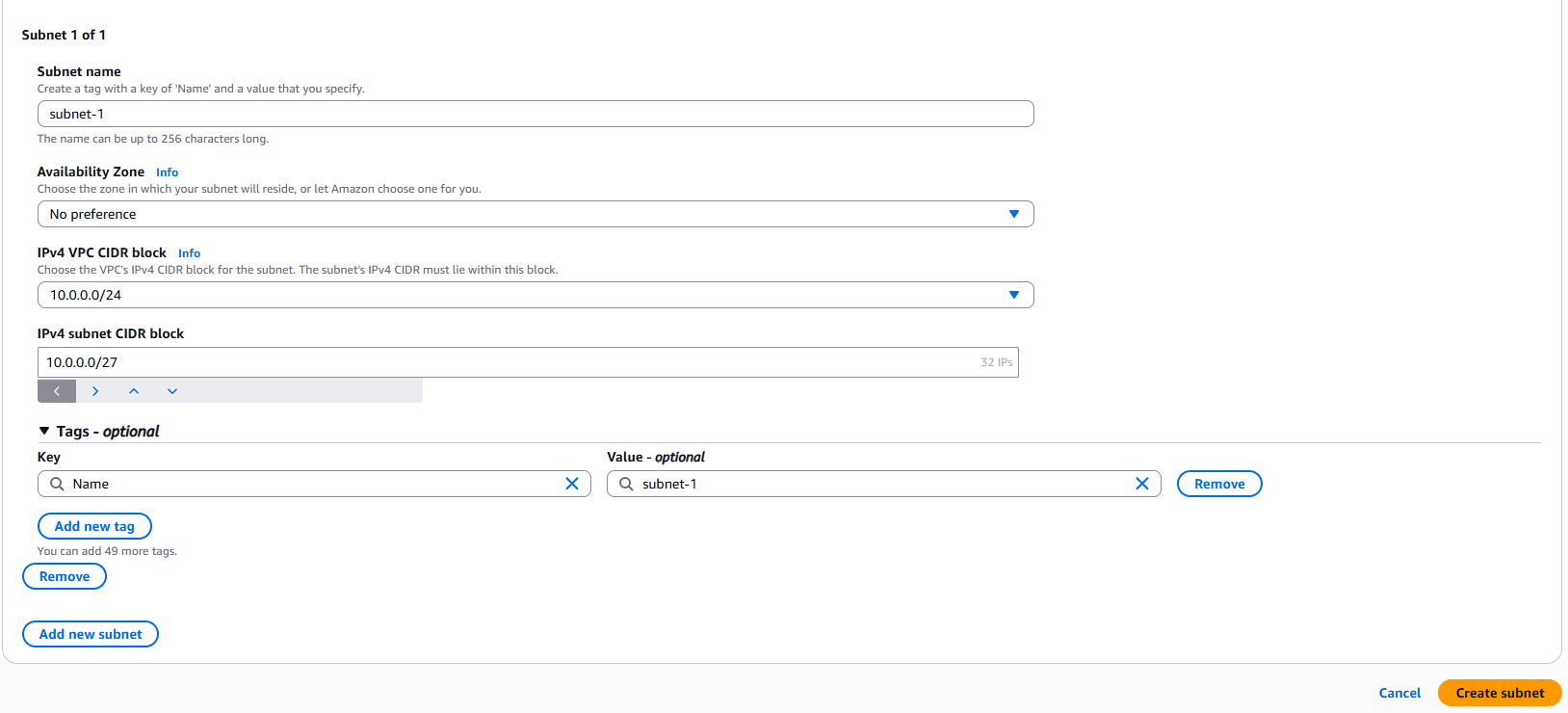
CIDR : 10.0.0.0/24



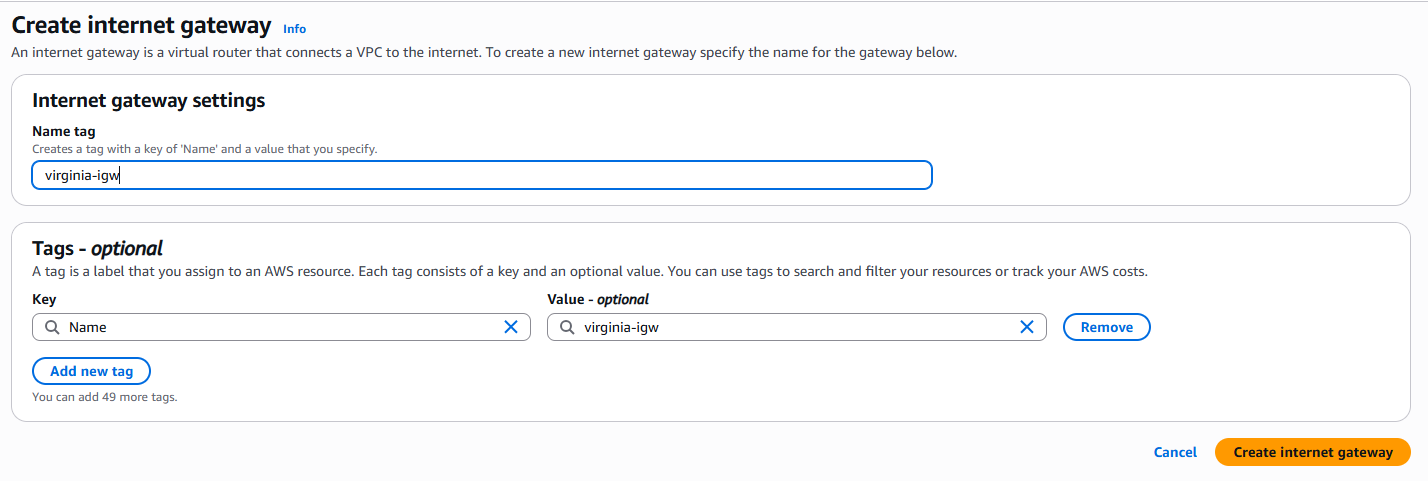
1. Create a subnet.

Name: subnet-1

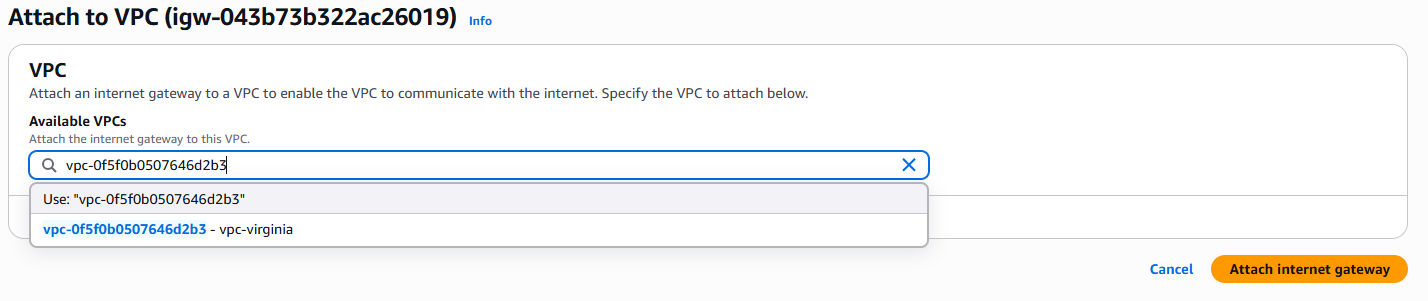
CIDR: 10.0.0.0/27



1. Create internet gateway for vpc.



Attach IGW to vpc.



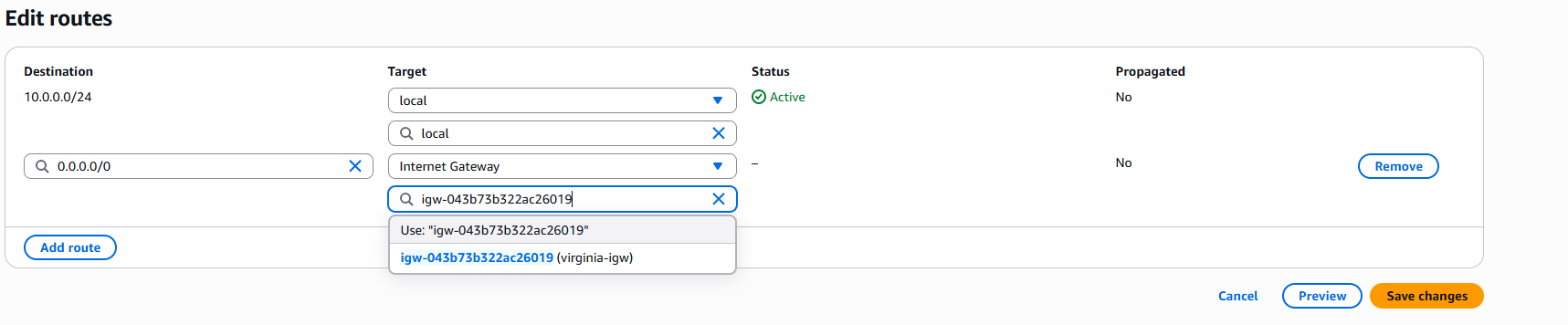
1. Create route table.

Add subnet association to subnet-1.

A screenshot of a computer

AI-generated content may be incorrect.

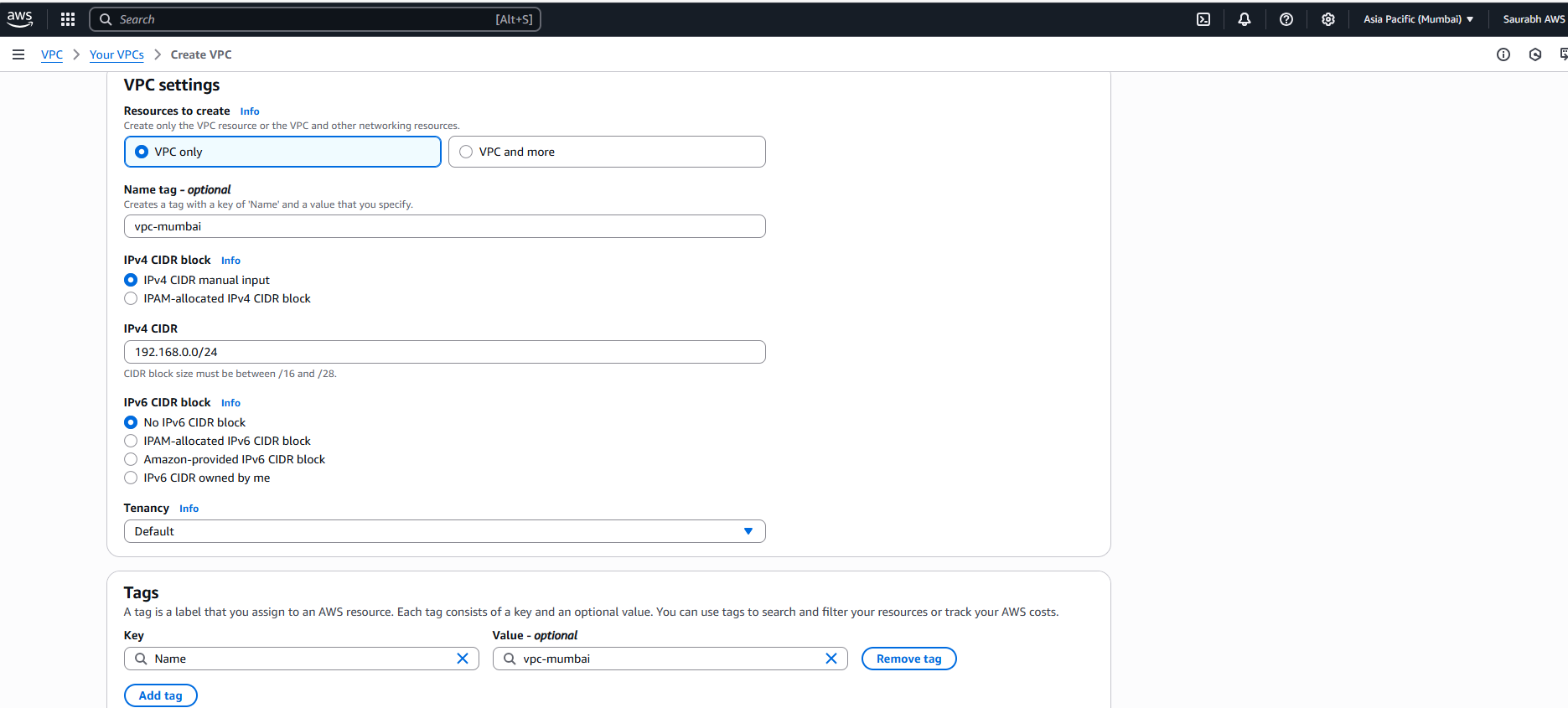
Add route to internet gateway.



1. Create VPC in another region i.e. Mumbai region.
2. Create vpc

Name : vpc-mumbai

CIDR : 192.168.0.0/24



1. Create subnet

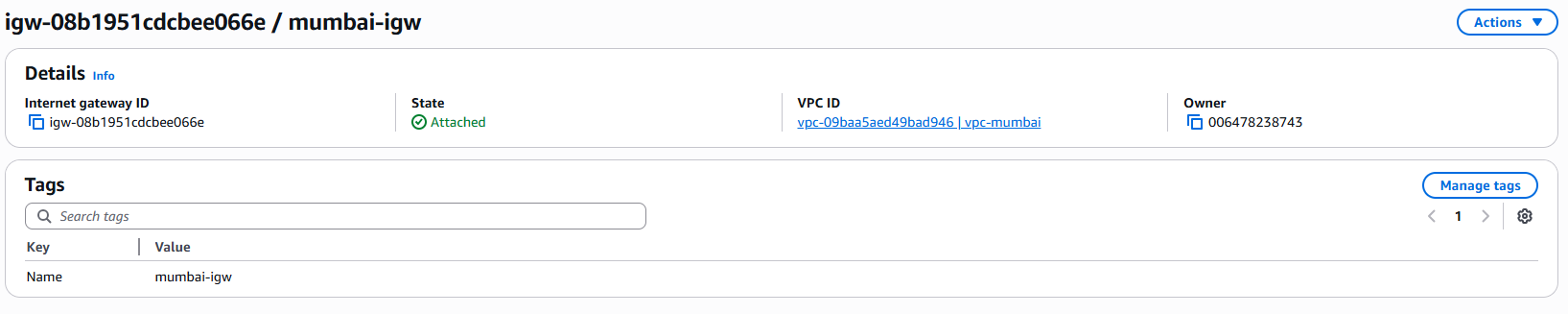
Name : subnet-1

CIDR : 192.168.0.0/27

A screenshot of a computer

AI-generated content may be incorrect.

1. Create internet gateway and attached it to vpc in Mumbai.



1. Create route table , associate subnet and add route to igw.

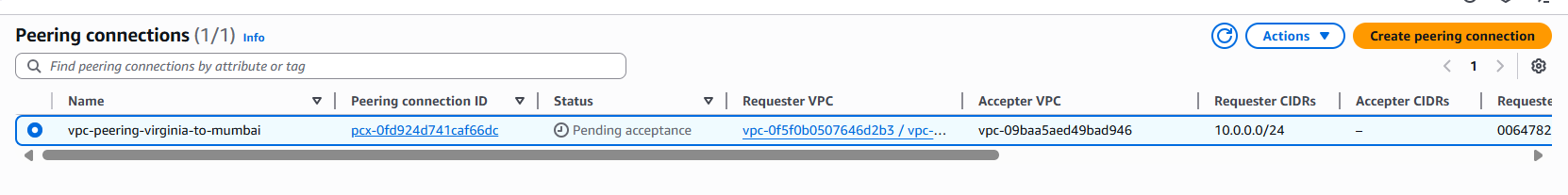
A white background with black text

AI-generated content may be incorrect.

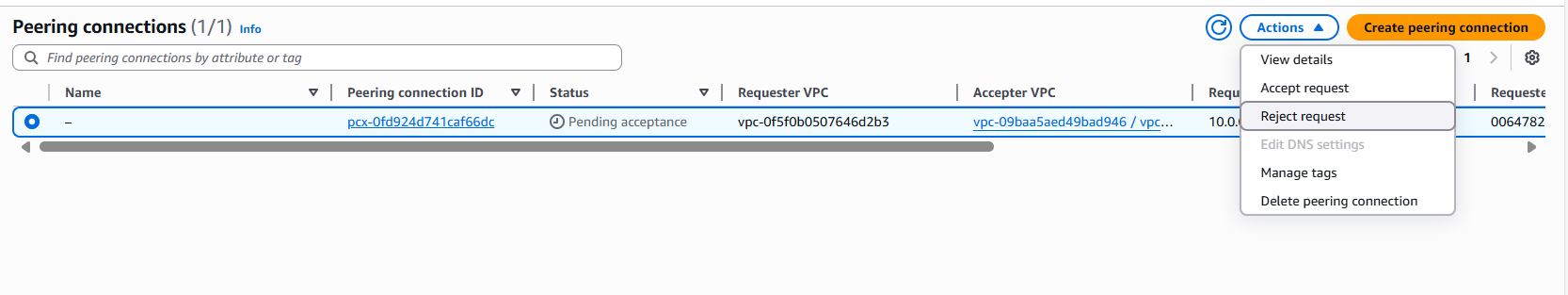
A screenshot of a computer

AI-generated content may be incorrect.

1. Create VPC peering in virginia region.



Accept the peering request in Mumbai region.



1. Add routes of vpc peering in route table of both regions.
2. Virginia-rt: destination – 192.168.0.0/24, target- select peering conn.

A screenshot of a computer

AI-generated content may be incorrect.

1. Mumbai-rt : destination – 10.0.0.0/24, target – selectpeering conn

A screenshot of a computer

AI-generated content may be incorrect.

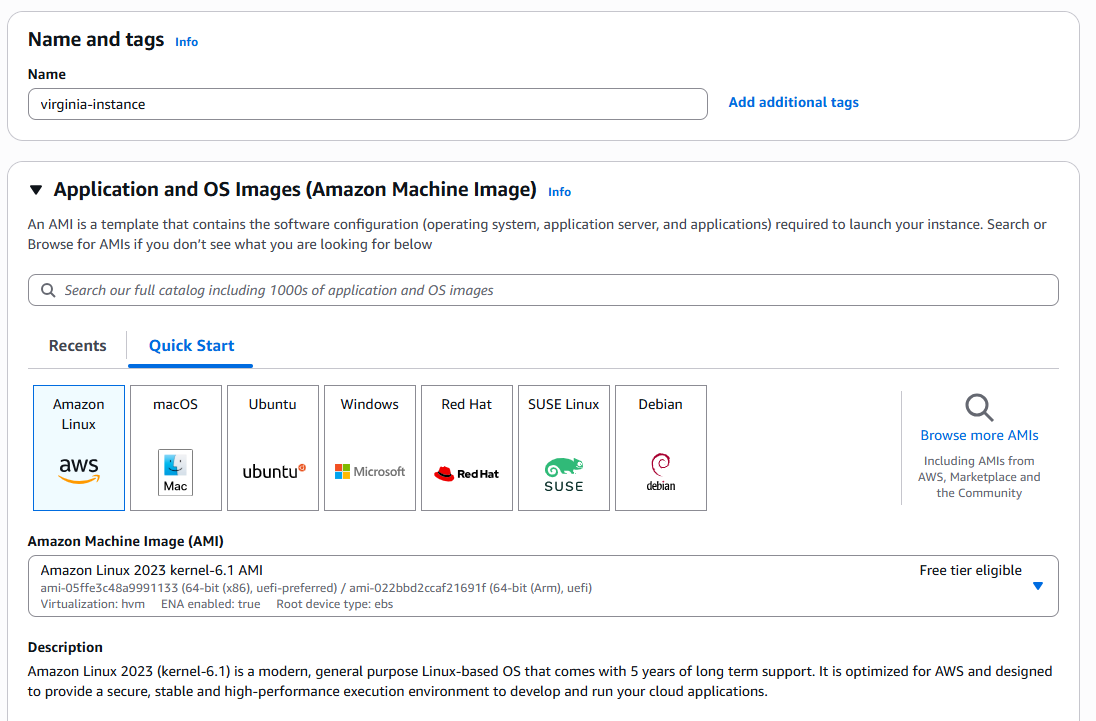
1. Create EC2 instance in virginia region.

Name : virginia-instance

Create new key pair : virginia-key-pair

Select vpc network : vpc-virginia and its subnet also enable assign public IP

Allow all traffic in security group.



A screenshot of a computer

AI-generated content may be incorrect.

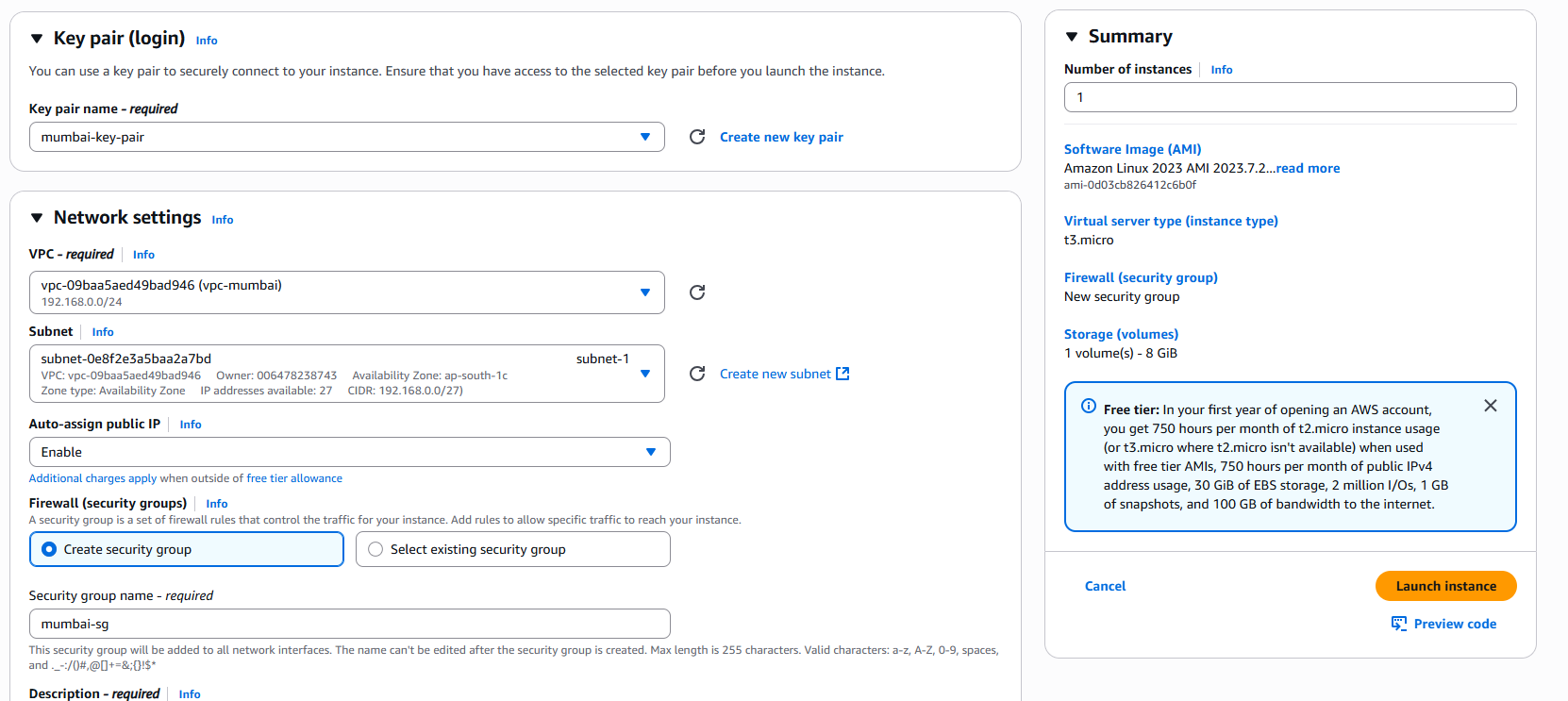
1. Create EC2 instance in Mumbai region.

Name : mumbai-instance

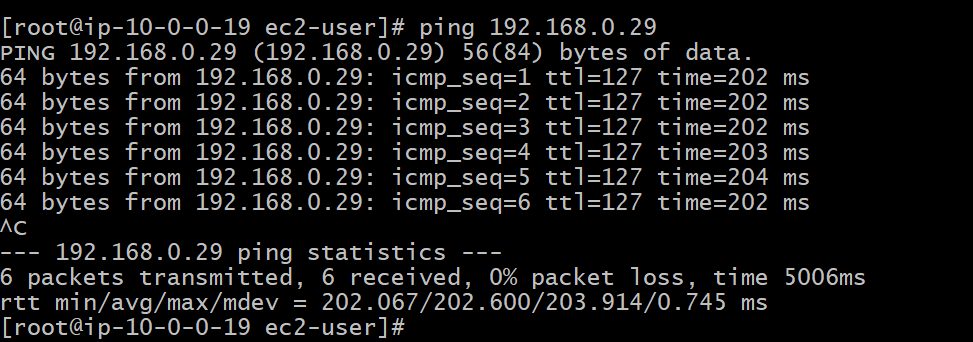
Create new key pair : mumbai-key-pair

Select vpc network : vpc-mumbai and its subnet also enable assign public IP

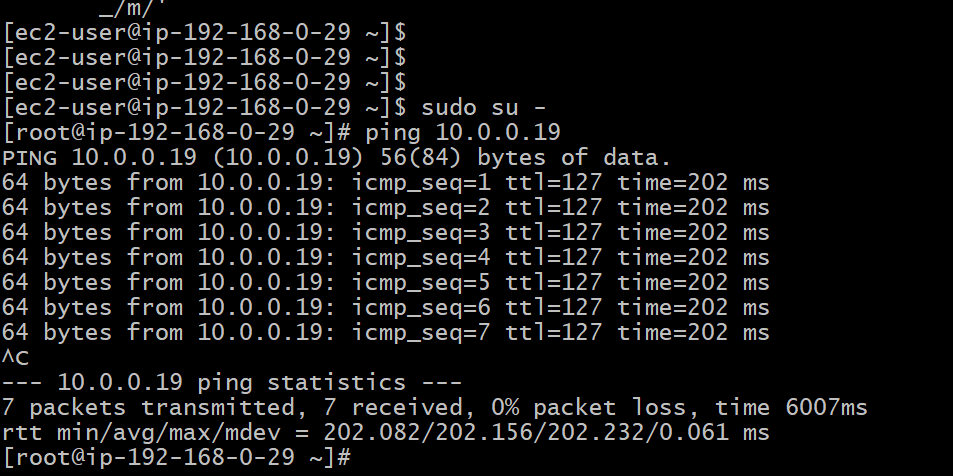
Allow all traffic in security group.



1. Successful connection from virginia region instance to Mumbai region instance.

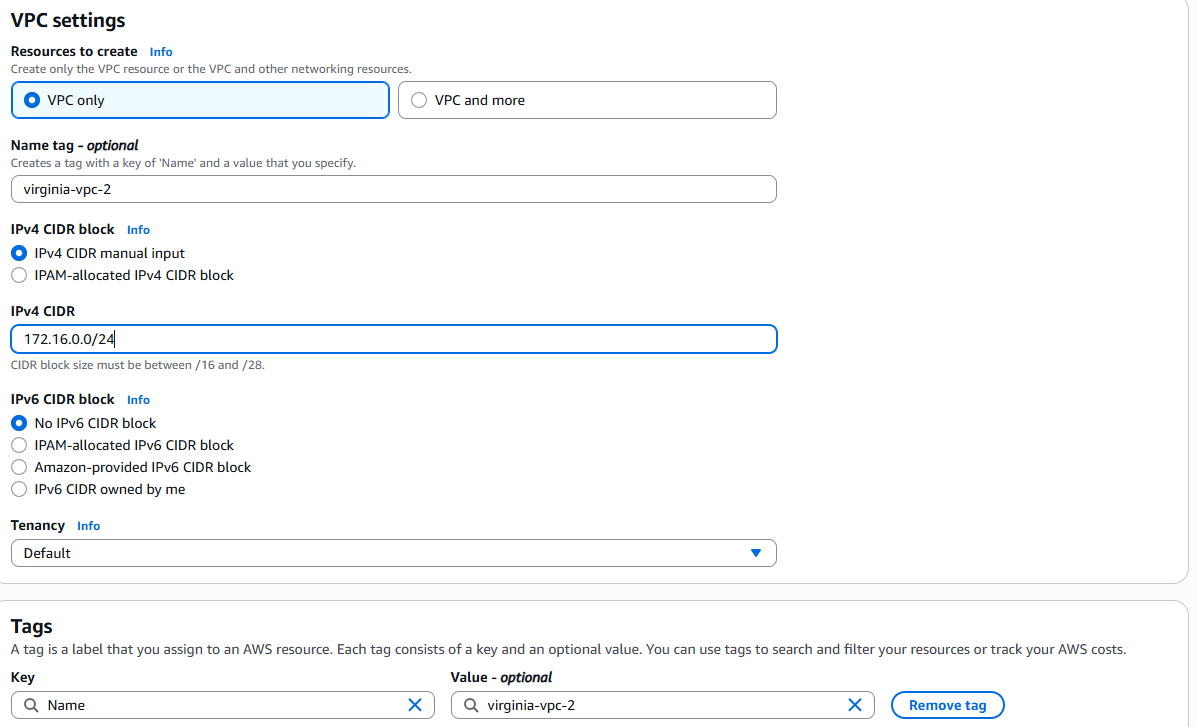


1. Successful connection from Mumbai region instance to virginia region instance.

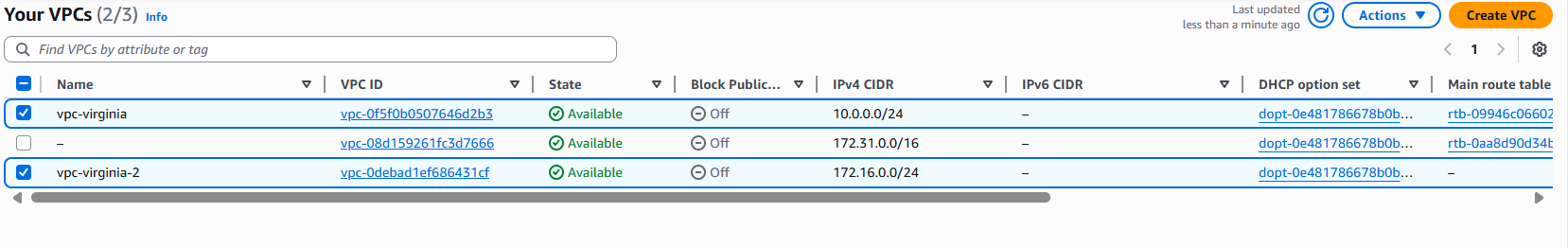


**Same region VPC peering**

1. Follow the steps of virginia region to create vpc network and EC2 instance and create 2 VPC and 2 instances.
2. Second vpc network in virginia region.



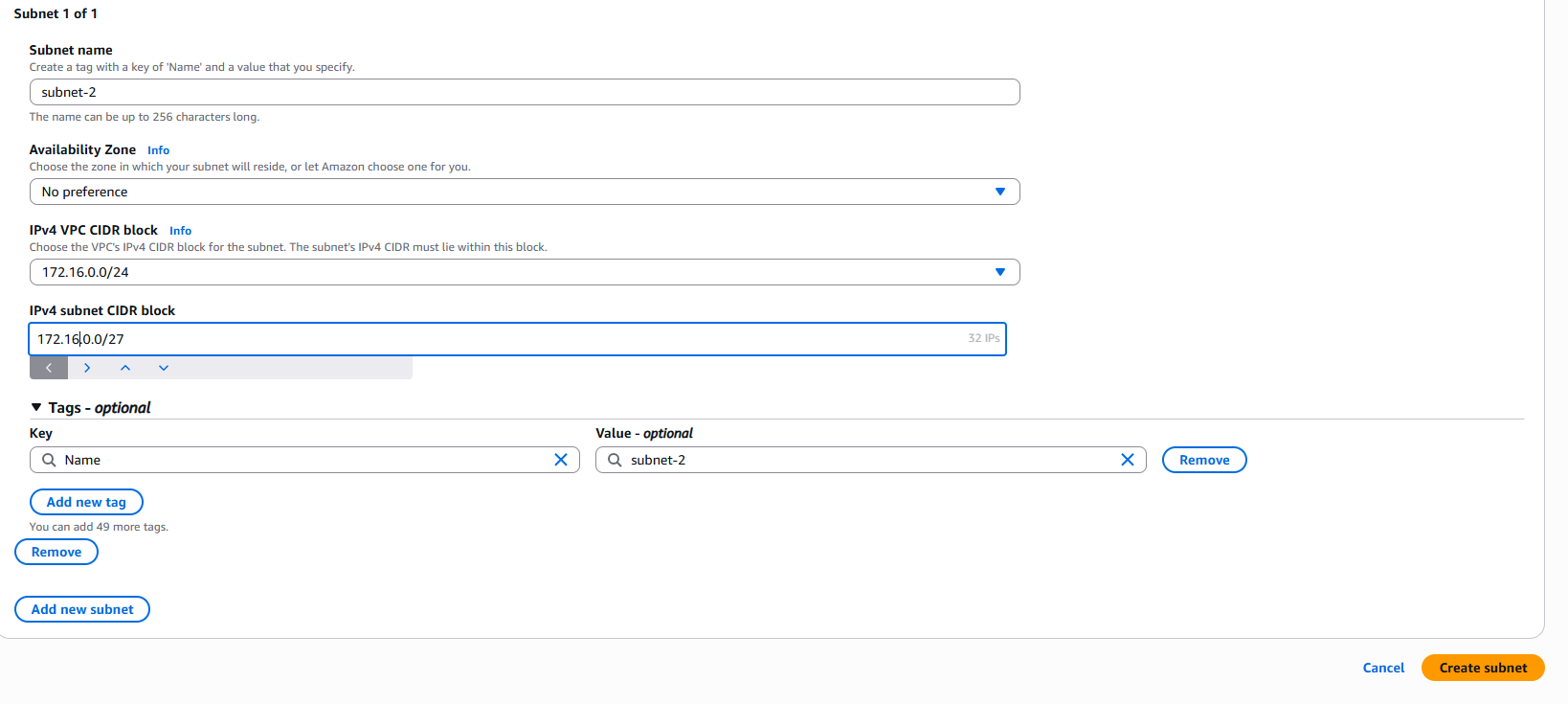
2 VPC created



1. Create subnet, IGW for vpc-virginia-2.
2. Subnet:

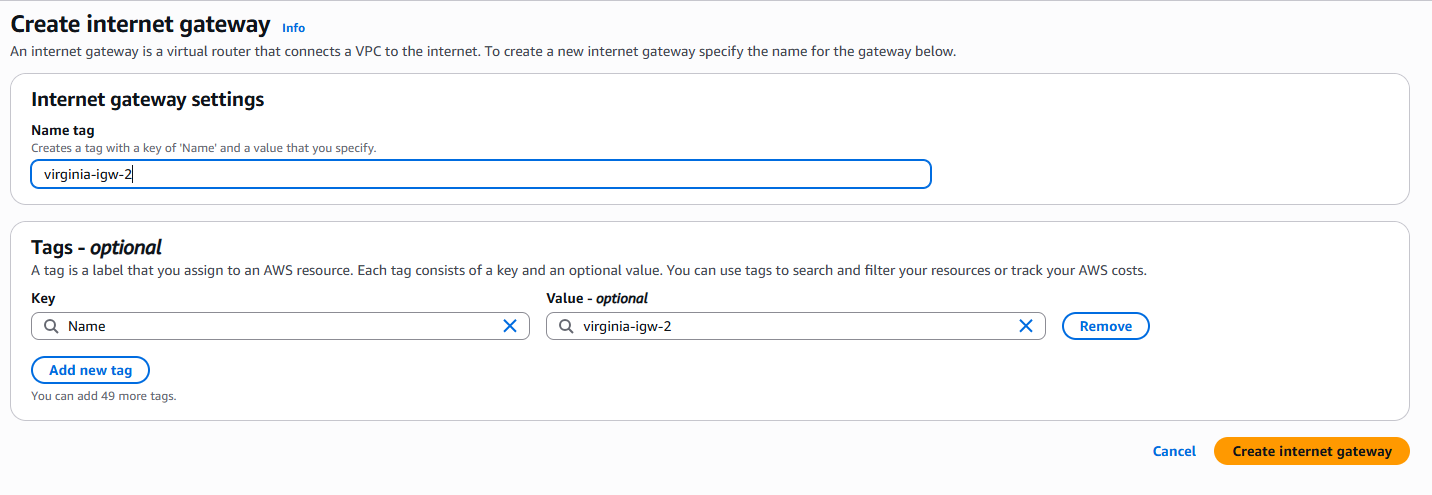
Name:subnet-2

CIDR : 172.16.0.0/27



1. Internet gateway

Name : virginia-igw-2 and attach it to vpc-virginia-2



A screen shot of a computer

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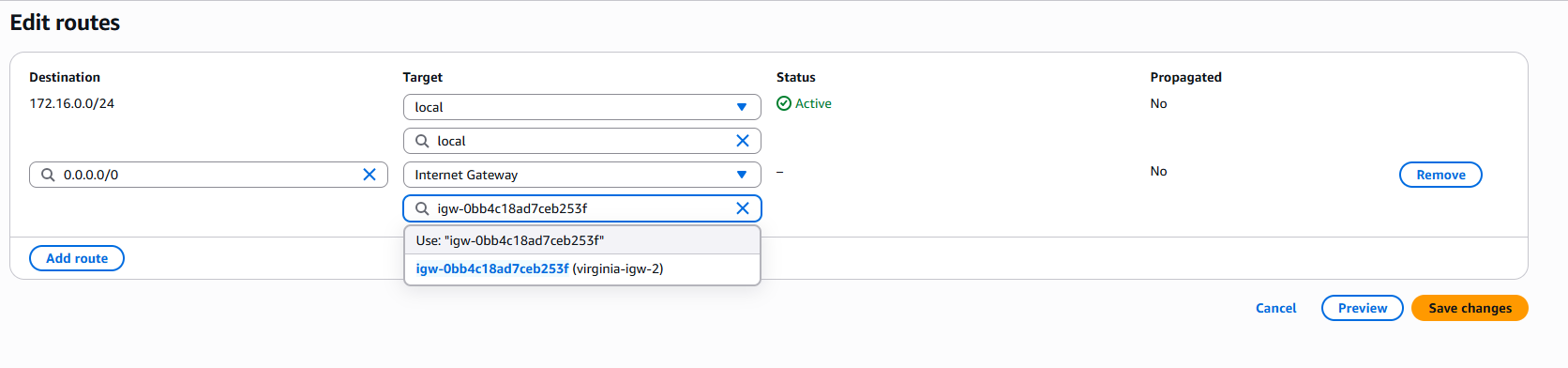
1. Route table:

Name: virginia-rt-2

A screenshot of a computer

AI-generated content may be incorrect.

Add route to internet gateway



Subnet association to subnet-2

1. Create peering connection.

Name : same-region-peering

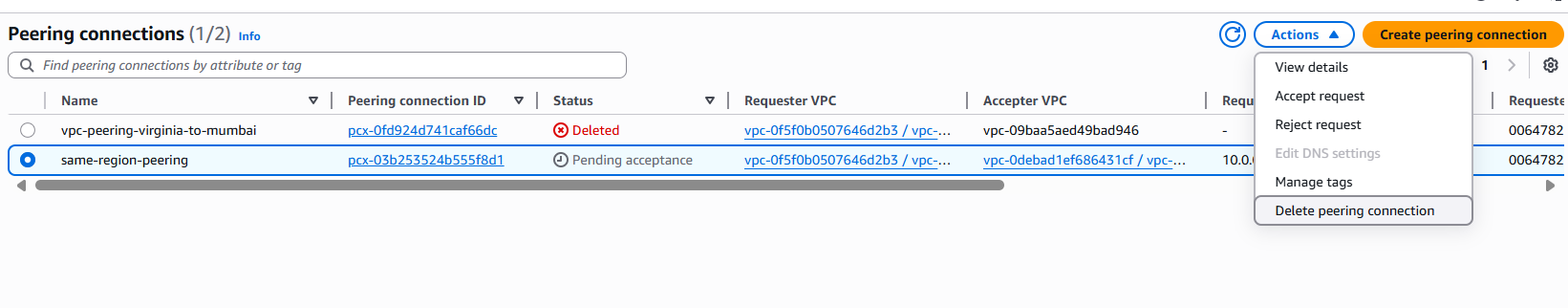
Requestor: vpc-virginia

Acceptor : vpc-virginia-2

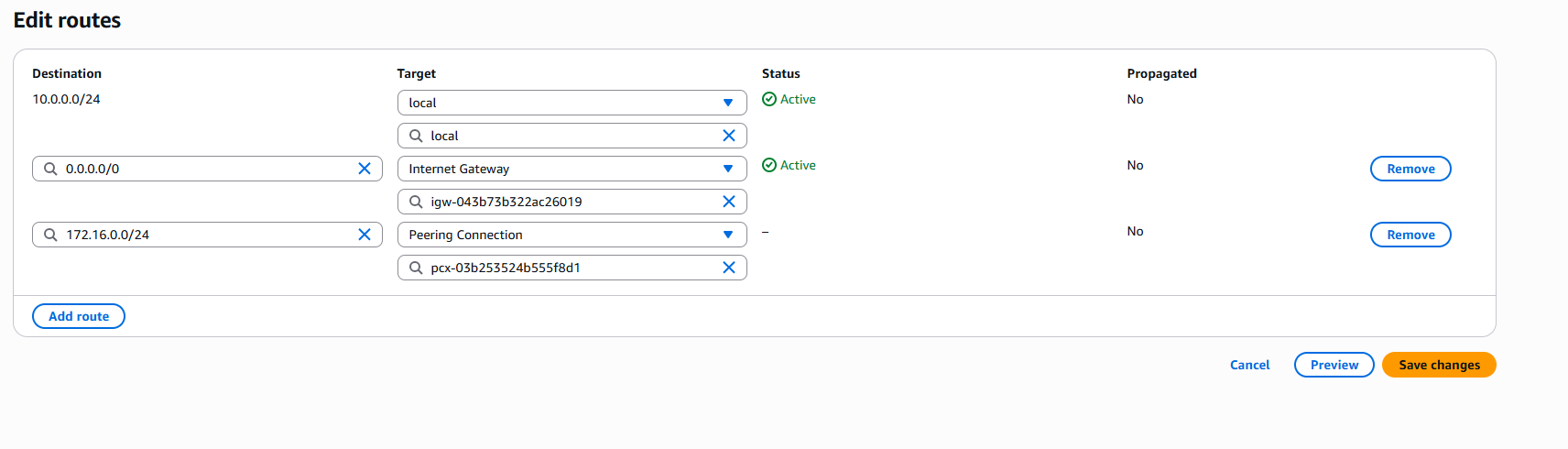
A screenshot of a computer

AI-generated content may be incorrect.

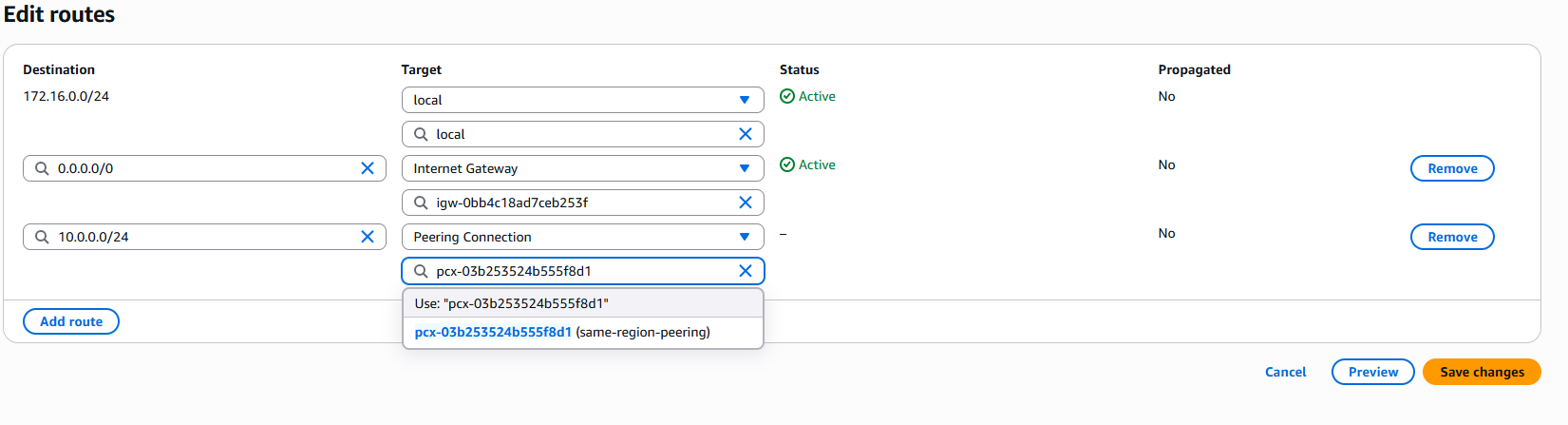
1. Accept the request in vpc-virginia-2 peering connection.



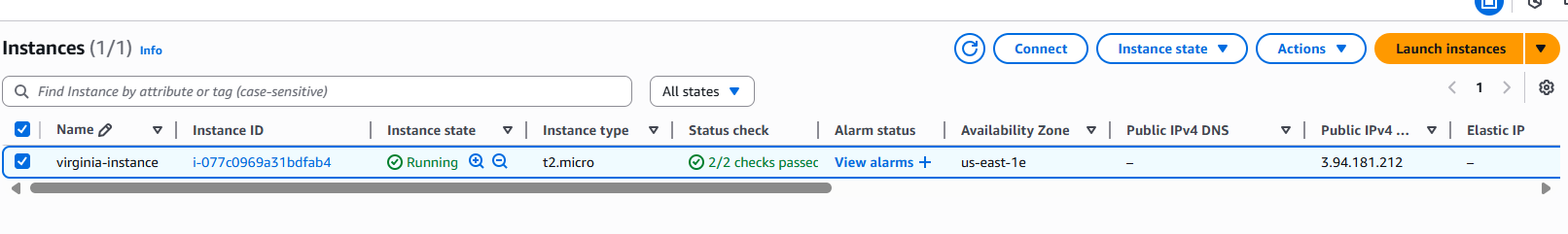
1. Add routes to peering connection in route tables of both vpc’s.
2. Virginia-rt :



1. Virginia-rt-2:



1. Create EC2 instance in both vpc.
2. In vpc-virginia:

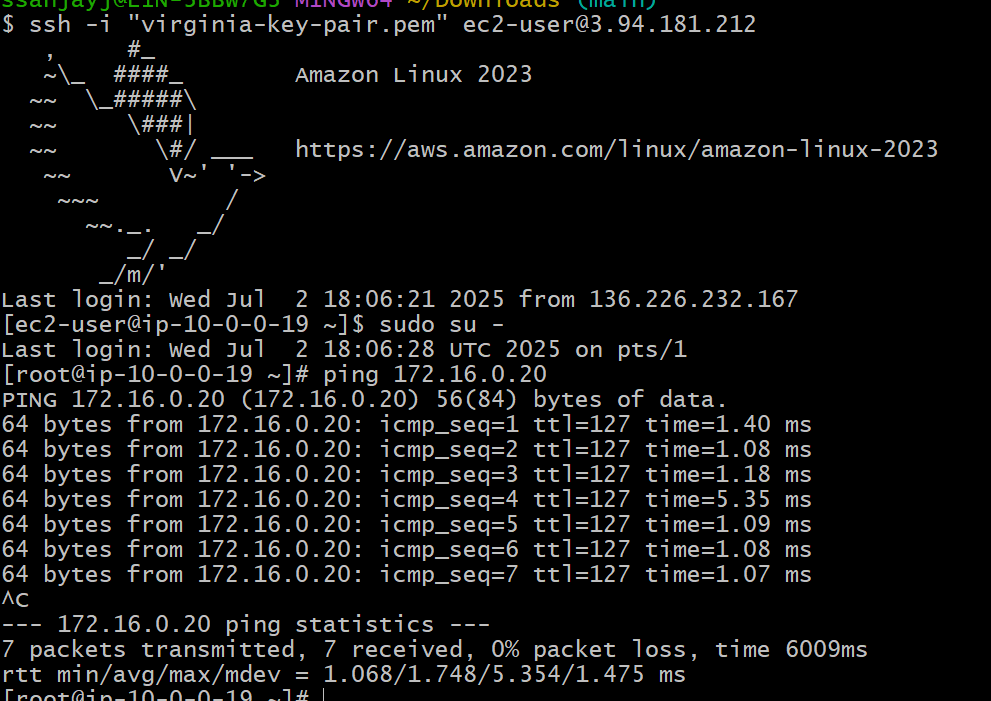


1. In vpc-virginia-2:

A screenshot of a computer

AI-generated content may be incorrect.

1. Check vpc peering.
2. Successful connection from virginia-instance to virginia-instance-2



1. Successful connection from virginia-instance-2 to virginia-instance

