

Assignment-2

Name :yamini nakka

E-mail:yaminin90@gmail.com

Phone number:9494124891

Batch number:121

Create a transit gateway one region and another transit gateway one region and another transit gateway in another region and enable communication between both the transit gateway

A transit gateway is a network transit hub that you can use to interconnect your virtual private clouds (VPCs) and on-premises networks. As your cloud infrastructure expands globally, inter-Region peering connects transit gateways together using the AWS Global Infrastructure. All network traffic between AWS data centers is automatically encrypted at the physical layer.

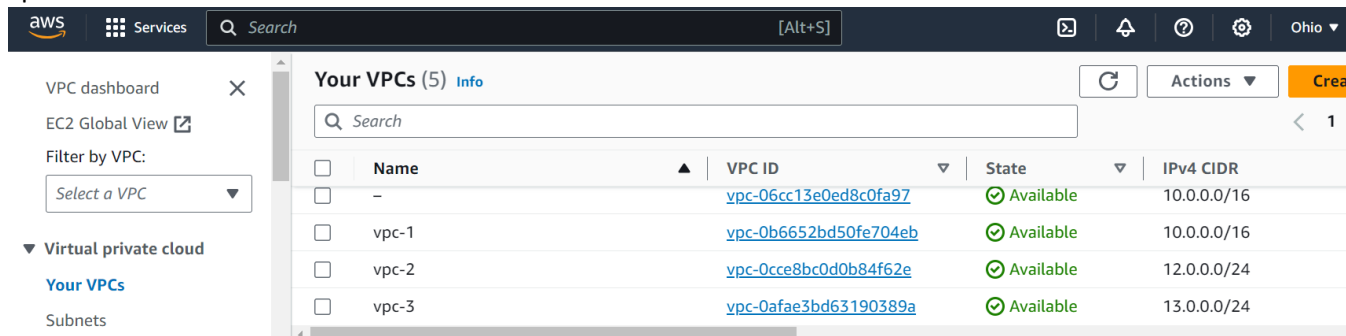
A transit gateway acts as a Regional virtual router for traffic flowing between your virtual private clouds (VPCs) and on-premises networks. A transit gateway scales elastically based on the volume of network traffic. Routing through a transit gateway operates at layer 3, where the packets are sent to a specific next-hop attachment, based on their destination IP addresses.

Create a vpc three different VPC's

Vpc-1

Vpc-2

Vpc-3



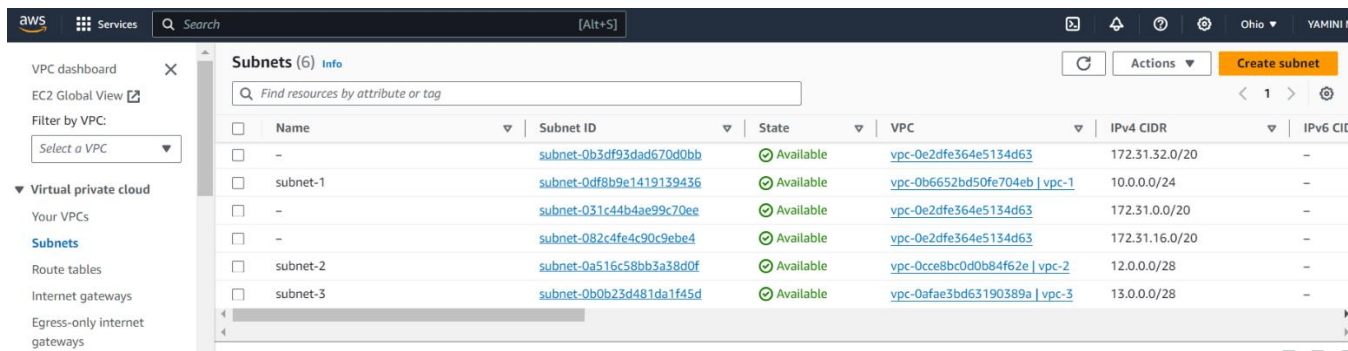
Pic-1

Create three subnets for the following VPC's

Subnet-1

Subnet-2

Subnet-3



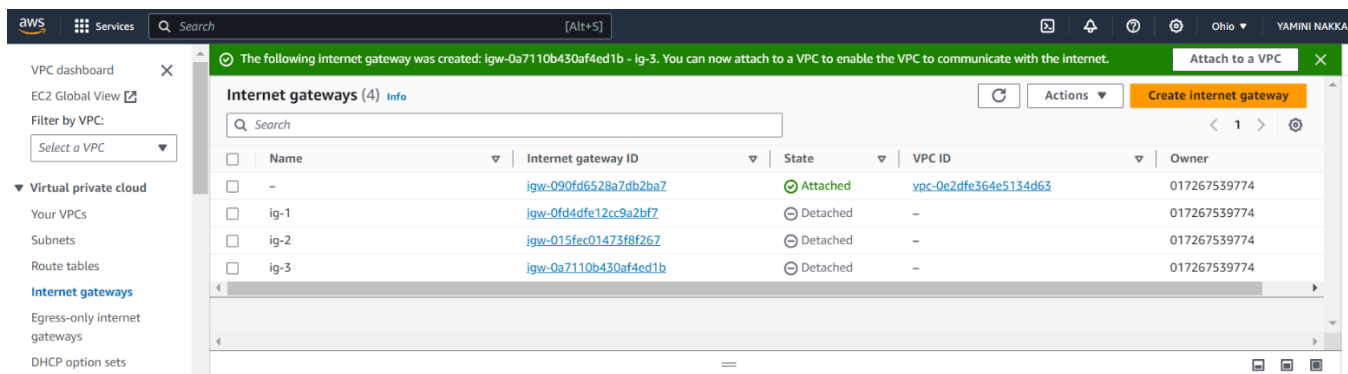
Pic-2

Create the internet gateway for following subnets

Ig-1

Ig-2

Ig-3



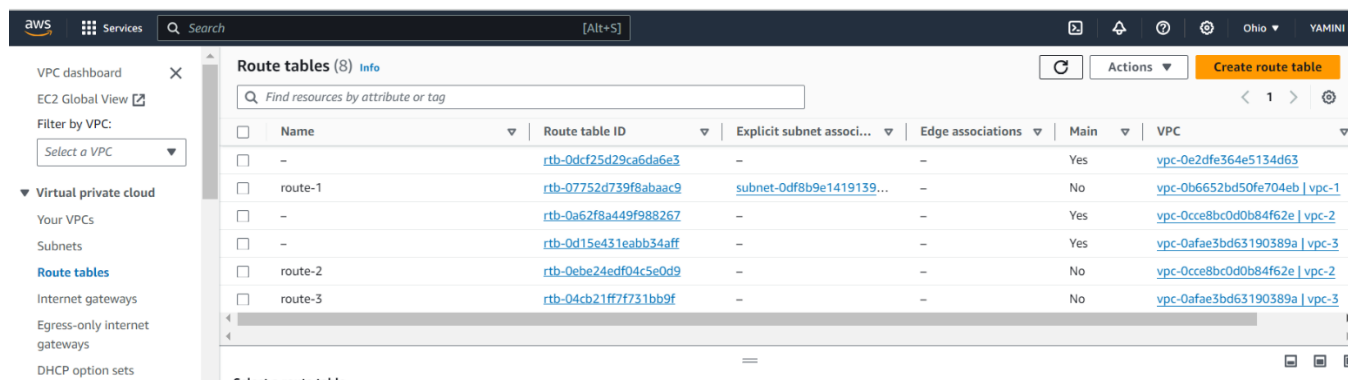
Pic-3

Create route tables for the following

Route-1

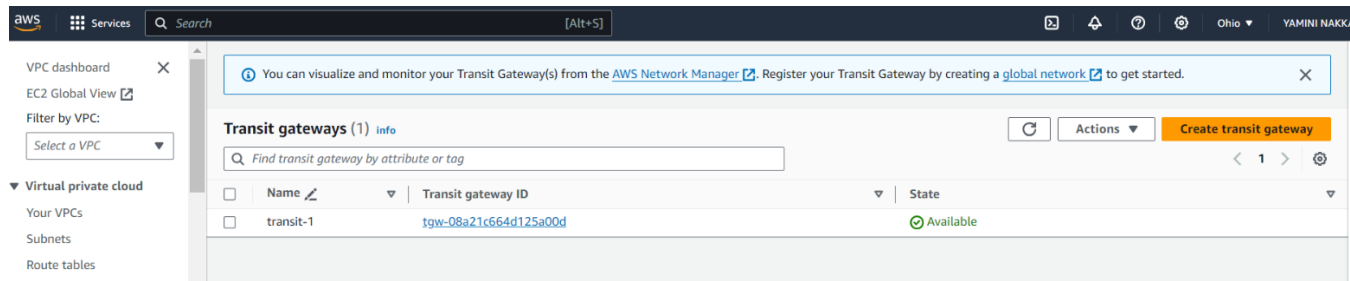
Route-2

Route-3



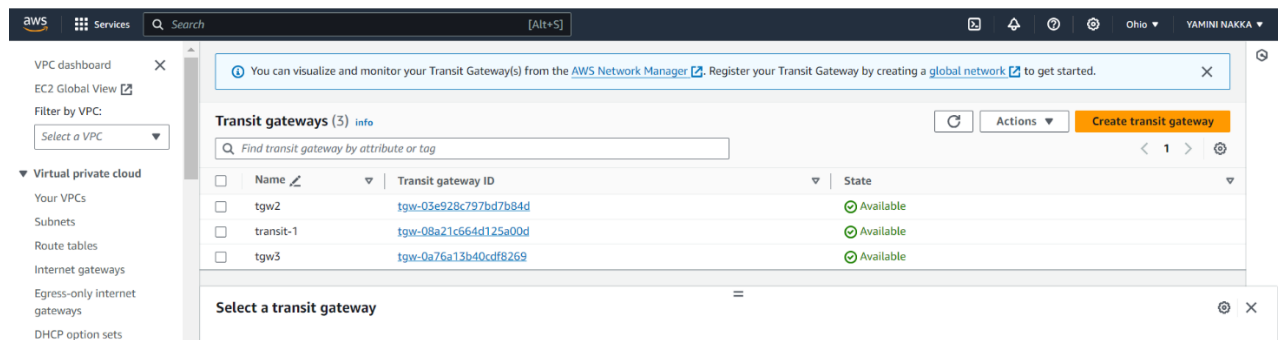
Pic-4

Create transist gateway



Pic-5

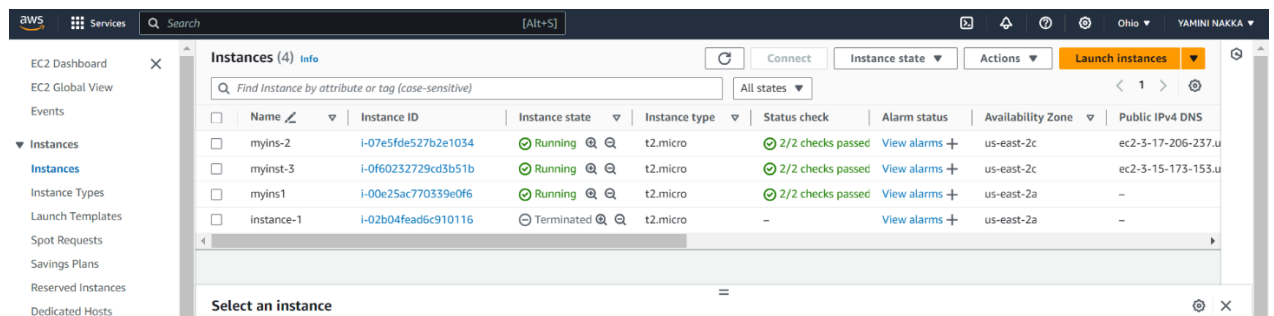
After transit gateway we have to attach internet gateway



Pic-6

Create an ec2 instance in the same region by attaching the AMI, key pair and network setting

Add the http and ssh in the inbound rules to the security groups



Pic-7

● Launch the instance in the web and do the following task

1) Sudo -i to connect to the root user,

2) Yum update -y to update application packages, Yum install nginx -y to install the nginx (proxy server) in amazon linux distribution,

4) Then remove index.html by moving into the default directory `cd /usr/share/nginx/html` and create a html file by index.html with a certain data,

5) Systemctl status nginx to check the nginx is active or dead,



Attach the transit gateway with the vpc in the given region



The instances are shown below

