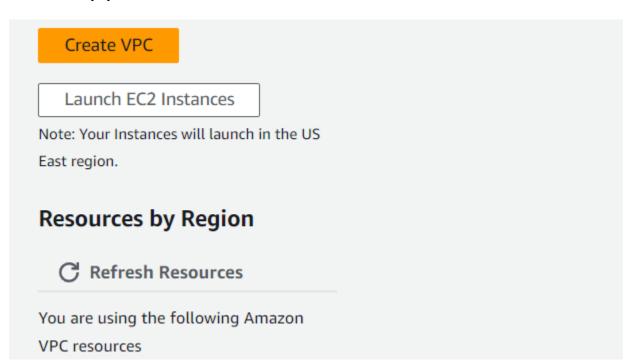
VPC Configuration Lab

- o **Objective**: To understand the fundamentals of AWS networking through the configuration of a Virtual Private Cloud (VPC).
- o **Approach**: Students will create a new VPC, add subnets, set up an Internet Gateway, and configure route tables. The lab might also include setting up a simple EC2 instance within this VPC to demonstrate how resources are deployed in a custom network environment.
- Goal: By the end of this lab, students should be able to create and configure a VPC, understand subnetting, and the role of route tables and internet gateways in AWS.
- 1. Firstly, you have to create a VPC.



2. We can use the following settings.

Customize AZs

Number of public subnets Info

The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.



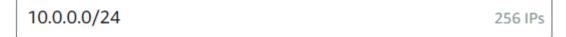
Number of private subnets Info

The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

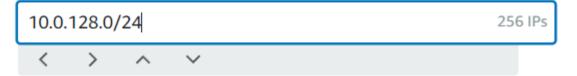


▼ Customize subnets CIDR blocks

Public subnet CIDR block in us-east-1a



Private subnet CIDR block in us-east-1a



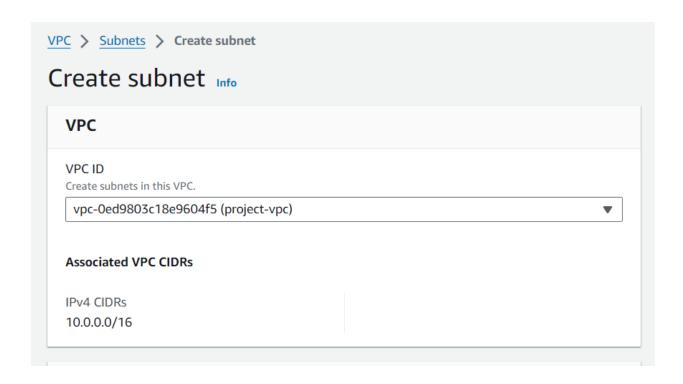
3. Vpc creation takes some time. So we have to wait for a while.

Wait for NAT Gateways to ac	tiv	ate
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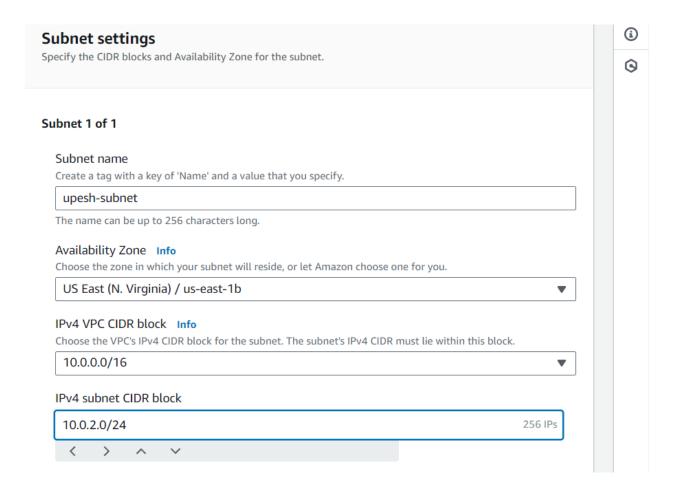
70% **▼** Details ✓ Verifying VPC creation: vpc-0ed9803c18e9604f5 Associate route table • Wait for NAT Gateways to activate Create route table Create route Associate route table Verifying route table creation

4. After the creation of VPC, Now we can create a new subnet by selecting from the left side on control panel of VPC

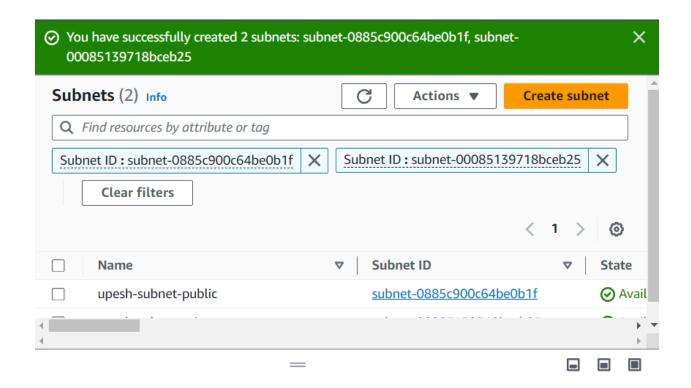
Associate S3 endpoint with private subnet route tables: vpce-030b662d216c0823a



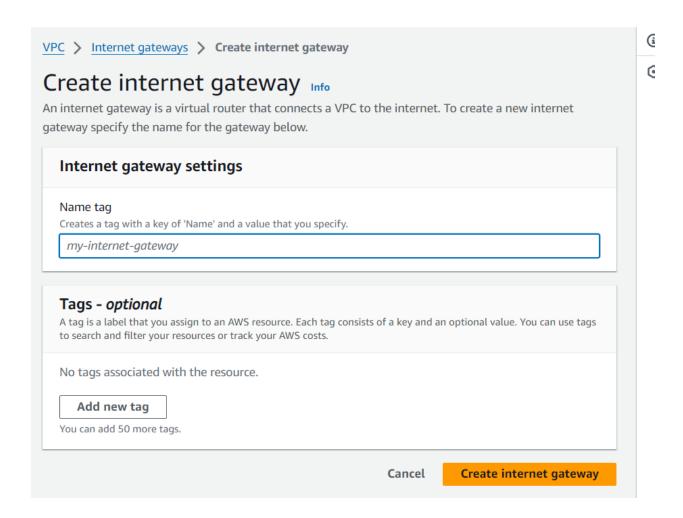
5.Follow these simple steps



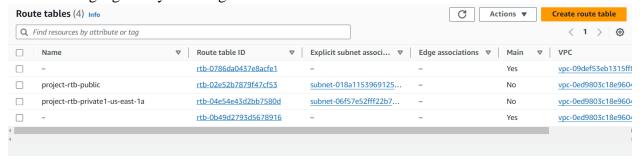
6. Now subnets will be created like this



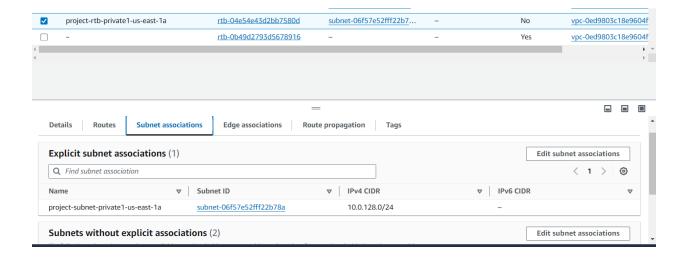
7. Then create internet gateway by selecting from the left side

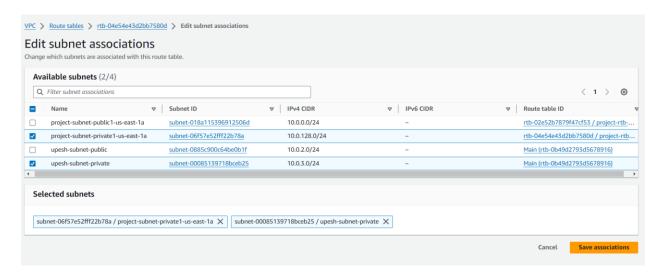


After creating a gateway we can go to route tables

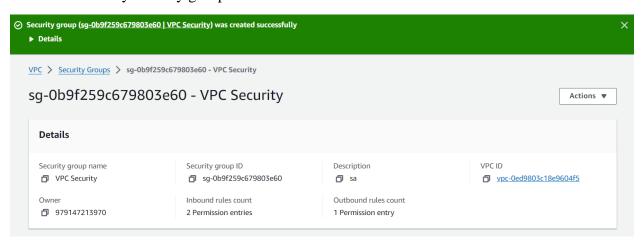


8. Now by selecting private we can choose the edit subnet option in lower control panel





9. Create necessary security groups



10. Lastly we have to create a new instance with all the settings we used to create a VPC and the subnets. And after the Ec2 instance is launched and working we will get a screen like this

