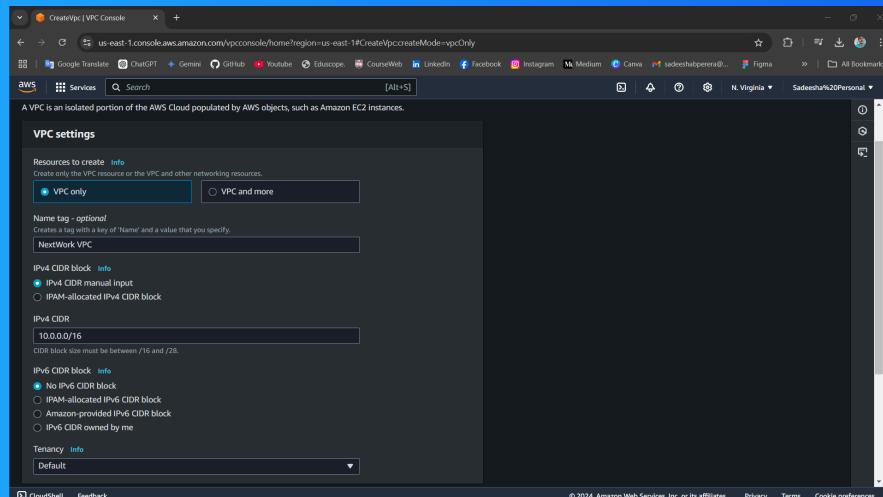




# Build a Virtual Private Cloud



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# Introducing Today's Project!

## What is Amazon VPC?

Amazon VPC is a service that lets you create a logically isolated section within the AWS cloud, providing you with complete control over your virtual network. It offers enhanced security through isolation, network access controls, and encryption.

## How I used Amazon VPC in this project

I used Amazon VPC to create VPC, subnet and internet gateway. There, I learned about CIDR block, and the use of IPv4 addresses when creating virtual private networks.

## One thing I didn't expect in this project was...

I didn't expect how easy to create a VPC using AWS.

## This project took me...

20 minutes (Including documentation)

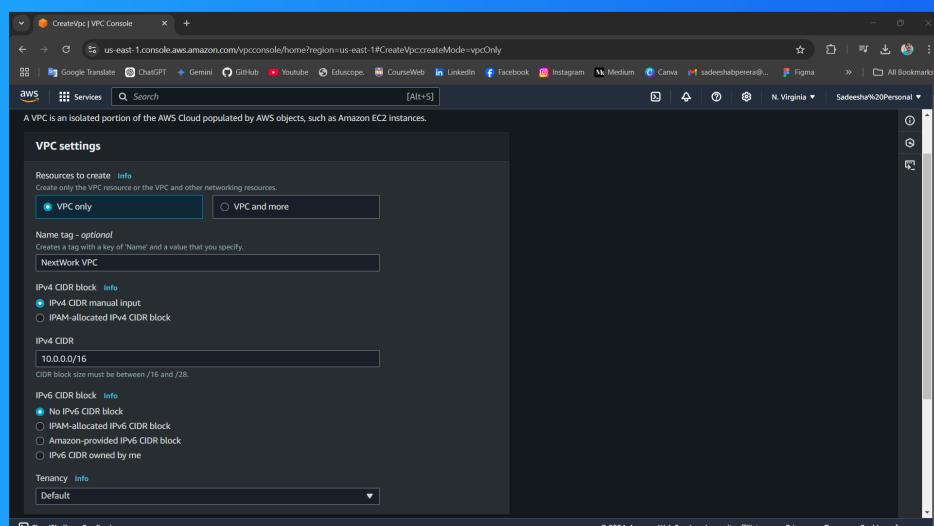


# Virtual Private Clouds (VPCs)

VPCs are isolated sections of the AWS cloud that keep my resources private and secure.

There was already a default VPC in my account ever since my AWS account was created. This is because AWS creates one for every user automatically when they create an account so that every resource they create is easily accommodated in a private.

To set up my VPC, I had to define an IPv4 CIDR, which means Classless Inter-Domain Routing is a way to assign a whole block of IP addresses, kind of like creating a zone/area in a city.



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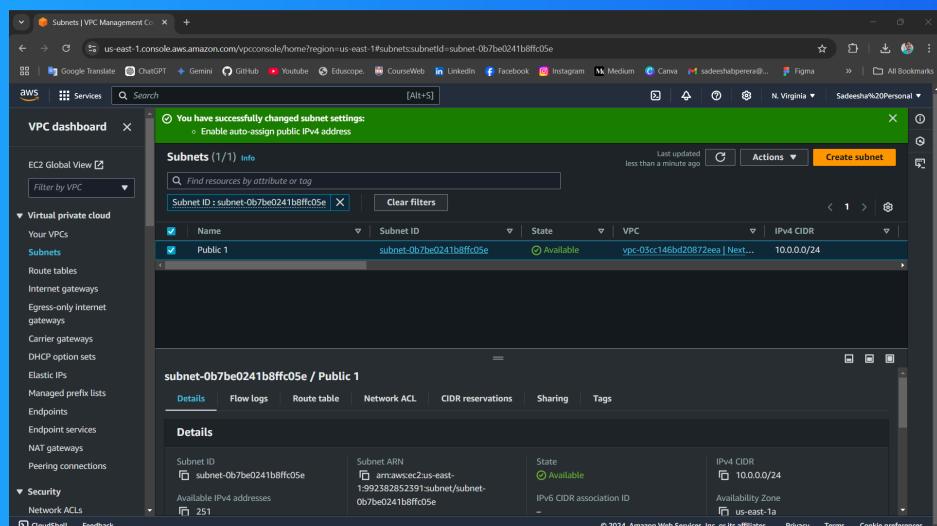
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# Subnets

Subnets are subdivisions within the VPC where AWS resources can be launched.

There are already subnets existing in my account, one for every availability zone existing in my region.

I named my subnet Public1, but that doesn't automatically make my subnet a public subnet. For a subnet to be considered public, it has to have a route to an internet gateway, i.e resources within my VPC can communicate to external networks.



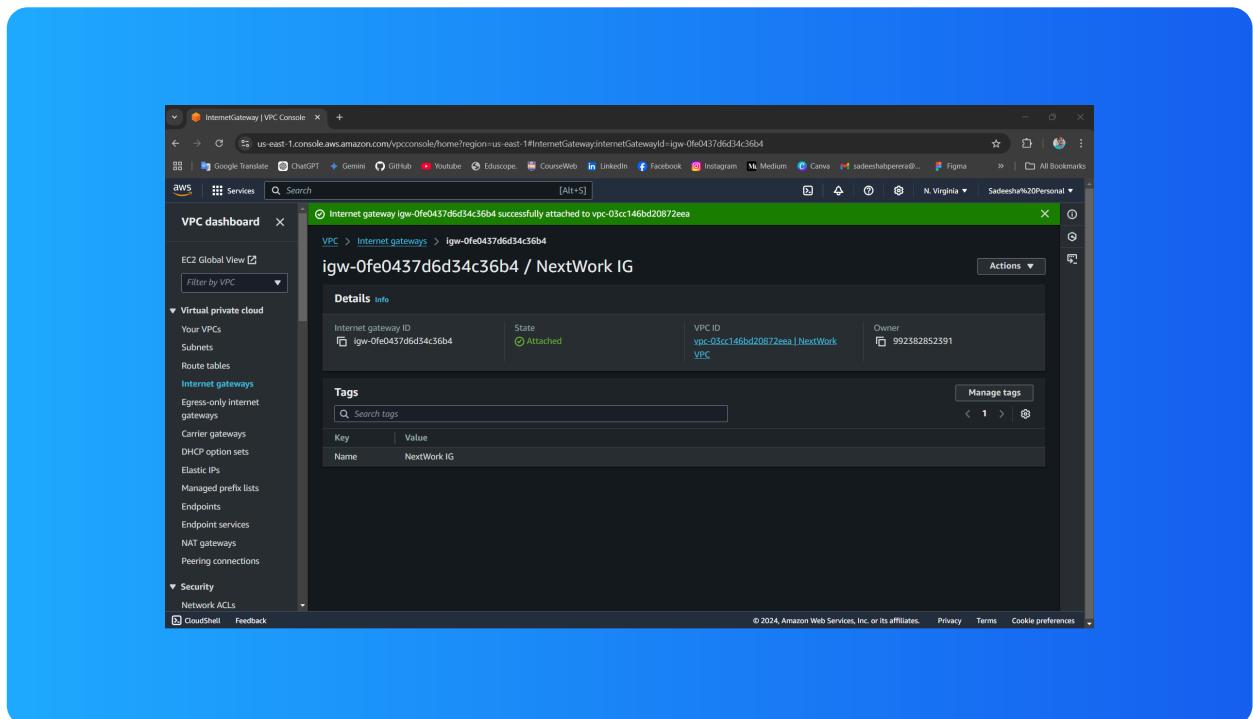
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# Internet gateways

Internet gateways are facilitating communication between the inside of your VPC and the outside world (internet).

Attaching an internet gateway to a VPC means that I am allowing the VPC-hosted resources to communicate with external networks.





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