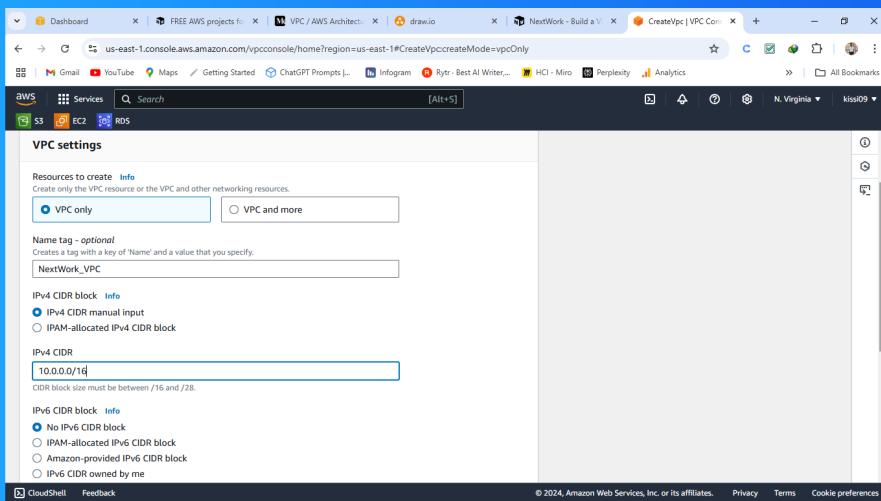




Build a Virtual Private Cloud



Emmanuel Kissi-Addo





Emmanuel Kissi-Addo
NextWork Student

NextWork.org

Introducing Today's Project!

What is Amazon VPC?

Amazon VPC allows users to create virtual networks within an AWS region ; these virtual networks can have availability zones and subnets that allow communication to the internet via internet gateways

How I used Amazon VPC in this project

I used an amazon VPC to create a public subnet attached to an Internet gateway so that the resources in my public subnets can access the internet

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

I didn't really expect us to use NAT gateways because private subnets weren't required in this project

This project took me...

less than 20 minutes

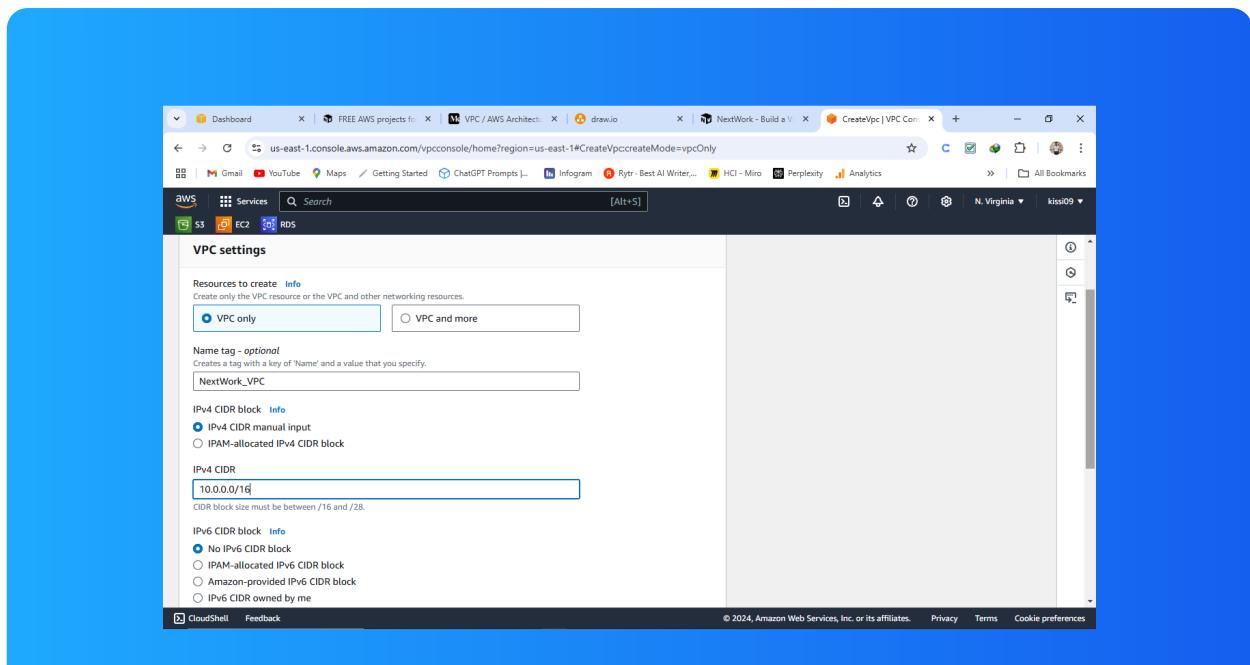


Virtual Private Clouds (VPCs)

VPCs are virtual environments that allow you to host other virtual network within that environment ; those virtual environments could be private or public subnet within availability zones

There is default VPC because; users usually forget to create VPC before launching either an instance or another service on AWS ; so the default vpc is there to help users get started

i had to set up a classless interdomain routing block which has as many IP address that the VPC can allocate to other public subnets ; note the CIDR block should have many ip addresses than the subnets with the various availability zones





Subnets

Subnets are networks within network ; they are logical networks with a network having separate broadcast domains

There are already subnets existing in my account, one for every default VPC that is created for your account ; but of course that default subnet can be configured or even replaced with a user defined subnet that has the right address allocation .

I named my subnet Public 1, but that doesn't automatically make my subnet a public subnet. For a subnet to be considered public, it has to be attached to an Internet gateway to allow the IP address to access the internet

The screenshot shows the AWS VPC dashboard with a success message: "You have successfully changed subnet settings: Enable auto-assign public IPv4 address". The "Subnets (1/1) info" table lists a single subnet:

Name	Subnet ID	State	VPC	IPv4 CIDR
Public 1	subnet-04feae0548c070cb4	Available	vpc-048c749629d151411 Nex...	10.0.0.0/24

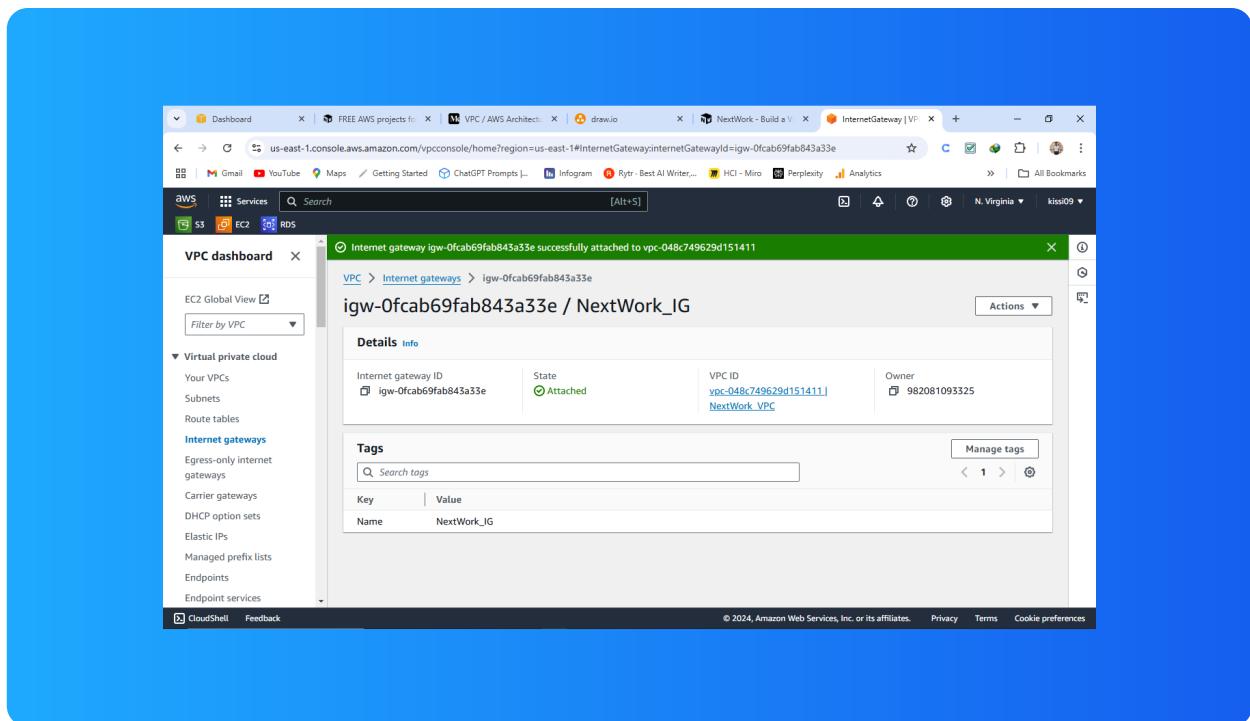
Below the table, the "Details" section shows the subnet's configuration with the "State" field set to "Available".



Internet gateways

Internet gateway are like sentinels that guard network they have the role of determining whether public subnets can access the internet or not by attaching a Internet gateway to your public subnet ; subnets can now communicate with external networks

'Attaching an internet gateway to a VPC means that your resources in the vpc can now access the internet





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