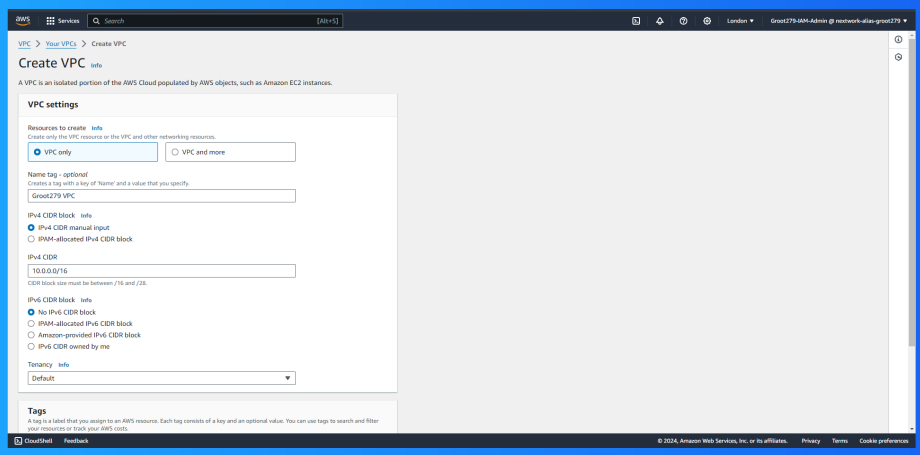
NextWork.org

Build a Virtual Private Cloud

TA tahirgroot@gmail.com



TA
tahirgroot@gmail.com
NextWork Student
NextWork.org

Introducing Today's Project!

What is Amazon VPC?

Amazon VPC (Virtual Private Cloud) is a virtual networking environment within AWS that gives you full control over your network resources, including IP address ranges, subnets, route tables, and security settings.

How I used Amazon VPC in this project

Create a AWS VPC: This will be our isolated network environment. Create a public subnet: This will allow instances to access the internet. Create an internet gateway: This will connect our VPC to the internet.

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

Default vpc and internet gateway

This project took me...

44 minutes

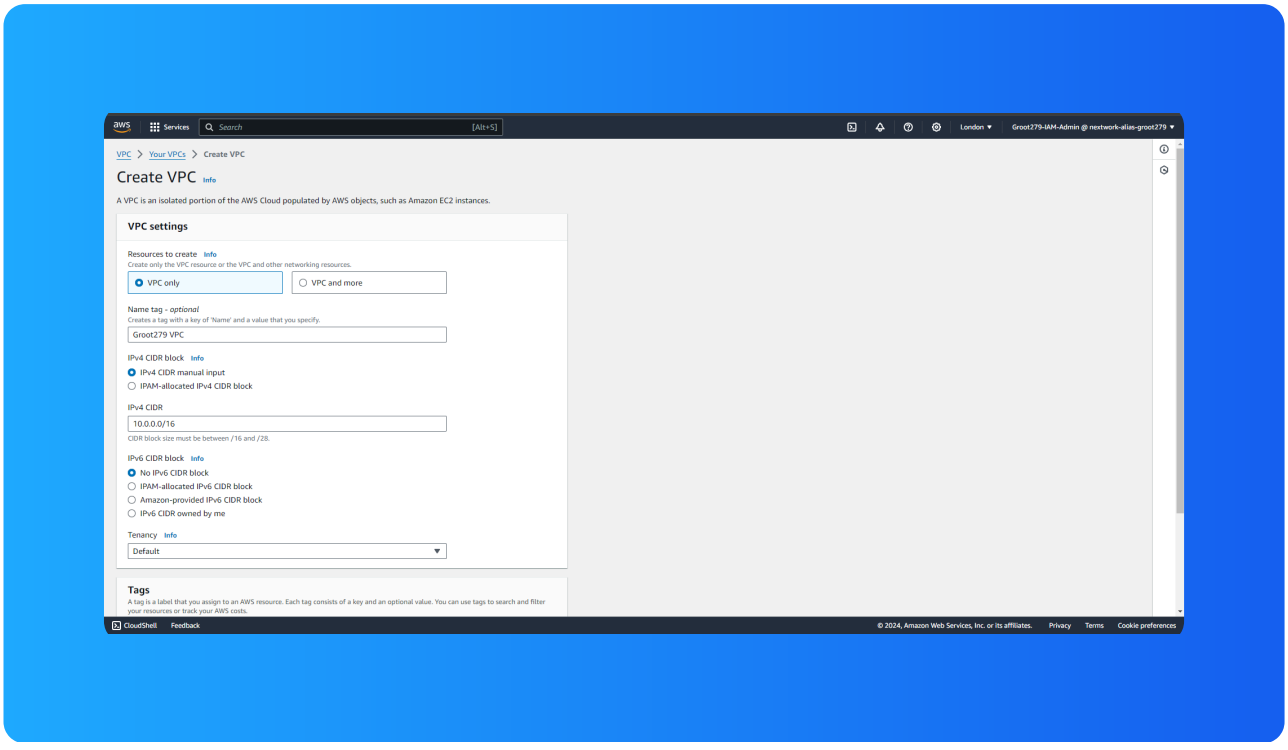
TA
tahirgroot@gmail.com
NextWork Student

Virtual Private Clouds (VPCs)

VPCs are isolated virtual networks within AWS, providing secure environments for running resources like EC2 instances, databases, and more.

There was already a default VPC in my account ever since my AWS account was created. This is because AWS provides a preconfigured VPC to quickly launch like ec2 or rds db without the need to manually set up a network environment.

To set up my VPC, I had to define an IPv4 CIDR, which means specifying a range of IP addresses that will be used for resources within the VPC. It's like assigning a specific address space for my virtual network.



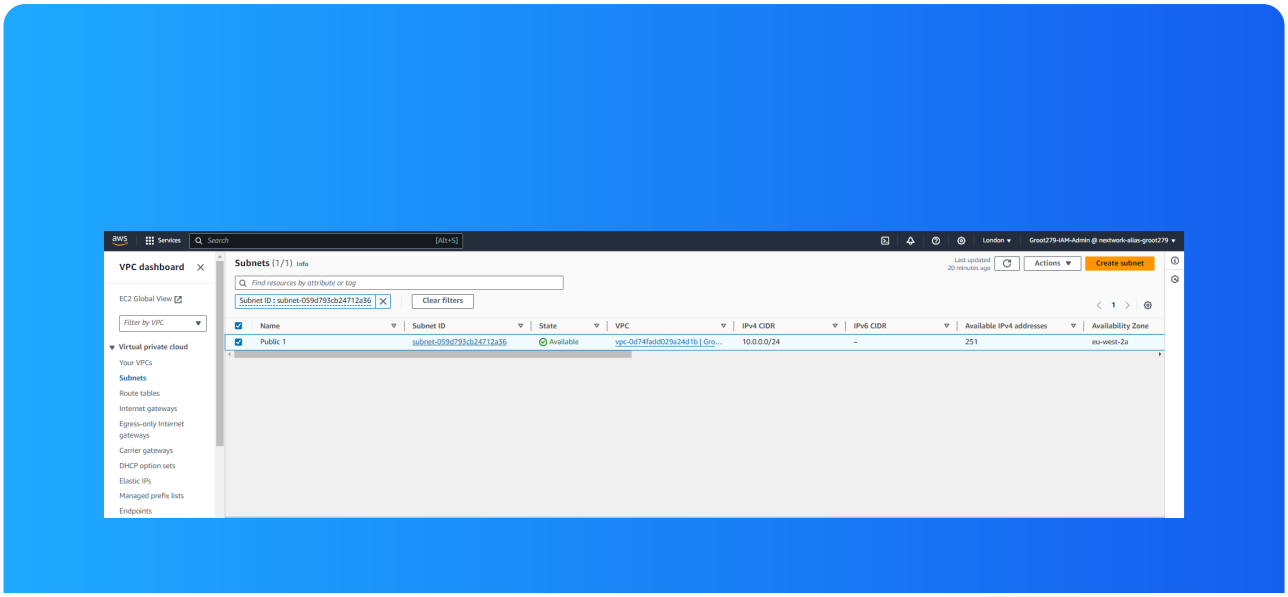
TA
tahirgroot@gmail.com
NextWork Student

Subnets

Subnets are smaller divisions within a VPC, allowing for better organization and control of resources. They define IP address ranges for specific groups of instances, improving network efficiency and security.

There are already subnets existing in my account, one for every Availability Zone within the default VPC. This is to provide a basic network setup for immediate resource launching, making it convenient to get started with AWS services.

I named my subnet Public 1, but that doesnâ t automatically make my subnet a public subnet. For a subnet to be considered public, it has to be associated with a route table that includes a route to an Internet Gateway. Without this connection, the sub

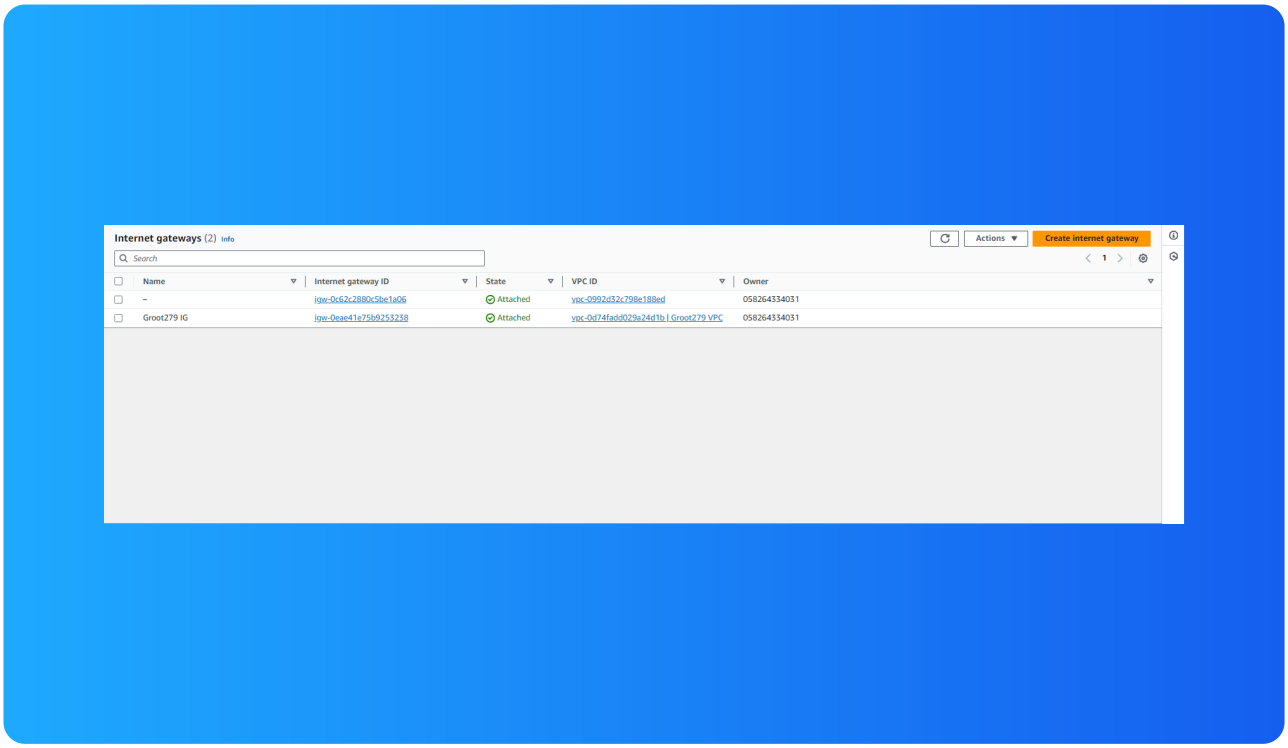


TA
tahirgroot@gmail.com
NextWork Student

Internet gateways

Internet gateways are virtual devices in AWS that connect your VPC to the internet. They allow instances in your public subnets to access the internet and receive incoming connections from the internet.

Attaching an internet gateway to a VPC means enabling internet connectivity for instances within your public subnets. It allows outbound traffic from your VPC to the internet and inbound traffic to instances with public IP addresses.



Everyone should be in a job they love.

Check out nextwork.org for more projects