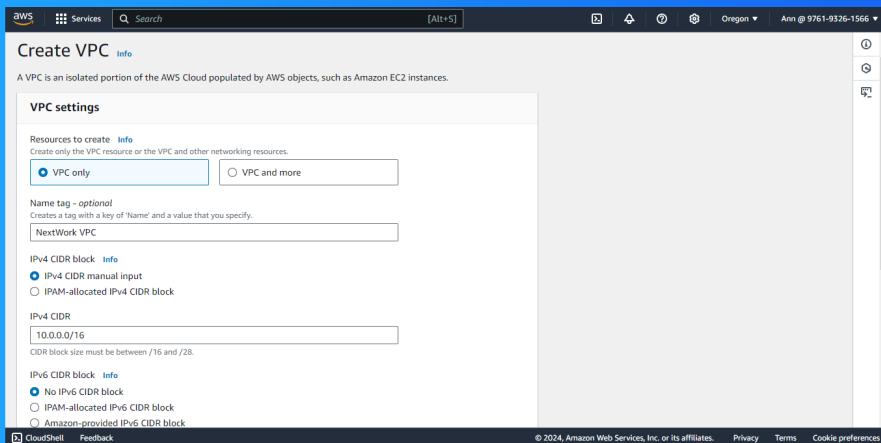




Build a Virtual Private Cloud



Ann Dwamena





Introducing Today's Project!

What is Amazon VPC?

Amazon VPC is private city in the cloud where you can keep and run your cloud resources safely It is useful because if VPCs didn't exist, every single AWS resource ever created would be thrown into one big open space in the AWS Cloud.

How I used Amazon VPC in this project

I used it to create a public subnet

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

It so easy with the guide

This project took me...

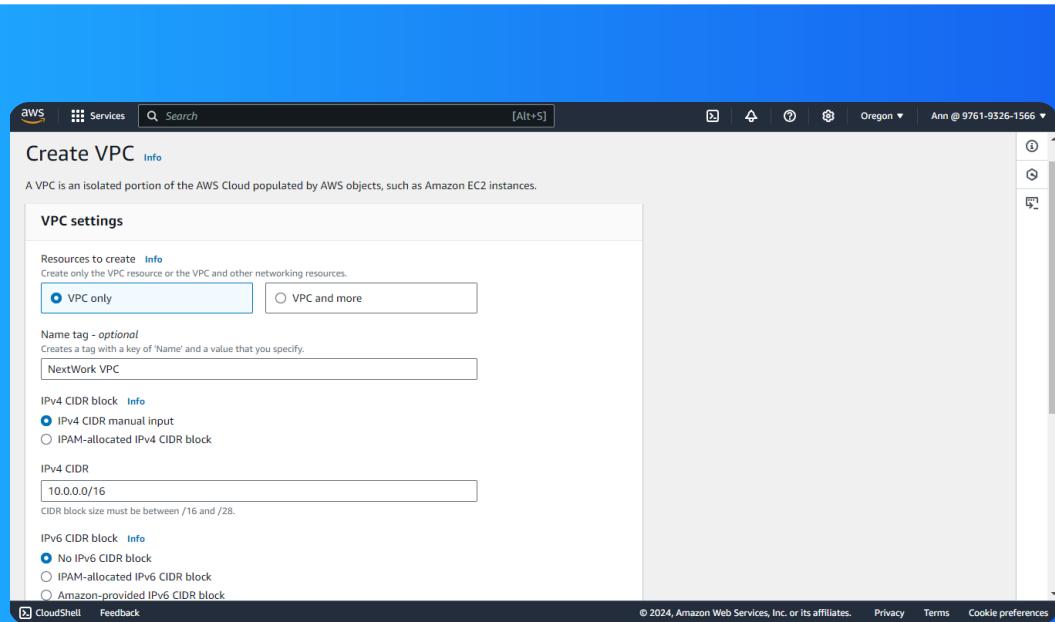
60 minutes

Virtual Private Clouds (VPCs)

VPCs are isolated sections of the AWS Cloud that help to keep AWS resources private and secure.

There was already a default VPC in my account ever since my AWS account was created. This is because AWS has set up a default VPC to allow deploy EC2 instances and RDS databases without having to create a VPC from scratch.

To set up my VPC, I had to define an IPv4 CIDR, which means a range of IP addresses that my VPC can allocate to the resources deployed into my VPC.

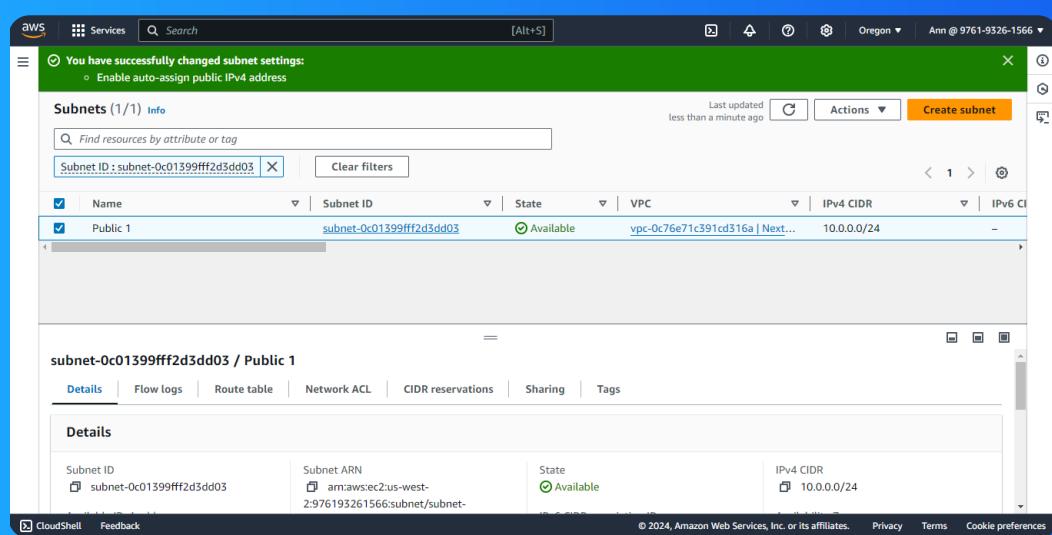


Subnets

Subnets are subsections of a VPC. If your VPC is a city, subnets are like different neighborhoods inside your city.

There are already subnets existing in my account, one for every Availability Zone in the region selected.

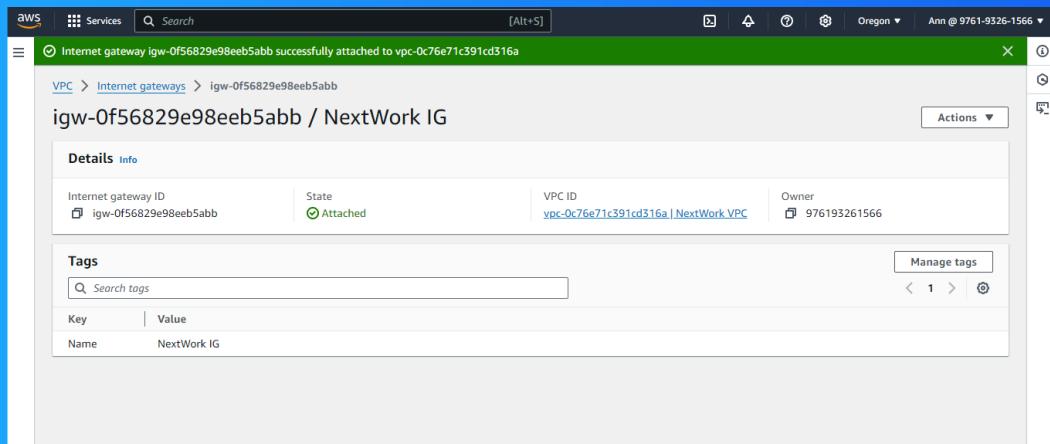
I named my subnet Public 1, but that doesn't automatically make my subnet a public subnet. For a subnet to be considered public, it has to have a route to an internet gateway.



Internet gateways

Internet gateways are the key VPC components that allows internet access for the resources in my subnet.

Attaching an internet gateway to a VPC means resources in your VPC can now access the internet. The EC2 instances with public IP addresses also become accessible to users, so your applications hosted on those servers become public too.





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