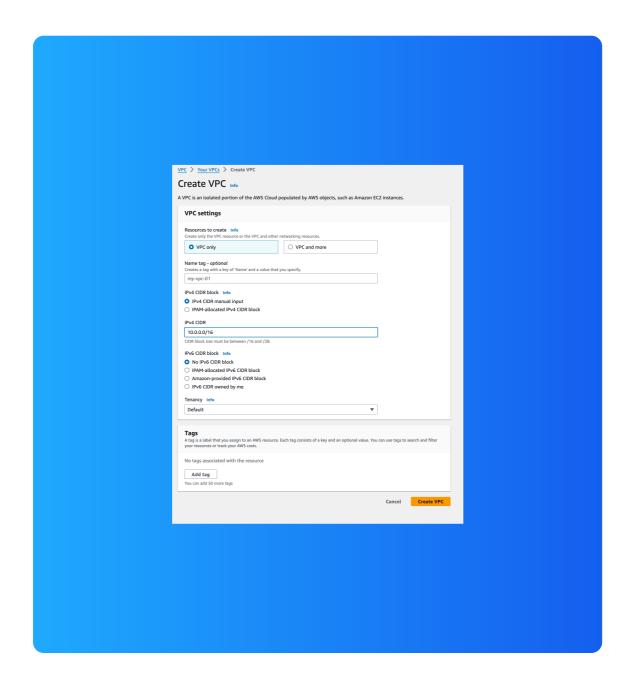


# **Build a Virtual Private Cloud**







# **Introducing Today's Project!**

#### What is Amazon VPC?

Virtual Private Cloud (VPC) helps me to create my own private space that contains my own resources in the big AWS clould.

#### How I used Amazon VPC in this project

I created a new VPC, and set up a public subnet in it. I also attached a Internet Gateway to this VPC.

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

I learned something new about IPv4 CIDR.

#### This project took me...

Round 1 hour

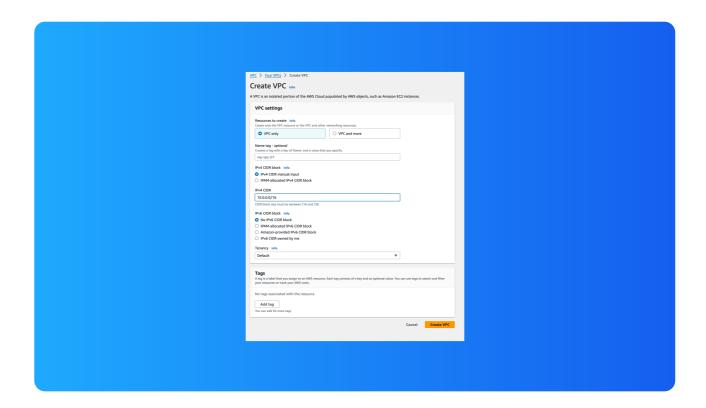


## Virtual Private Clouds (VPCs)

Virtual Private Cloud (VPC) is like managing your own city inside the whole AWS clould country. It's like having a fenced-off piece of land online.

AWS provides a default VPC in each AWS account to help users to quickly get started such as creating an EC2 instance straight away without worrying about setting up a VPC.

I need to set up a block of IP addresses that follow the IPv4 standard.



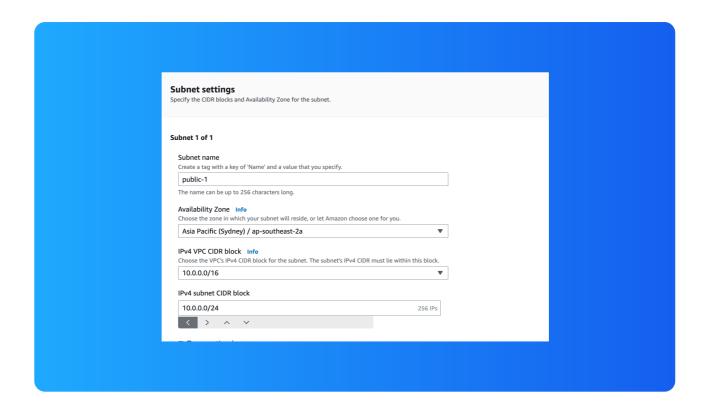


#### **Subnets**

If the VPC is like a city, subnets are like different neighborhoods inside the city. You use subnets to group resources with similar access rules and restrictions.

There are already subnets existing in my account, one for every Availability Zone of a Region.

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 enable the auto-assign public IP address feature for the subnet or assign it manually.

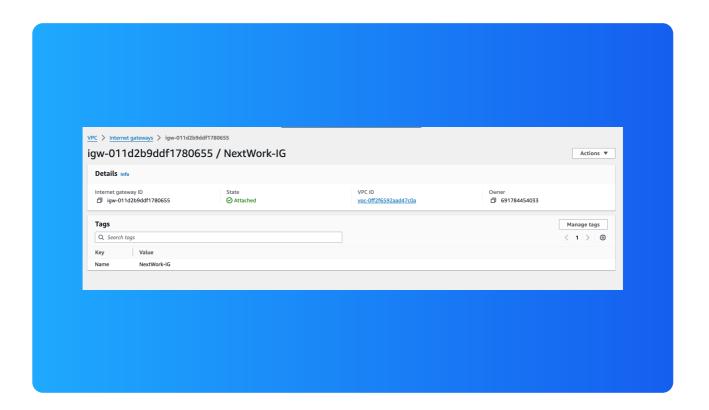




## Internet gateways

Internet gateways are the main entrance gate to the VPC. It allows data from the internet to enter and exit, facilitating communication between the VPC and the internet.

Attaching an internet gateway to a VPC means that the resources in the VPC can have access to the internet and be accessible to external users.







# Everyone should be in a job they love.

Check out <u>nextwork.org</u> for more projects

