



Build a Virtual Private Cloud



Ivan Delgadillo Fernandez

VPC settings

Resources to create [Info](#)

Create only the VPC resource or the VPC and other networking resources.

VPC only

VPC and more

Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify.

Nextwork VPC

IPv4 CIDR block [Info](#)

- IPv4 CIDR manual input
- IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/16

CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)

- No IPv6 CIDR block
- IPAM-allocated IPv6 CIDR block
- Amazon-provided IPv6 CIDR block
- IPv6 CIDR owned by me

Tenancy [Info](#)

Default



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Introducing Today's Project!

What is Amazon VPC?

Amazon Virtual Private Cloud (Amazon VPC) gives you full control over your virtual networking environment, including resource placement, connectivity, and security

How I used Amazon VPC in this project

I use VPC to create a subnet public with internet gateway

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

defaults subnets

This project took me...

30 minutes



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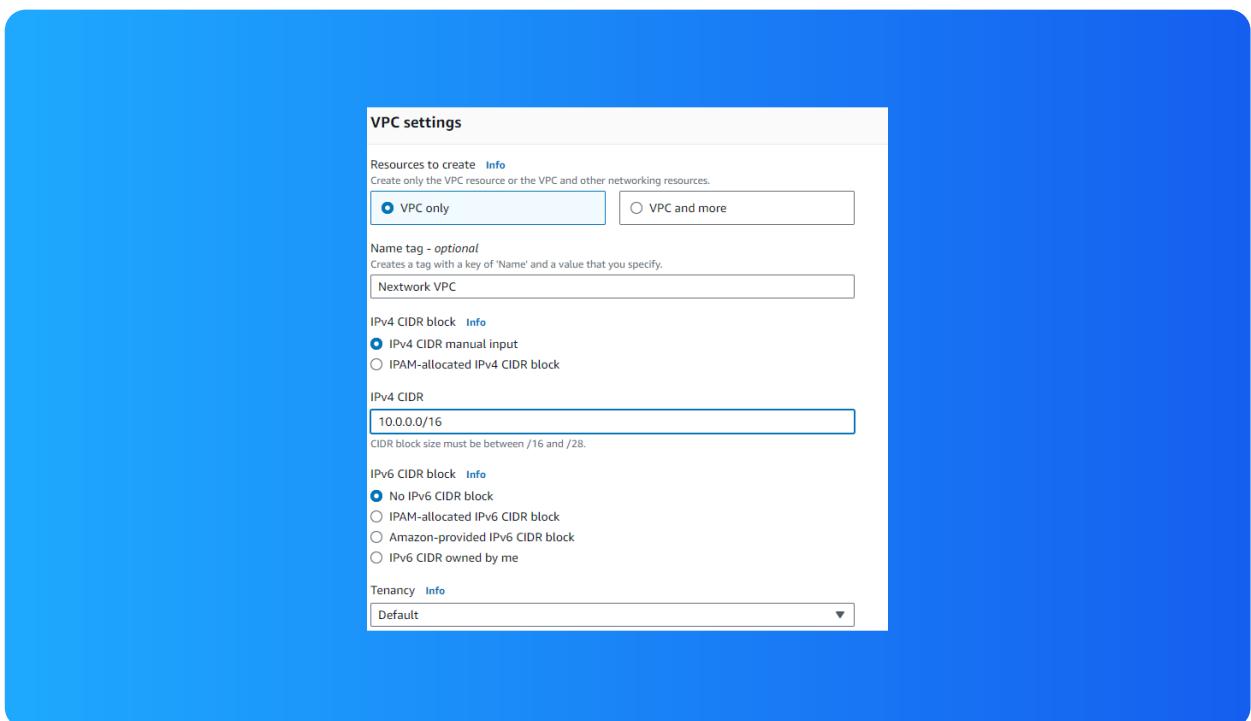
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Virtual Private Clouds (VPCs)

VPCs are a Virtual Private Network enables you to build a virtual network in the AWS cloud

AWS provides a default VPC in each AWS account to help you quickly get started! This default VPC allows you to launch resources and test AWS services without needing to set up a VPC from scratch

To set up my VPC, I had to define an IPv4 CIDR, which means 10.0.0.0/16





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Subnets

Subnets are a part of VPN or network, its created to separate areas and make networks more efficient.

By default, a default subnet is a public subnet, because the main route table sends the subnet's traffic that is destined for the internet to the internet gateway.

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 connect to internet gateway.

Subnets (1/7) Info					
Create subnet					
Actions Last updated 1 minute ago					
Find resources by attribute or tag					
Name	Subnet ID	State	VPC	IPv4 CIDR	
-	subnet-087b1f15c38e82f59	Available	vpc-09e590b2738c761ee	172.31.80.0/20	
-	subnet-0553193cd4b1ac642	Available	vpc-09e590b2738c761ee	172.31.64.0/20	
-	subnet-0108693db0dac408b	Available	vpc-09e590b2738c761ee	172.31.32.0/20	
-	subnet-0460d97dadec1bec2	Available	vpc-09e590b2738c761ee	172.31.48.0/20	
-	subnet-0761eb63719fac86f	Available	vpc-09e590b2738c761ee	172.31.16.0/20	
-	subnet-05c295f2d7b854dc2	Available	vpc-09e590b2738c761ee	172.31.0.0/20	
<input checked="" type="checkbox"/> Public 1	subnet-0cadbac3212fea963	Available	vpc-00ecd610fe53e88c2 Next...	10.0.0.0/24	



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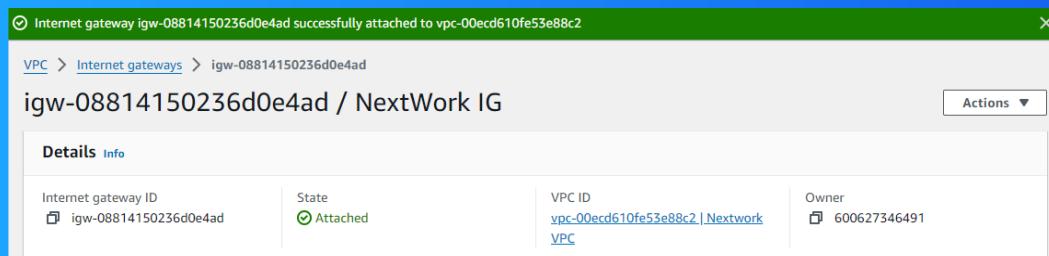
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Internet gateways

An internet gateway is like the main entrance gate to your city. It allows visitors (data from the internet) to enter and exit, facilitating communication between the inside of your city (VPC) and the outside world (internet)

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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