



Build a Virtual Private Cloud

0 Osman Kpaka

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

Introducing Today's Project!

What is Amazon VPC?

Amazon VPC lets you create a secure, isolated network in AWS, control IP ranges, subnets, routing, and internet access, and define security policies for your cloud resources.

How I used Amazon VPC in this project

In my project, I created a VPC and connected it to the internet through an Internet Gateway.

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

One thing I didn't expect was learning about CIDR notation. I discovered how the prefix (e.g., /24) determines the size of a network, affecting the number of available IP addresses. It was crucial for subnetting and optimizing network configurations.

This project took me...

Around an hour

Virtual Private Clouds (VPCs)

A Virtual Private Cloud (VPC) is a secure, isolated network within a cloud provider's infrastructure that allows you to launch and manage resources (such as virtual machines, databases, and storage) in a private environment.

The default VPC is a convenience that makes it easier to get started with AWS services, especially if you don't need custom network setups right away. However, for more advanced or isolated architectures, you may choose to create a custom VPC.

a notation used to represent an IP address range in IPv4 networking. It combines an IP address with a prefix length, specifying both the network address and how many bits are used for the network portion of the address.

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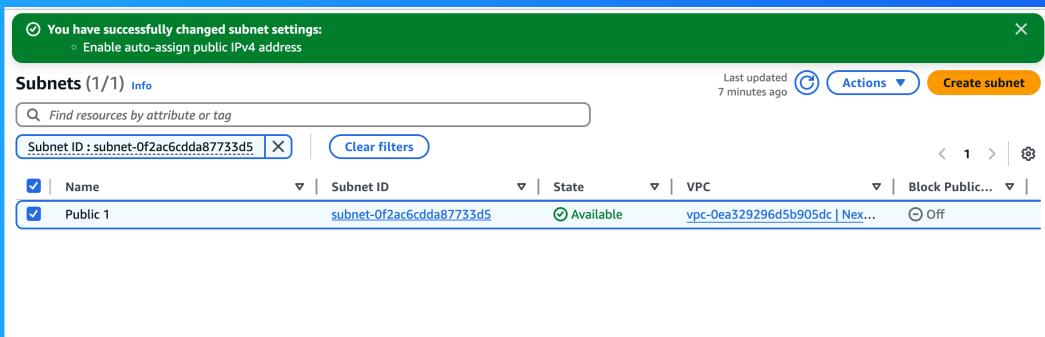
Tenancy [Info](#)
Default ▾

Subnets

subnet (subnetwork) is a smaller, logically divided portion of a larger IP network. It helps organize, secure, and optimize network traffic by breaking a large network into manageable segments.

Enabling Auto-assign IPv4 addresses in AWS or a similar cloud environment automatically assigns a public IPv4 address to instances launched in a public subnet. This is useful for instances that need to be directly accessible from the internet.

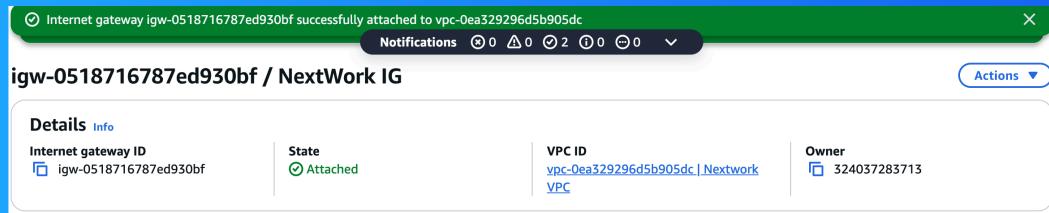
A public subnet has direct access to the internet allowing resources like web servers to communicate with external networks. A private subnet is isolated from the internet, and resources like databases only communicate within the VPC.



Internet gateways

a component in AWS that allows instances in a VPC to communicate with the internet. It acts as a bridge, enabling public subnets to send and receive traffic to and from the internet

enabling direct communication between resources in that VPC (typically in public subnets) and the internet.





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