



Build a Virtual Private Cloud

SH

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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.

IPv4 CIDR block [Info](#)
 IPv4 CIDR manual input IPAM-allocated IPv4 CIDR block

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](#)

Introducing Today's Project!

What is Amazon VPC?

Amazon VPC allows you to create an isolated, secure network in the AWS cloud, giving you control over IP ranges, subnets, etc. It enhances security, enables hybrid cloud setups, and lets you scale resources while ensuring privacy and flexibility

How I used Amazon VPC in this project

I utilized Amazon VPC to create a subnet within the network and established a connection between the VPC and an internet gateway.

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

The project was completed more efficiently than anticipated.

This project took me...

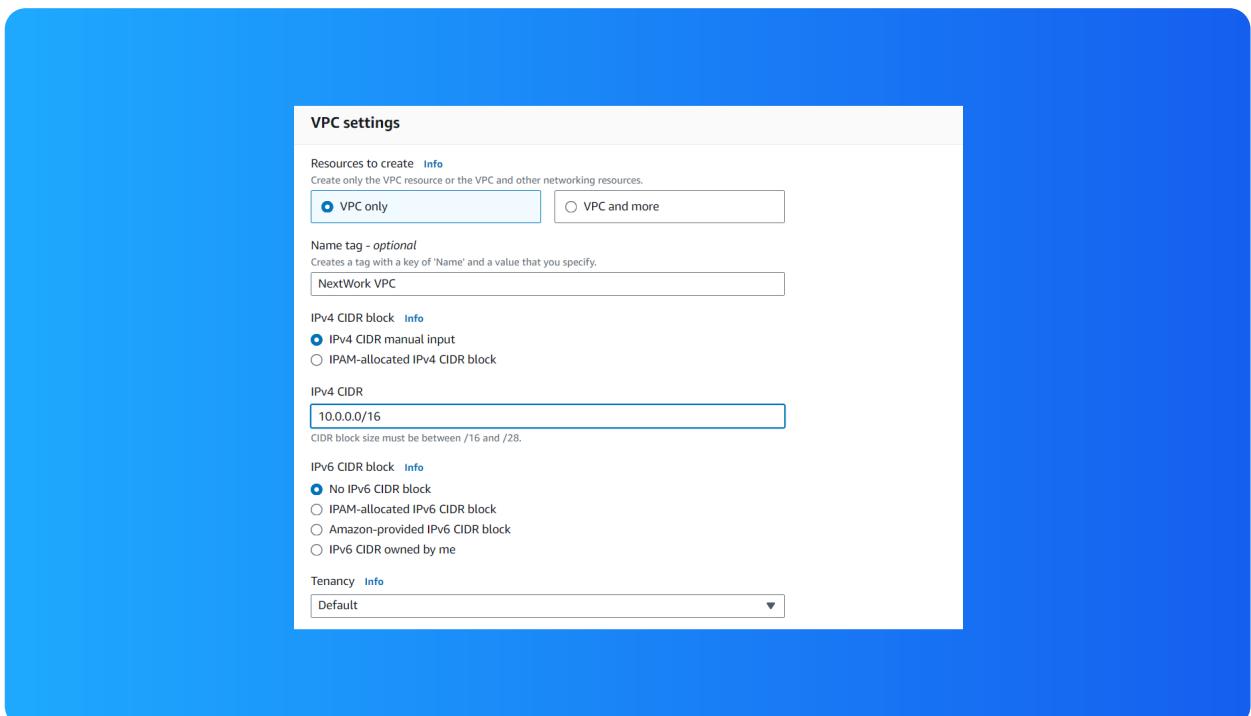
The entire process took me approximately 60 minutes.

Virtual Private Clouds (VPCs)

VPCs are logically isolated sections of the AWS cloud that help to keep a user's AWS resources, such as EC2 instances, 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 me to immediately launch resources without needing to manually set up networking infrastructure.

To set up my VPC, I had to define an IPv4 CIDR, which specifies a range of IP addresses that can be used within the VPC. These IP addresses can be allocated to the resources deployed into my VPC.



Subnets

Subnets are subsections of a VPC, where each subnet has its own unique range of IP addresses. This allows for better organization and security.

There are already subnets existing in my account, one for every Availability Zone in the Region where I have set up my VPC. Since my region is Mumbai (ap-south-1), which has three Availability Zones, I have three default subnets.

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 be connected to an internet gateway.

Subnets (1/4) Info					
<input type="text"/> Find resources by attribute or tag					
Name	Subnet ID	State	VPC	IPv4 CIDR	
<input type="checkbox"/> -	subnet-054916c9f67868998	Available	vpc-097a026dfa32e4b40	172.31.32.0/20	Actions Create subnet
<input type="checkbox"/> -	subnet-0643eeb5289ecab5d	Available	vpc-097a026dfa32e4b40	172.31.16.0/20	Actions Create subnet
<input type="checkbox"/> -	subnet-06e4f296b60af5a43	Available	vpc-097a026dfa32e4b40	172.31.0.0/20	Actions Create subnet
<input checked="" type="checkbox"/> Public 1	subnet-08a8116552b55038a	Available	vpc-0359f7b115165f84e Next...	10.0.0.0/24	Actions Create subnet

Internet gateways

Internet gateways are the key VPC components that allows internet access for the resources in my VPC/subnet. Through an internet gateway, users in the public can access my resources in a public 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.

Internet gateway lgw-0956e982891faaac successfully attached to vpc-0359f7b115165f84e					
Internet gateways (2) Info					
<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	-	igw-01893b53c0dd20988	Attached	vpc-097a026dfa32e4b40	975050239788
<input type="checkbox"/>	NextWork IG	igw-0956e982891faaac	Attached	vpc-0359f7b115165f84e NextWork VPC	975050239788



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