



Build a Virtual Private Cloud



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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.
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

Introducing Today's Project!

What is Amazon VPC?

Amazon VPC is a private isolated network in the cloud where you can securely run resources like servers and databases. Its useful because it gives full control over network settings, security, and connectivity to the internet.

How I used Amazon VPC in this project

Today I used Amazon VPC to create a subnet and a Internet gateway to get communication from my private network to the internet.

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

One thing I didnt expect was the AWS already created a default VPC with subnet and internet gateway.

This project took me...

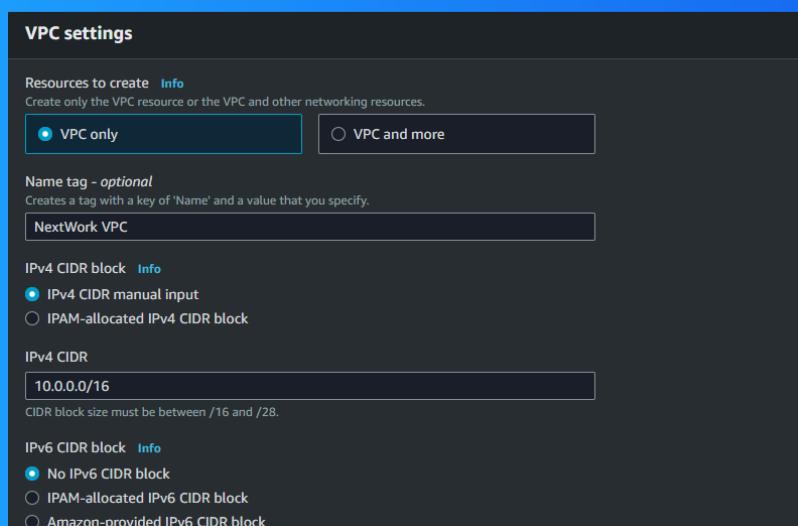
I took 1 hour with this project.

Virtual Private Clouds (VPCs)

VPCs are isolated network environments in AWS that enable secure control over resources, IP address ranges and subnets for cloud applications.

There was already a default VPC in my account ever since my AWS account was created. This is because AWS provides a default VPC in each AWS account to help you quickly get started.

To set up my VPC, I had to define an IPv4 CIDR, which means define IP address ranges in a network. It specifies both the base IP address and the number of bits used for the network prefix helping to allocate and organize IP addresses efficiently.



Subnets

Subnets are subdivisions within a network that help organize and control traffic flow by isolating groups of resources within defined IP address ranges.

There are already subnets existing in my account, one for every availability zones.

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 an Internet gateway.

Subnets (1/4) Info					
Last updated 2 minutes ago C Actions Create subnet					
Name		Subnet ID	State	VPC	IPv4 C
<input type="checkbox"/>	-	subnet-0cb52e5ba3e3ebc85	Available	vpc-0d47ab7e1293ac606	172.31
<input checked="" type="checkbox"/>	Public 1	subnet-02be28d7b12314880	Available	vpc-0b361a0d978e0348a Nex...	10.0.0
<input type="checkbox"/>	-	subnet-007f39de719b9d695	Available	vpc-0d47ab7e1293ac606	172.31
<input type="checkbox"/>	-	subnet-01218920a3c98b283	Available	vpc-0d47ab7e1293ac606	172.31

subnet-02be28d7b12314880 / Public 1

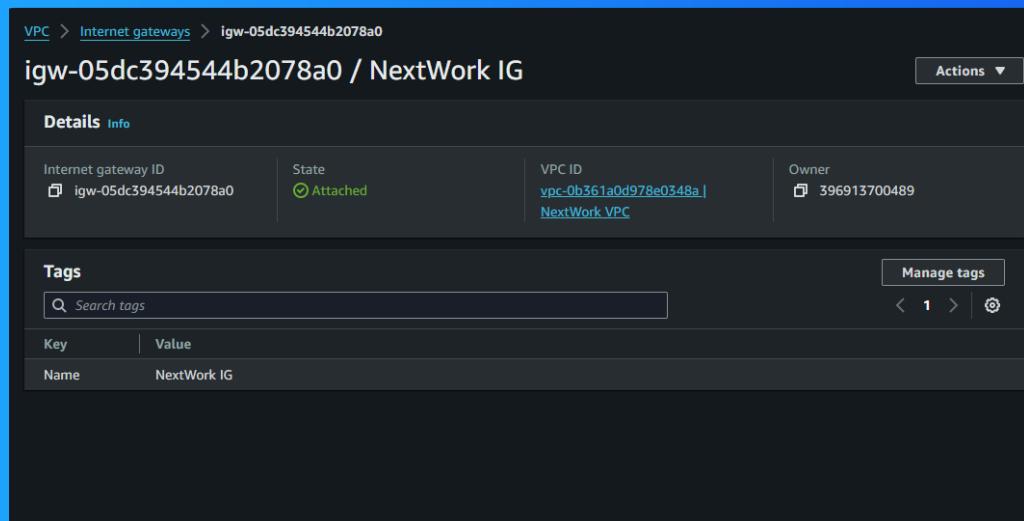
[Details](#) [Flow logs](#) [Route table](#) [Network ACL](#) [CIDR reservations](#) [Sharing](#) [Tags](#)

Details			
Subnet ID subnet-02be28d7b12314880	Subnet ARN arn:aws:ec2:eu-west-3:396913700489:subnet/subnet-02be28d7b12314880	State Available	IPv4 CIDR 10.0.0.0/24
Available IPv4 addresses		IPv6 CIDR association ID	Availability Zone

Internet gateways

Internet gateways are gateways that allow communication between a VPC and the internet.

Attaching an internet gateway to a VPC means enabling the VPC to route traffic to and from the internet allowing resources within the VPC to communicate externally.





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