



Build a Virtual Private Cloud



Ronson Lobo

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

IPv4 CIDR

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](#)



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Introducing Today's Project!

What is Amazon VPC?

Amazon Virtual Private Cloud (VPC) is a virtual network that allows users to launch Amazon Web Services (AWS) resources into a defined virtual network. It's similar to a traditional network, but with the benefits of AWS's scalable infrastructure.

How I used Amazon VPC in this project

I created a VPC and had a subnet assigned to it and provided a internet gateway for connection

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

I was already aware of this project

This project took me...

I was able to complete this project in 30 mins

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Virtual Private Clouds (VPCs)

A Virtual Private Cloud (VPC) is a private cloud computing environment that's hosted within a public cloud. VPCs provide a secure and isolated environment for organizations to host resources without exposing them to the public internet.

There was already a default VPC in my account ever since my AWS account was created. This is because to help you get started quickly and launch AWS resources without having to configure a custom VPC:

An IPv4 CIDR block is a range of IP addresses that follow the IPv4 standard and use Classless Inter-Domain Routing (CIDR) notation:

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NextWork VPC

IPv4 CIDR block [Info](#)
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IPv4 CIDR
10.0.0.0/16

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

IPv6 CIDR block [Info](#)
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Tenancy [Info](#)
Default



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Subnets

A subnet, or subnetwork, is a logical division of a larger network into smaller, more manageable segments.

There are already subnets existing in my account, one for every to help users get started quickly

A subnet in Amazon Virtual Private Cloud (VPC) is not considered a public subnet if it does not have a direct route to an internet gateway

The screenshot shows the AWS VPC Subnets page with a success message: "You have successfully changed subnet settings: Enable auto-assign public IPv4 address". The subnet details are as follows:

Details			
Subnet ID subnet-05354c978a39e6177	Subnet ARN arn:aws:ec2:ap-south-1:116981788652:subnet/subnet-05354c978a39e6177	State Available	IPv4 CIDR 10.0.0.0/24
Available IPv4 addresses 251	IPv6 CIDR -	IPv6 CDR association ID -	Availability Zone ap-south-1a
Availability Zone ID aps1-az1	Network border group ap-south-1	VPC vpc-0c1d88a073cf87eb NextWork VPC	Route table -
Network ACL -	Default subnet No	Auto-assign public IPv4 address Yes	Auto-assign IPv6 address No
Auto-assign customer-owned IPv4 address No	Customer-owned IPv4 pool -	Outpost ID -	IPv4 CIDR reservations -
IPv6 CIDR reservations -	IPv6-only No	Hostname type IP name	Resource name DNS A record Disabled

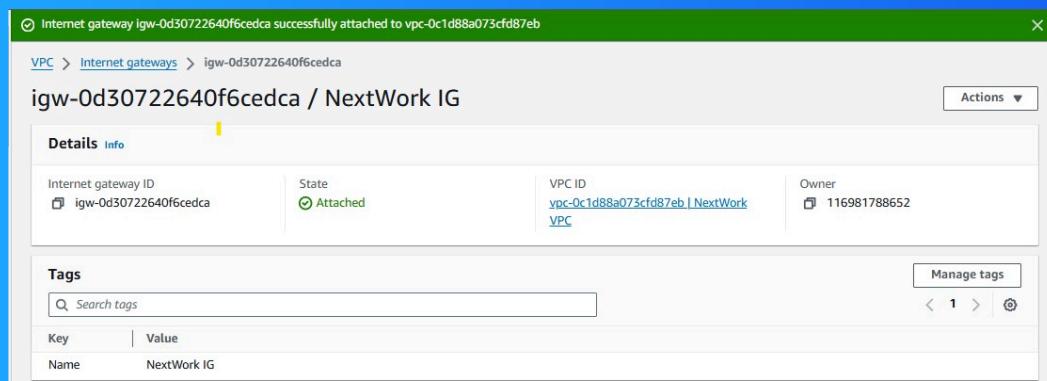
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Internet gateways

An internet gateway is a device that connects a network to the internet

Attaching an internet gateway (IGW) to a virtual private cloud (VPC) allows communication between the VPC and the internet





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