



Launching VPC Resources



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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 auto-generation [Info](#)
Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.
 Auto-generate
nextwork

IPv4 CIDR block [Info](#)
Determine the starting IP and the size of your VPC using CIDR notation.
10.0.0.0/16 65,536 IPs
CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)
 No IPv6 CIDR block Amazon-provided IPv6 CIDR block

Tenancy [Info](#)
Default

Preview

VPC [Show details](#)
Your AWS virtual network
nextwork-vpc

Subnets (6)
Subnets within this VPC

eu-west-3a
nextwork-subnet-public1-eu-west-
nextwork-subnet-private1-eu-west-
nextwork-subnet-private3-eu-west-

eu-west-3b
nextwork-subnet-public2-eu-west-
nextwork-subnet-private2-eu-west-
nextwork-subnet-private4-eu-west-

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. It's 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 learned to launch VPC resources.

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

One thing I didnt expect was you can create VPC from different ways like from scratch or from map resources.

This project took me...

I took around 2 hours with this project

Setting Up Direct VM Access

Directly accessing a virtual machine means connecting through a protocol like SSH using a key pair a virtual machine.

SSH is a key method for directly accessing a VM

SSH traffic means encrypted data transferred over a network using the Secure Shell (SSH) protocol for secure remote access.

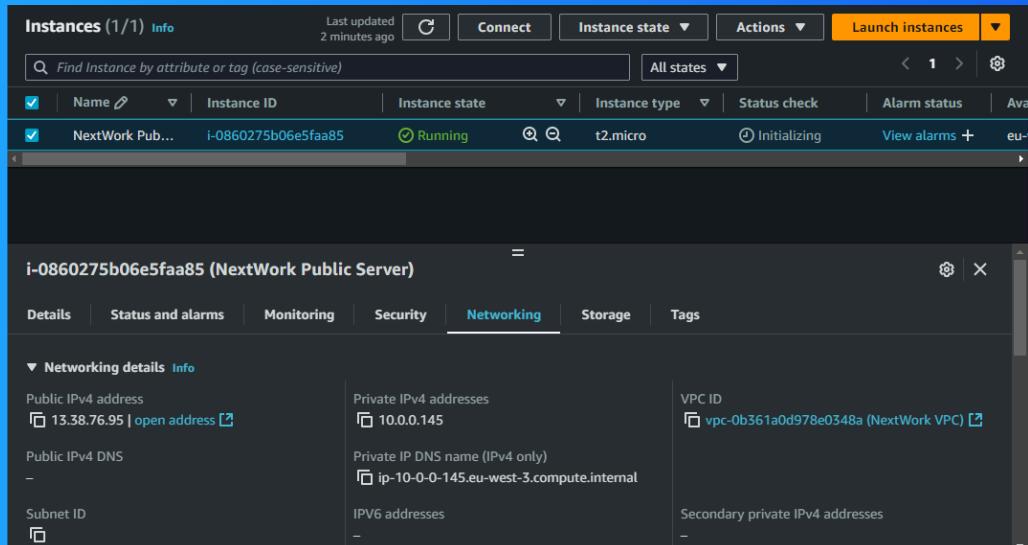
To enable direct access, I set up key pairs

Key pairs are used to access to the EC2 instance.

A private key file format refers to the specific structure and encoding of a private key used in cryptography, such as PEM, DER, or OpenSSH. My private keys file format was ".pem".

Launching a public server

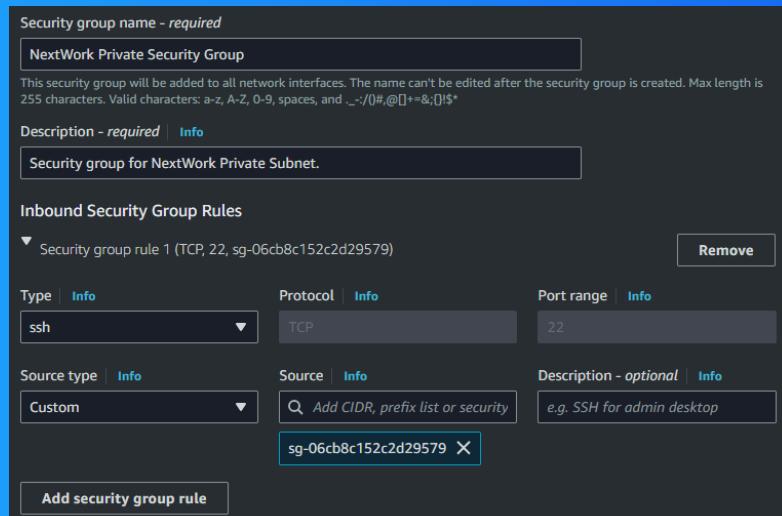
I had to change my EC2 instance's networking settings by NextWork VPC and the NextWork Public Subnet as it come set to the VPC that AWS creates by default.



Launching a private server

My private server has its own dedicated security group because I want only resources that are part of this security group communicate with the server.

My private server's security group's source is custom which means that i select what defines the inbound rules, in this case the private network security group.



Speeding up VPC creation

I used an alternative way to set up an Amazon VPC! This time, I used the option VPC with map resources.

A VPC resource map is a visual representation of resources within a VPC showing the layout and connections between components like subnets, route tables, gateways and instances.

My new VPC has a CIDR block of 10.0.0.0/24 for public subnet and 10.0.1.0/24 for private. It is possible for my new VPC to have the same IPv4 CIDR block as my existing VPC because they are isolated from each other by default.

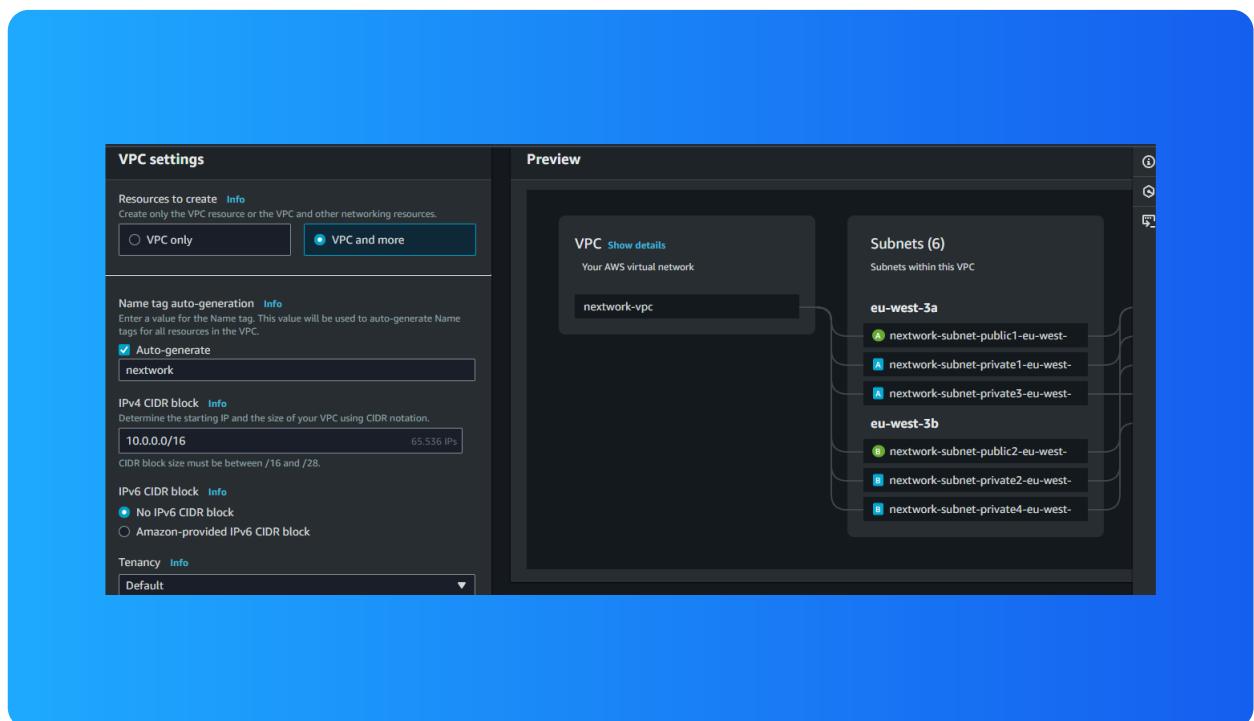


Speeding up VPC creation

Tips for using the VPC resource map

When determining the number of public subnets in my VPC, I only had two options: 0 or 2. This was because AWS ensure you have high availability with a minimum of 2 AZ. You have one public subnet in each AZ.

The set up page also offered to create NAT gateways, which are access from the private subnet to the internet blocking all inbound traffic.





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