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Build a Virtual Private Cloud (VPC)



ucbethuel

The screenshot shows the 'Create VPC' wizard in the AWS Management Console. The current step is 'VPC settings'. The 'Resources to create' section is set to 'VPC only'. A 'Name tag - optional' field contains 'NextWork VPC'. Under 'IPv4 CIDR block', 'IPv4 manual input' is selected, and the CIDR block '10.0.0.0/16' is entered. Under 'IPv6 CIDR block', 'No IPv6 CIDR block' is selected.

OR

ucbethuel
NextWork Student

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Introducing Today's Project!

What is Amazon VPC?

Amazon VPC is a Virtual Private Cloud, and it is useful because it separate our resources privately with AWS Cloud services.

How I used Amazon VPC in this project

In today's project, I used Amazon VPC to create my own private cloud and also created a subnet.

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

One thing I didn't expect in this project was how easy it was in creating aws vpc.

This project took me...

This project took me 1:30 hour

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ucbethuel
NextWork Student

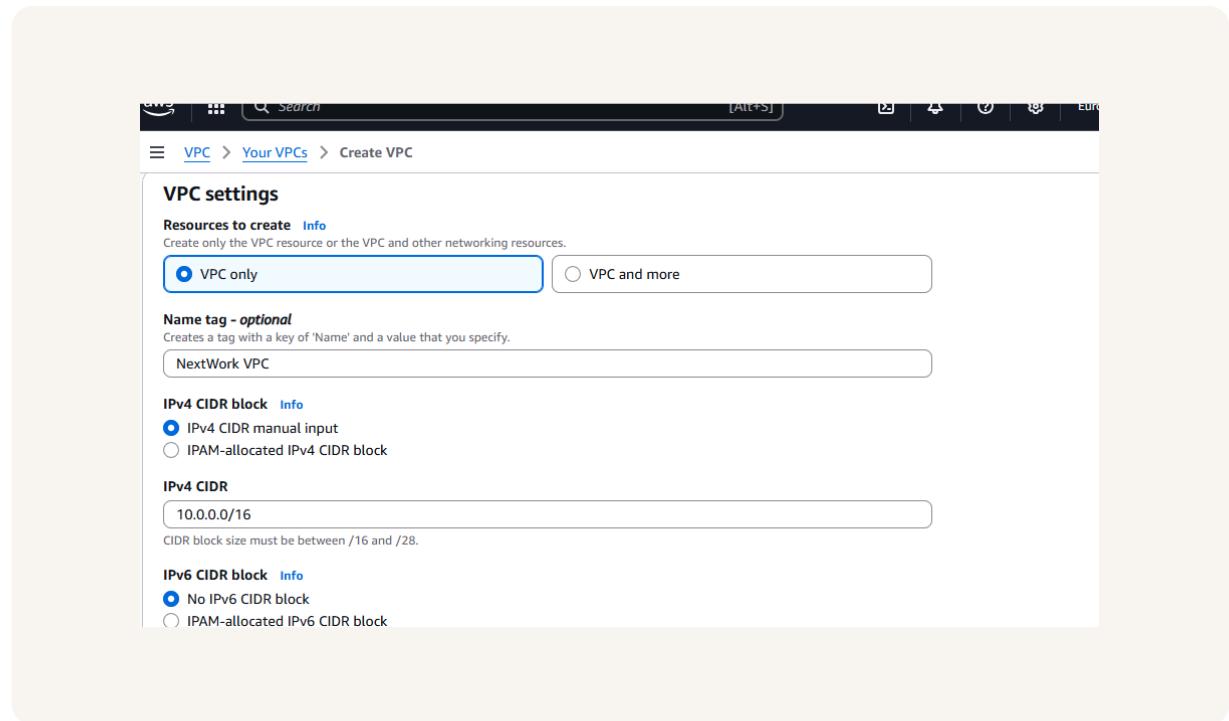
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Virtual Private Clouds (VPCs)

VPCs are Virtual Private Cloud, It what makes all our resource created private and protected.

There was already a default VPC in my account ever since my AWS account was created. This is because it enables services like S3 and lambda function to connect to the internet and be used.

To set up my VPC, I had to define an IPv4 CIDR block, which is the scope of available IP Addresses that should be made available with my network.



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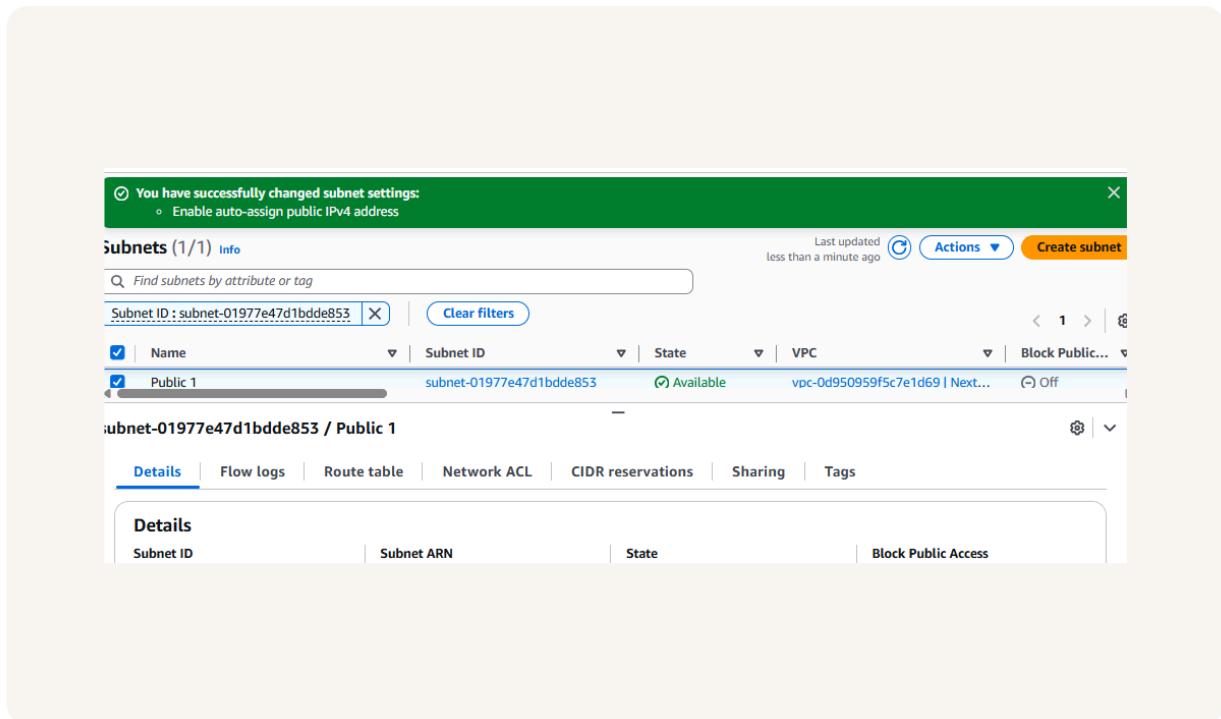
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Subnets

Subnets are grouping of your private network. There are already subnets existing in my account, one for every Availability Zones.

Once I created my subnet, I enabled the auto-assign public IP address. This setting makes sure any resource created with the subnet is given an ip addresses.

The difference between public and private subnets are, Public subnet are designed to be connected to the internet while private are not. For a subnet to be considered public, it has to connected to an internet gateway.



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Internet gateways

Internet gateways are what connect our VPC to the internet world.

Attaching an internet gateway to a VPC means I am exposing my VPC to be accessible via the internet.

Internet gateways (2) Info					Actions	Create internet gateway
<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	<input type="checkbox"/>	O
<input type="checkbox"/>	-	igw-0e81ae03a7db1d6ad	Attached	vpc-0847bc65412d751f1	<input checked="" type="checkbox"/>	1'
<input type="checkbox"/>	NextWork IG	igw-05a84f2637a89a4d1	Attached	vpc-0d950959f5c7e1d69 NextWork VPC	<input checked="" type="checkbox"/>	1'



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