



Build a Virtual Private Cloud



RAJARSHI VERMA

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

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
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
 IPv6 CIDR owned by me

Tenancy [Info](#)
Default

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="NextWork VPC"/> X Remove tag
Add tag	

You can add 49 more tags.

[Cancel](#) [Preview code](#) [Create VPC](#)



Introducing Today's Project!

What is Amazon VPC?

Amazon Virtual Private Cloud (VPC) is a service that allows you to create a private, isolated network within the AWS cloud. Think of it as your own private city within the vast AWS landscape. Flexibility, scalability, connectivity and customization.

How I used Amazon VPC in this project

I created a VPC and then created a subnet and then created a internet gateway. At last I connected the VPC with the internet through internet gateway.

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

I did not expect the presence of already running VPC, subnets and internet gateway. And also how easy the process is for setting up.

This project took me...

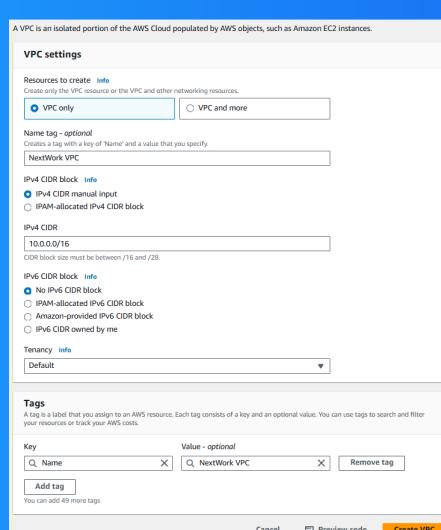
It took around 5 minutes to create a VPC, subnet and internet gateway.

Virtual Private Clouds (VPCs)

VPCs are private network within public cloud which allows user to launch and manage resources in a logically isolated section of the cloud. It provides user the flexibilty and control of a private network with scalabilty and convenience.

There was already a default VPC in my account ever since my AWS account was created. This is because being beginner when you try to launch any service you would require VPC to launch except for lambda and S3. And thus saving user from dumb mistake.

To set up my VPC, I had to define an IPv4 CIDR block, which is classless Inter-domain routing is a method to allocate a range of IP addresses. The number after the slash indicates the size of the block: the smaller the number, the larger the block.

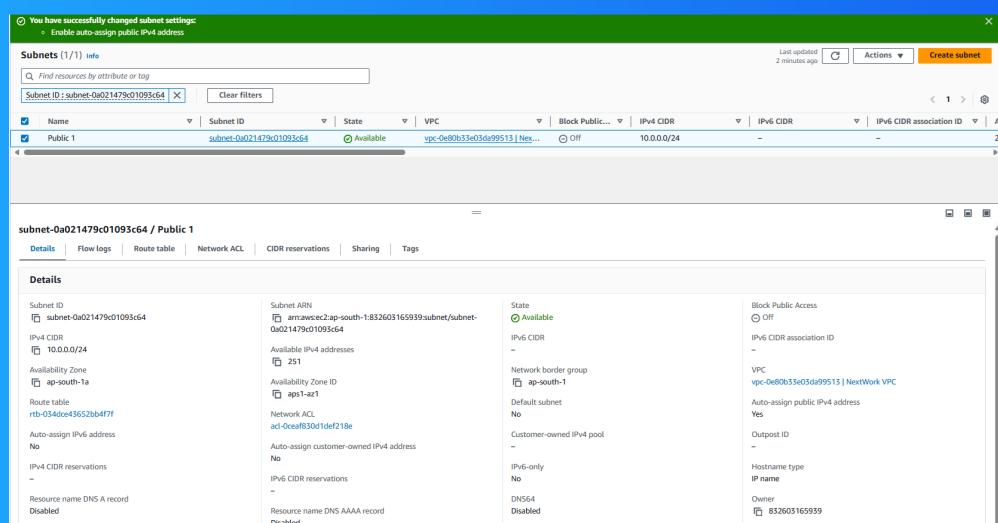


Subnets

Subnets are... There are already subnets existing in my account, one for every availability zones in my region. Subnets are like different neighborhoods inside your city. You use subnets to group resources with similar access rules and restrictions.

Once I created my subnet, I enabled... This setting makes sure... so that whenever I create a new EC2 instance it gets public IP assigned automatically instead of manually creating public IP for it.

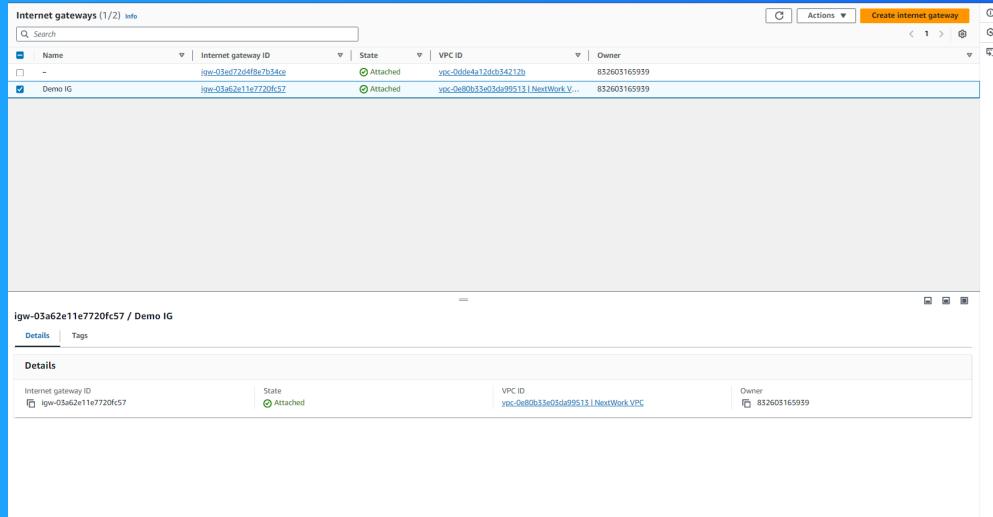
The difference between public and private subnets are... For a subnet to be considered public, it has to be connected to the internet and a subnet does not become public just by adding a public to it but it needs to be connected by internet gateway.



Internet gateways

Internet gateways are a way to connect your applications available to internet. By this your application can access the internet and can be accessible to external users. Thus making your application *dabba* TV to a smart TV.

Attaching an internet gateway to a VPC means... If I missed this step then i would not be able to connect my application to internet and external users could not access my application.





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