



nextwork.org

Build a Virtual Private Cloud (VPC)



Ali Syed

vpc-01c6e47985c2b33de / Nextwork_VPC

[Actions ▾](#)

Details [Info](#)

VPC ID vpc-01c6e47985c2b33de	State Available	Block Public Access <input checked="" type="radio"/> Off	DNS hostnames Disabled
DNS resolution Enabled	Tenancy default	DHCP option set dopt-0eaa688cb4999f74b	Main route table rtb-0c0a4363427fe90eb
Main network ACL acl-05a17af57c24081d6	Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool —
IPv6 CIDR —	Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups —	Owner ID 120569621470



Introducing Today's Project!

What is Amazon VPC?

Amazon VPC is a private cloud. its like an entire private network. It provides and environment of safety and security when going online.

How I used Amazon VPC in this project

I created a VPC assigned public IP, and attached to internet gateway. It was a great experience.

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

Honestly, i dont want to pay for now.

This project took me...

It just took 5 minutes.



Virtual Private Clouds (VPCs)

Vpcs are like a private network. These make everything online for us. Without VPC we cannot access to internet for our resources. It also separates public and private IPs so that our resources in the cloud remain safe and secure.

there is already a default VPC because if it didn't exist, we would have to learn to create a vpc and then connect it Ec2 etc. It saves our time and effort to make us go online easily.

With steps you defined and knowledge you provided, it was easy to create a VPC. IP address is a kind a address to our VPC for access, and CIDR is to assign block of IP Addresses to the VPC.

Ali Syed
NextWork Student

nextwork.org

vpc-01c6e47985c2b33de / Nextwork_VPC				Actions ▾
Details		Info		
VPC ID	vpc-01c6e47985c2b33de	State	Available	Block Public Access
DNS resolution	Enabled	Tenancy	default	<input checked="" type="radio"/> Off
Main network ACL	acl-05a17af57c24081d6	Default VPC	No	DHCP option set
IPv6 CIDR	-	Network Address Usage metrics	Disabled	dopt-0eaaf688cb4999f74b
				IPv4 CIDR
				10.0.0.0/16
				Route 53 Resolver DNS Firewall rule groups
				-
				Owner ID
				120569621470

Subnets

Subnets are used to divide the larger network into smaller networks in order to avoid traffic, easy to maintain, and secure.

we enable auto assign Public IP because it will assign IPs automatically, and we dont have to do it repeatedly.

Because we havnt assigned any gateway to it. Without gateway, you wont be able to access or to be accessed.

The screenshot shows the AWS Subnet configuration page. At the top, there is a 'Subnet' section with fields for 'Subnet ID' (subnet-049a08bf485597bf9) and 'Name' (Public-Subnet-for-Nextwork). Below this is an 'Auto-assign IP settings' section with a description: 'Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.' A checkbox labeled 'Enable auto-assign public IPv4 address' is checked. The entire configuration is contained within a light gray rounded rectangle.

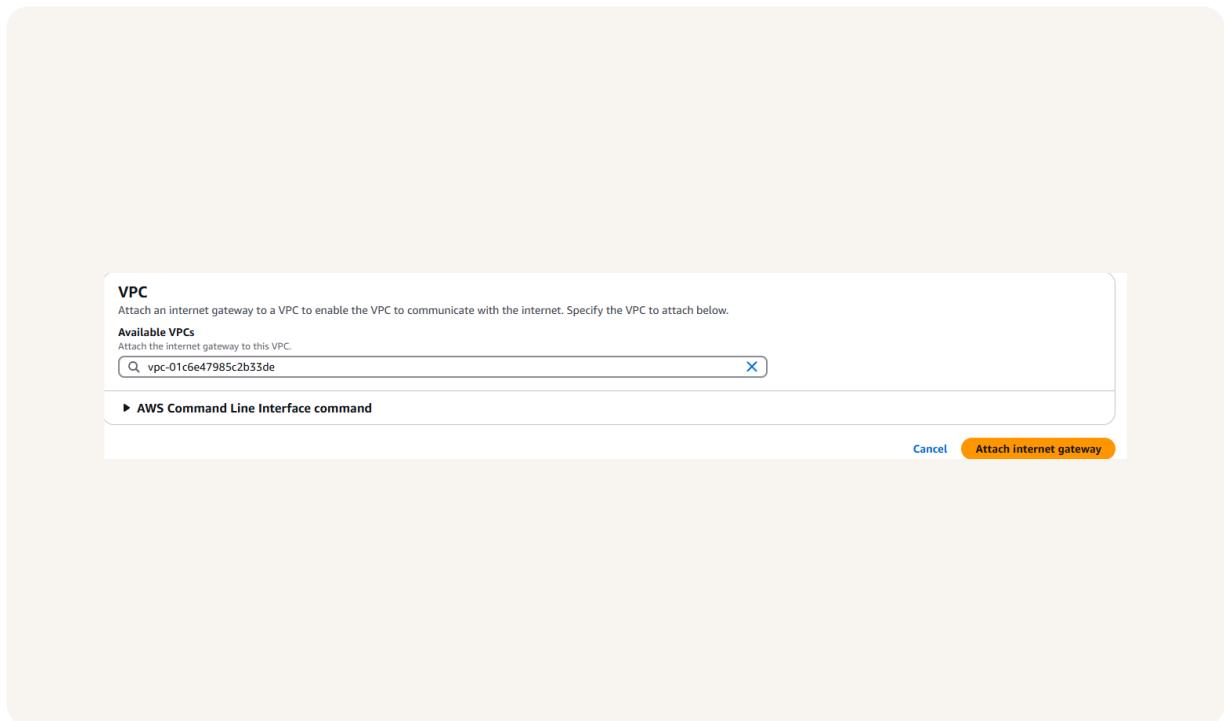
Ali Syed
NextWork Student

nextwork.org

Internet gateways

Internet gateways make our VPC go on internet. its a way for inbound and outbound traffic. Its like a bridge for the access to our city.

Attaching Internet gateway makes our VPC go online. If we host a website and want public access to it, internet gateways makes it possible.





nextwork.org

The place to learn & showcase your skills

Check out nextwork.org for more projects

