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Creating a Private Subnet

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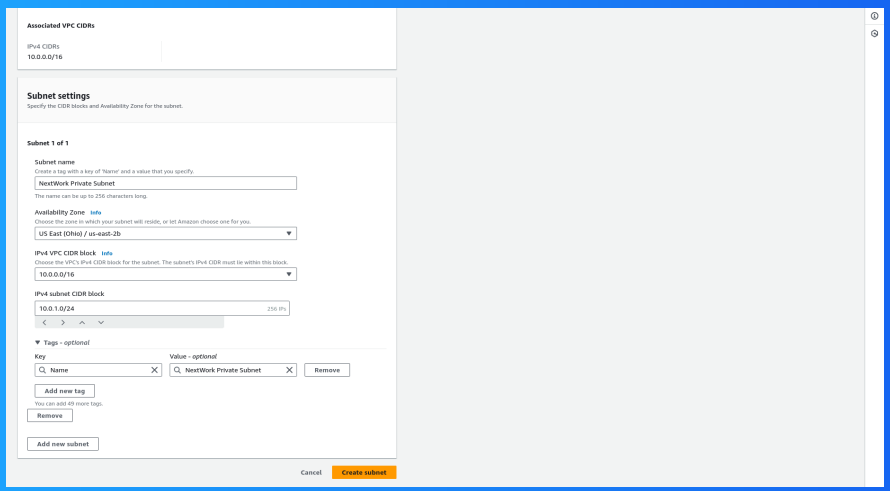

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Introducing Today's Project!

What is Amazon VPC?

Amazon VPC (Virtual Private Cloud) is a service that it creates Isolated Networks. Allows you to set up a private, isolated network within AWS for your resources. Enhances Security and Control, providing fine-grained control over network config.

How I used Amazon VPC in this project

Created a VPC which incorporate a public and private subnet to separate traffic. Customized ACLs to properly route traffic from the internet and set gates for the traffic flow

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

The ease it was to set the tables and gate for traffic flow and the separation of the subnets

This project took me...

The project took me about 30 mins.

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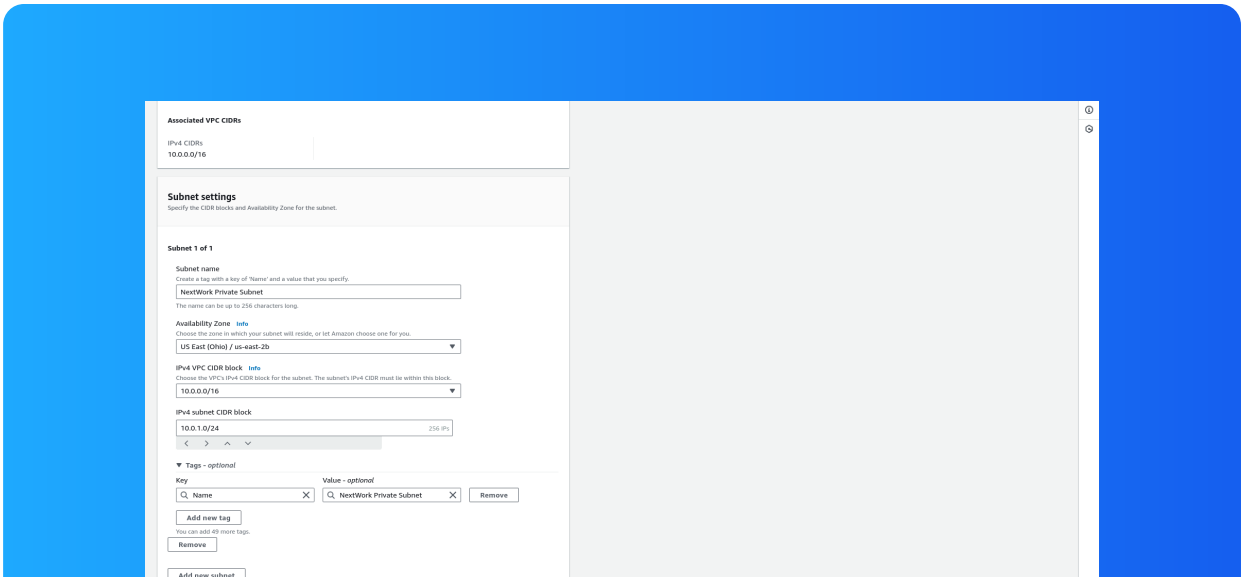
Private vs Public Subnets

The difference between public and private subnets is that Public have a route to an Internet Gateway, allowing resources to access the internet directly. Private do not have direct internet access

Having private subnets are useful because enhance security to keep internal resources, like databases, isolated from direct internet access, reducing exposure to potential threats.

My private and public subnets cannot have the same Internet Access: Public subnets have direct internet access, while private subnets rely on NAT for outbound access. Security Exposure: Private subnets are not directly exposed to the internet



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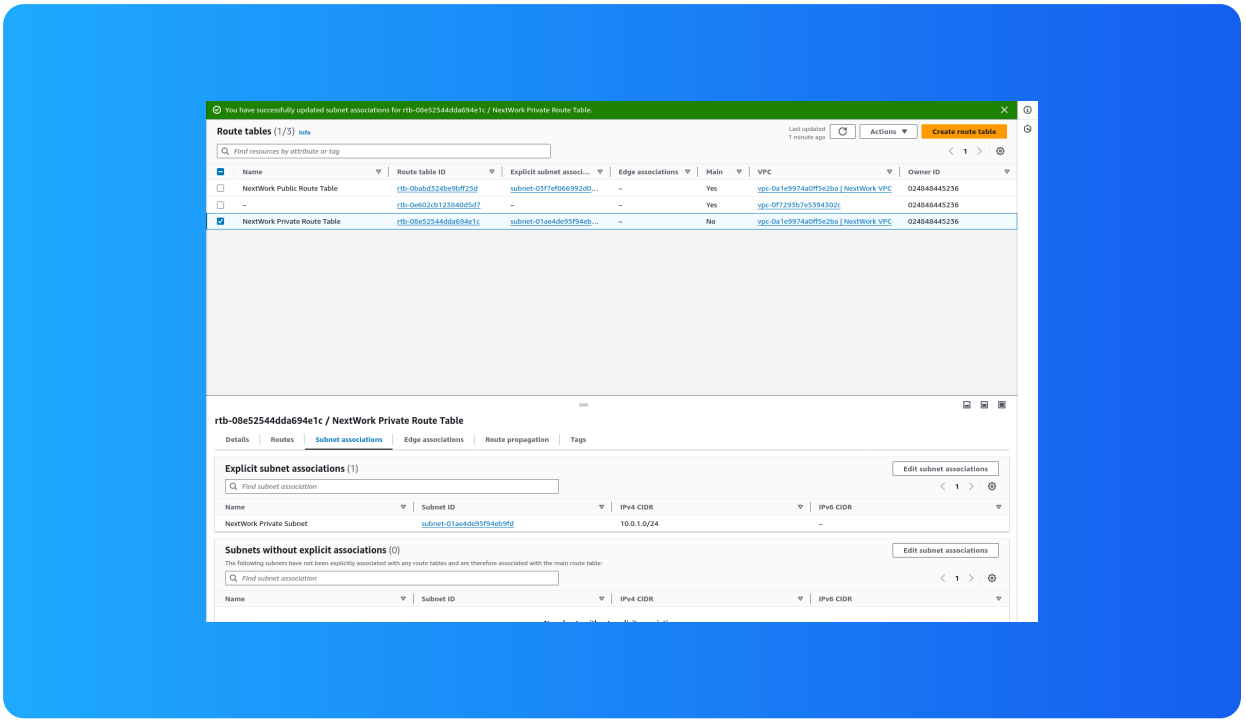
A dedicated route table

By default, my private subnet is associated with 10.0.0.0/16 local/VPC

I had to set up a new route table because the default subnet table is accessible to the internet. I needed to make the entire table private.

My private subnet's dedicated route table only has one inbound and one outbound rule that allows traffic from within the VPC private network



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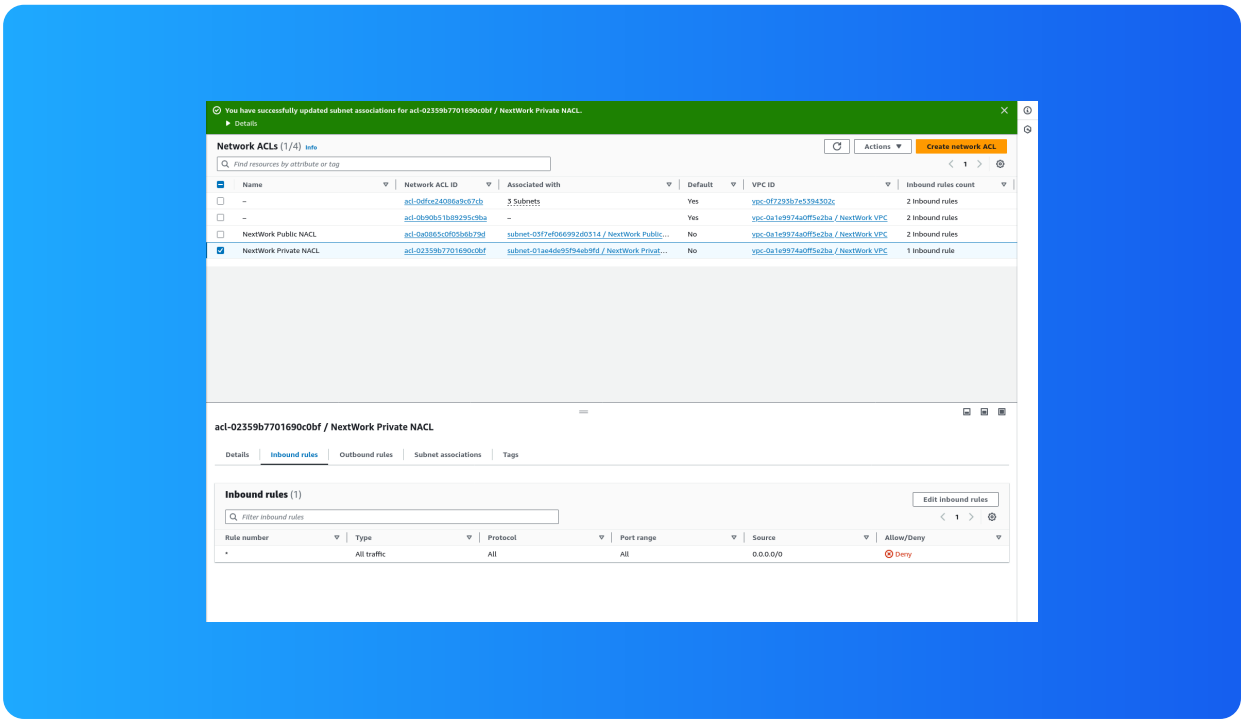
A new network ACL

By default, my private subnet is associated with my private subnet

I set up a dedicated network ACL for my private subnet because we can make sure to deny all traffic to prevent attacks from the default ACL

My new network ACL has two simple rules, deny all traffic



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