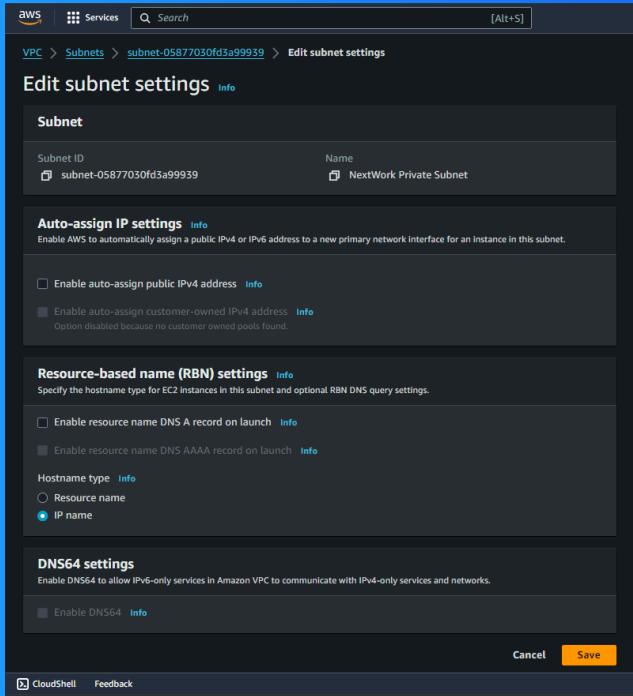




Creating a Private Subnet



sirajudeen athif



Introducing Today's Project!

What is Amazon VPC?

Amazon VPC is a service that allows users to create private networks within the AWS cloud. It provides enhanced security, customizable network configurations and easy scalability.

How I used Amazon VPC in this project

I used Amazon VPC to create a private network, which I then connected to a private route table and a private network ACL.

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

It was very simple to set up.

This project took me...

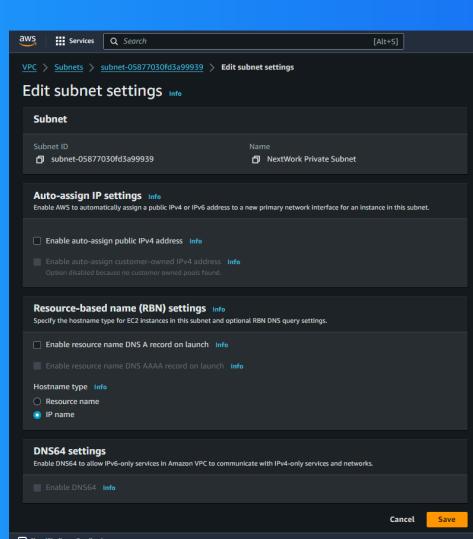
Less than an hour.

Private vs Public Subnets

Public subnets have direct internet access through an internet gateway, allowing resources to communicate freely with the outside world. In contrast, private subnets are designed to be isolated, keeping their resources safe and secure.

Having private subnets are useful because they are helpful in keeping sensitive info safe. They provide an added layer of security, reducing the risk of attacks and unauthorized access while allowing internal communication.

My private and public subnets cannot have the same route table because they serve different purposes and have different access levels. Public subnets require internet access, while private subnets need routes that keep them away from the internet.

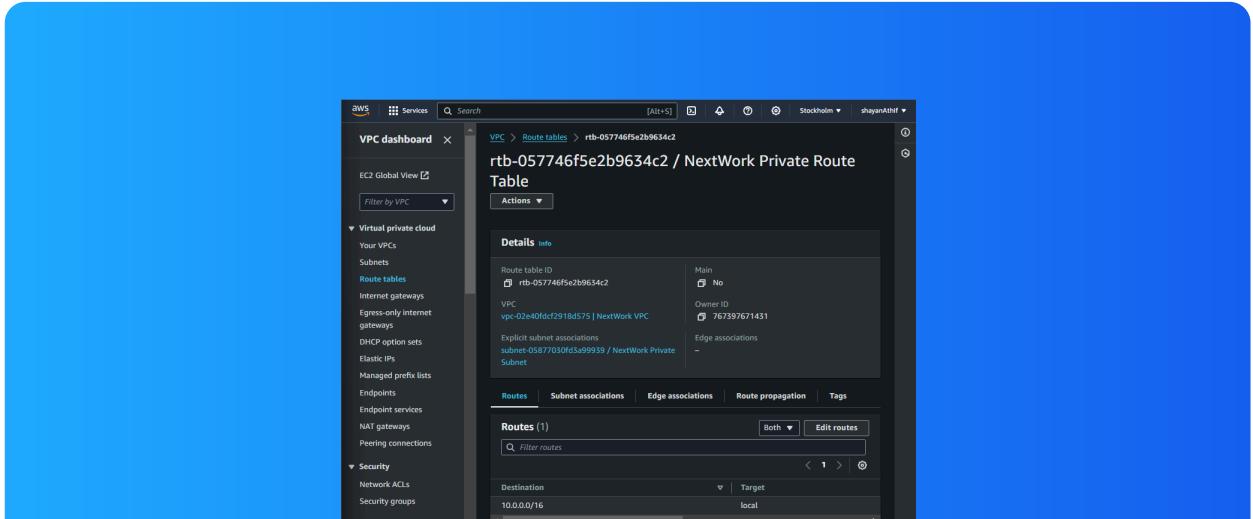


A dedicated route table

By default, my private subnet is linked to the main route table I set up for public subnets. To keep it private, I need to create a new route table just for the private subnet, ensuring it only allows internal traffic and blocks internet access.

I had to set up a new route table because the initial one I created was connected to the internet. To ensure my private subnet remains isolated and secure, I needed a separate route table that only allows traffic to other internal resources.

My private subnet's dedicated route table includes just one inbound and one outbound rule that allows direct traffic to other internal resources, rather than allowing access to the internet. This setup ensures secure communication within the network.

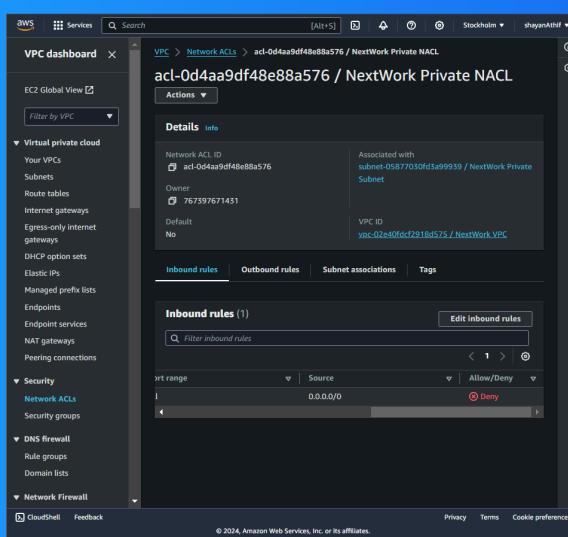


A new network ACL

By default, my private subnet is associated with the ACL that is automatically set up for every VPC. To customize security settings for my private subnet, I need to explicitly create a new ACL tailored to its specific needs and requirements.

I set up a dedicated network ACL for my private subnet because the VPC's default network ACL allows all traffic, exposing my private subnet to unrestricted access from the internet or other untrusted networks.

My new network ACL has two straightforward rules: it denies all incoming and outgoing traffic. This default setup ensures that my private subnet remains secure by preventing any unauthorized access.





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