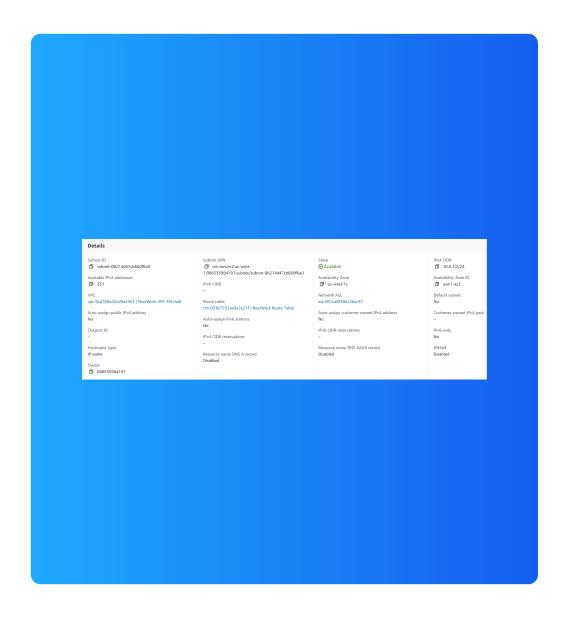
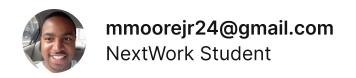


Creating a Private Subnet

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Introducing Today's Project!

What is Amazon VPC?

Amazon VPC is a virtual private cloud that is secure, isolated private cloud hosted within a public cloud. Customers can run code, store data, host websites, etc.

How I used Amazon VPC in this project

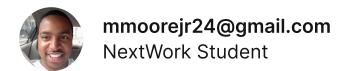
I used Amazon VPC to setup a public and private subnets with security on the route tables and network ACLs.

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

I didn't expect this project to be as straight forward as it was.

This project took me...

This project took me about an hour and 40 mins to complete.

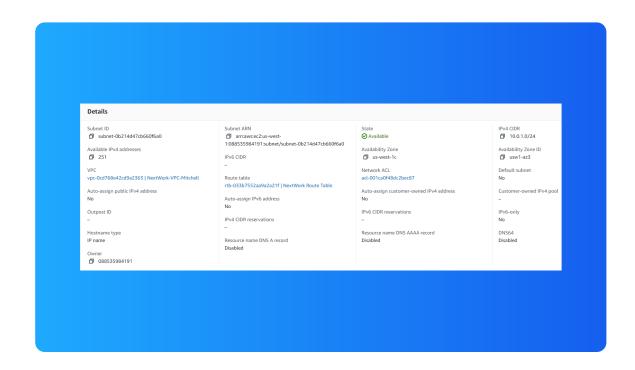


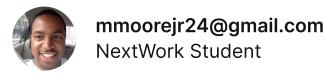
Private vs Public Subnets

The difference between public and private subnets is that public subnets are accessible by and can access the internet, while private subnets are completely isolated from the internet by default.

Having private subnets are useful because keeping resources away from the internet is extremely important for the security of confidential resources/data.

My private and public subnets cannot have the same IPV4 CIDR block i.e. the same range of IP addresses. The CIDR block for every subnet must be unique and cannot overlap with another subnet.





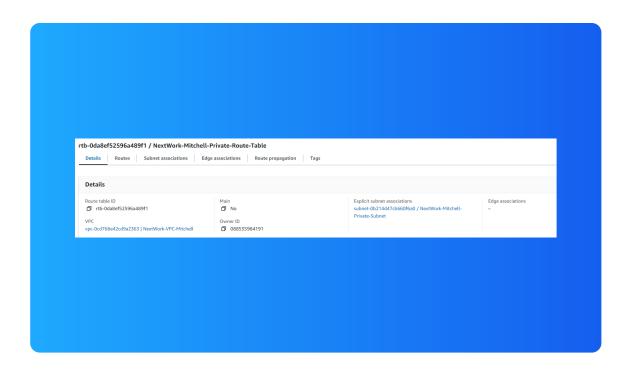
NextWork.org

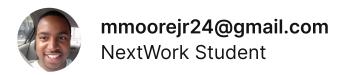
A dedicated route table

By default, my private subnet is associated with the default route table i.e. route table that has a route to an internet gateway.

I had to set up a new route table because my private subnet can not have a route to an internet gateway.

My private subnet's dedicated route table only has one inbound and one outbound rule that allows internal communication i.e. with a destination of another resource within my VPC.





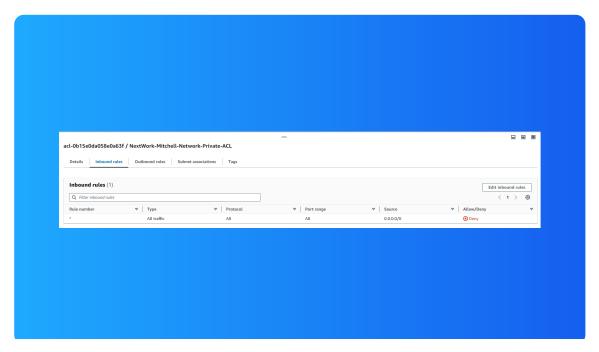
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A new network ACL

By default, my private subnet is associated with the default network ACL that's setup with every VPC created in my AWS account.

I set up a dedicated network ACL for my private subnet because in the event of security breaches where traffic that has compromised my public subnet can get access to my private subnet If I have network ACL rules that allow inbound/outbound traffic.

My new network ACL has two simple rules - deny all inbound and outbound traffic.





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