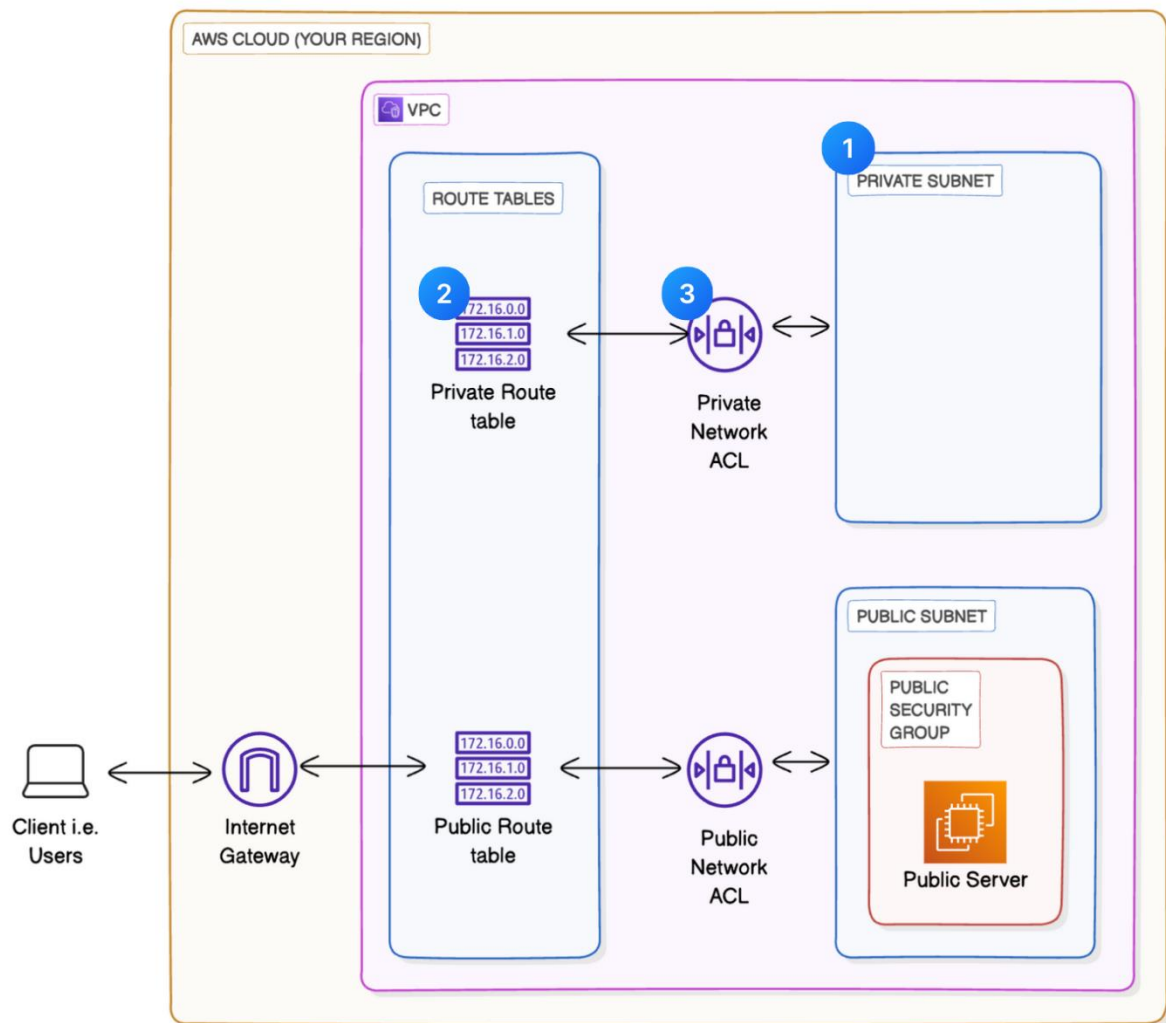


Creating a Private Subnet



Set up a private subnet

Still in your VPC console, select the **Subnets** tab again.

- Select **Create subnet**.
- For the **VPC ID**, select **NextWork VPC**.
- Set the **Subnet name** as NextWork Private Subnet
- For the subnet's **Availability Zone**, use the second AZ on the dropdown (not the first!)
- The IPv4 VPC CIDR block is already pre-set to 10.0.0.0/16
- Select **Create subnet**.
- Let's assign your new subnet a CIDR block that doesn't overlap with Public 1.
- Replace the IPv4 subnet CIDR block with 10.0.1.0/24
- Select **Create subnet**.
- Success!

VPC

VPC ID

Create subnets in this VPC.

vpc-0e970fd3119d8d225 (NextWork VPC)

Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

NextWork Private Subnet

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US West (Oregon) / us-west-2b

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16

IPv4 subnet CIDR block

10.0.1.0/24 256 IPs

< > ^ v

Tags - optional

Key

Value - optional

Q Name X

Q NextWork Private Subnet X

Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

- To tidy up your subnets' naming conventions, let's rename your **Public 1** subnet to NextWork Public Subnet

Subnets (1/6) [Info](#)

Find resources by attribute or tag

	Name	Subnet I
<input type="checkbox"/>	NextWork Private Subnet	subnet-0
<input checked="" type="checkbox"/>	Public 1	
<input type="checkbox"/>	–	
<input type="checkbox"/>	–	
<input type="checkbox"/>	–	

Edit Name

NextWork Public Subnet

Cancel Save

Set up a private route table

Head to the **Route tables** page in your console.

- Select **Create route table**.
- Name your new route table NextWork Private Route Table
- Under **VPC**, select **NextWork VPC**.
- Select **Create route table**.

Create route table [Info](#)

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

Name - optional
 Create a tag with a key of 'Name' and a value that you specify.
 NextWork Private Route Table

VPC
 The VPC to use for this route table.

vpc-0e970fd3119d8d225 (NextWork VPC)

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.

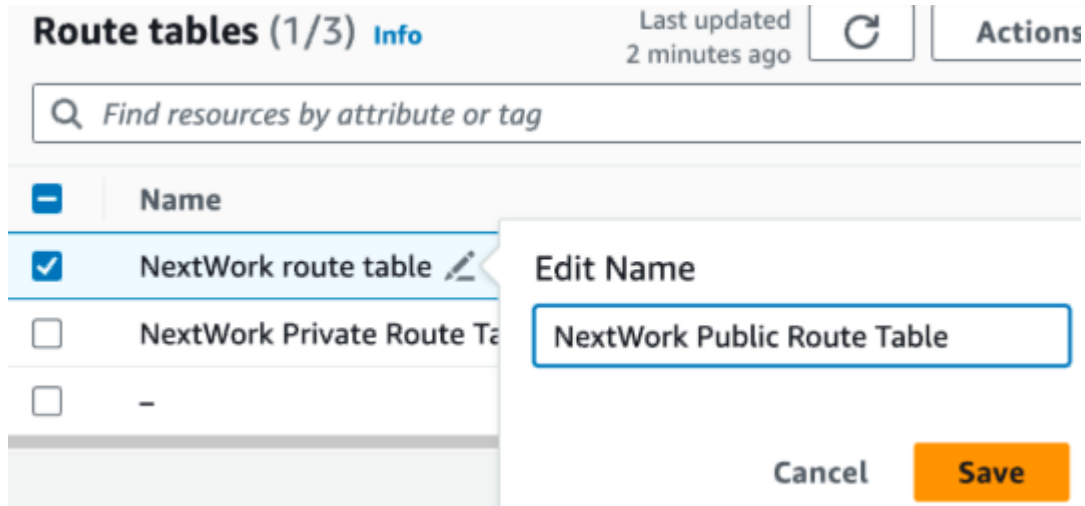
Key
 Name

Value - optional
 NextWork Private Route Table
 Remove

You can add 49 more tags.

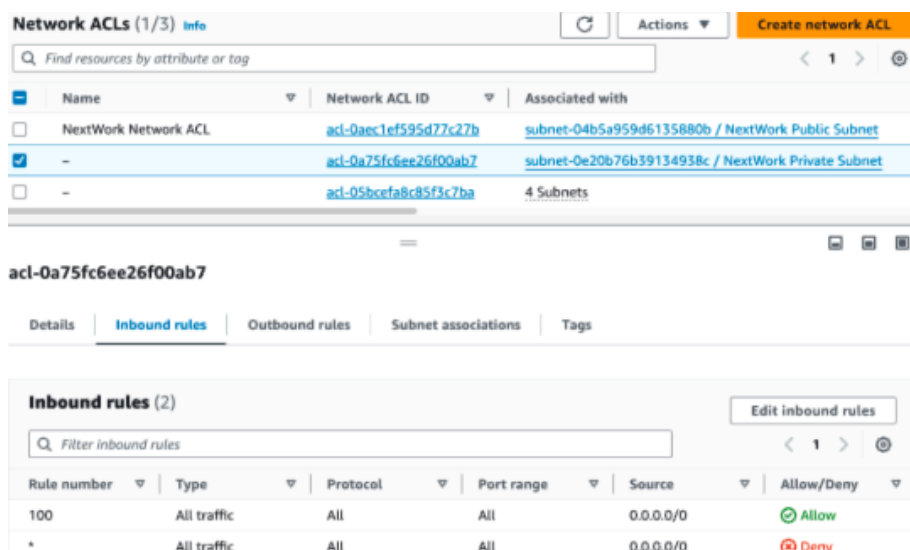
Cancel Create route table

- With your private route table set up, let's make sure it can only direct traffic to another internal resource (instead of the public internet).
- Select **NextWork Private Route Table**.
- Check the **Routes** tab - does it only have one default route with a **local** target?
- Switch tabs to **Subnet associations**.
- Select **Edit subnet associations** under the **Explicit subnet associations** tab.
- Select the checkbox next to **NextWork Private Subnet**.
- Select **Save associations**.
- To tidy up your Route tables' naming conventions, let's also rename **NextWork route table** to NextWork Public Route Table

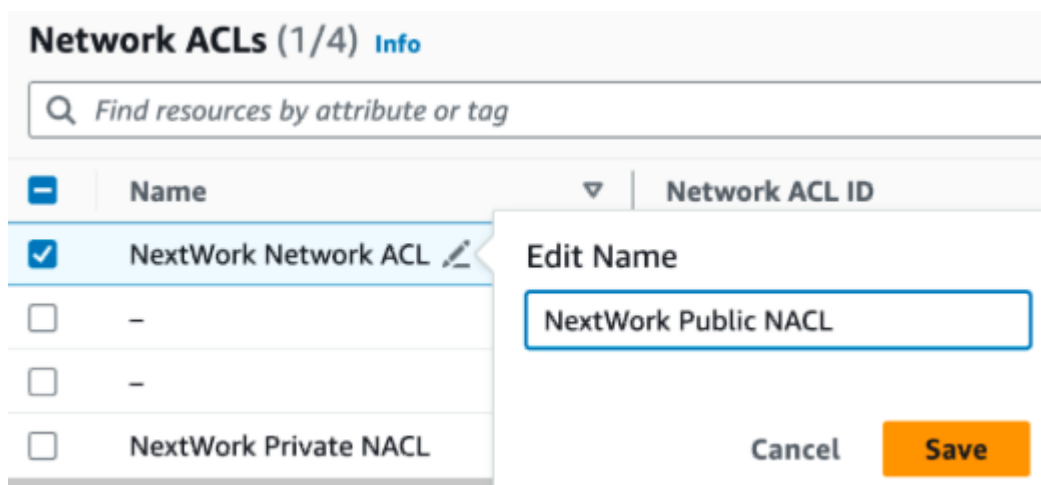


Set up a private network ACL

- Select **Network ACLs** from the left-hand navigation panel.
- Select the checkbox next to the default ACL for your VPC.
 - Note that this is NOT **NextWork Network ACL** - your default ACL isn't named!
- Select the **Inbound rules** and **Outbound rules** tabs.



- So while the default ACL is very convenient in allowing all traffic types, we'll create a new custom network ACL to keep our private subnet safe.
- Select **Create network ACL** on the top right.
- For the name, enter NextWork Private NACL.
- Select **NextWork VPC**.
- Select **Create network ACL**.
- Done!
- Observe the **Inbound rules** and **Outbound rules** tabs for your private network ACL.
- Switch tabs to **Subnet associations**.
- Select **Edit subnet associations**.
- Select your private subnet.
- Select **Save changes**.
- To tidy up your Network ACLs' naming conventions, let's also rename **NextWork Network ACL** to NextWork Public NACL



- All done! Your private subnet is set up and ready to go.