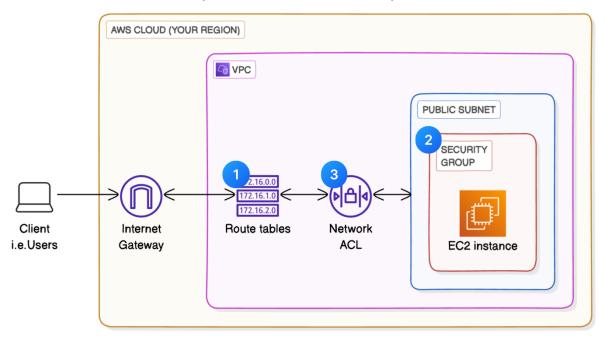
VPC Traffic Flow and Security

Get ready to:

- 1. Create a route table.
- 2. Create a security group.
- 3. Create a Network ACL (Network Access Control List).

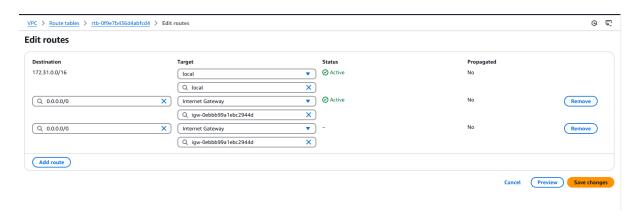


Create a route table

In the left navigation pane, choose Route tables.

- Refresh your page.
- Two route tables! Why are there two?
 - o Note: If you see more than two route tables, those route tables would've been set up in other projects that you've completed. Check the **VPC** column in the far-right side of the table to see where each route table belongs. Focus on the default route table and your VPC's route table.
- Let's investigate. Select one of the two route tables and select the **Routes** tab.
- Uncheck that route table, and switch to the other route table.
- Select the **Routes** tab again.
- Aha, the two tables have different routes!
- Let's rename your NextWork VPC route table so it's easier to recognise.
- Make sure you have your NextWork VPC route table selected this is the route table with a single route to 10.0.0.0/16.
- Select the pencil icon in the **Name** column of your route table.
- Enter the name NextWork route table.
- Select Save.

- Select the **Routes** tab.
- Choose **Edit routes**.
- Choose **Add route** near the bottom of the page.
- Destination: 0.0.0.0/0
- Target: Internet Gateway.
- Select NextWork IG.
- Choose Save changes.
- Choose the **Subnet associations** tab.
- Under the Explicit subnet associations tab, choose Edit subnet associations
- Select Public 1.
- Choose Save associations.



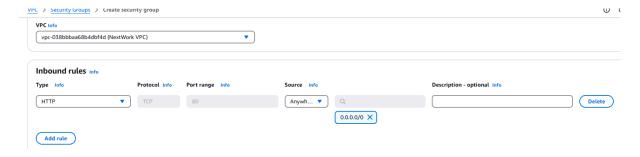
Create a security group

In this task, let's add a security group so that users can access resources in your VPC.

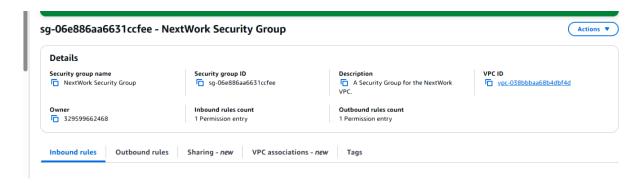
In the left navigation pane, choose **Security groups**.

Choose Create security group.

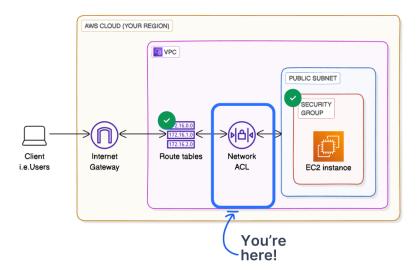
- Security group name: NextWork Security Group
- Description: A Security Group for the NextWork VPC.
- VPC: NextWork VPC
- Under the **Inbound rules** panel, choose **Add rule**.



- Type: HTTP
- Source: Anywhere-IPv4
- At the bottom of the screen, choose **Create security group.**

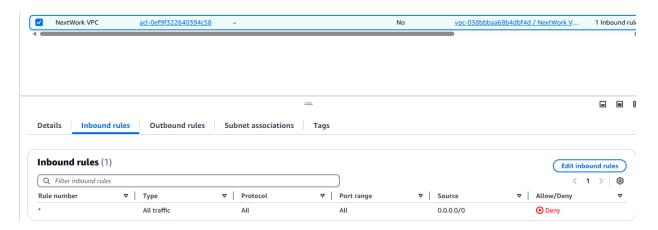


Create a Network ACL



In the left navigation pane, choose **Network ACLs**.

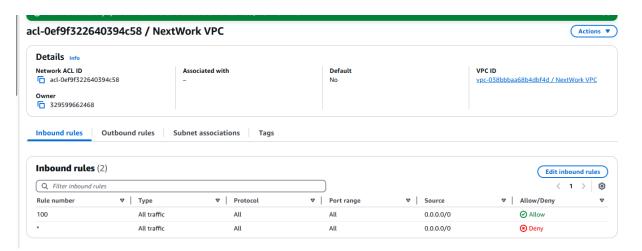
Choose the network ACL that's associated with your **Public 1** subnet, and check out the tabs for **Inbound rules** and **Outbound rules**.



Your default ACL has everything we need, but it's great practice to set up everything from scratch.

- Select Create new network ACL.
- Name: NextWork Network ACL

- VPC: NextWork VPC
- Select Create network ACL.
- Uncheck the default network ACL you've selected.
- Select the checkbox next to NextWork Network ACL
- Select the **Inbound rules** tab.
- Select Edit inbound rules.
- Select Add new rule.
- Rule number: 100
- Type: All traffic.
- Source: 0.0.0.0/0
- Click Save changes.



- Select the **Outbound rules** tab.
- Select Edit outbound rules.
- Select Add new rule.
- Rule number: 100
- Type: **All traffic.**
- Destination: 0.0.0.0/0
- Select the **Subnet associations** tab, which should be right next to the Outbound rules tab.
- The subnet associations tab is empty
- Under the Subnet associations tab, select Edit subnet associations.
- Select your **Public 1** subnet.
- Select Save changes.

