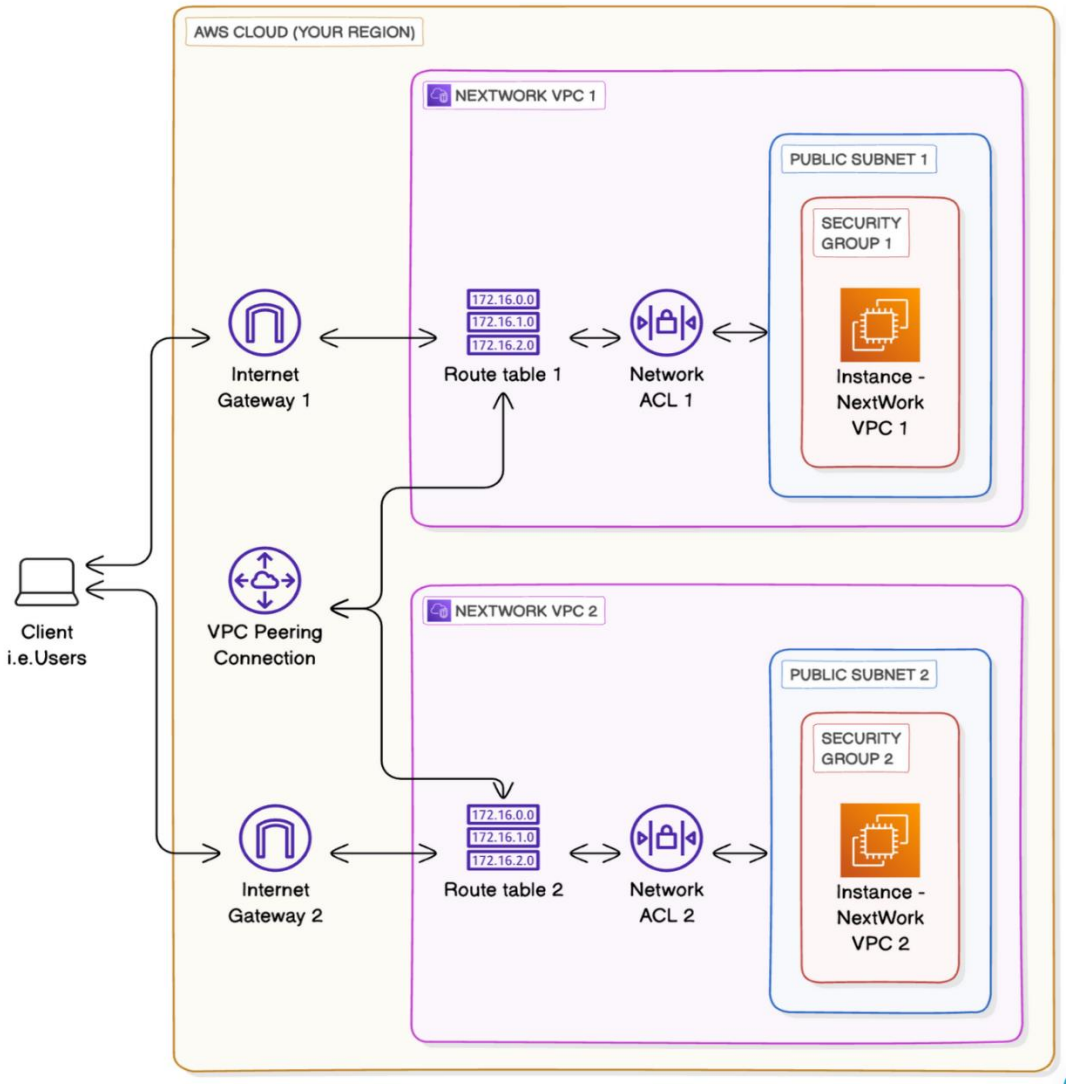
VPC Peering

Get ready to:

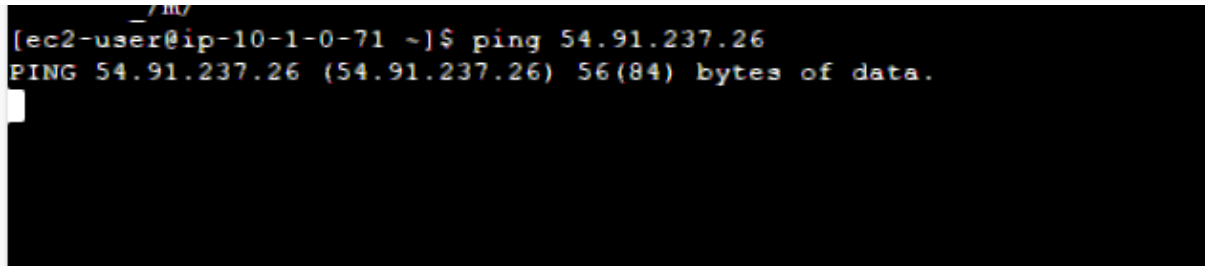
1. ☁️ Set up multiple VPCs.
2. 🌉 Create a VPC peering connection - i.e. get two VPCs to talk to each other!
3. 👷 Test VPC peering with connectivity tests.



In this step, you're going to:

1. Get Instance 1 to send test messages to Instance 2.
2. Solve connection errors until Instance 2 is able to send messages back.
3. Leave open the **EC2 Instance Connect** tab, but head back to your **EC2** console in a new tab.
4. Select **Instance - NextWork VPC 2.**
5. Copy Instance - NextWork VPC 2's **Private IPv4 address.**
6. Switch back to the **EC2 Instance Connect** tab.
7. Run ping [the Private IPv4 address you just copied] in the terminal.

- Your final result should look similar to something like ping 10.0.1.227
- Don't know where to enter this prompt? Look for the $ sign at the bottom line of the black window, and type in your command after the $ sign.



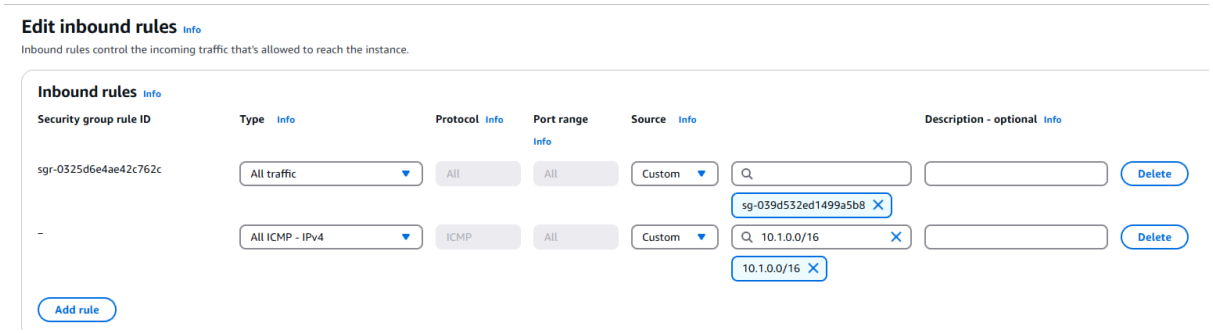
To resolve this connectivity error, let's investigate whether **Instance - NextWork VPC 2** is allowing inbound ICMP traffic.

- Leave open the **EC2 Instance Connect** tab, but head back to your **VPC** console in a new tab.
- In the VPC console, select the **Subnets** page.
- Select VPC 2's subnet i.e. **NextWork-2-subnet-public1-...**
- Let's investigate the **Route tables** and **Network ACL** tabs for your public subnet.
- The network ACL allows all types of inbound traffic from anywhere! So this looks perfectly fine.
- Before we finish, let's check the security groups!
- Copy the **VPC ID** of VPC 2.

- Select **Security groups** from the left hand navigation panel.
- Paste the **VPC ID** in the search bar, and select the suggested filter.
- Check your security group's **Inbound rules** tab - does this security group allow ICMP traffic from sources outside of VPC 2? (Nope!)
- Aha! Mystery solved.

Let's fix this by letting inbound ICMP traffic from VPC 1.

- Select **Edit inbound rules.**
- Select **Add new rule.**
- Change the **Type** to **All ICMP - IPv4**.
- Set the **Source** to traffic coming from VPC 1 - 10.1.0.0/16
- Select **Save rules.**



Revisit the **EC2 Instance Connect** tab that's connected to Instance - NextWork VPC 1.