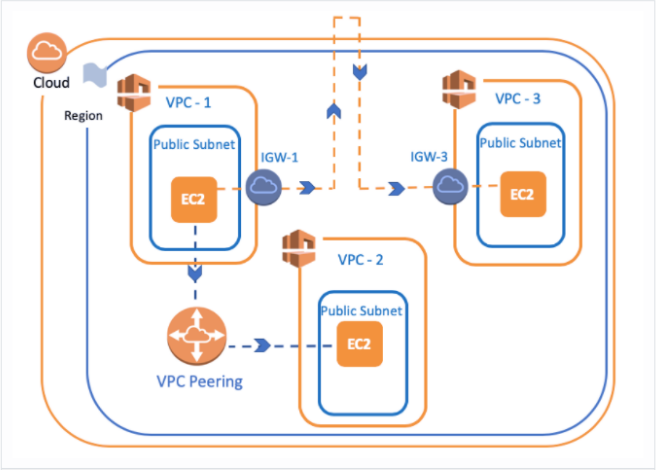
Creating Peering

AWS Peering



AWS Peering

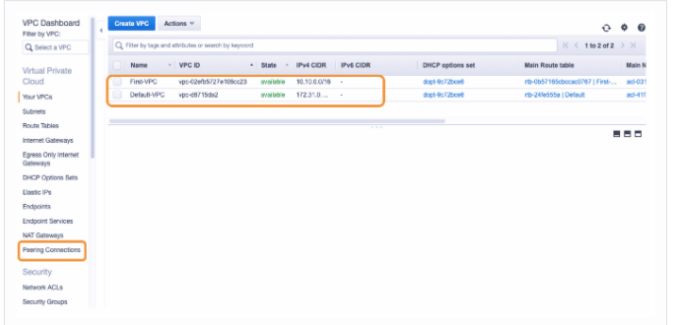
As we have seen in previous lessons, Peering is actually a kind of shortcut set up between VPCs and provides great convenience in accessing resources.

Let's briefly see this in the diagram mentioned above:

- Suppose we have 3 VPCs and we have Public Instances in these VPCs which may also belong to other accounts.
- We want to reach from the instance in VPC -1 to the instances we created in the other two VPCs.
- There is Peering between VPC-1 and VPC-2,
- However, there is no Peering between VPC-1 and VPC-3. In this circumstance
- **From VPC-1 to VPC-2**;
  - Instance in VPC-1 connects **Peering** to access the instance in VPC-2,
  - It reaches VPC-2 instance without moving around the internet via Peering.
- **From VPC-1 to VPC-3**;
  - First, Instance in VPC-1 connects to its **Internet Gateway (IGW-1)**,
  - Then, it connects to the **Internet** via Internet Gateway (IGW-1),
  - After that, it connects from the internet to the **Internet Gateway of VPC-3 (IGW-3)**
  - The last, the instance in VPC-1 reaches to the instance in VPC-3

As you see, how much easy to connect via Peering. Let's create a new Peering.

Creating Peering-1

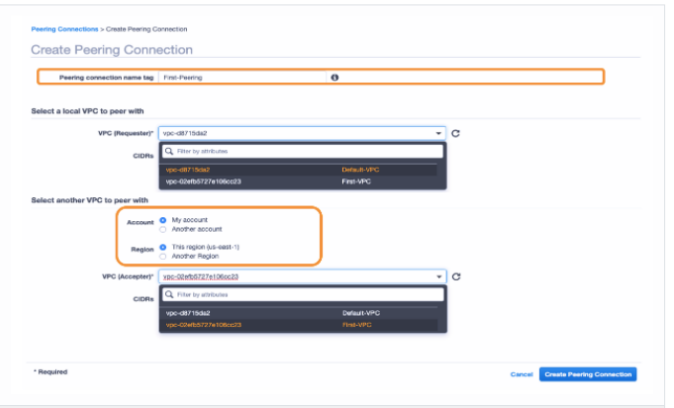


Peering Connection

Let's link Default VPC and First-VPC which we created later via Peering.

First, click the **Peering Connection** tab from the left-hand menu on the VPC dashboard as seen above and Then click **Create Peering Connection** to create a new Peering.

Creating Peering-2



Create a Peering Conncetion

- **Peering Connection Name Tag:**

Let's name the peering connection as **First-Peering.**

- **VPC (Requester):**

We want a connection from Default VPC to First-VPC so, we choose **Default VPC** as requester VPC.

- **Account:**

Here we asked where to set up a Peer with a VPC. We can choose a VPC for Peering in our own account or in another account. Since VPC-First is in our account, we choose **My account** option.

- **Region:**

We have two options here **This Region** and **Another Region**. Let's choose **This Region.** option.

> Tips:
> - Thanks to account and region options, we also understand that peering can be established between VPCs in different accounts and different regions

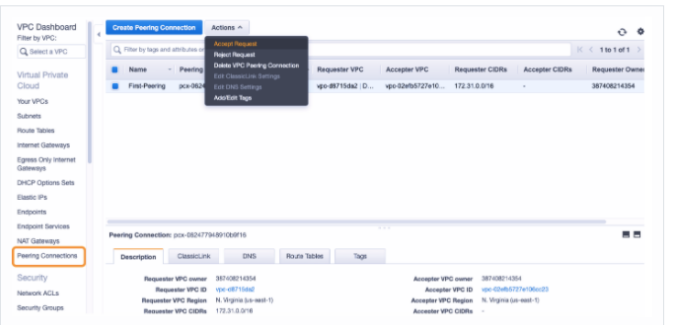
- **VPC (Accepter):**

We choose VPC accepter. Here, let's choose our VPC named First-VPC. An important point here is that the IP addresses of the VPCs do not overlap.

When we click **Create Peering**, peering will begin to occur.

Let's see our new Peering on console and do settings.

Setting Peering-Accept Request



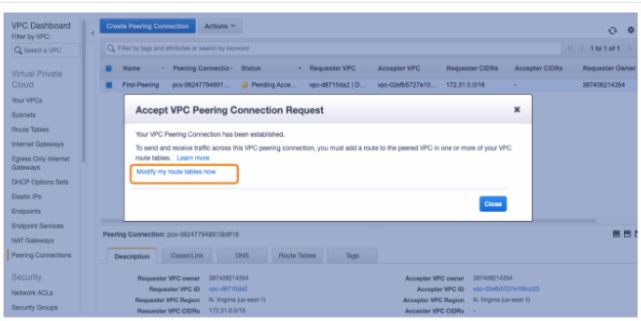
Action Menu

Now that this peering process is also a kind of **Request**, we would have to wait for it to be confirmed if we made it to another account.

However, since we do it for our own account, there is another approval process, but this time we have to do it ourselves.

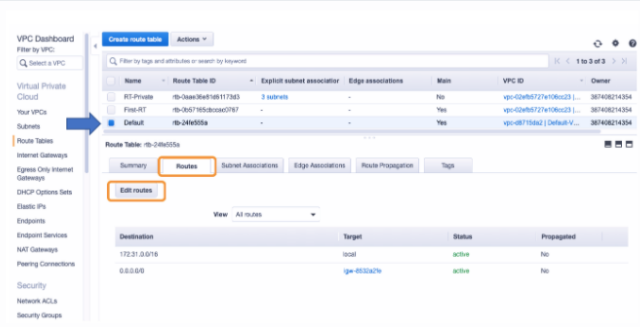
For this, we accept the request by clicking on the **Action Menu** and selecting **Accept Request** as you see in the picture above.

Then click on the **Modify My Route Tables Now** option on the window will pop up on the screen or you can reach **Route Tables** from VPC Dashboard.



Modify My Route Tables Now

Setting Peering-Select Route Table

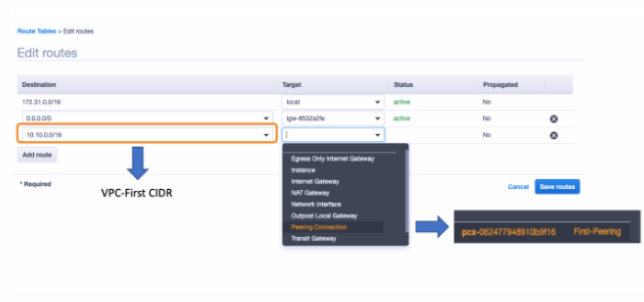


Edit Rules to Route Tables

Let's update the Route Table on the default VPC.

- But, before we begin, let's copy the CIDR block of First-VPC, which will be needed soon.
- First, choose the Default Route table,
- Then select **Routes** section and click **Edit Route** tab as you see in the picture above.

Setting Peering-Edit Route



Route Tables of Default VPC

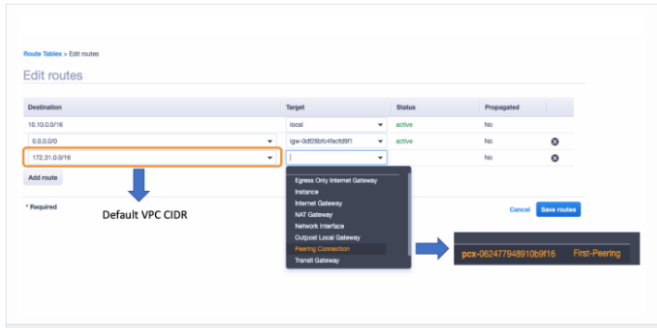
Destination:

We want to connect via Peering with First-VPC. So here we enter the CIDR block of First-VPC that we just copied.

Target:

Here we choose the component which provides us a peering. Of course, we choose **Peering Connection** option and then click **First-Peering** on the window pop up at right below.

We do the same process from the other VPC towards this VPC.



Route Tables of VPC-First

Thus, we have finished the Peering issue.