# **VPC Peering Runbook**

#### 1. Introduction to VPC Peering

VPC Peering allows you to connect two Virtual Private Clouds (VPCs) enabling resources in the VPCs to communicate with each other using private IP addresses. Peering is a networking connection between two VPCs that allows them to route traffic to each other privately.

- The connected VPCs can be in the same AWS Account, same region or different accounts and regions known as inter-Region VPC peering connection.

#### 2. Prerequisites

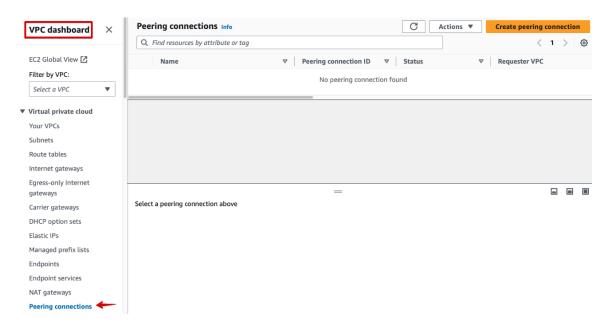
Before setting up a VPC peering connection, ensure you have the following:

- Two VPCs in the same or different AWS accounts.
- Proper IAM permissions to create and accept VPC peering connections.
- Understanding of the CIDR blocks of the VPCs.

## 3. Steps to Create a VPC Peering Connection

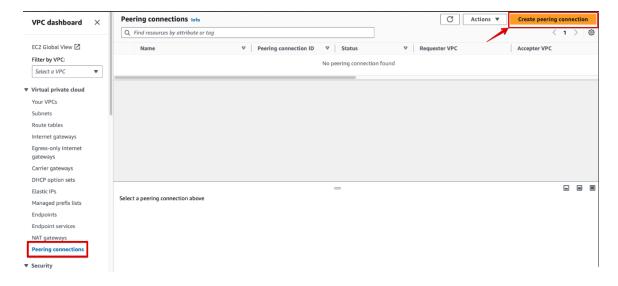
#### **3.1 Create VPC Peering Connection**

- 1. Navigate to the VPC Dashboard:
- Open the AWS Management Console.
- Navigate to the VPC service.



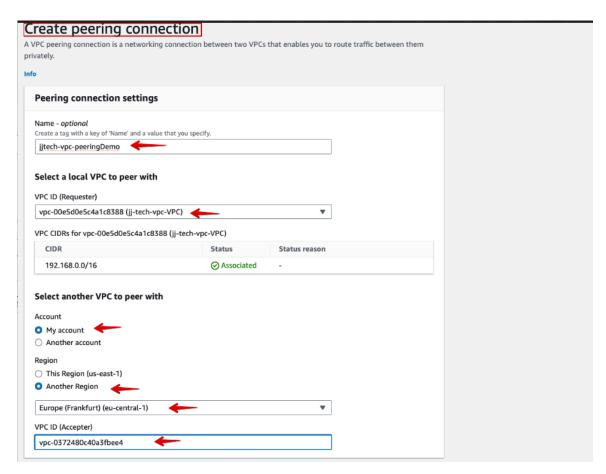
#### 2. Create Peering Connection:

- In the left-hand menu, select "Peering Connections."
- Click on "Create Peering Connection."



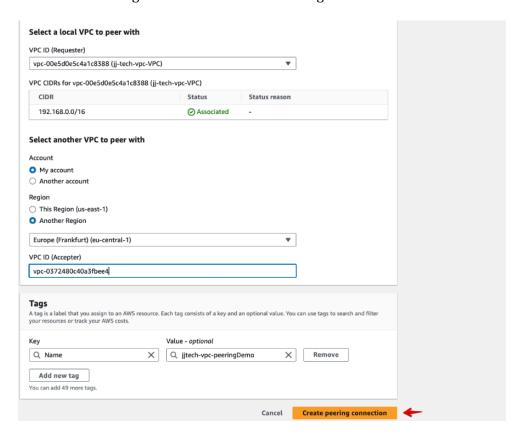
## 3. Configure Peering Connection:

- Select the requester VPC.
- Enter the VPC ID of the accepter VPC.
- Choose whether the VPCs are in the same account or different accounts.



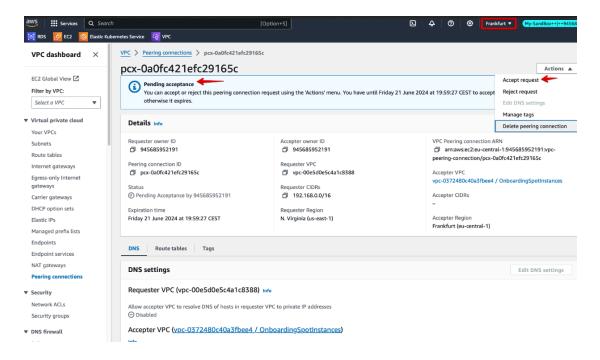
#### 4. Review and Create:

- Review the settings and click on "Create Peering Connection."



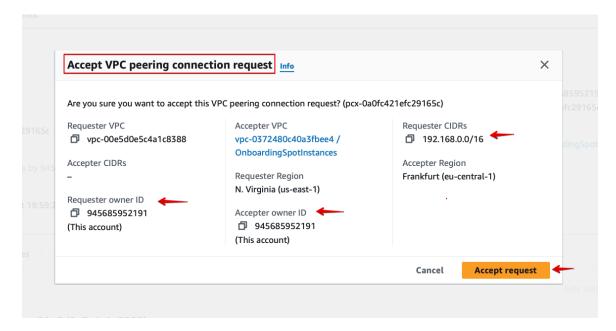
## **3.2 Accept VPC Peering Connection**

- 1. Navigate to Peering Connections:
- In the VPC Dashboard of the accepter account, or the accepter region,  $\,$  go to "Peering Connections."
- You will see a pending peering connection request.



## 2. Accept Request:

- Select the pending peering connection and click on "Actions."
- Choose "Accept Request."

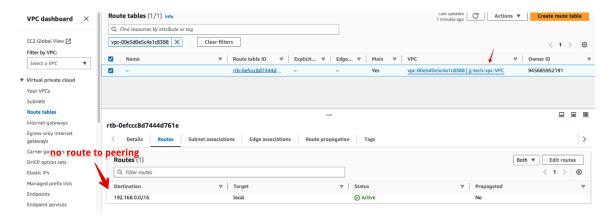


# **3.3 Update Route Tables**

To enable the flow of traffic between the VPCs in a peering connection using private IPs, the route table(s) of the VPCs in the peering connection must be updated to point to the IP address range of the peered VPC, with a target being the VPC peering.

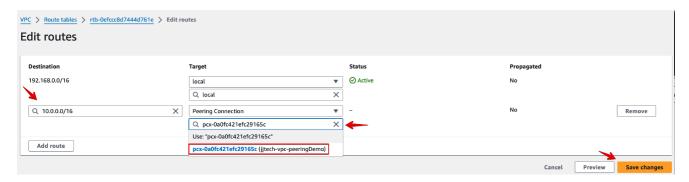
## 1. Navigate to Route Tables:

- Go to the "Route Tables" section in the VPC Dashboard.



#### 2. Add Routes:

- Select the route table associated with your subnets.
- Click on "Edit routes."
- Add a route with the destination of the peer VPC CIDR block and the target as the VPC peering connection ID.



# 4. Verifying VPC Peering Connection

Ping Test:

NB: To be done as assignment after completion of networking / EC2