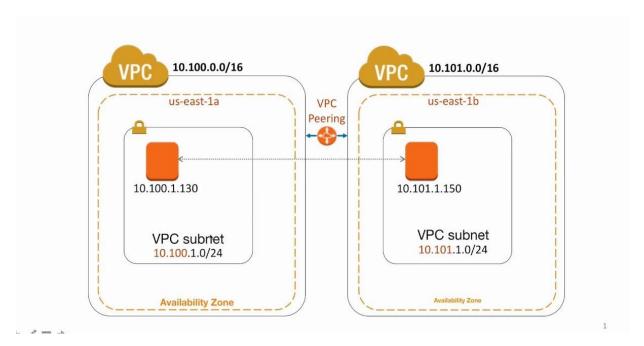
What is VPC Peering

- 1. Peering connection is a part in VPC
- 2. Peering connection means interconnection between two VPC's
- 3. It is called as two-way connection

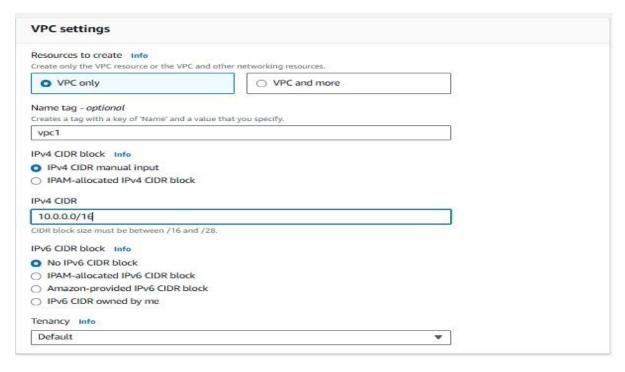
VPC Peering architecture



Steps to create peering connection

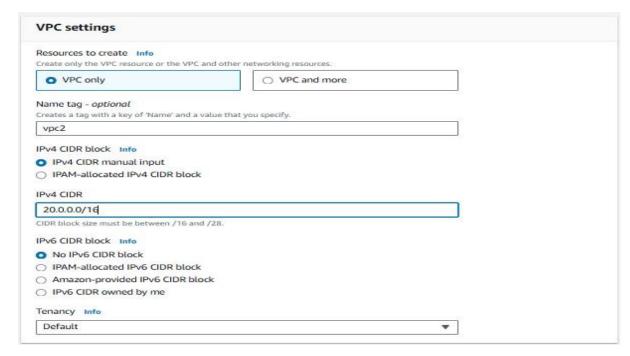
Step 1:

- 1. Go to VPC services
- 2. Create two VPC's with different CIDR block range
- 3. First create one VPC
- 4. Click on create VPC
 - Select VPC only
 - Give the name for VPC as VPC 1
 - Give the CIDR block range as (10.0.0.0/16)
 - Finally click on create VPC as shown in below figure



Step 2:

- 1. Create second VPC
- 2. Click on create VPC
 - Select VPC only
 - Give the name for second VPC as VPC 2
 - Give the CIDR block range as (20.0.0.0/16)
 - Finally click on create VPC as shown in below figure

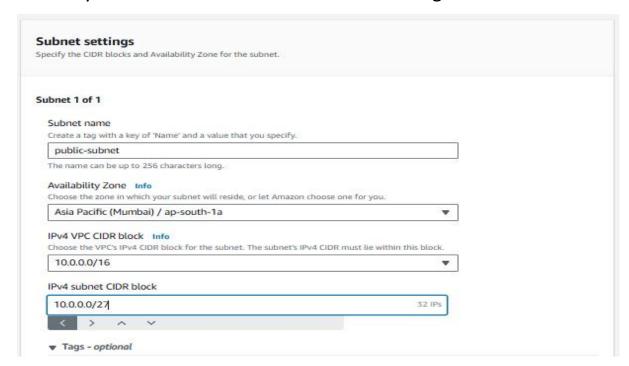


Step 3:

- 1. Go to subnets
- 2. Create two subnets one is public subnet with created VPC 1 and another one is private subnet with created VPC 2
- 3. Click on create subnet
 - Select created VPC 1



- Edit subnet settings
- Give the name for subnet as public subnet
- Select the availability zone
- Select subnet CIDR block range as (10.0.0.0/27)
- Finally create the subnet as shown in below figure

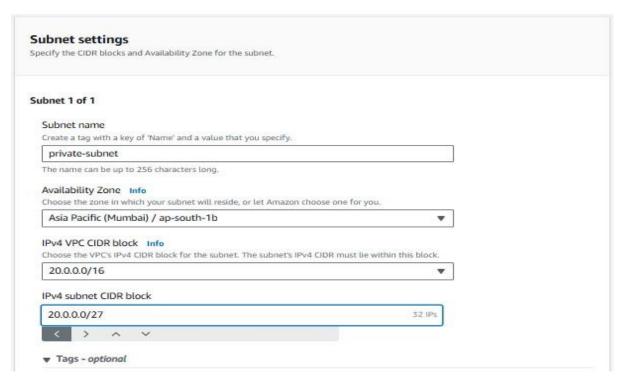


Step 4:

- 1. Create second subnet
- 2. Click on create subnet
 - Select created VPC 2



- 3. Edit subnet settings
 - Give the name for subnet as private subnet
 - Select the availability zone
 - Select subnet CIDR block range as (20.0.0.0/27)
 - Finally create the subnet as shown in below figure



Step 5:

- 1. Go to route tables
- 2. Their already two route tables are created for created two VPC's
- 3. Give the names for two route tables as one is public route and another one is private route to avoid the confusions
- 4. Select the public-route and click on subnet associations and click on edit subnet associations and select public-subnet and click on save associations
- 5. Select the private-route and click on subnet associations and click on edit subnet associations and select private-subnet and click on save associations

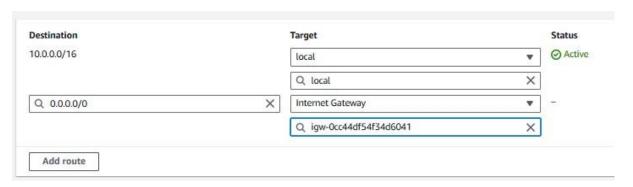
Step 6:

- 1. Select internet gateway
- 2. Click on create internet gateway
- 3. Give the name for internet gateway
- 4. Finally click on create internet gateway
- 5. Click on attach to a VPC
- 6. Select the created VPC 1
- 7. Finally click on attach internet gateway

Step 7:

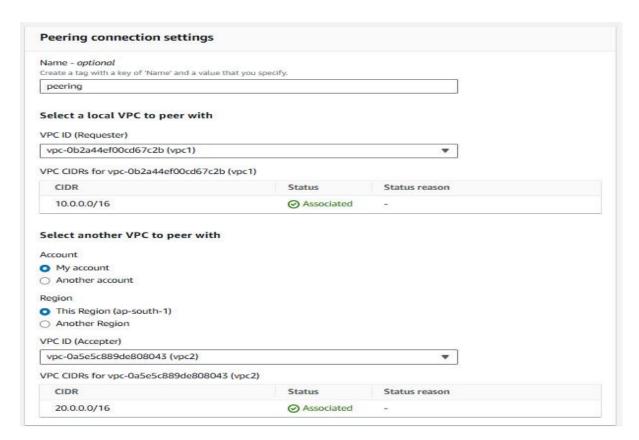
- 1. Go to route tables
- 2. Select the public-route
 - Click on routes
 - Click on edit routes
 - Click on add routes

 Select the internet gateway and click on save changes as shown in below figure



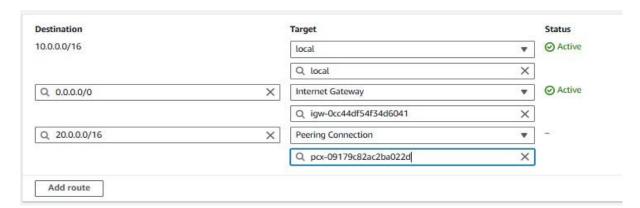
Step 8:

- 1. Select peering connections
- 2. Click on create peering connection
 - Give the name for peering
 - Select the VPC requester as VPC 1 and accepter is VPC 2 as shown in below figure

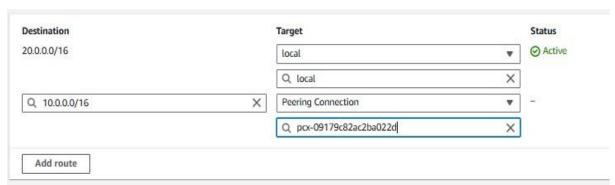


Step 9:

- 1. Go to route tables
- 2. Select the public-route
 - Click on routes
 - Click on edit routes
 - Click on add routes
 - Give created VPC 2 IP address and select peering connection and select created peering connection ID and click on save changes as shown in below figure

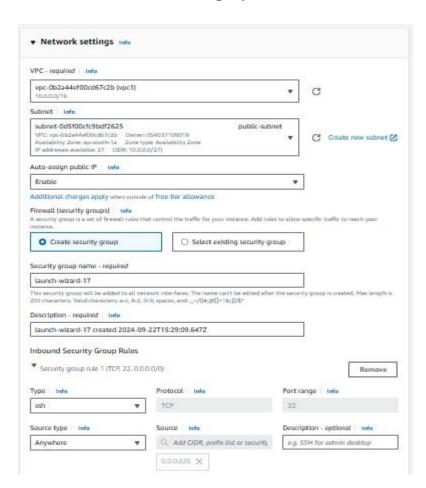


- 3. Select the private-route
 - Click on routes
 - Click on edit routes
 - Click on add routes
 - Give created VPC 1 IP address and select peering connection and select created peering connection ID and click on save changes as shown in below figure



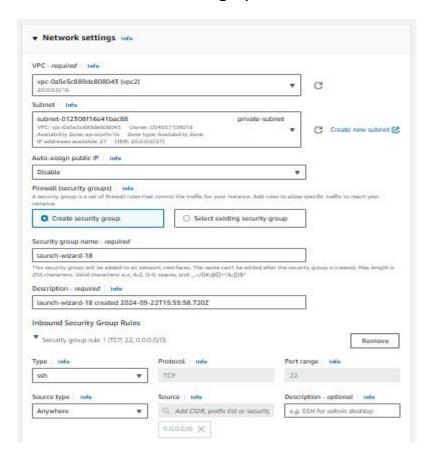
Step 10:

- 1. Go to EC2 services
- 2. Create two instances
- 3. One instance with VPC 1 and another instance with VPC 2
- 4. Click on launch instance
 - Give the name for instance
 - Select the AMI as amazon Linux
 - Select the key pair
 - Edit the network settings
 - Select the VPC as VPC 1
 - Select the subnet as public subnet
 - Enable the auto-assign public IP as shown in below figure



• Finally click on launch instance

- 5. Create another instance
 - Give the name for instance
 - Select the AMI as amazon Linux
 - Select the key pair
 - Edit the network settings
 - Select the VPC as VPC 2
 - Select the subnet as private subnet
 - Disable the auto-assign public IP as shown in below figure

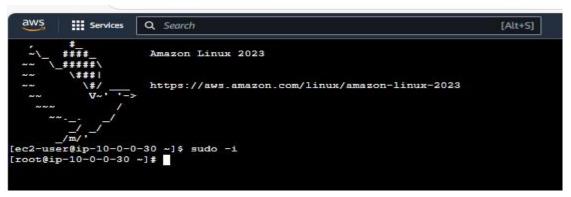


• Finally click on launch instance

Step 11:

- 1. Select public-instance or instance 1
- 2. Click on connect option

3. Click on EC2 instance connect and click on connect option then EC2 instance is connected to the server and type sudo -I to switch root user as shown in below figure



- 4. Select private instance or instance 2
 - Click on connect option
 - Select ssh client
 - Copy the key pair and go to server and type vi space then paste the copied key pair
 - Then vi editor is opened and copy the key pair content and paste in vi editor then save and quit
 - Go to ssh client and copy the chmod 400 "raj.pem" and paste in server
 - Copy the example URL and paste in server then server is switched from instance 1 to instance 2 server as shown in below figure