

LAB 4: VPC PEERING

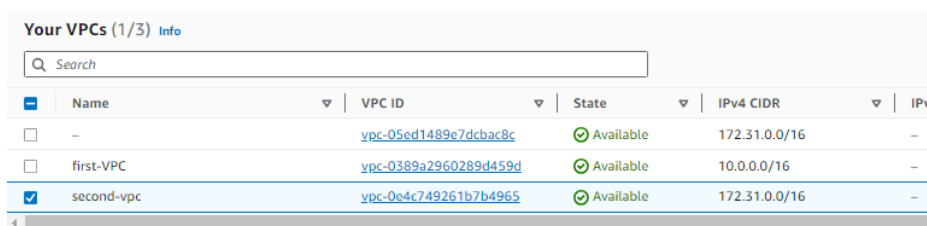
AIM: To create a vpc peering connection.

THEORY:

- A *virtual private cloud* (VPC) is a virtual network dedicated to your AWS account.
- It is logically isolated from other virtual networks in the AWS Cloud. You can launch AWS resources, such as Amazon EC2 instances, into your VPC.
- A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses.
- Instances in either VPC can communicate with each other as if they are within the same network.
- You can create a VPC peering connection between your own VPCs, or with a VPC in another AWS account.
- The VPCs can be in different Regions (also known as an inter-Region VPC peering connection).

PROCEDURE:

1. Create two VPCs.



Your VPCs (1/3) Info					
<input type="text" value="Search"/>					
	Name	VPC ID	State	IPv4 CIDR	IPv6
<input type="checkbox"/>	-	vpc-05ed1489e7dcbac8c	Available	172.31.0.0/16	-
<input type="checkbox"/>	first-VPC	vpc-0389a2960289d459d	Available	10.0.0.0/16	-
<input checked="" type="checkbox"/>	second-vpc	vpc-0e4c749261b7b4965	Available	172.31.0.0/16	-

2. Create a peering connection

VPC > Peering connections > Create peering connection

Create peering connection

A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them privately.

Info

Peering connection settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

Select a local VPC to peer with

VPC ID (Requester)

VPC CIDRs for vpc-0389a2960289d459d (first-VPC)

CIDR	Status	Status reason
10.0.0.0/16	Associated	-

Select another VPC to peer with

Account
☒ My account
☐ Another account

Region
☒ This Region (ap-south-1)
☐ Another Region

VPC ID (Acceptor)

VPC CIDRs for vpc-0e4c749261b7b4965 (second-vpc)

CIDR	Status	Status reason
172.31.0.0/16	Associated	-

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

3. Accept the peering connection request.

✔ Your VPC peering connection (pcx-0fabd71a4f3700d55) (demoPeeringConnection) has been established.
To send and receive traffic across this VPC peering connection, you must add a route to the peered VPC in one or more of your VPC route tables. [View](#)

VPC > Peering connections > pcx-0fabd71a4f3700d55

pcx-0fabd71a4f3700d55 / demoPeeringConnection

Details [Info](#)

Requester owner ID 058264174589	Acceptor owner ID 058264174589	VPC Peering connection ARN arn:aws:ec2:ap-south-1:
Peering connection ID pcx-0fabd71a4f3700d55	Requester VPC vpc-0389a2960289d459d / first-VPC	Acceptor VPC vpc-0e4c749261b7b4965 / s
Status Active	Requester CIDRs 10.0.0.0/16	Acceptor CIDRs 172.31.0.0/16
Expiration time -	Requester Region Mumbai (ap-south-1)	Acceptor Region Mumbai (ap-south-1)

DNS | **Route tables** | **Tags**

DNS settings

Requester VPC ([vpc-0389a2960289d459d / first-VPC](#)) [Info](#)

Allow acceptor VPC to resolve DNS of hosts in requester VPC to private IP addresses
☐ Disabled

Acceptor VPC ([vpc-0e4c749261b7b4965 / second-vpc](#)) [Info](#)

Allow requester VPC to resolve DNS of hosts in acceptor VPC to private IP addresses
☐ Disabled

4. Configure the route table and send traffic to the connection.

VPC > Route tables > rtb-0add6bfb333f8064c

rtb-0add6bfb333f8064c / publicRouteTable-first vpc

Details Info

Route table ID rtb-0add6bfb333f8064c	Main No	Explicit subnet 2 subnets
VPC vpc-0389a2960289d459d first-VPC	Owner ID 058264174589	

Routes Subnet associations Edge associations Route propagation Tags

Routes (3)

Filter routes

Destination	Target	Status
0.0.0.0/0	igw-08980b48a8e8f6cfa	Active
10.0.0.0/16	local	Active
172.31.0.0/16	pcx-0fabd71a4f3700d55	Active

5. TESTING THE VPC PEERING CONNECTION: A SUCCESSFUL CONNECTION WAS OBSERVED AS THE OTHER VPC DIDN'T HAVE AN INTERNET GATEWAY