

Lesson 05 Demo 07

Configuring VPC Peering Connections

Objective: To connect two VPCs with different regions using a peering connection for secure connection

Tools required: AWS Management Console

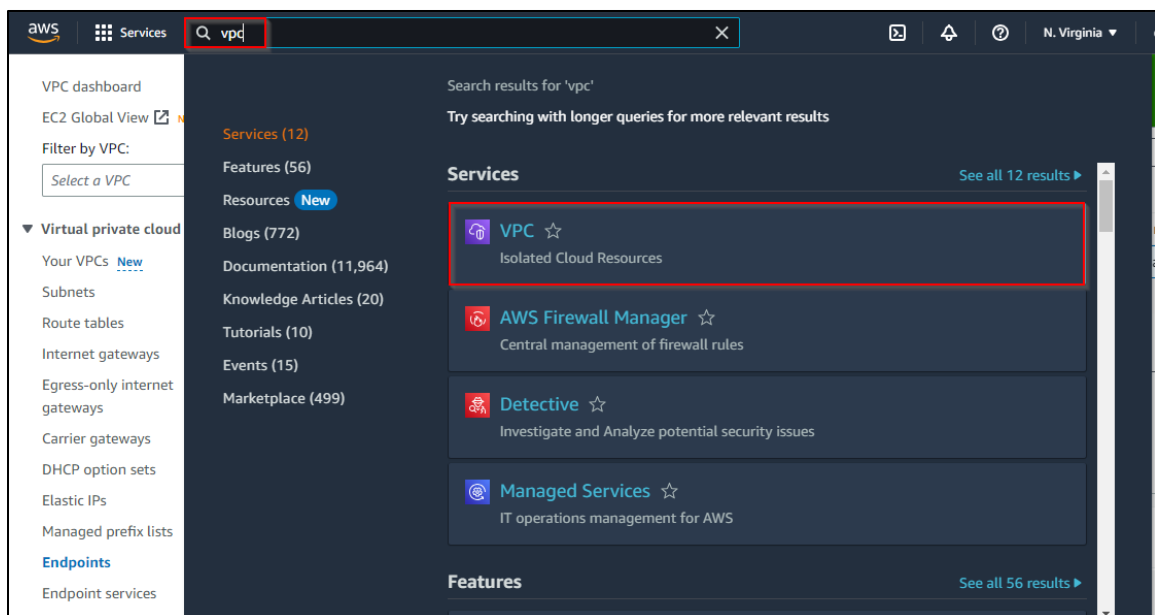
Prerequisites: AWS account

Steps to be followed:

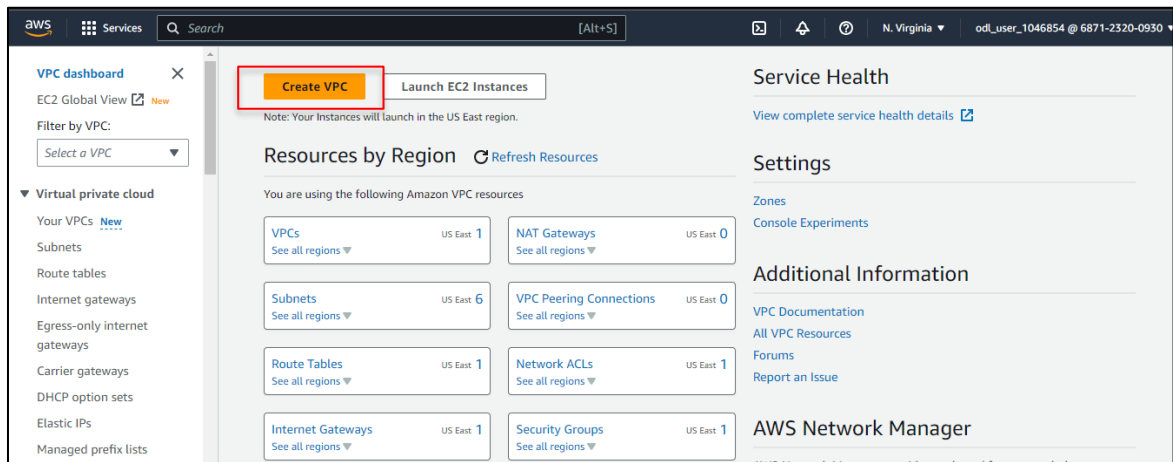
1. Create two VPCs in different regions
2. Configure Peer connection

Step 1: Create two VPCs in different regions

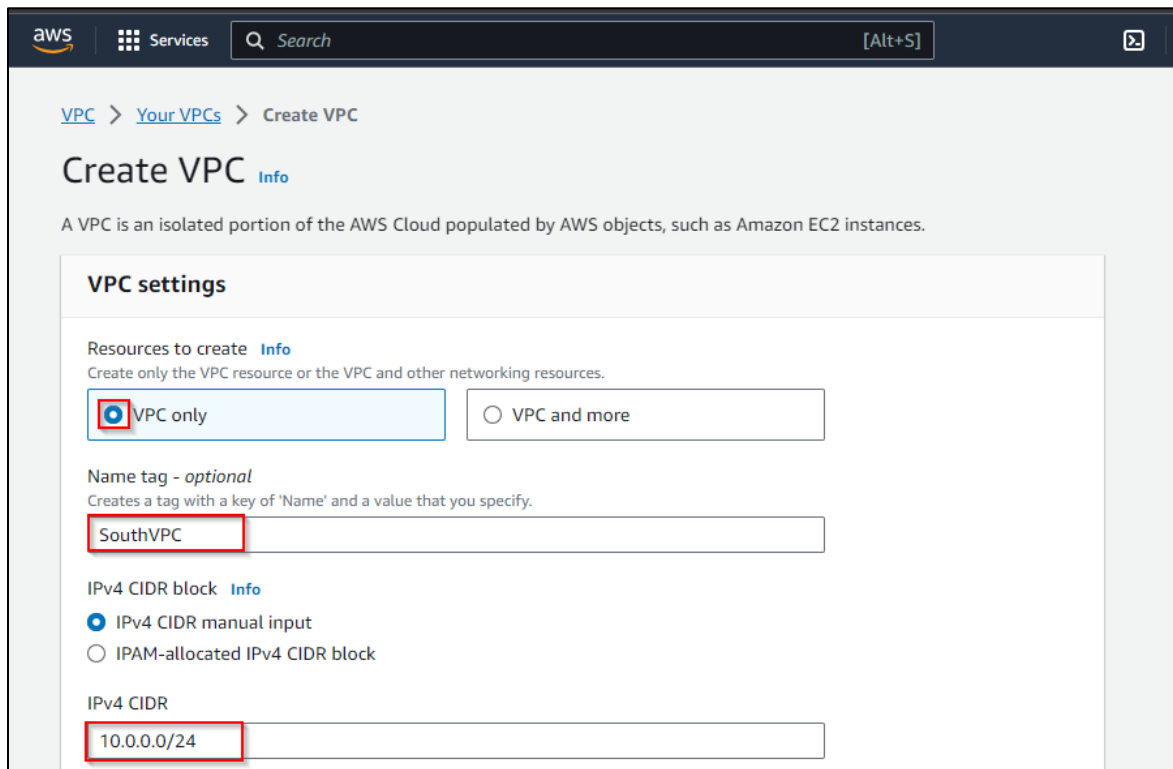
1.1 Navigate to the AWS Management Console, search for, and select **VPC**



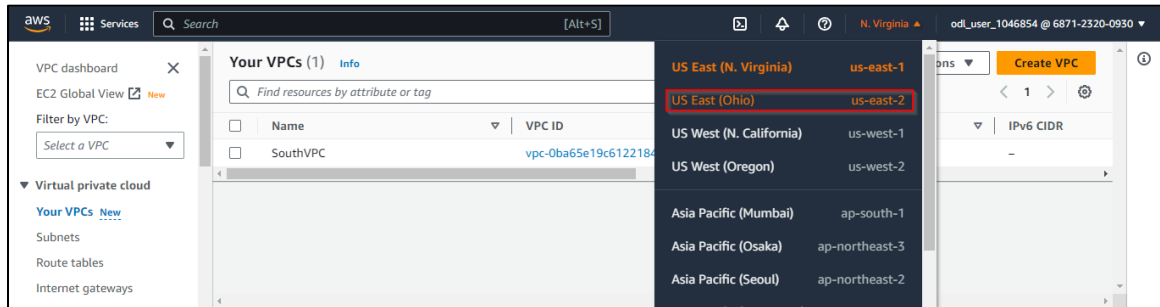
1.2 Click on **Create VPC**



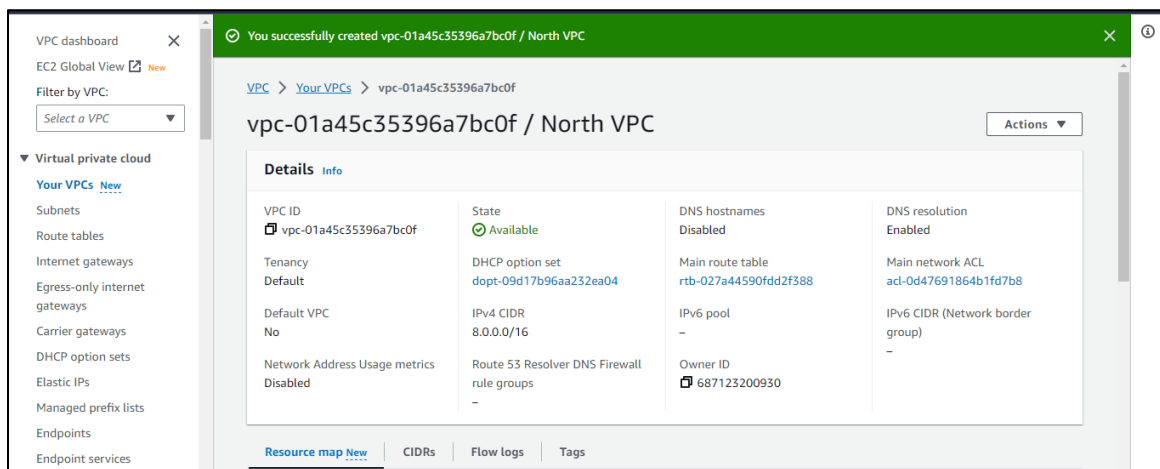
1.3 Provide a name for the first **VPC** as **SouthVPC**, choose manual input for IPv4 CIDR, and enter **10.0.0.0/24** in the **IPv4 CIDR** field



1.5 Click on the region selector and switch the region to **US East (Ohio)** to create the second VPC



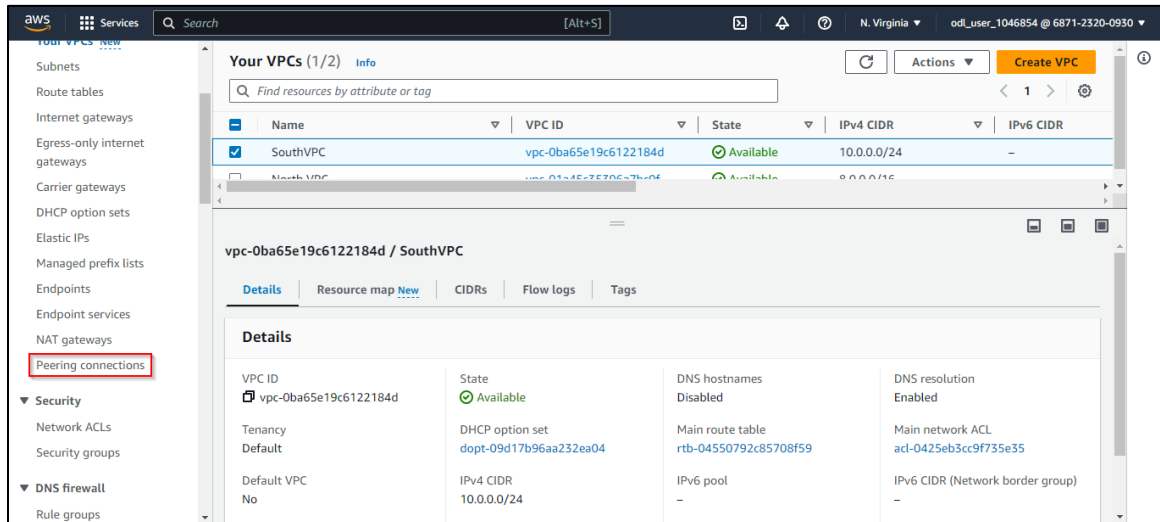
Repeat the steps from 1.1 to 1.4 to create the second VPC. Name it **North VPC** and use the IPv4 CIDR block **8.0.0.0/16** to ensure a different range.



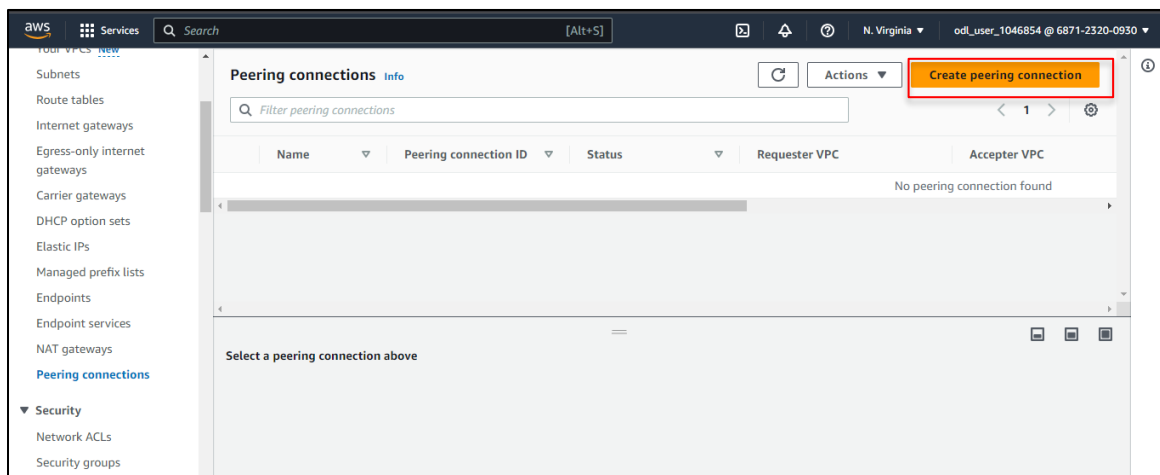
North VPC has been created successfully.

Step 2: Configure Peer Connection

2.1 Navigate to Peering connections in the VPC dashboard



2.2 Click on Create peering connection



2.3 Enter the name **first-peering** and select the VPC ID of **SouthVPC**

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.

first-peering

Select a local VPC to peer with

VPC ID (Requester)

vpc-0ba65e19c6122184d (SouthVPC)

Q |

vpc-01a45c35396a7bc0f (North VPC)

vpc-0b6b13e9cee832d0c (default)

vpc-0ba65e19c6122184d (SouthVPC)

2.4 Choose the **default VPC** in the **VPC ID (Acceptor)** field

Select another VPC to peer with

Account

☒ My account

☐ Another account

Region

☒ This Region (us-east-1)

☐ Another Region

VPC ID (Acceptor)

vpc-0b6b13e9cee832d0c

Q |

vpc-01a45c35396a7bc0f (North VPC)

vpc-0b6b13e9cee832d0c (default)

vpc-0ba65e19c6122184d (SouthVPC)

2.5 Click on **Create peering connection**

10.0.0.0/24

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.

Key	Value - optional	
<input type="text" value="Name"/>	<input type="text" value="first-peering"/>	<input type="button" value="Remove"/>

You can add 49 more tags.

A VPC peering connection pcx-0fde28da897b0dcc4 / first-peering has been requested.

VPC > Peering connections > pcx-0fde28da897b0dcc4

pcx-0fde28da897b0dcc4 / first-peering

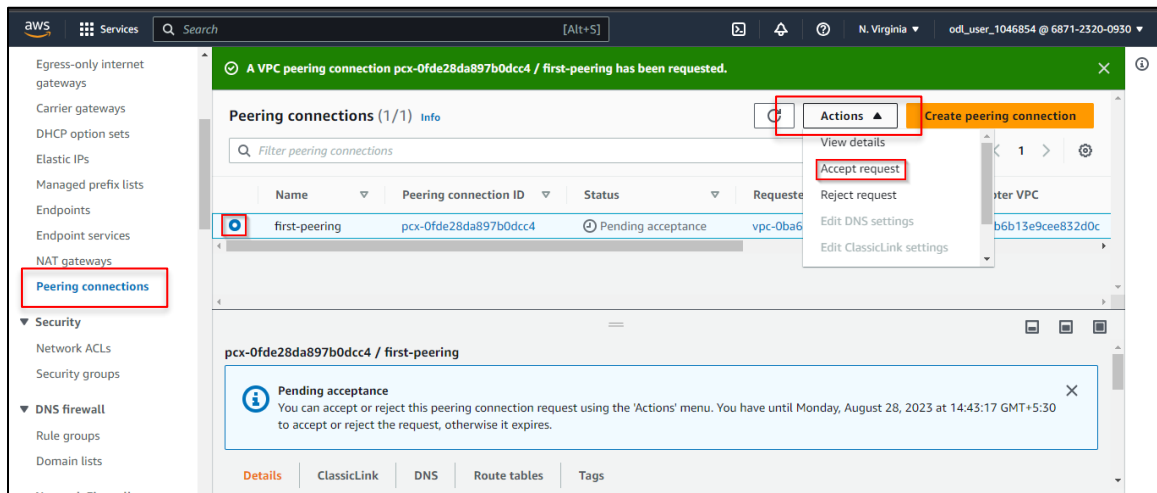
Pending acceptance

You can accept or reject this peering connection request using the 'Actions' menu. You have until Monday, August 28, 2023 at 14:43:17 GMT+5:30 to accept or reject the request, otherwise it expires.

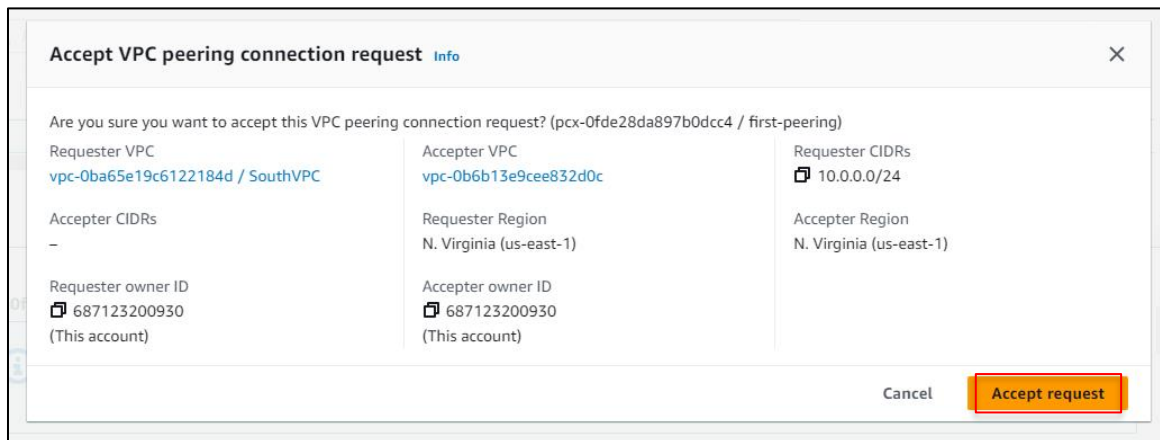
Details info		
Requester owner ID 687123200930	Accepter owner ID 687123200930	VPC Peering connection ARN arn:aws:ec2:us-east-1:687123200930:vpc-peering-connection/pcx-0fde28da897b0dcc4
Peering connection ID pcx-0fde28da897b0dcc4	Requester VPC vpc-0ba65e19c6122184d / SouthVPC	Accepter VPC vpc-0b6b13e9cee832d0c
Status Pending Acceptance by 687123200930	Requester CIDRs 10.0.0.0/24	Accepter CIDRs -
Expiration time Monday, August 28, 2023 at 14:43:17	Requester Region N. Virginia (us-east-1)	Accepter Region -

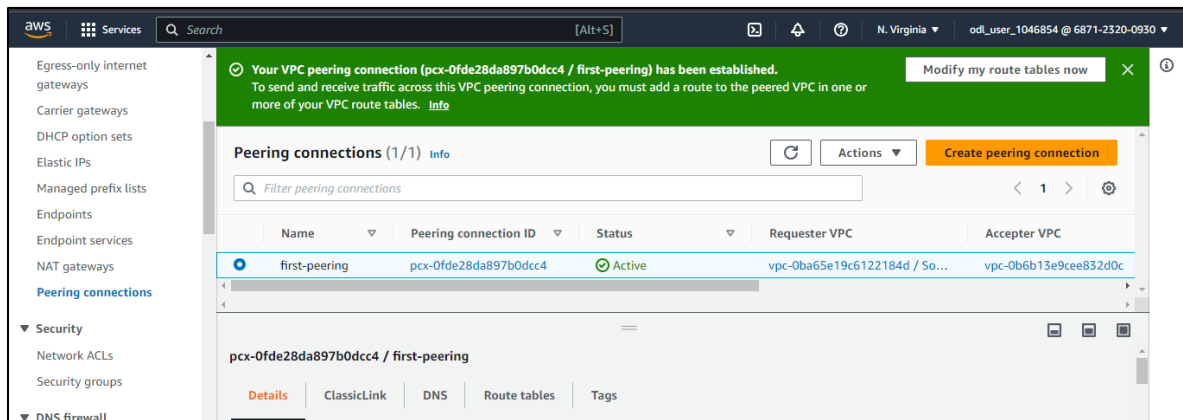
A VPC peering connection has been requested.

2.6 Return to the **Peering connections** section and click on **Accept request** under **Actions**



2.7 Review the information presented and click on **Accept request**





The VPC peering connection has now been successfully established.

By using these steps, you have successfully established a VPC peering connection between SouthVPC and North VPC, enabling secure communication between the two VPCs located in different regions.