

## Lesson 05 Demo 07

### Configuring VPC Peering Connections

**Objective:** To connect two VPCs with different regions using peering connection

**Tools required:** AWS Management Console

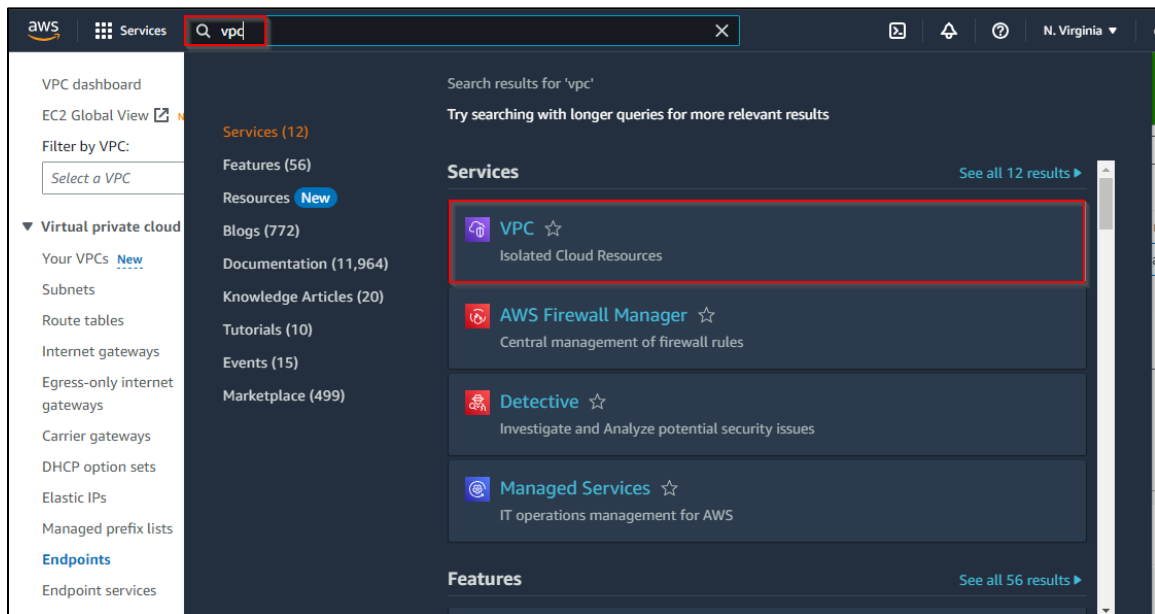
**Prerequisites:** AWS account

Steps to be followed:

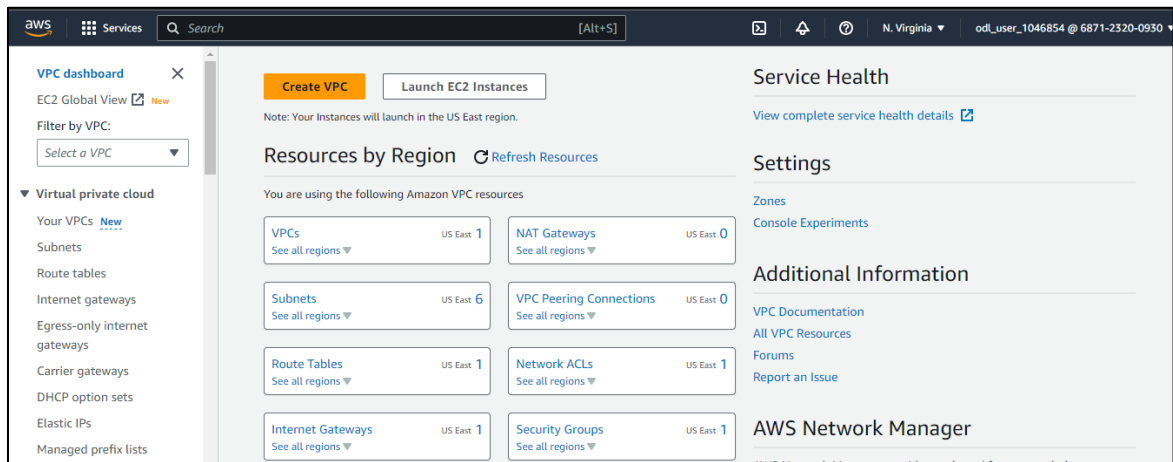
1. Create two VPCs with different regions
2. Configure Peer connection

#### Step 1: Creating two VPCs with different regions

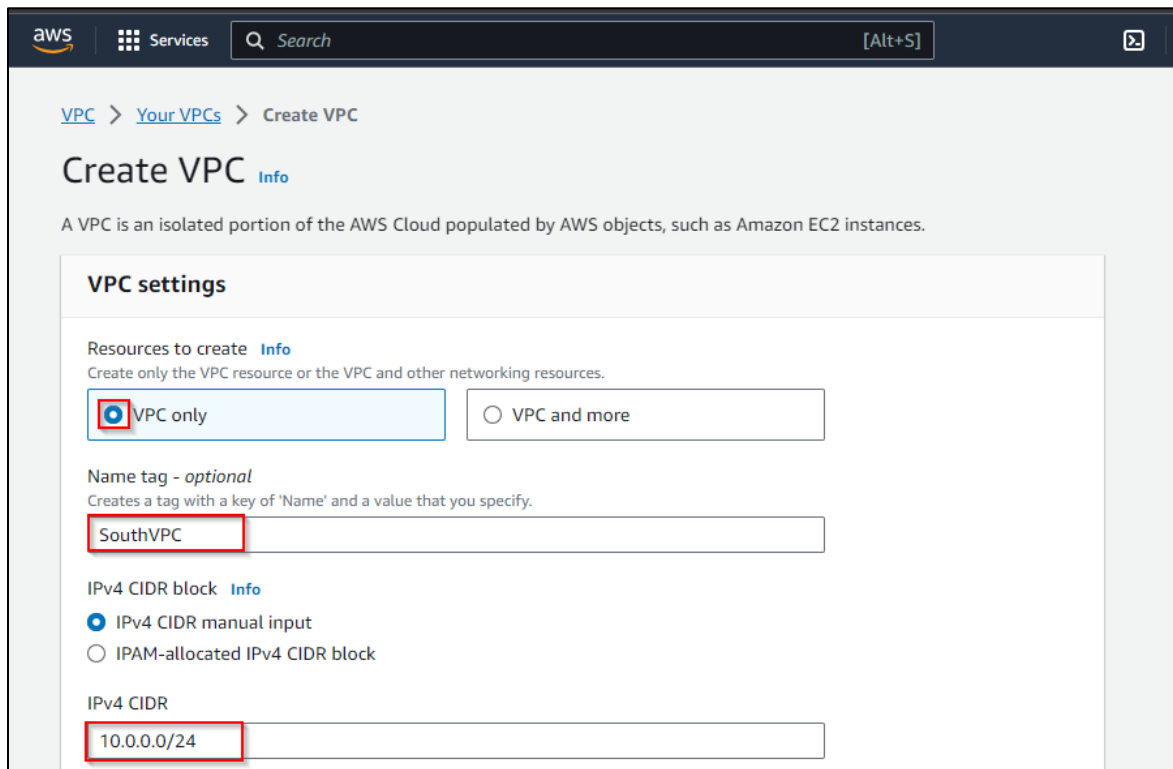
1.1 Navigate to the AWS Management Console, search and select **VPC**



## 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



## 1.4 Click on **Create VPC**

Tenancy [Info](#)

Default

### 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="SouthVPC"/>	<input type="button" value="Remove tag"/>

You can add 49 more tags

SouthVPC has been successfully created.

**You successfully created vpc-0ba65e19c6122184d / SouthVPC**

[VPC](#) > [Your VPCs](#) > vpc-0ba65e19c6122184d

### vpc-0ba65e19c6122184d / SouthVPC

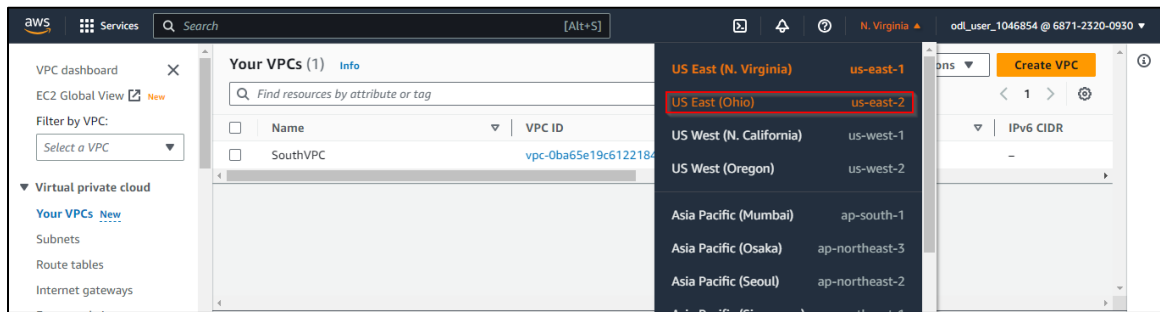
[Actions](#)

Details <a href="#">Info</a>			
VPC ID vpc-0ba65e19c6122184d	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-09d17b96aa232ea04	Main route table rtb-04550792c85708f59	Main network ACL acl-0425eb3cc9f735e35
Default VPC No	IPv4 CIDR 10.0.0.0/24	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 687123200930	

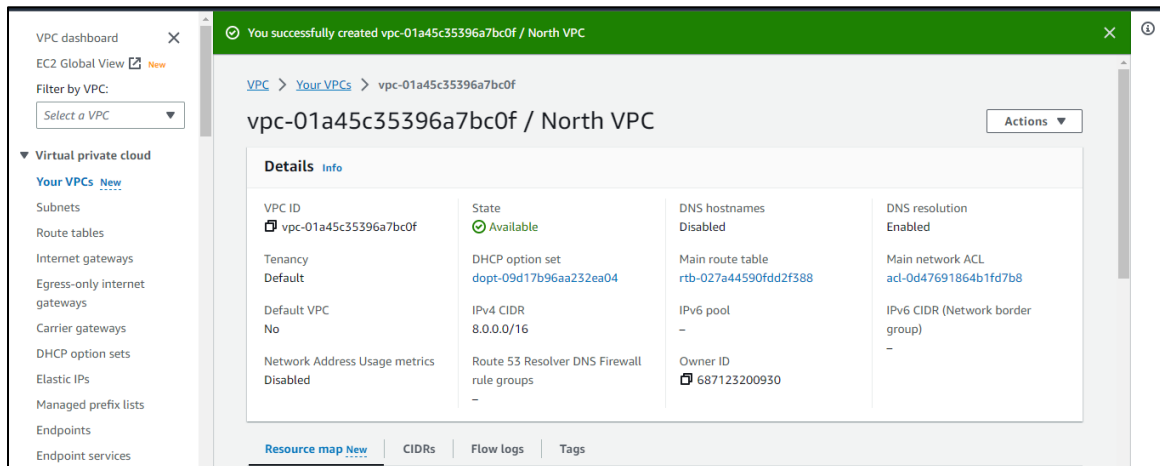
[Resource map](#) [New](#) | [CIDRs](#) | [Flow logs](#) | [Tags](#)

[Resource map](#) [Info](#)

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



Repeat the steps from 1.1 to 1.4 for creating the second VPC, name it as 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

The screenshot shows the AWS VPC console interface. In the left-hand navigation menu, the 'Peering connections' link is highlighted with a red rectangle. The main content area displays 'Your VPCs (1/2)' with a table listing VPCs. Below this, the details for 'vpc-0ba65e19c6122184d / SouthVPC' are shown, including its state (Available), DNS settings, and other configuration details.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
SouthVPC	vpc-0ba65e19c6122184d	Available	10.0.0.0/24	-

### 2.2 Click on Create peering connection

The screenshot shows the AWS VPC console interface with the 'Peering connections' page selected. The 'Create peering connection' button is visible in the top right corner. The main content area shows a table for peering connections, which is currently empty, displaying the message 'No peering connection found'.

Name	Peering connection ID	Status	Requester VPC	Accepter VPC
No peering connection found				

## 2.3 Enter the name as **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)	
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	
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

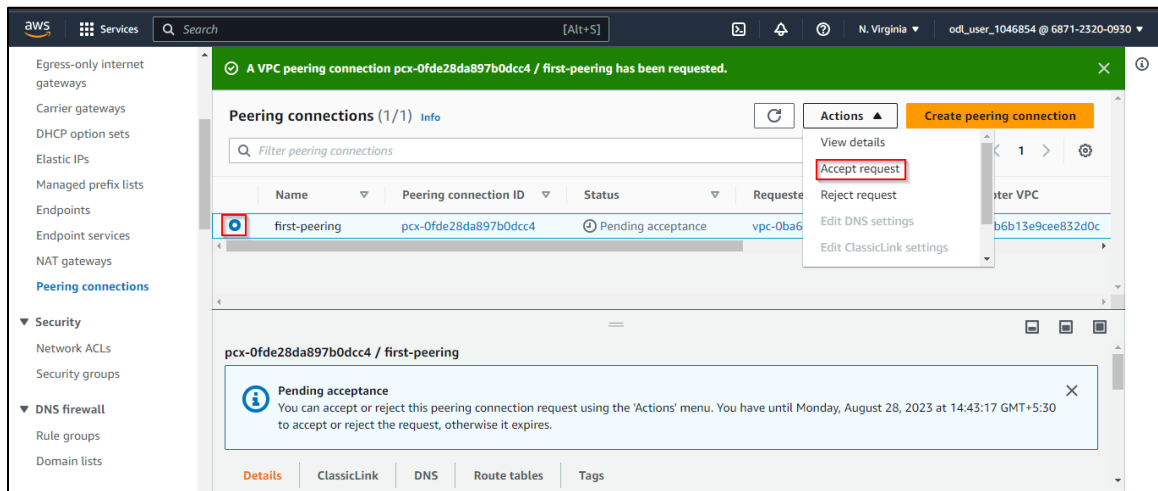
You can add 49 more tags.

The screenshot shows the AWS Management Console interface. A green notification banner at the top states: "A VPC peering connection pcx-0fde28da897b0dcc4 / first-peering has been requested." The left sidebar shows the "Virtual private cloud" section expanded. The main content area displays the details for the VPC peering connection "pcx-0fde28da897b0dcc4 / first-peering". A "Pending acceptance" message indicates that the request must be accepted or rejected by Monday, August 28, 2023, at 14:43:17 GMT+5:30. The details table shows the requester and acceptor information.

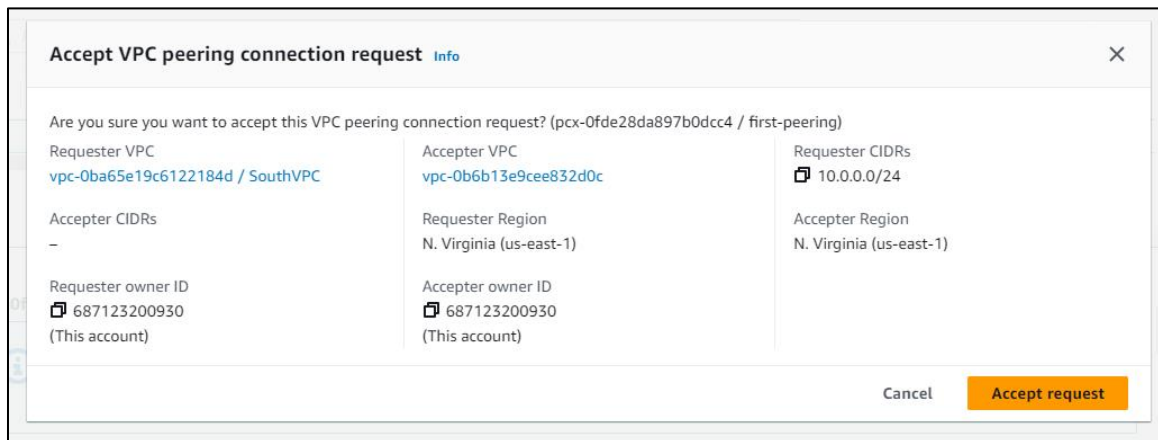
Details		
Requester owner ID 687123200930	Acceptor owner ID 687123200930	VPC Peering connection ARN arn:aws:ec2:us-east-1:687123200930:vpc-peering-connection/pcx-0fde28da897b0dcc4
Peering connection ID pcx-0fde28da897b0dcc4	Requester VPC vpc-0ba65e19c6122184d / SouthVPC	Acceptor VPC vpc-0b6b13e9cee832d0c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

VPC peering connection has been requested.

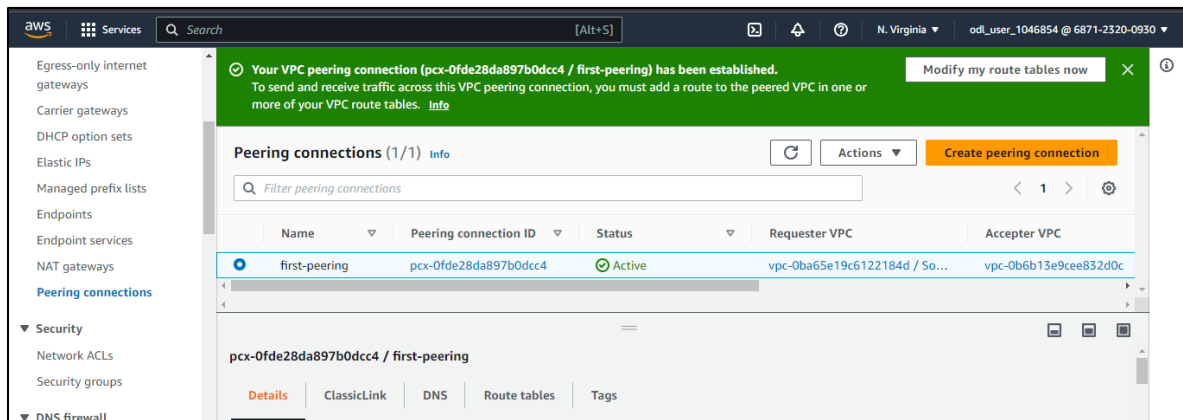
## 2.6 Return to the **Peering connections** section and click on **Accept request** under **Actions**



## 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 will have successfully established a VPC peering connection between SouthVPC and North VPC, enabling secure communication between the two VPCs located in different regions.