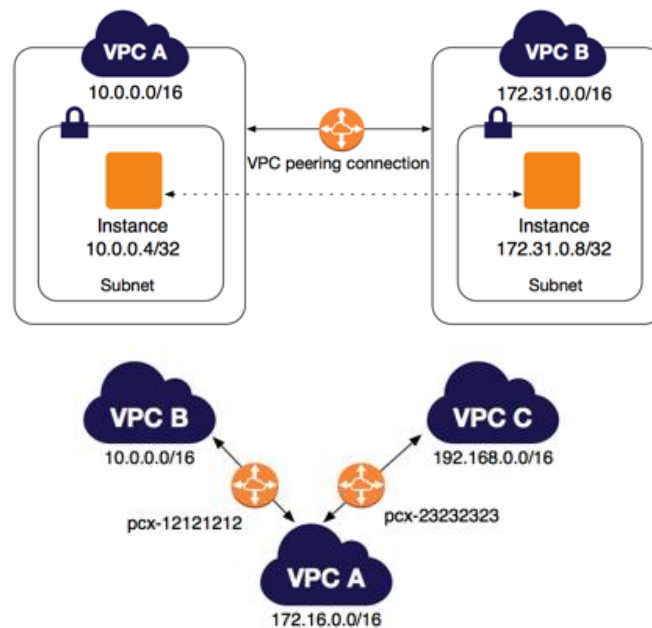


AWS Quick Start Guide: Amazon Virtual Private Cloud VPC Peering Connections Documentation

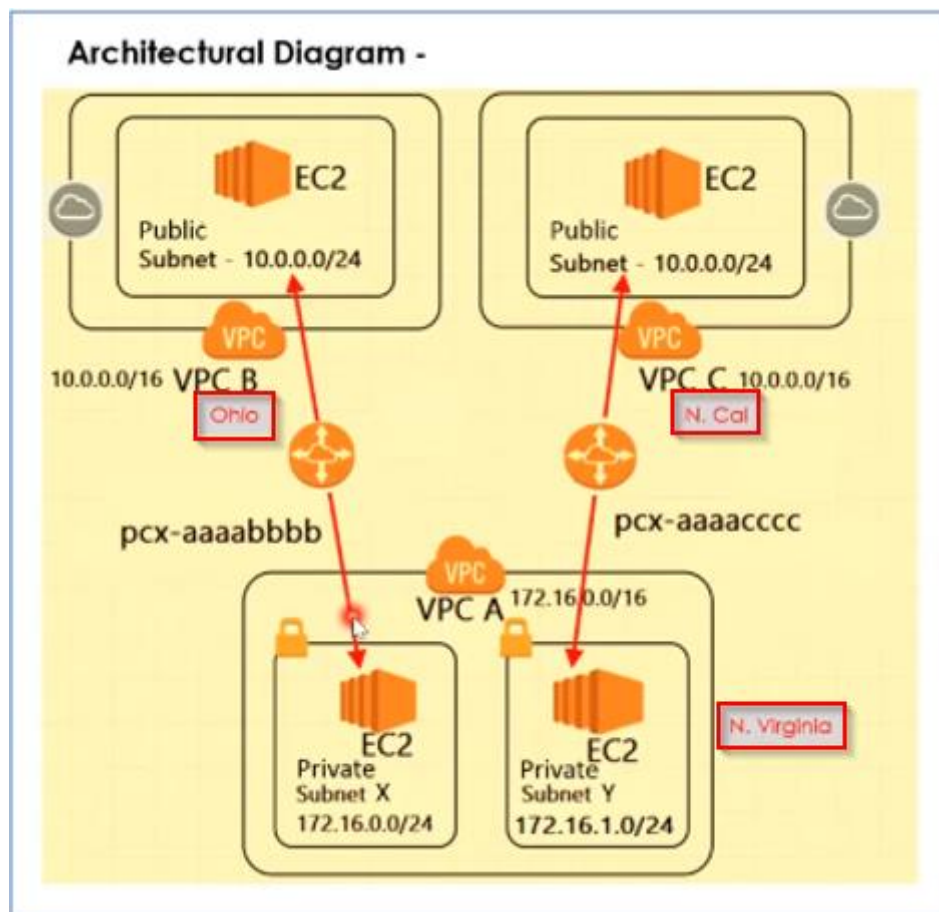
[Amazon Virtual Private Cloud](#) (Amazon VPC) enables you to launch AWS resources into a virtual network that you've defined.

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).



Route Table	Destination	Target
VPC A -- Private Subnet X RT	172.16.0.0/16	Local
	10.0.0.0/16	PCX -AB
VPC B -- Private Subnet Y RT	172.16.0.0/16	Local
	10.0.0.0/16	PCX - AC
VPC B -- Public Subnet RT	10.0.0.0/16	Local
	172.16.0.0/24	PCX -AB
	0.0.0.0/0	IGW
VPC C -- Public Subnet RT	10.0.0.0/16	Local
	172.16.1.0/24	PCX -AB
	0.0.0.0/0	IGW

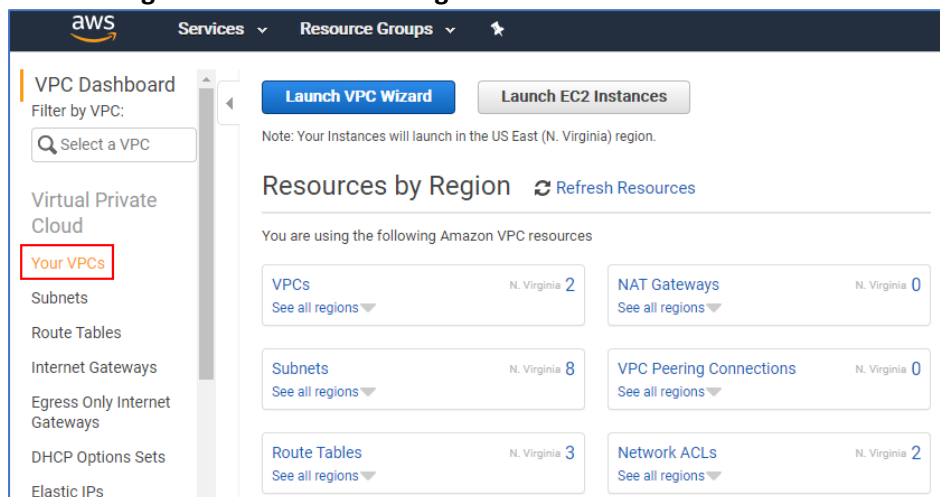
VPC A	172.16.0.0/16	
	Private Subnet X	172.16.0.0/24
	Private Subnet Y	172.16.1.0/24
VPC B	10.0.0.0/16	
	Public Subnet B	10.0.0.0/24
VPC C	10.0.0.0/16	
	Public Subnet C	10.0.0.0/24



Accessing Amazon VPC

You can create, access, and manage your VPCs using any of the following interfaces:

1. **AWS Management Console – N. Virginia - VPCs. -> Your VPCs**



2. **Create VPC as below:**

VPCs > Create VPC

Create VPC

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.

Name tag:

IPv4 CIDR block*:

IPv6 CIDR block: ☒ No IPv6 CIDR Block ☐ Amazon provided IPv6 CIDR block

Tenancy:

* Required

[Cancel](#) [Create](#)

3. Now we can create two Subnet -> 1)VPC A - Private Subnet X 2)VPC A - Private Subnet Y

Subnets > Create subnet

Create subnet

Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag: VPC A - Private Subnet X ⓘ

VPC*: vpc-0f8de236c3b543afd ⓘ

CIDR	Status	Status Reason
172.16.0.0/16	associated	

Availability Zone: us-east-1a ⓘ

IPv4 CIDR block*: 172.16.0.0/24 ⓘ

* Required

Cancel Create

2)VPC A - Private Subnet Y

Subnets > Create subnet

Create subnet

Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag: VPC A - Private Subnet Y ⓘ

VPC*: vpc-0f8de236c3b543afd ⓘ

CIDR	Status	Status Reason
172.16.0.0/16	associated	

Availability Zone: us-east-1b ⓘ

IPv4 CIDR block*: 172.16.1.0/24 ⓘ

* Required

Cancel Create

4. Now switch region to 'OHIO'

5. Create VPC 'VPC B'

VPCs > Create VPC

Create VPC

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.

Name tag: VPC B ⓘ

IPv4 CIDR block*: 10.0.0.0/16 ⓘ

IPv6 CIDR block: ☒ No IPv6 CIDR Block ⓘ ☐ Amazon provided IPv6 CIDR block

Tenancy: Default ⓘ

* Required

Cancel Create

Create a Subnet 'VPC B – Public Subnet'

Create subnet

Create subnet

Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag: VPC B - Public Subnet ⓘ

VPC*: vpc-0885aa1269044538f ⓘ

CIDR	Status	Status Reason
10.0.0.0/16	associated	

Availability Zone: us-east-2a ⓘ

IPv4 CIDR block*: 10.0.0.0/24 ⓘ

* Required

Cancel Create

6. Please create an Internet gateway "VPC-B IGW" and then attached to your VPC

Internet gateways > Create internet gateway

Create internet gateway

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Name tag: MyIGW ⓘ

* Required

Cancel Create

Create internet gateway **Actions** 2

Filter by tags and attributes

1 **MyIGW** **igw-06697b956c4...** **detached** **VPC** **Owner** **521800872068**

igw-8076c1fb **attached** **vpc-92a5e5e8** **521800872068**

Internet gateways > Attach to VPC

Attach to VPC

Attach an internet gateway to a VPC to enable communication with the internet. Specify the VPC you would like to attach below.

VPC* **Select a VPC** 1

AWS Command Line **Filter by attributes**

VPC ID **Name**

vpc-0b07598a4a2c11e95 **myVPC-Tech**

*** Required** **Cancel** **Attach**

7. Switch to N.California

Create VPC C

VPCs > Create VPC

Create VPC

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.

Name tag **VPC C** 1

IPv4 CIDR block* **10.0.0.0/16** 1

IPv6 CIDR block **No IPv6 CIDR Block** 1

Tenancy **Default** 1

*** Required** **Cancel** **Create**

8. Create a Subnet 'VPC C – Public Subnet'

Subnets > Create subnet

Create subnet

Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag **VPC C Public Subnet** 1

VPC* **vpc-02ac8b2da892f594b** 1

VPC CIDRs

CIDR	Status	Status Reason
10.0.0.0/16	associated	

Availability Zone **us-west-1a** 1

IPv4 CIDR block* **10.0.0.0/24** 1

*** Required** **Cancel** **Create**

9. Please create an Internet gateway "VPC - C IGW" and then attached to your VPC

Internet gateways > Create internet gateway

Create internet gateway

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Name tag **MyIGW** 1

*** Required** **Cancel** **Create**

Create internet gateway **Actions** 2

Filter by tags and attributes

1 **MyIGW** **igw-06697b956c4...** **detached** **VPC** **Owner** **521800872068**

igw-8076c1fb **attached** **vpc-92a5e5e8** **521800872068**

Delete internet gateway **Attach to VPC** 3

Internet gateways > Attach to VPC

Attach to VPC

Attach an internet gateway to a VPC to enable communication with the internet. Specify the VPC you would like to attach below.

VPC*

AWS Command Line

VPC ID	Name
vpc-0b07598a4a2c11e95	myVPC-Tech

* Required

Cancel **Attach**

10. Create 'Route Table'

Route Tables > Create route table

Create route table

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Name tag

VPC*

* Required

Cancel **Create**

VPC C – Public Subnet RT	10.0.0.0/16	Local
	172.16.1.0/24	pcx-aaaacccc
	0.0.0.0/0	IGW

Create route table Actions

Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name	Route Table ID	Explicit subnet association	Main	VPC ID
<input checked="" type="checkbox"/>	VPC C - Public Subnet RT	rtb-05271ec8a12607a2e	-	No	vpc-02ac8b2da892f594b ...
<input type="checkbox"/>		rtb-0d06a49eb907eec19	-	Yes	vpc-02ac8b2da892f594b ...
<input type="checkbox"/>		rtb-d08c0fb6	-	Yes	vpc-5aedf93d

Route Table: rtb-05271ec8a12607a2e

Summary **Routes** Subnet Associations Route Propagation Tags

Edit routes

View

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No

11. Add route table –

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0	igw-		No

Add route

igw-0f38ec7f13bc3d9f9 VPC - C IGW

* Required

Cancel **Save routes**

12. Now we have to do 'Subnet Associations'

VPC Dashboard
Filter by VPC:
Select a VPC

Virtual Private Cloud
Your VPCs
Subnets
Route Tables 1
Internet Gateways
Egress Only Internet Gateways
DHCP Options Sets
Elastic IPs
Endpoints
Endpoint Services
NAT Gateways
Peering Connections

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet association	Main
VPC C - Public Subnet RT 2	rtb-05271ec8a12607a2e	-	No
	rtb-0d06a49eb907eec19	-	Yes
	rtb-d08c0fb6	-	Yes

Route Table: rtb-05271ec8a12607a2e 3

Summary Routes **Subnet Associations** Route Propagation Tags

Edit subnet associations 4

Subnet ID	IPv4 CIDR	IPv6 CIDR
You do not have any subnet associations.		

Edit subnet associations

Route table: rtb-05271ec8a12607a2e (VPC C - Public Subnet RT)

Associated subnets: subnet-02f6da3bf5b2913cb

Filter by attributes or search by keyword

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-02f6da3bf5b2913cb VPC C Pub... 1	10.0.0.0/24	-	Main

* Required

Cancel **Save** 2

13. Switch to **Ohio** and do the (10-12) same activities for **VPC-B**

Create 'Route Table' VPC B – Public Subnet RT

Create route table

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Name tag: **VPC B - Public Subnet RT**

VPC: vpc-0885aa1269044538f

* Required

Cancel **Create**

VPC Dashboard
Filter by VPC:
Select a VPC

Virtual Private Cloud
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
DHCP Options Sets
Elastic IPs
Endpoints
Endpoint Services
NAT Gateways
Peering Connections

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet association	Main
VPC C - Public Subnet RT	rtb-05271ec8a12607a2e	subnet-02f6da3bf5b2913cb	No
	rtb-0d06a49eb907eec19	-	Yes
	rtb-d08c0fb6	-	Yes

Route Table: rtb-05271ec8a12607a2e

Summary Routes **Subnet Associations** Route Propagation Tags

Edit subnet associations

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-02f6da3bf5b2913c...	10.0.0.0/24	-

Route Tables > Edit subnet associations

Edit subnet associations

Route table: rtb-05271ec8a12607a2e (VPC C - Public Subnet RT)

Associated subnets: subnet-02f6da3bf5b2913cb

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-02f6da3bf5b2913cb VPC C Pub...	10.0.0.0/24	-	Main

* Required

Cancel Save

VPC Dashboard

Filter by VPC: Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables 1

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet association	Main
VPC B - Public Subnet RT	rtb-0d198625f5c1491208	-	No
	rtb-004f9b777627d1feb	-	Yes
	rtb-7f209c14	-	Yes

Route Table: rtb-0d198625f5c1491208

Summary **Routes** 3 Subnet Associations Route Propagation Tags

Edit routes 4

View All routes

Destination	Target	Status
10.0.0.0/16	local	active

VPC B - Public Subnet RT	10.0.0.0/16	Local
	172.16.0.0/24	pcx-aaaabbbb
	0.0.0.0/0	IGW

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0 1	igw- 2	No	No

Add route

igw-0c2d23eeec7bba39 VPC - B IGW 3

* Required

Cancel Save routes 4

Switch to **N. Virginia** and Create route table, This Subnet is private, and we will not have any internet gateway routing

14. Create Route Table as per below:

Route Tables > Create route table

Create route table

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Name tag: VPC A - Private Subnet RT

VPC: vpc-0f8de236c3b543afd

* Required

Cancel Create

VPC Dashboard

Filter by VPC:

Virtual Private Cloud

Your VPCs

Subnets

Route Tables 1

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet association	Main
<input type="checkbox"/> VPC A - Private Subnet X RT 2	rtb-0842fb813f6192ae5	-	Yes
<input checked="" type="checkbox"/> VPC A - Private Subnet Y RT 3	rtb-093a873ece8c4eebf	-	No
<input type="checkbox"/>	rtb-6e27e810	-	Yes

Route Table: rtb-093a873ece8c4eebf

Summary **Routes** Subnet Associations Route Propagation Tags

Edit routes 4

View All routes

Destination	Target	Status
172.16.0.0/16	local	active

15. Do the Subnet Associations

Route Tables > Edit subnet associations

Edit subnet associations

Route table rtb-093a873ece8c4eebf (VPC A - Private Subnet X RT)

Associated subnets subnet-00eb075a03917640b

Filter by attributes or search by keyword

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0db5c94d1abe09b77 VPC A - Private Subnet Y	172.16.1.0/24	-	Main
<input checked="" type="checkbox"/> subnet-00eb075a03917640b VPC A - Private Subnet X	172.16.0.0/24	-	Main

* Required

Cancel Save

PCX A 'N.Virginia'

16. Create a 'Route Table' VPC A – Private Subnet Y RT

Route Tables > Create route table

Create route table

A route table specifies how packets are forwarded between the subnets within the VPC, the internet, and your VPN connection.

Name tag

VPC*

* Required

Cancel Create

17. Do the 'Subnet Association'

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet association	Main
<input checked="" type="checkbox"/> VPC A Private Subnet Y RT	rtb-0d4170a42af9a240f	-	No
<input type="checkbox"/> VPC A - Private Subnet X RT	rtb-093a873ece8c4eebf	subnet-00eb075a03917640b	No
<input type="checkbox"/>	rtb-0842fb813f6192ae5	-	Yes
<input type="checkbox"/>	rtb-6e27e810	-	Yes

Route Table: rtb-0d4170a42af9a240f

Summary Routes **Subnet Associations** Route Propagation Tags

Edit subnet associations

Route Tables > Edit subnet associations

Edit subnet associations

Route table rtb-0d4170a42af9a240f (VPC A Private Subnet Y RT)

Associated subnets subnet-0db5c94d1abe09b77

Filter by attributes or search by keyword

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
<input checked="" type="checkbox"/> subnet-0db5c94d1abe09b77 VPC A - Private Subnet Y	172.16.1.0/24	-	Main
<input type="checkbox"/> subnet-00eb075a03917640b VPC A - Private Subnet X	172.16.0.0/24	-	rtb-093a873ece8c4eebf

* Required

Cancel Save

18. Now in same region N.Virginia, go to vpc peering and create peering connection

Peering Connections > Create Peering Connection

Create Peering Connection

Peering connection name tag

Select a local VPC to peer with

VPC (Requester):

CIDRs	Status	Status Reason
172.16.0.0/16	associated	

Select another VPC to peer with

Account: ☐ My account ☐ Another account

Region: ☐ This region (us-east-1) ☐ Another Region

VPC (Acceptor):

* Required

Cancel Create

Copy the vpc code from 'Ohio' region and paste it here

19. Now we can add 'Route Table'

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
172.16.0.0/16	local	active	No
<input type="text" value="10.0.0.0/16"/>	<input type="text" value="pcx-0d0dec480a10162ca"/>		No

Add route

* Required

Cancel Save routes

Route Table	Destination	Target
VPC A – Private Subnet X RT	172.16.0.0/16	Local
VPC A – Private Subnet Y RT	10.0.0.0/16	pcx-aaaabbbb
	10.0.0.0/16	pcx-aaaacccc

Go to 'Ohio' region and accept the request.

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Create Peering Connection

Filter by tags and attributes or

Name Peering

pcx-0cc1...

pcx-0d0dec480a1...

Pending Acce...

Requester VPC

vpc-0289d117a02...

vpc-0f8de236c3b5...

Accept Request

Reject Request

Delete VPC Peering Connection

Edit DNS Settings

Add/Edit Tags

Peering Connection: pcx-0d0dec480a10162ca

Accept VPC Peering Connection Request

Are you sure you want to accept this VPC peering connection request (pcx-0d0dec480a10162ca)?

Requester Account ID	521800872068 (This account)	Acceptor Account ID	521800872068 (This account)
Requester VPC ID	vpc-0f8de236c3b543afd	Acceptor VPC ID	vpc-0885aa1269044538f
Requester VPC Region	us-east-1	Acceptor VPC Region	us-east-2
Requester VPC CIDR	172.16.0.0/16	Acceptor VPC CIDR	-

Cancel Yes, Accept

Create Peering Connection

Actions

Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name	Peering Connecti	Status	Requester VPC	Accepter VPC	Requester CIDRs
<input type="checkbox"/>	pcx-0cc14f6348eb...		Deleted	vpc-0289d117a02...	vpc-0692e8bcb23...	-
<input checked="" type="checkbox"/>	pcx-0d0dec480a1...		Active	vpc-0f8de236c3b5...	vpc-0885aa12690...	172.16.0.0/16

20. Do the same peering for VPC C 'PCX C' of N. California from N. Virginia'

Peering Connections > Create Peering Connection

Create Peering Connection

Peering connection name tag ⓘ 1

Select a local VPC to peer with

VPC (Requester)* 2

CIDR	Status	Status Reason
172.16.0.0/16	associated	

Select another VPC to peer with

Account ☒ My account 3
☐ Another account

Region ☒ This region (us-east) 4
☒ Another Region

5

VPC (Accepter)* 6

* Required

Cancel 7

Copy the vpc code from 'N California' region and paste

Go to 'N. California' region and accept the request.

VPC Dashboard

Filter by VPC:

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Create Peering Connection Actions

Filter by tags and attributes or

<input checked="" type="checkbox"/>	Name	Peering	Requester VPC
<input checked="" type="checkbox"/>	pcx-0c943cfc7fa346d0		vpc-0f8de236c3b5...

Accept Request
 Reject Request
 Delete VPC Peering Connection
 Edit ClassicLink Settings
 Edit DNS Settings
 Add/Edit Tags

Peering Connection: pcx-0c943cfc7fa346d0

Description DNS Route Tables Tags

Requester VPC owner 521800872068

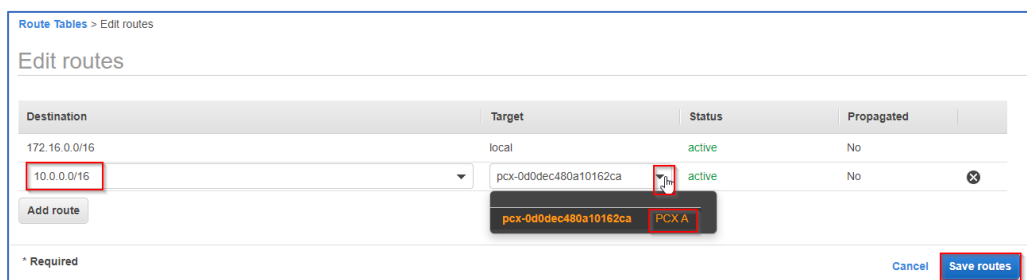
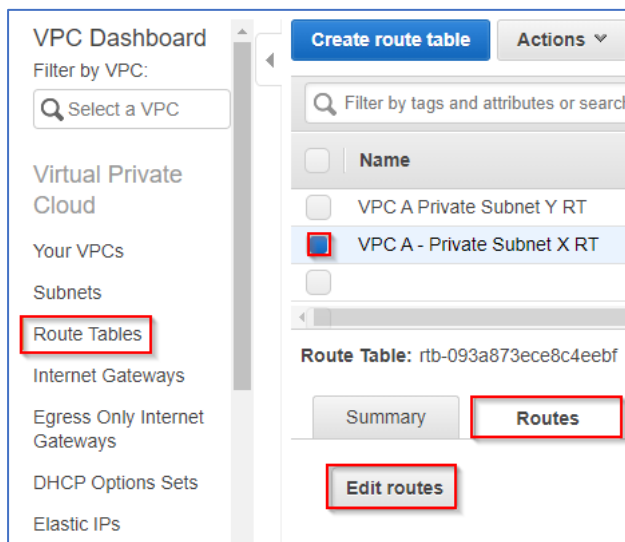
Accept VPC Peering Connection Request

Are you sure you want to accept this VPC peering connection request (pcx-0c943cfc7fa346d0)?

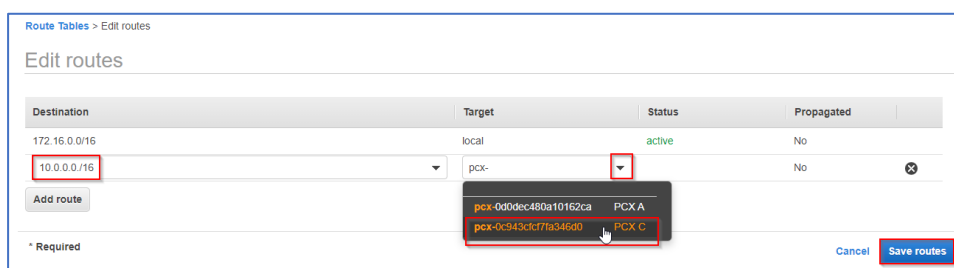
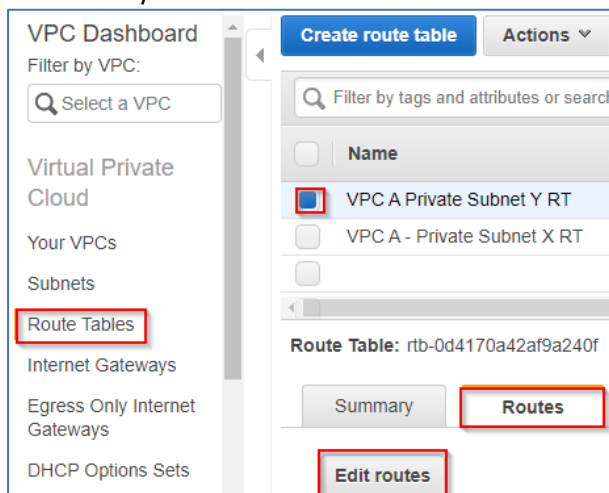
Requester Account ID	521800872068 (This account)	Accepter Account ID	521800872068 (This account)
Requester VPC ID	vpc-0f8de236c3b543afd	Accepter VPC ID	vpc-02ac8b2da892f594b
Requester VPC Region	us-east-1	Accepter VPC Region	us-west-1
Requester VPC CIDR	172.16.0.0/16	Accepter VPC CIDR	-

Cancel

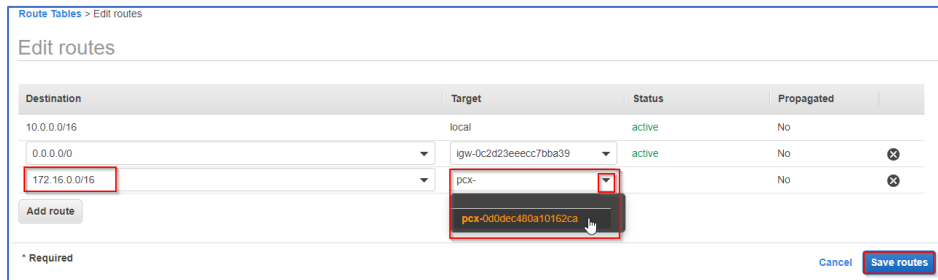
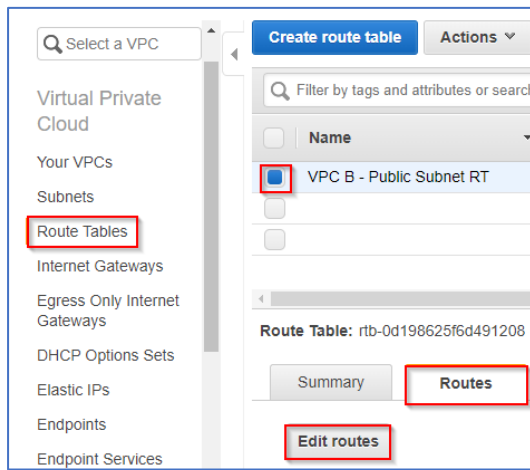
21. After this we need to add routes to Route table, switch to N virgina and do the routes association.



22. Now modify the route for VPC A 'Private Subnet Y RT'.

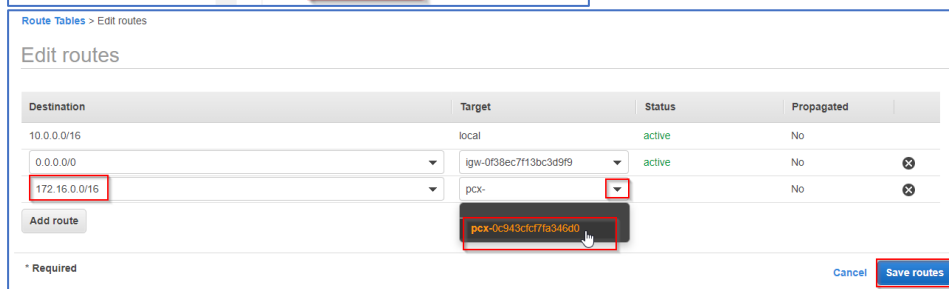
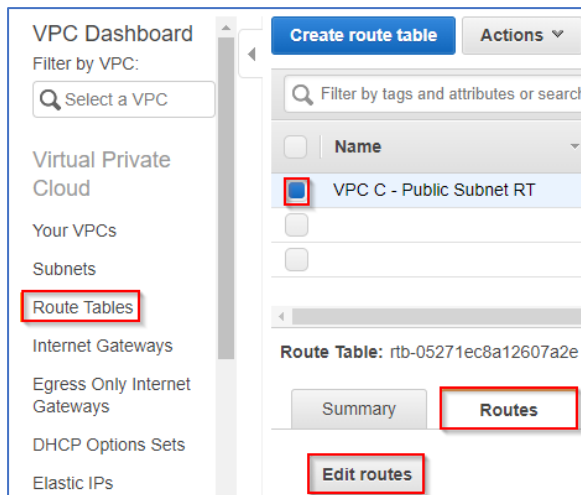


23. Now go to **Ohio** and we need to modify 'Route Table' for **VPC B** to add peering connection route.

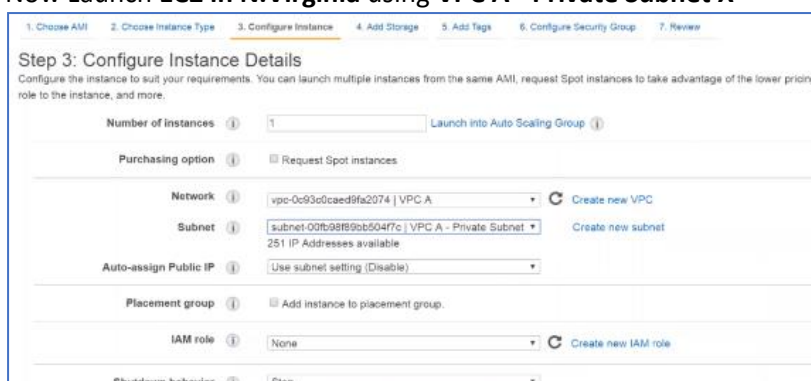


24. Switch to **N.California** and do the same for it.

Edit 'Route Table'



25. Now Launch **EC2** in **N.Virginia** using **VPC A - Private Subnet X**



Keep traffic in Security grp as ssh only

26. Now launch another **EC2** in **N.Virginia VPC A - Private Subnet Y** with security group as ssh only.

The screenshot shows the 'Step 3: Configure Instance Details' page in the AWS Management Console. The 'Network' dropdown is set to 'vpc-0c93c0caed9fa2074 | VPC A'. The 'Subnet' dropdown is set to 'subnet-00fb989bb5047e | VPC A - Private Subnet Y'. The 'Auto-assign Public IP' dropdown is set to 'None'. The 'IAM role' dropdown is set to 'None'. The 'Shutdown behavior' dropdown is set to 'Stop'.

27. Now launch **EC2** in **Ohio** with **auto assign public ip** enable and **ssh** as security group.

The screenshot shows the 'Step 3: Configure Instance Details' page in the AWS Management Console. The 'Network' dropdown is set to 'vpc-0fd387a70e86bac2 | VPC B'. The 'Subnet' dropdown is set to 'subnet-0eb4b4c74028e8231 | VPC B - Public Subnet'. The 'Auto-assign Public IP' dropdown is set to 'Enable'. The 'IAM role' dropdown is set to 'None'. The 'Shutdown behavior' dropdown is set to 'Stop'. The 'Enable termination protection' checkbox is checked. The 'Monitoring' checkbox is checked. The 'Tenancy' dropdown is set to 'Shared - Run a shared hardware Instance'.

28. Launch another Public instance in **N. California** with **ssh** as security grp

The screenshot shows the 'Step 3: Configure Instance Details' page in the AWS Management Console. The 'Network' dropdown is set to 'vpc-0a03ba555ee7908ee | VPC C'. The 'Subnet' dropdown is set to 'subnet-0206fe01c1ab683ef | VPC C Public Subnet'. The 'Auto-assign Public IP' dropdown is set to 'Enable'. The 'IAM role' dropdown is set to 'None'. The 'Shutdown behavior' dropdown is set to 'Stop'.

Now check the connectivity via **ssh**.

Now try to access your EC2-N.Verginia (PrivateServer) from EC2-'Ohio' (PublicServer)
[ec2-user@ip-10-0-1-167 ~]\$ vi mynewkey.pem (copy and paste the code from .pem key)
[ec2-user@ip-10-0-1-167 ~]\$ chmod 400 mynewkey.pem (Set the permission)
[ec2-user@ip-10-0-1-167 ~]\$ ssh -i mynewkey.pem ec2-user@<private_ip_address>
After connectivity, elevate privileges and check for command yum update -y
If the Internet is not working on PrivateServer then do below the steps.