

# Module 4: VPC Assignment-2

You have been asked to:

1. Create 2 VPCs in the North Virginia region named MYVPC1 and MYVPC2
2. Create one VPC in Oregon region named VPCOregon1
3. Create a peering connection between MYVPC1 and MYVPC2
4. Create a peering connection between MYVPC2 and VPCOregon1

1. Login into AWS. Select N. Virginia

Search for services, features, blogs, docs, and more [Alt+S]

Your VPCs (2) Info

Filter VPCs

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR (Network border group)	IPv6 pool	DHCP options set	Main route table	Main network ACL
<input type="checkbox"/>	MYVPC1	vpc-0770b327a870cfe7	Available	10.0.0.0/24	–	–	dopt-0f1541103ef7c6...	rtb-0ffb7b76c641334	acl-0904d3d4ee86619ce
<input type="checkbox"/>	MYVPC2	vpc-045a75f4c690c8102	Available	11.0.0.0/24	–	–	dopt-0f1541103ef7c6...	rtb-091a20463cff27f3b	acl-091a089a18faeee0e

2. Create 2 VPCs – MYVPC1 & MYVPC2 - as explained in Module 4 Assignment 1

3. Change region to Oregon

Search for services, features, blogs, docs, and more [Alt+S]

Your VPCs (2) Info

Filter VPCs

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR (Network border group)	IPv6 pool	DHCP options set	Main route table	Main network ACL
<input type="checkbox"/>	–	vpc-0ae1636f	Available	172.31.0.0/16	–	–	dopt-9c31d9f9	rtb-d060f4b5	acl-ae59d7cb
<input type="checkbox"/>	VPCOregon1	vpc-0650b883d2a044c8e	Available	12.0.0.0/24	–	–	dopt-9c31d9f9	rtb-028e196e04a94f251	acl-03320b23a737e745f

4. Create 1 VPC – VPCOregon1 - as explained in Module 4 Assignment 1

Filter by VPC:



**VIRTUAL PRIVATE CLOUD**

**Your VPCs**

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

Carrier Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

5. Select N.Virgina region.  
Open VPC dashboard.  
Select "Peering Connections".

Actions ▾

Create peering connection

6. Create new Peering Connection

Requester owner ID ▾

Acceptor owner ID ▾

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-0770b327a870cfe7 (MYVPC1)

CIDR	Status	Status reason
10.0.0.0/24	✔ Associated	-

Select another VPC to peer with  
Account  
☒ My account  
☐ Another account  
Region  
☒ This Region (us-east-1)  
☐ Another Region  
VPC ID (Acceptor)

VPC CIDRs for vpc-045a75f4c690c8102 (MYVPC2)

CIDR	Status	Status reason
11.0.0.0/24	✔ 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.

KeyValue - optional

You can add 48 more tags.

CancelCreate peering connection

7. Name the peering connection

8. Select requester VPC

9. Select acceptor VPC

10. Create Tags as needed

11. Create

## 12. Verify that Peering connection is created as created.

VPC > Peering connections > pcx-0825a0c675e50164c

### pcx-0825a0c675e50164c / m4a2\_vpc\_peering\_connection\_1



#### Pending acceptance

You can accept or reject this peering connection request using the 'Actions' menu. You have until Wednesday, January 5, 2022, 13:18:45 GMT+5:30 to accept or reject the request, otherwise it expires.

#### Details [Info](#)

Requester owner ID

098760042302

Requester VPC

[vpc-0770b327a870cffe7 / MYVPC1](#)

Requester CIDRs

10.0.0.0/24

Requester Region

N. Virginia (us-east-1)

Accepter owner ID

098760042302

Accepter VPC

[vpc-045a75f4c690c8102 / MYVPC2](#)

Accepter CIDRs

—

Accepter Region

N. Virginia (us-east-1)

Peering connection ID

pcx-0825a0c675e50164c

Status

Pending Acceptance by 098760042302

Expiration time

Wednesday, January 5, 2022, 13:18:45 GMT+5:30

[ClassicLink](#)

[DNS](#)

[Route tables](#)

[Tags](#)

#### ClassicLink settings

##### Requester VPC ([vpc-0770b327a870cffe7 / MYVPC1](#)) [Info](#)

Allow outbound communication from ClassicLink instances in requester VPC to accepter VPC

Disabled

Allow outbound communication from requester VPC to ClassicLink instances in accepter VPC

Disabled

##### Accepter VPC ([vpc-045a75f4c690c8102 / MYVPC2](#)) [Info](#)

Allow outbound communication from ClassicLink instances in accepter VPC to requester VPC

Disabled

Allow outbound communication from accepter VPC to ClassicLink instances in requester VPC

Disabled

**13. Go back to Peering Connection dashboard**

**14. Select the Peering Connection**

**15. Verify that status is not Active**

**16. Select Actions → Accept Request to accept the Peering request**

The screenshot shows the AWS VPC Peering connections dashboard. The table lists one peering connection with the status 'Pending acceptance'. The 'Actions' dropdown menu is open, showing options like 'View details', 'Accept request', 'Reject request', etc. The 'Accept request' option is highlighted.

Name	Peering connection ID	Status	Requester VPC	Accepter VPC	Requester CIDR	Accepter CIDRs
m4a2_vpc_pee...	pcx-0825a0c675e50164c	Pending acceptance	vpc-0770b327a870cfe7 / MY...	vpc-045a75f4c690c8102 / MY...	10.0.0.0/24	-

**17. Accept**

**Accept VPC peering connection request**

Are you sure you want to accept this VPC peering connection request? (pcx-0825a0c675e50164c / m4a2\_vpc\_peering\_connection\_1)

Requester VPC vpc-0770b327a870cfe7 / MYVPC1	Accepter VPC vpc-045a75f4c690c8102 / MYVPC2	Requester CIDRs 10.0.0.0/24
Accepter CIDRs -	Requester Region N. Virginia (us-east-1)	Accepter Region N. Virginia (us-east-1)
Requester owner ID 098760042302 (This account)	Accepter owner ID 098760042302 (This account)	

Cancel Accept request

**18. Verify that status is now Active**

✓ Your VPC peering connection (pcx-0825a0c675e50164c / m4a2\_vpc\_peering\_connection\_1) is now Active. To send and receive traffic across this VPC peering connection, you must add a route.

**Peering connections (1/1)**

Name	Peering connection ID	Status
m4a2_vpc_pee...	pcx-0825a0c675e50164c	✓ Active

## Peering connections (1/2) Info

Filter peering connections

	Name	Peering connection ID	Status	Requester VPC	Accepter VPC	Requester CID...	Accepter CIDRs	Requester owner ID	Accepter owner ID
	m4a2_vpc_peering_connection_2_NV_Oregon	pcx-0566c11c05c64e54b	Active	vpc-045a75f4c690c8102 / MY...	vpc-0650b883d2a044c8e				
	m4a2_vpc_peering_connection_1	pcx-0825a0c675e50164c	Active	vpc-0770b327a870cffe7 / MY...	vpc-045a75f4c690c8102 / MY...				

21. Select Actions → Edit DNS Settings

20. Verify that status is Active

19. Select the Peering Connection

Actions

Create peering connection

View details

Accept request

Reject request

Edit DNS settings

Edit ClassicLink settings

Manage tags

Delete peering connection

pcx-0825a0c675e50164c / m4a2\_vpc\_peering\_connection\_1

Details ClassicLink DNS Route tables Tags

### Details

Requester owner ID 098760042302	Accepter owner ID 098760042302	Peering connection ID pcx-0825a0c675e50164c
Requester VPC vpc-0770b327a870cffe7 / MYVPC1	Accepter VPC vpc-045a75f4c690c8102 / MYVPC2	Status Active
Requester CIDRs 10.0.0.0/24	Accepter CIDRs 11.0.0.0/24	Expiration time -
Requester Region N. Virginia (us-east-1)	Accepter Region N. Virginia (us-east-1)	

Summary			
Peering connection ID pcx-0825a0c675e50164c	Name m4a2_vpc_peering_connection_1	Requester VPC vpc-0770b327a870cffe7	Accepter VPC vpc-045a75f4c690c8102

**Edit DNS settings**  
The settings below control how your peered VPCs will work with DNS resolution.

**Requester DNS resolution**  
If enabled, the DNS hostname of an instance in the requester VPC resolves to its private IP address when queried from instances in the accepter VPC.  
☒ Allow accepter VPC (vpc-045a75f4c690c8102 / MYVPC2) to resolve DNS of requester VPC (vpc-0770b327a870cffe7 / MYVPC1) hosts to private IP.

**Accepter DNS resolution**  
If enabled, the DNS hostname of an instance in the accepter VPC resolves to its private IP address when queried from instances in the requester VPC.  
☒ Allow requester VPC (vpc-0770b327a870cffe7 / MYVPC1) to resolve DNS of accepter VPC (vpc-045a75f4c690c8102 / MYVPC2) hosts to private IP.

To use DNS resolution over peering you must enable 'DNS Hostname' on the VPCs involved in peering . Learn more

AWS Command Line Interface command

22. Select this to allow requests from requestor VPC to resolve to private IP of accepter VPC

23. Select this to allow requests from accepter VPC to resolve to private IP of requestor VPC

Cancel **Save changes**  
**24. Save**

Filter by VPC:

**VIRTUAL PRIVATE CLOUD**

**Your VPCs**

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

Carrier Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

25. Select N.Virgina region.  
Open VPC dashboard.  
Select "Peering Connections".

Actions ▾

Create peering connection

Requester owner ID ▾ | Acceptor owner ID ▾

26. Create new 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-045a75f4c690c8102 (MYVPC2)

CIDR	Status	Status reason
11.0.0.0/24	✔ Associated	-

Select another VPC to peer with

Account

☒ My account

☐ Another account

Region

☐ This Region (us-east-1)

☒ Another Region

VPC ID (Acceptor)

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

Add new tag

Value - optional

Loading tag values

Remove

Remove

You can add 48 more tags.

Cancel

Create peering connection

27. Name the peering connection

28. Select requester VPC

29. Select another region for acceptor VPC

30. Choose Oregon

31. Paste VPC ID of VPCOregon1

32. Create Tags as needed

33. Create



## 34. Change region to Oregon

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[Alt+S]



Oregon

Hariharan Narayanan

### Peering connections (1/1) Info



Actions

Create peering connection



1



View details

Accept request

Reject request

Edit DNS settings

Edit ClassicLink settings

Manage tags

Delete peering connection

Name	Peering connection ID	Status	Requester VPC	Accepter VPC
-	pcx-0566c11c05c64e54b	Pending acceptance	vpc-045a75f4c690c8102	vpc-0650b883d2a044c8e / VP...

37. Select Actions → Accept Request to accept the Peering request

36. Verify that status is not Active

35. Select the Peering Connection

### Accept VPC peering connection request Info



Are you sure you want to accept this VPC peering connection request? (pcx-0566c11c05c64e54b)

Requester VPC

vpc-045a75f4c690c8102

Accepter CIDRs

-

Requester owner ID

098760042302  
(This account)

Accepter VPC

vpc-0650b883d2a044c8e / VPCOregon1

Requester Region

N. Virginia (us-east-1)

Accepter owner ID

098760042302  
(This account)

Requester CIDRs

11.0.0.0/24

Accepter Region

Oregon (us-west-2)

Cancel

Accept request

39. Accept

✓ Your VPC peering connection (pcx-0566c11c05c64e54b) has been established.  
To send and receive traffic across this VPC peering connection, you must add a route.

### Peering connections (1/1) Info

Filter peering connections

Name	Peering connection ID	Status
-	pcx-0566c11c05c64e54b	✓ Active

38. Verify that status is now Active

### Peering connections (1/2) Info

Filter peering connections

Name	Peering connection ID	Status	Requester VPC	Accepter VPC	Requester CID...	Accepter CIDRs	Requester owner ID	Accepter owner ID
<input checked="" type="radio"/> m4a2_vpc_peering_connection_2_NV_Oregon	pcx-0566c11c05c64e54b	Active	vpc-045a75f4c690c8102 / MY...	vpc-0650b883d2a044c8e				
<input type="radio"/> m4a2_vpc_peering_connection_1	pcx-0825a0c675e50164c	Active	vpc-0770b327a870cffe7 / MY...	vpc-045a75f4c690c8102 / MY...				

42. Select Actions → Edit DNS Settings

41. Verify that status is Active

40. Select the Peering Connection to OregonVPC

Actions

Create peering connection

View details

Accept request

Reject request

Edit DNS settings

Edit ClassicLink settings

Manage tags

Delete peering connection

### Edit DNS settings Info

Summary

Peering connection ID  
pcx-0566c11c05c64e54b

Name  
m4a2\_vpc\_peering\_connection\_2\_NV\_Oregon

Requester VPC  
vpc-045a75f4c690c8102

Accepter VPC  
vpc-0650b883d2a044c8e

Edit DNS settings

The settings below control how your peered VPCs will work with DNS resolution.

Requester DNS resolution

If enabled, the DNS hostname of an instance in the requester VPC resolves to its private IP address when queried from instances in the accepter VPC.

☒ Allow accepter VPC (vpc-0650b883d2a044c8e) to resolve DNS of requester VPC (vpc-045a75f4c690c8102 / MYVPC2) hosts to private IP.

To use DNS resolution over peering you must enable 'DNS Hostname' on the VPCs involved in peering: vpc-0650b883d2a044c8e (Account ID: 098760042302, Region: us-west-2), vpc-045a75f4c690c8102 / MYVPC2. Learn more

AWS Command Line Interface command

Cancel Save changes

44. Save