

# Week 4 — Multi-VPC Architecture with Peering

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## Description

Created two VPCs (VPC-A: 10.10.0.0/16 and VPC-B: 10.20.0.0/16), each with one public and one private subnet. Established a VPC peering connection and updated route tables in both VPCs to allow inter-VPC communication.

## Screenshots

### VPC-A:

The screenshot shows the AWS VPC console interface for VPC-A. The main title is "vpc-010840763a3475c01 / SadiqueVPC-A". A success message at the top right says "You successfully created vpc-010840763a3475c01 / SadiqueVPC-A". The "Details" section provides the following information:

VPC ID	State	Block Public Access	DNS hostnames
vpc-010840763a3475c01	Available	Off	Disabled
DNS resolution	Tenancy	DHCP option set	Main route table
Enabled	default	dopt-03828998e8ac923f5	rtb-0c3fd328596bcf234
Main network ACL	Default VPC	IPv4 CIDR	IPv6 pool
acl-0d3b7705dbe68e88b	No	10.10.0.0/16	-
IPv6 CIDR (Network border group)	Network Address Usage metrics	Route 53 Resolver DNS Firewall rule groups	Owner ID
-	Disabled	-	018134829131

Below the details, there are tabs for "Resource map", "CIDRs", "Flow logs", "Tags", and "Integrations". The "Resource map" tab is selected, showing three sections: "VPC", "Subnets (0)", and "Route tables (1)".

### VPC-B:

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amazon Web Services Passw... VPC | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#VpcDetails:VpcId=vpc-0636f36a507f01592

VPC > Your VPCs > vpc-0636f36a507f01592

VPC dashboard <

EC2 Global View [ ]

Filter by VPC: ▾

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only Internet gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

PrivateLink and Lattice

You successfully created vpc-0636f36a507f01592 / SadiqueVPC-B

vpc-0636f36a507f01592 / SadiqueVPC-B

Actions ▾

Details Info

VPC ID vpc-0636f36a507f01592	State Available	Block Public Access Off	DNS hostnames Disabled
DNS resolution Enabled	Tenancy default	DHCP option set dopt-03828998e8ac923f5	Main route table rtb-06a91fc64f473a1
Main network ACL acl-0918b22e769d5d744	Default VPC No	IPv4 CIDR 10.20.0.0/16	IPv6 pool -
IPv6 CIDR (Network border group) -	Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 018134829131

Resource map Info

Resource map Info

VPC Show details Your AWS virtual network

Subnets (0) Subnets within this VPC

Route tables (1) Route network traffic to resources

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## All Subnets:

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amazon Web Services Passw... subnets | VPC | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#subnets:sort=tag:Name

VPC > Subnets

VPC dashboard <

EC2 Global View [ ]

Filter by VPC: ▾

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You have successfully created 1 subnet: subnet-09fee80ca43f2dabf

Subnets (7) Info

Last updated less than a minute ago

Actions ▾ Create subnet

Name	Subnet ID	State	VPC
SadiqueVPC-A-Private-Subnet	subnet-0e632d3d42211035f	Available	vpc-010840763a3475c01   Sad...
SadiqueVPC-A-Public-Subnet	subnet-0a48d06834a594b50	Available	vpc-010840763a3475c01   Sad...
SadiqueVPC-B-Private-Subnet	subnet-09fee80ca43f2dabf	Available	vpc-0636f36a507f01592   Sad...
SadiqueVPC-B-Public-Subnet	subnet-0dc5363a768a7f7b1	Available	vpc-0636f36a507f01592   Sad...

Select a subnet

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## VPC Peering Request:

Amazon Web Services Passw... VPC | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#PeeringConnectionDetails:vpcPeeringConnectionId=pcx-01ec9ae538eadd199

VPC > Peering connections > pcx-01ec9ae538eadd199

VPC dashboard

EC2 Global View

Filter by VPC:

Virtual private cloud

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CloudShell Feedback

A VPC peering connection pcx-01ec9ae538eadd199 / Sadique-Peering-VPC-A-B has been requested.

pcx-01ec9ae538eadd199 / Sadique-Peering-VPC-A-B

Pending acceptance  
You can accept or reject this peering connection request using the 'Actions' menu. You have until Monday 28 July 2025 at 05:49:19 GMT to accept or reject this request.

Accept VPC peering connection request

Are you sure you want to accept this VPC peering connection request? (pcx-01ec9ae538eadd199 / Sadique-Peering-VPC-A-B)

Requester VPC	Acceptor VPC	Requester CIDRs	Acceptor Region
vpc-010840763a3475c01 / SadiqueVPC-A	vpc-0636f36a507f01592 / SadiqueVPC-B	10.10.0.0/16	Stockholm (eu-north-1)
Acceptor CIDRs	Requester Region	Requester CIDRs	Acceptor Region
-	Stockholm (eu-north-1)	10.10.0.0/16	Stockholm (eu-north-1)
Requester owner ID	Acceptor owner ID	Requester owner ID	Acceptor owner ID
018134829131(This account)	018134829131(This account)	018134829131(This account)	018134829131(This account)

Cancel Accept request

DNS Route tables Tags

DNS settings Edit DNS settings

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## Peering Connection (Active):

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amazon Web Services Passw... PeeringConnections | VPC | e... Mon 21 Jul 05:52

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#PeeringConnections:

VPC > Peering connections

VPC dashboard

EC2 Global View

Filter by VPC:

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CloudShell Feedback

Peering connections (1/1) Info

Find peering connections by attribute or tag

Name	Peering connection ID	Status	Requester VPC
Sadique-Peering-VPC-A-B	pcx-01ec9ae538eadd199	Active	vpc-010840763a3475c01 / Sad...

pcx-01ec9ae538eadd199 / Sadique-Peering-VPC-A-B

Details DNS Route tables Tags

Details

Requester owner ID	Acceptor owner ID	VPC Peering connection ARN
018134829131	018134829131	arn:aws:ec2:eu-north-1:018134829131:vp...99
Peering connection ID	Requester VPC	Acceptor VPC
pcx-01ec9ae538eadd199	vpc-010840763a3475c01 / SadiqueVPC-A	

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## VPC-A Route Table:

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amazon Web Services Passw... VPC | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#RouteTableDetails:RouteTableId=rtb-0c3fd328596bcf234

VPC > Route tables > rtb-0c3fd328596bcf234

VPC dashboard <

EC2 Global View [ ] Filter by VPC: ▾

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PrivateLink and Lattice

Actions ▾

Updated routes for rtb-0c3fd328596bcf234 successfully

rtb-0c3fd328596bcf234

Details Info

Route table ID rtb-0c3fd328596bcf234	Main <input checked="" type="checkbox"/> Yes	Explicit subnet associations -	Edge associations -
VPC vpc-010840763a3475c01   SadiqueVPC-A	Owner ID 018134829131		

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
10.10.0.0/16	local	Active	No
10.20.0.0/16	pxc-01ec9ae538eadd199	Active	No

Both ▾ Edit routes < 1 > ⚙️

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## VPC-B Route Table:

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amazon Web Services Passw... VPC | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#RouteTableDetails:RouteTableId=rtb-06a91fc64f473a1

VPC > Route tables > rtb-06a91fc64f473a1

VPC dashboard <

EC2 Global View [ ] Filter by VPC: ▾

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PrivateLink and Lattice

Actions ▾

Updated routes for rtb-06a91fc64f473a1 successfully

rtb-06a91fc64f473a1

Details Info

Route table ID rtb-06a91fc64f473a1	Main <input checked="" type="checkbox"/> Yes	Explicit subnet associations -	Edge associations -
VPC vpc-0636f36a507f01592   SadiqueVPC-B	Owner ID 018134829131		

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
10.10.0.0/16	pxc-01ec9ae538eadd199	Active	No
10.20.0.0/16	local	Active	No

Both ▾ Edit routes < 1 > ⚙️

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