

Week 4 — Multi-VPC Architecture with Peering

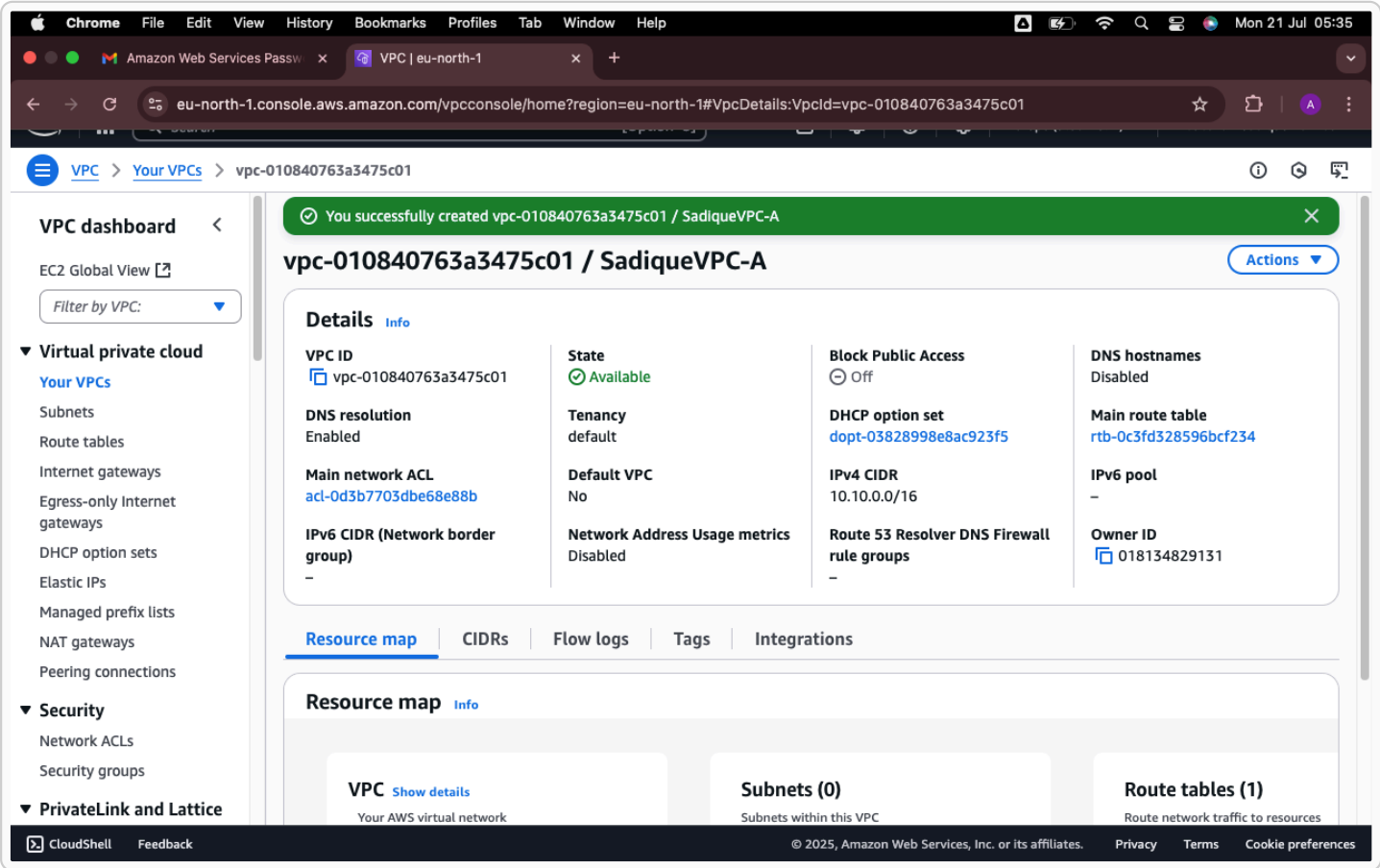
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Description

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:



VPC-B:

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amazon Web Services Passw x VPC | eu-north-1 x +

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

CloudShell Feedback

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-06a91fbc64f473a1
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 CIDRs Flow logs Tags Integrations

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:

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Amazon Web Services Passw x subnets | VPC | eu-north-1 x +

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

VPC > Subnets

VPC dashboard <

EC2 Global View [?]

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CloudShell Feedback

You have successfully created 1 subnet: subnet-09fee80ca43f2dabf

Subnets (7) Info

Last updated less than a minute ago Actions ▾ Create subnet

Find subnets by attribute or tag

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	SadiqueVPC-A-Private-Subnet	subnet-0e632d3d42211035f	Available	vpc-010840763a3475c01 Sadi...
<input type="checkbox"/>	SadiqueVPC-A-Public-Subnet	subnet-0a48d06834a594b50	Available	vpc-010840763a3475c01 Sadi...
<input type="checkbox"/>	SadiqueVPC-B-Private-Subnet	subnet-09fee80ca43f2dabf	Available	vpc-0636f36a507f01592 Sadi...
<input type="checkbox"/>	SadiqueVPC-B-Public-Subnet	subnet-0dc5363a768a7f7b1	Available	vpc-0636f36a507f01592 Sadi...

Select a subnet

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VPC Peering Request:

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

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#PeeringConnectionDetails:vpcPeeringConnectionId=pcx-01ec9a...

Search [Option+S]

Europe (Stockholm) Abubakari-Sadique Hamidu

VPC > Peering connections > pcx-01ec9ae538eadd199

VPC dashboard

EC2 Global View

Filter by VPC:

Virtual private cloud

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PrivateLink and Lattice

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: vpc-010840763a3475c01 / SadiqueVPC-A

Accepter VPC: vpc-0636f36a507f01592 / SadiqueVPC-B

Requester CIDRs: 10.10.0.0/16

Accepter Region: Stockholm (eu-north-1)

Accepter CIDRs: -

Requester Region: Stockholm (eu-north-1)

Requester owner ID: 018134829131(This account)

Accepter owner ID: 018134829131(This account)

Cancel Accept request

DNS settings

Edit DNS settings

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Peering Connection (Active):

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Amazon Web Services Passw x PeeringConnections | VPC | e

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

VPC > Peering connections

VPC dashboard

EC2 Global View

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CloudShell Feedback

Peering connections (1/1)

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: 018134829131

Accepter owner ID: 018134829131

Peering connection ID: pcx-01ec9ae538eadd199

Requester VPC: vpc-010840763a3475c01 / SadiqueVPC-A

VPC Peering connection ARN: arn:aws:ec2:eu-north-1:018134829131:vpc-peering-connection/pcx-01ec9ae538eadd199

Accepter VPC:

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VPC-A Route Table:

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Amazon Web Services Passw x 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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CloudShell Feedback

Updated routes for rtb-0c3fd328596bcf234 successfully

Details

rtb-0c3fd328596bcf234

Actions

Details Info

Route table ID rtb-0c3fd328596bcf234	Main Yes	Explicit subnet associations -	Edge associations -
VPC vpc-010840763a3475c01 SadiqueVPC-A	Owner ID 018134829131		

Routes Subnet associations Edge associations Route propagation Tags

Routes (2) Both Edit routes

Filter routes

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

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VPC-B Route Table:

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

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#RouteTableDetails:RouteTableId=rtb-06a91fcbc64f473a1

VPC > Route tables > rtb-06a91fcbc64f473a1

VPC dashboard <

EC2 Global View

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CloudShell Feedback

Updated routes for rtb-06a91fcbc64f473a1 successfully

Details

rtb-06a91fcbc64f473a1

Actions

Details Info

Route table ID rtb-06a91fcbc64f473a1	Main Yes	Explicit subnet associations -	Edge associations -
VPC vpc-0636f36a507f01592 SadiqueVPC-B	Owner ID 018134829131		

Routes Subnet associations Edge associations Route propagation Tags

Routes (2) Both Edit routes

Filter routes

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

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