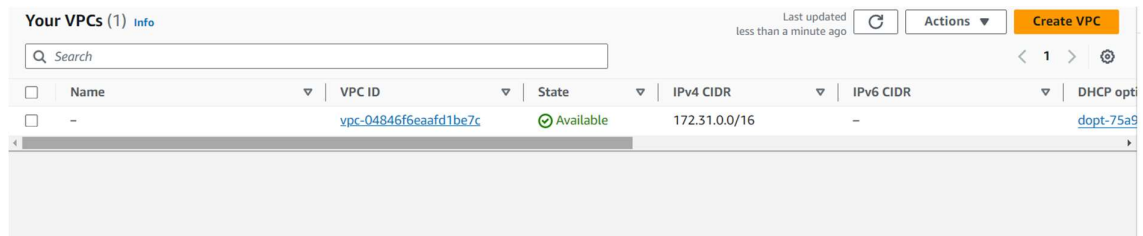


1. Create a VPC

- **Step 1:** Log in to the AWS Management Console and go to the VPC Dashboard.
- **Step 2:** Click on **Create VPC**.



- **Step 3:** Choose **VPC only**.
- **Step 4:** Enter the following details:
 - **Name tag:** (e.g., MyVPC)
 - **IPv4 CIDR block:** 120.0.0.0/16

Create only the VPC resource or the VPC and other networking resources.

☒ VPC only

☐ VPC and more

Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify.

MyVPC

IPv4 CIDR block [Info](#)

☒ IPv4 CIDR manual input

☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

120.0.0.0/16

CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)

☒ No IPv6 CIDR block

☐ IPAM-allocated IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

Tenancy [Info](#)

Default

- **Step 5:** Click **Create VPC**.

Step 2: Repeat the process to create the second VPC (MYVPC2):

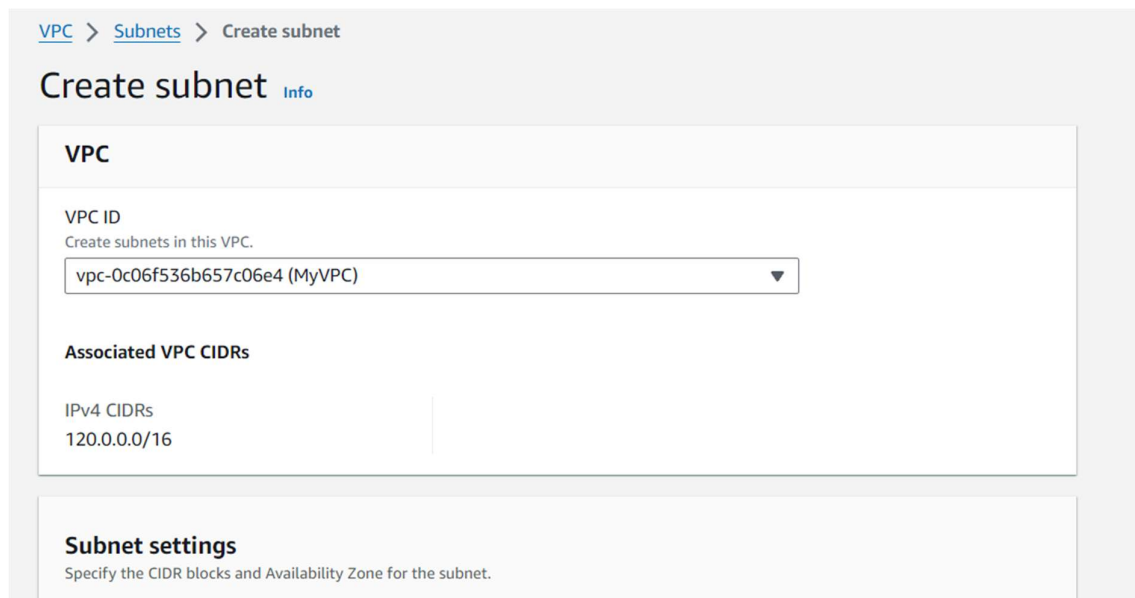
- **Name tag:** MYVPC2
- **IPv4 CIDR block:** Choose a different block (e.g., 120.1.0.0/16)
- Click **Create VPC**.

2. Create a VPC in the Oregon Region

- **Step 1:** Switch to the **Oregon (us-west-2)** region in the AWS Management Console.
- **Step 2:** Go to the VPC Dashboard.
- **Step 3:** Click on **Create VPC**.
- **Step 4:** Create the VPC:
 - **Name tag:** VPCOregon1
 - **IPv4 CIDR block:** Choose a suitable block (e.g., 120.2.0.0/16)
 - **Step 5:** Click **Create VPC**.

2. Create Subnets

- **Step 1:** In the VPC Dashboard, click on **Subnets** in the left navigation pane, then click **Create Subnet**.
- **Step 2:** Select the VPC you just created.



The screenshot shows the 'Create subnet' page in the AWS Management Console. At the top, there is a breadcrumb trail: 'VPC > Subnets > Create subnet'. Below this is the title 'Create subnet' with an 'Info' link. The main form is divided into two sections. The first section, titled 'VPC', contains a 'VPC ID' label and a dropdown menu. The dropdown is currently set to 'vpc-0c06f536b657c06e4 (MyVPC)'. Below this is a section titled 'Associated VPC CIDRs' which contains a table with one row: 'IPv4 CIDRs' and '120.0.0.0/16'. The second section, titled 'Subnet settings', has a subtitle 'Specify the CIDR blocks and Availability Zone for the subnet.'.

- **Step 3:** Create the public and private subnets:

Public Subnet

- **Name tag:** (e.g., PublicSubnet)
- **Availability Zone:** Choose one (e.g., us-east-1a).
- **IPv4 CIDR block:** (e.g., 120.0.1.0/24)
- **Step 4:** Click **Create Subnet**.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

PublicSubnet

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1a

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

120.0.0.0/16

IPv4 subnet CIDR block

120.0.1.0/24

256 IPs

▼ Tags - optional

Key

Value - optional

Q Name



Q PublicSubnet



Remove

Add new tag

Private Subnet 1

- **Name tag:** (e.g., PrivateSubnet1)
- **Availability Zone:** Choose another one (e.g., us-east-1b).
- **IPv4 CIDR block:** (e.g., 120.0.2.0/24)
- **Step 4:** Click **Create Subnet**.

Subnet 2 of 2

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

PrivateSubnet1

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1b

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

120.0.0.0/16

IPv4 subnet CIDR block

120.0.2.0/24

256 IPs

▼ Tags - optional

Key

Value - optional

Q Name



Q PrivateSubnet1



Remove

Add new tag

You can add 49 more tags.

Remove

Private Subnet 2

- **Name tag:** (e.g., PrivateSubnet2)
- **Availability Zone:** Choose the third (e.g., us-east-1c).
- **IPv4 CIDR block:** (e.g., 120.0.3.0/24)
-

3. Create a Peering Connection Between MYVPC1 and MYVPC2

- **Step 1:** While still in the **North Virginia** region, go to the VPC Dashboard.
- **Step 2:** Click on **Peering Connections** in the left navigation pane.
- **Step 3:** Click **Create Peering Connection**.
- **Step 4:** Enter the following details:
 - **Peering connection name tag:** MYVPC1-MYVPC2-Peering
 - **VPC Requester:** Select MYVPC1
 - **VPC Acceptor:** Select MYVPC2
- **Step 5:** Click **Create Peering Connection**.

- **Step 6:** Accept the peering request from **MYVPC2**. Go to the **Peering Connections** page, select the new connection, and click **Actions > Accept Request**.

4. Create a Peering Connection Between MYVPC2 and VPCOregon1

- **Step 1:** Switch to the **Oregon** region in the AWS Management Console.
- **Step 2:** Go to the VPC Dashboard.
- **Step 3:** Click on **Peering Connections** in the left navigation pane.
- **Step 4:** Click **Create Peering Connection**.
- **Step 5:** Enter the following details:
 - **Peering connection name tag:** MYVPC2-VPCOregon1-Peering
 - **VPC Requester:** Select MYVPC2 (from North Virginia)
 - **VPC Acceptor:** Select VPCOregon1
- **Step 6:** Click **Create Peering Connection**.
- **Step 7:** Accept the peering request from **VPCOregon1**. Go to the **Peering Connections** page, select the new connection, and click **Actions > Accept Request**.

Subnet 3 of 3

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

IPv4 subnet CIDR block

256 IPs

< > ^ v

▼ Tags - optional

Key

Value - optional

X

X

Remove

Add new tag

- **Step 4:** Click **Create Subnet**.

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IP
<input type="checkbox"/>	PublicSubnet	subnet-0b0d4609b79c0ec8f	Available	vpc-0c06f536b657c06e4 MyVPC	120.0.1.0/24	-
<input type="checkbox"/>	PrivateSubnet1	subnet-0f5b039cc7c16a5f3	Available	vpc-0c06f536b657c06e4 MyVPC	120.0.2.0/24	-
<input type="checkbox"/>	PrivateSubnet2	subnet-07d549b6a65607287	Available	vpc-0c06f536b657c06e4 MyVPC	120.0.3.0/24	-

3. Create an Internet Gateway and Attach it to the VPC

- **Step 1:** In the VPC Dashboard, click on **Internet Gateways** in the left navigation pane, then click **Create internet gateway**.
- **Step 2:** Enter a name tag (e.g., MyInternetGateway), then click **Create internet gateway**.

Create internet gateway Info

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.

Internet gateway settings

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

Tags - optional

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.

- **Step 3:** Click **Attach to VPC**, select the VPC you created, and click **Attach internet gateway**.

VPC > Internet gateways > igw-0722cd46a3374b8d6

igw-0722cd46a3374b8d6 / MyInternetGateway

Details Info

Internet gateway ID	State	VPC ID	Owner
igw-0722cd46a3374b8d6	Detached	-	0168775298C

- Attach to VPC
- Detach from VPC
- Manage tags
- Delete

4. Create a Route Table for the Public Subnet

- **Step 1:** In the VPC Dashboard, click on **Route Tables** in the left navigation pane, then click **Create route table**.

Route tables (1) <small>Info</small>							Last updated 9 minutes ago	Actions	Create route table
<input type="text" value="Find resources by attribute or tag"/>									
<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC			
<input type="checkbox"/>	-	rtb-05c0055697aeaa10e	-	-	Yes	vpc-04846f6eaa1be7c			

- **Step 2:** Select the VPC you created, and enter a name tag (e.g., PublicRouteTable).

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

VPC
The VPC to use for this route table.

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

Remove

Add new tag

You can add 49 more tags.

Cancel

Create route table

- **Step 3:** Click **Create route table**.
- **Step 4:** Select the newly created route table, and under the **Routes** tab, click **Edit routes**.
- **Step 5:** Click **Add route**:
 - **Destination:** 0.0.0.0/0
 - **Target:** Select your Internet Gateway.
- **Step 6:** Click **Save changes**.

Destination	Target	Status	Propagated
120.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	-	No

Add route

Cancel Preview Save changes

- **Step 7:** Under the **Subnets associations** tab, click **Edit subnet associations**

VPC > Route tables > rtb-00e20cc61eebdc08f

rtb-00e20cc61eebdc08f / PublicRouteTable

Details Info

Route table ID	Main	Explicit subnet associations	Edge associ
rtb-00e20cc61eebdc08f	No	-	-
VPC	Owner ID		
vpc-0c06f536b657c06e4 MyVPC	016877529802		

Actions

- Set main route table
- Edit subnet associations
- Edit edge associations
- Edit route propagation
- Edit routes
- Manage tags
- Delete

- and select your public subnet.

Routes Subnet associations Edge associations Route propagation Tags			
Explicit subnet associations (1)			
Find subnet association			
Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
PublicSubnet	subnet-0b0d4609b79c0ec8f	120.0.1.0/24	-

5. Create a NAT Gateway

- **Step 1:** In the VPC Dashboard, click on **NAT Gateways** in the left navigation pane, then click **Create NAT gateway**.

NAT gateways Info							
Find resources by attribute or tag							
vpc-0c06f536b657c06e4							
Clear filters							
Name	NAT gateway ID	Connectivity...	State	State message	Primary public I...	Primary private	
No matching resource found							

- **Step 2:** Enter the following details:
 - **Name tag:** (e.g., MyNATGateway)
 - **Subnet:** Select your public subnet.
 - **Elastic IP allocation ID:** Allocate a new Elastic IP or select an existing one.
- **Step 3:** Click **Create NAT gateway**.

nat-09da26f8fbb34f9f2 / MyNATGateway			
Details			
NAT gateway ID nat-09da26f8fbb34f9f2	Connectivity type Public	State Pending	State message -
NAT gateway ARN arn:aws:ec2:us-east-1:016877529802:natgateway/nat-09da26f8fbb34f9f2	Primary public IPv4 address -	Primary private IPv4 address -	Primary network interface ID -
VPC vpc-0c06f536b657c06e4 / MyVPC	Subnet subnet-0b0d4609b79c0ec8f / PublicSubnet	Created Saturday, August 10, 2024 at 15:37:59 GMT+5:30	Deleted -

6. Create a Route Table for the Private Subnets

- **Step 1:** In the VPC Dashboard, click on **Route Tables** in the left navigation pane, then click **Create route table**.
- **Step 2:** Select the VPC you created, and enter a name tag (e.g., PrivateRouteTable).
- **Step 3:** Click **Create route table**.
- **Step 4:** Select the newly created route table, and under the **Routes** tab, click **Edit routes**.
- **Step 5:** Click **Add route**:
 - **Destination:** 0.0.0.0/0
 - **Target:** Select your NAT Gateway.

- **Step 6:** Click **Save changes**.

rtb-0c1cddf0b0be64ea5 / PrivateRouteTable Actions ▾

Details [Info](#)

Route table ID rtb-0c1cddf0b0be64ea5	Main No	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-0c06f536b657c06e4 MyVPC	Owner ID 016877529802		

[Routes](#) | [Subnet associations](#) | [Edge associations](#) | [Route propagation](#) | [Tags](#)

Routes (2) Both ▾ Edit routes

< 1 > ⚙

Destination ▾	Target ▾	Status ▾	Propagated ▾
0.0.0.0/0	nat-09da26f8fbb34f9f2	Active	No
120.0.0.0/16	local	Active	No

- **Step 7:** Under the **Subnets associations** tab, click **Edit subnet associations** and select your private subnets.

rtb-0c1cddf0b0be64ea5 / PrivateRouteTable Actions ▾

Details [Info](#)

Route table ID rtb-0c1cddf0b0be64ea5	Main No	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-0c06f536b657c06e4 MyVPC	Owner ID 016877529802		

[Routes](#) | [Subnet associations](#) | [Edge associations](#) | [Route propagation](#) | [Tags](#)

Explicit subnet associations (2) Edit subnet associations

< 1 > ⚙

Name ▾	Subnet ID ▾	IPv4 CIDR ▾	IPv6 CIDR ▾
PrivateSubnet1	subnet-0f5b039cc7cf6a5f3	120.0.2.0/24	-
PrivateSubnet2	subnet-07d549b6a65607287	120.0.3.0/24	-

3. Create a Peering Connection Between MYVPC1 and MYVPC2

- **Step 1:** While still in the **North Virginia** region, go to the VPC Dashboard.
- **Step 2:** Click on **Peering Connections** in the left navigation pane.

Peering connections [Info](#) Refresh Actions ▾ Create peering connection

< 1 > ⚙

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

- **Step 3:** Click **Create Peering Connection**.
- **Step 4:** Enter the following details:
 - **Peering connection name tag:** MYVPC1-MYVPC2-Peering
 - **VPC Requester:** Select MYVPC1

- **VPC Acceptor:** Select MYVPC2

- **Step 5:** Click **Create Peering Connection**.

VPC > Peering connections > pcx-05d18991854123893

pcx-05d18991854123893 / MYVPC1-MYVPC2-Peering Actions ▼

Pending acceptance
 You can accept or reject this peering connection request using the 'Actions' menu. You have until Saturday, August 17, 2024 at 15:52:54 GMT+5:30 to accept or reject the request, otherwise it expires.

Details Info		
Requester owner ID 016877529802	Acceptor owner ID 016877529802	VPC Peering connection ARN arn:aws:ec2:us-east-1:016877529802:vpc-peering-connection/pcx-05d18991854123893
Peering connection ID pcx-05d18991854123893	Requester VPC vpc-0c06f536b657c06e4 / MyVPC	Acceptor VPC vpc-089fdaae211156069 / MyVpc2-vpc
Status Pending Acceptance by 016877529802	Requester CIDRs 120.0.0.0/16	Acceptor CIDRs -
Expiration time Saturday, August 17, 2024 at 15:52:54 GMT+5:30	Requester Region N. Virginia (us-east-1)	Acceptor Region N. Virginia (us-east-1)

[DNS](#) | [Route tables](#) | [Tags](#)

- **Step 6:** Accept the peering request from **MYVPC2**. Go to the **Peering Connections** page, select the new connection, and click **Actions > Accept Request**.

Accept VPC peering connection request [Info](#)
✕

Are you sure you want to accept this VPC peering connection request? (pcx-05d18991854123893 / MYVPC1-MYVPC2-Peering)

Requester VPC vpc-0c06f536b657c06e4 / MyVPC	Acceptor VPC vpc-089fdaae211156069 / MyVpc2-vpc	Requester CIDRs 120.0.0.0/16
Acceptor CIDRs -	Requester Region N. Virginia (us-east-1)	Acceptor Region N. Virginia (us-east-1)
Requester owner ID 016877529802 (This account)	Acceptor owner ID 016877529802 (This account)	

Cancel Accept request

Peering connections (1) [Info](#) Refresh Actions ▼ Create peering connection

Name	Peering connection ID	Status	Requester VPC	Acceptor VPC
○ MYVPC1-MYVPC2-Peering	pcx-05d18991854123893	🟢 Active	vpc-0c06f536b657c06e4 / MyV...	vpc-089fdaae211156069 / MyV...

Use same to peer VPC

4. Create a Peering Connection Between MYVPC2 and VPCOregon1

- **Step 1:** Switch to the **Oregon** region in the AWS Management Console.
- **Step 2:** Go to the VPC Dashboard.
- **Step 3:** Click on **Peering Connections** in the left navigation pane.
- **Step 4:** Click **Create Peering Connection**.
- **Step 5:** Enter the following details:
 - **Peering connection name tag:** MYVPC2-VPCOregon1-Peering
 - **VPC Requester:** Select MYVPC2 (from North Virginia)
 - **VPC Acceptor:** Select VPCOregon1
- **Step 6:** Click **Create Peering Connection**.
- **Step 7:** Accept the peering request from **VPCOregon1**. Go to the **Peering Connections** page, select the new connection, and click **Actions > Accept Request**.