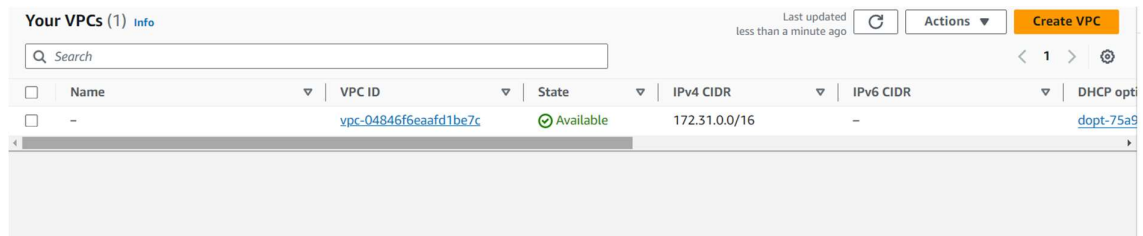


## 1. Create a VPC

- **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**.

## 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.

[VPC](#) > [Subnets](#) > Create subnet

## Create subnet [Info](#)

### VPC

VPC ID  
Create subnets in this VPC.

vpc-0c06f536b657c06e4 (MyVPC) ▼

Associated VPC CIDRs

IPv4 CIDRs  
120.0.0.0/16

### Subnet settings

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

< > ^ v

▼ Tags - optional

Key	Value - optional	
Q Name X	Q PublicSubnet X	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.

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

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)

### Subnet 3 of 3

#### Subnet name

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

PrivateSubnet2

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-1c

#### 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

120.0.3.0/24

256 IPs

#### ▼ Tags - optional

Key

Value - optional

Q Name



Q PrivateSubnet2



Remove

Add new tag

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

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IP	
<input type="checkbox"/>	PublicSubnet	<a href="#">subnet-0b0d4609b79c0ec8f</a>	Available	<a href="#">vpc-0c06f536b657c06e4</a>   <a href="#">MyVPC</a>	120.0.1.0/24		–
<input type="checkbox"/>	PrivateSubnet1	<a href="#">subnet-0f5b039cc7cf6a5f3</a>	Available	<a href="#">vpc-0c06f536b657c06e4</a>   <a href="#">MyVPC</a>	120.0.2.0/24		–
<input type="checkbox"/>	PrivateSubnet2	<a href="#">subnet-07d549b6a65607287</a>	Available	<a href="#">vpc-0c06f536b657c06e4</a>   <a href="#">MyVPC</a>	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 igw-0722cd46a3374b8d6	State Detached	VPC ID -	Owner 0168775298C
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Actions

- 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) [Info](#) Last updated 9 minutes ago

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input type="checkbox"/>	-	<a href="#">rtb-05c0055697aeaa10e</a>	-	-	Yes	<a href="#">vpc-04846f6eaa1be7c</a>

- **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 associations
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
<div>Explicit subnet associations (1)</div> <div>Find subnet association</div> <div> <div>Edit subnet associations</div> <div>&lt; 1 &gt; ⚙</div> </div>				
Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	
PublicSubnet	<a href="#">subnet-0b0d4609b79c0ec8f</a>	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 <small>Info</small>							
<div>Find resources by attribute or tag</div> <div> <div>vpc-0c06f536b657c06e4</div> <div>×</div> <div>Clear filters</div> </div> <div>&lt; 1 &gt; ⚙</div>							
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


Actions

Details

NAT gateway ID

 nat-09da26f8fbb34f9f2

NAT gateway ARN

 arn:aws:ec2:us-east-1:016877529802:natgateway/nat-09da26f8fbb34f9f2

VPC

vpc-0c06f536b657c06e4 / MyVPC

Connectivity type

Public


Primary public IPv4 address

-

Subnet

subnet-0b0d4609b79c0ec8f / PublicSubnet


State

 Pending

Primary private IPv4 address

-

Created

 Saturday, August 10, 2024 at 15:37:59 GMT+5:30

State message

[Info](#)

-

Primary network interface ID

-

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

VPC  
vpc-0c06f536b657c06e4 | MyVPC

Main  
No

Owner ID  
016877529802

Explicit subnet associations  
[2 subnets](#)

Edge associations  
-

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

**Routes (2)** Both ▾ Edit routes

Destination ▾	Target ▾	Status ▾	Propagated ▾
0.0.0.0/0	<a href="#">nat-09da26f8fbb34f9f2</a>	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

VPC  
vpc-0c06f536b657c06e4 | MyVPC

Main  
No

Owner ID  
016877529802

Explicit subnet associations  
[2 subnets](#)

Edge associations  
-

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

**Explicit subnet associations (2)** Edit subnet associations

Name ▾	Subnet ID ▾	IPv4 CIDR ▾	IPv6 CIDR ▾
PrivateSubnet1	<a href="#">subnet-0f5b039cc7cf6a5f3</a>	120.0.2.0/24	-
PrivateSubnet2	<a href="#">subnet-07d549b6a65607287</a>	120.0.3.0/24	-