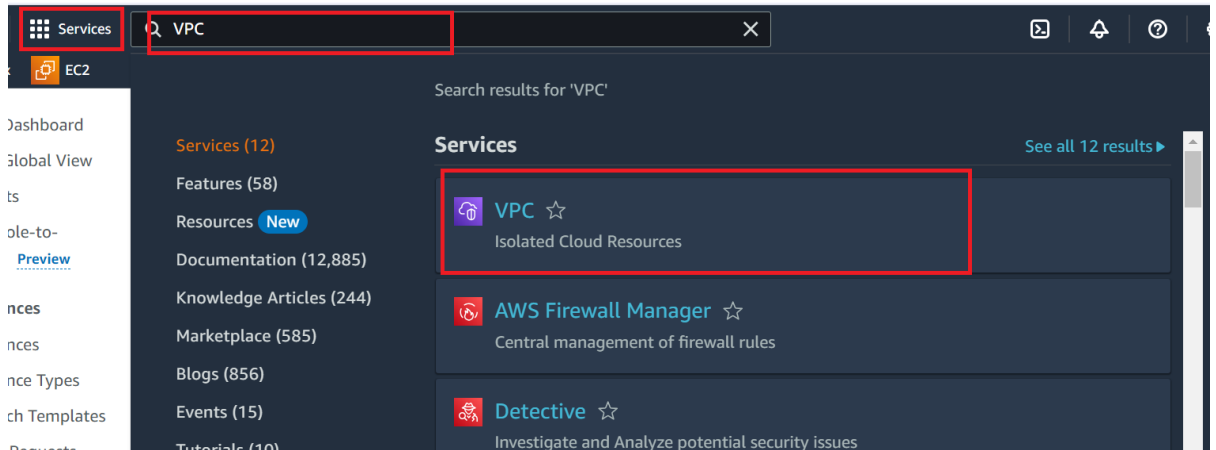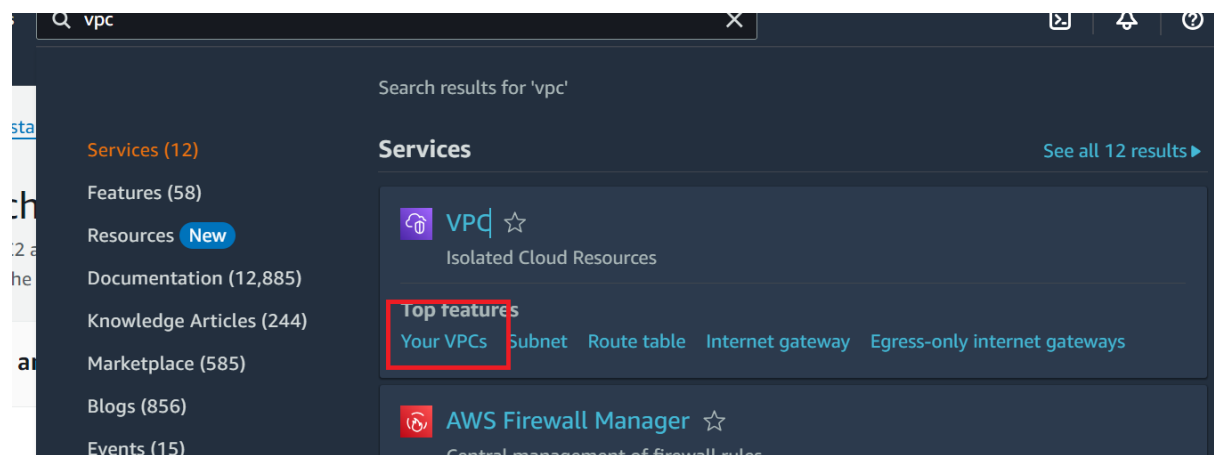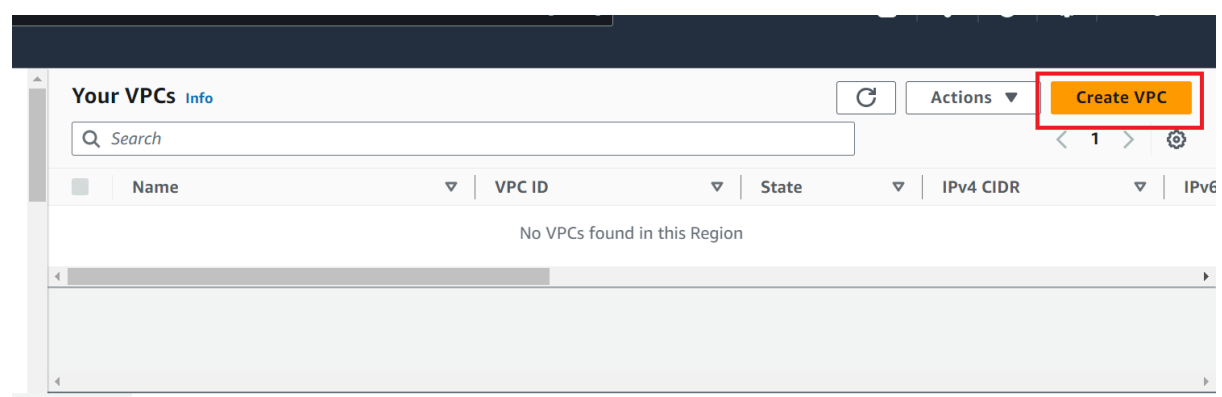**Create VPC**

Login to aws console

- Under Services and search for VPC

Click on VPC, your vpc options

Click on Create VPC

Select the ipv4 range

Resources to create   Info
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.

amit-vpc

IPv4 CIDR block   Info
⦿ IPv4 CIDR manual input
◯ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/16

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

Create VPC

Tenancy   Info

Default   ▼

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.

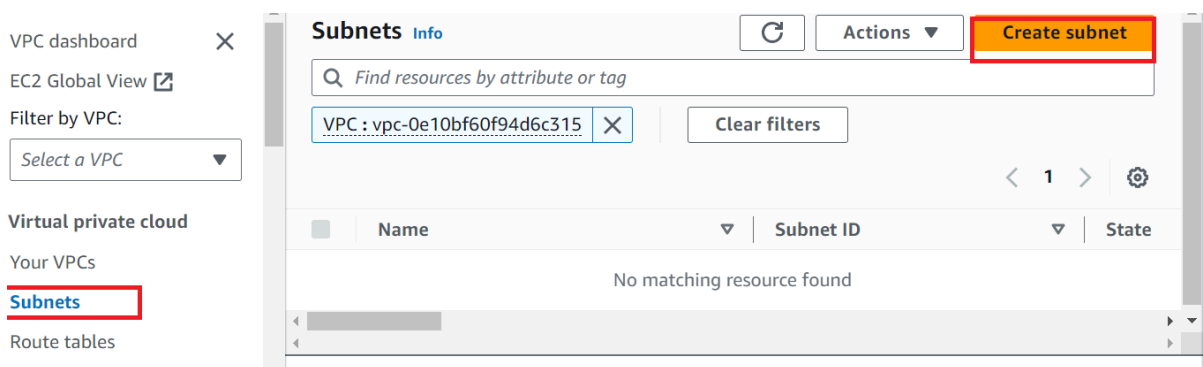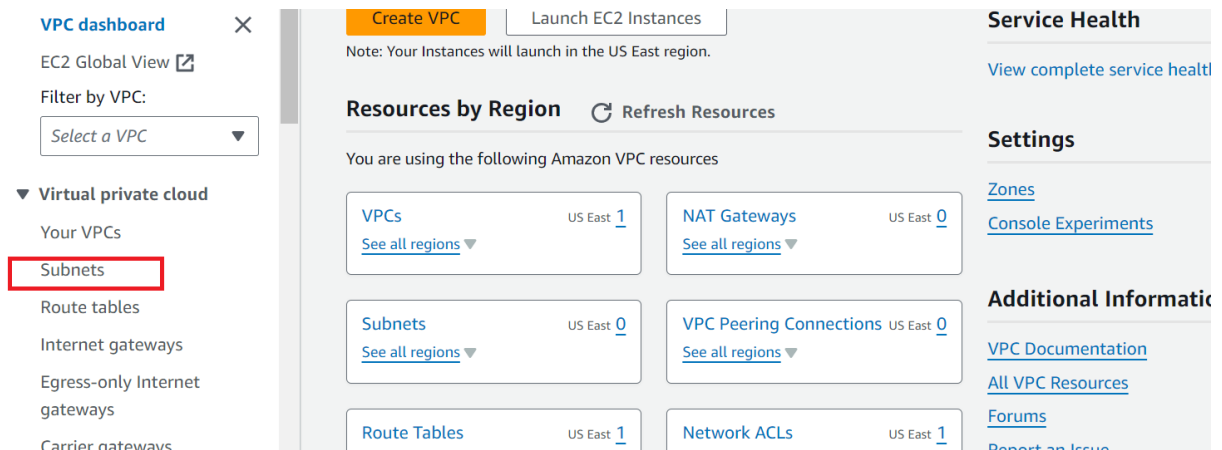| Key	Value - *optional*	
🔍 Name ✕	🔍 amit-vpc ✕	Remove tag

Add tag
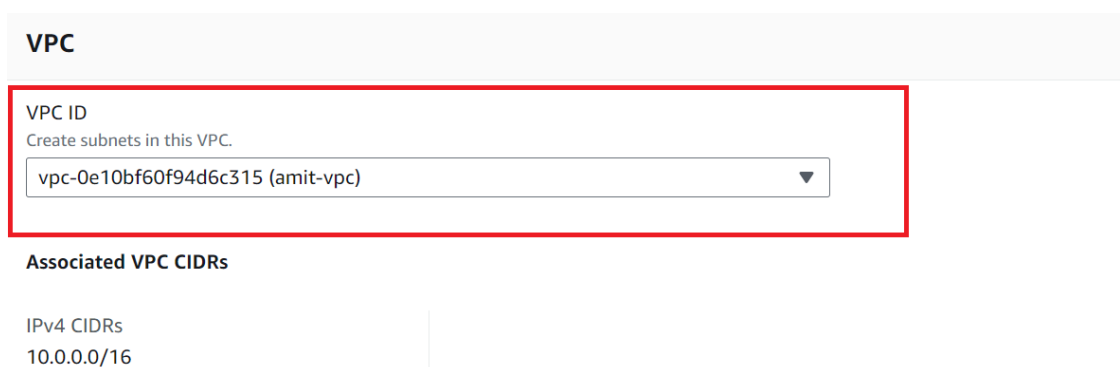You can add 49 more tags

Cancel   **Create VPC**

A subnet is a range of IP addresses in your VPC. After creating a VPC, you can add one or more subnets in each Availability Zone

After creating VPC create subnet for VPC

Select the VPC ID

Select the subnet Details: Name, VPC ,subnet range

Note: Since VPC range 10.0.0.0/16 : Subnet range can be 10.0.0.0/24

Subnet 1 of 1

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

amit-subnet-01

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.

10.0.0.0/16   ▼

IPv4 subnet CIDR block

10.0.0.0/24   256 IPs

Create Subnet

▼ Tags - *optional*

Key   Value - *optional*

🔍 Name   ✕   🔍 amit-subnet-01   ✕   Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

Cancel   **Create subnet**

Create Route Table

```
amit-route-table
```

VPC
The VPC to use for this route table.
```
vpc-0e10bf60f94d6c315 (amit-vpc)          ▼
```

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
```
Q  Name                    ✕
```

Value - optional
```
Q  amit-route-table        ✕
```
[Remove]

[Add new tag]
You can add 49 more tags.

Cancel   **Create route table**

Associate the subnet in route table

Routes	**Subnet associations**	Edge associations	Route propagation	Tags

Routes (1)   Both ▼   **Edit routes**

```
Q  Filter routes                                    <  1  >  ⚙
```

Destination	▽	Target	▽	Status	▽	Pro
10.0.0.0/16		local		⊘ Active		No

Edit subnet associations
Change which subnets are associated with this route table.

Available subnets (1/1)
```
Q  Filter subnet associations                                <  1  >  ⚙
```

☑	Name	▽	Subnet ID	▽	IPv4 CIDR	▽	IPv6 CIDR	▽	Route table ID
☑	my-subnet-01		subnet-02f897f7ac6267e6a		10.0.0.0/24		–		Main (rtb-07c3b3efe5690529f)

Selected subnets
```
subnet-02f897f7ac6267e6a / my-subnet-01  ✕
```

Cancel   **Save associations**

Create Internet Gateway

Internet gateways Info

No internet gateways found in this Region

Select an internet gateway above

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

▾ Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

Actions ▾   **Create internet gateway**

	Name	Internet gateway ID	State	VPC ID

Name tag

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

amit-internet-gw

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

Name

Value - optional

amit-internet-gw

Remove

Add new tag

You can add 49 more tags.

Cancel   **Create internet gateway**

Attach Internet gateway to VPC

VPC > Internet gateways > igw-009e8b81b33dedff8

igw-009e8b81b33dedff8 / amit-internet-gw

Actions ▲

Attach to VPC

Detach from VPC

Manage tags

Delete

Details Info

Internet gateway ID	State	VPC ID	Owner
igw-009e8b81b33dedff8	⊖ Detached	–	883

VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs
Attach the internet gateway to this VPC.

🔍 vpc-0e10bf60f94d6c315   ✕

▶ **AWS Command Line Interface command**

Cancel   **Attach internet gateway**

Edit Route Table for internet gateway

Filter by VPC:

Select a VPC ▼

▼ Virtual private cloud

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

🔍 Find resources by attribute or tag   ‹ 1 › ⚙

	Name	▽	Route table ID	▽	Explicit subnet associations	▽	Edge associati
☐	–		rtb-07c3b3efe5690529f		–		–
☑	my-route-table-01		rtb-00ff44b618e884663		subnet-02f897f7ac6267e6a / my-sub...		–

═

rtb-00ff44b618e884663 / my-route-table-01

Details | **Routes** | Subnet associations | Edge associations | Route propagation | Tags

Routes (1)   Both ▼   **Edit routes**

🔍 Filter routes   ‹ 1 › ⚙

Add routes

Destination	Target	Status	Propagated
10.0.0.0/16	local ▼ 🔍 local ✕	⊘ Active	No

Add route

Search and add the internet gateway

Destination	Target	Status	Propagated	
10.0.0.0/16	local ▼ 🔍 local ✕	⊘ Active	No	
🔍 0.0.0.0/0 ✕	Internet Gateway ▼ 🔍 igw-032daf8f00dd2e2fe ✕	–	No	Remove

Add route

Cancel   Preview   **Save changes**