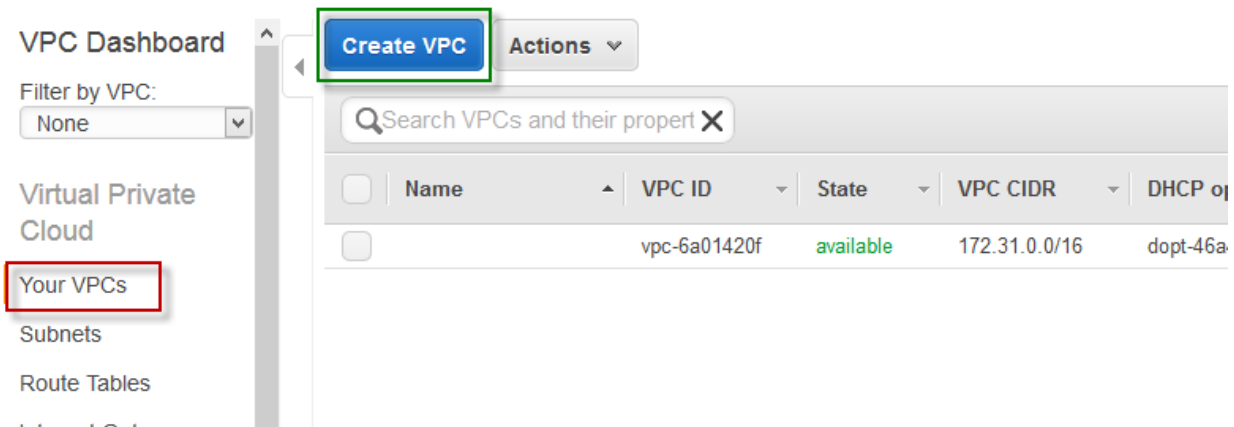


CUSTOM VPC CREATION

Once you logged in to AWS management console go to VPC.
Choose Your VPCs from left navigation pane then click on Create VPC.



On Create VPC dialog box, add name tag, specify CIDR block, choose Tenancy then click on Yes Create.

The 'Create VPC' dialog box is shown. It contains a description of VPCs and three input fields: 'Name tag' with the value 'Test', 'CIDR block' with the value '10.20.0.0/16', and 'Tenancy' with the value 'Default'. The 'Yes, Create' button is highlighted with a red box.

Create VPC [X]

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. Use the Classless Inter-Domain Routing (CIDR) block format to specify your VPC's contiguous IP address range, for example, 10.0.0.0/16. You cannot create a VPC larger than /16.

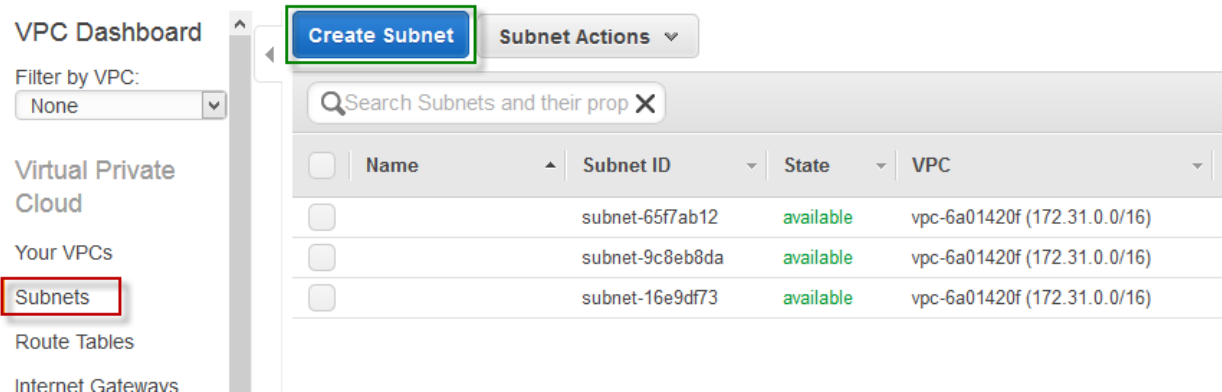
Name tag: ⓘ

CIDR block: ⓘ

Tenancy: ⓘ

Cancel **Yes, Create**

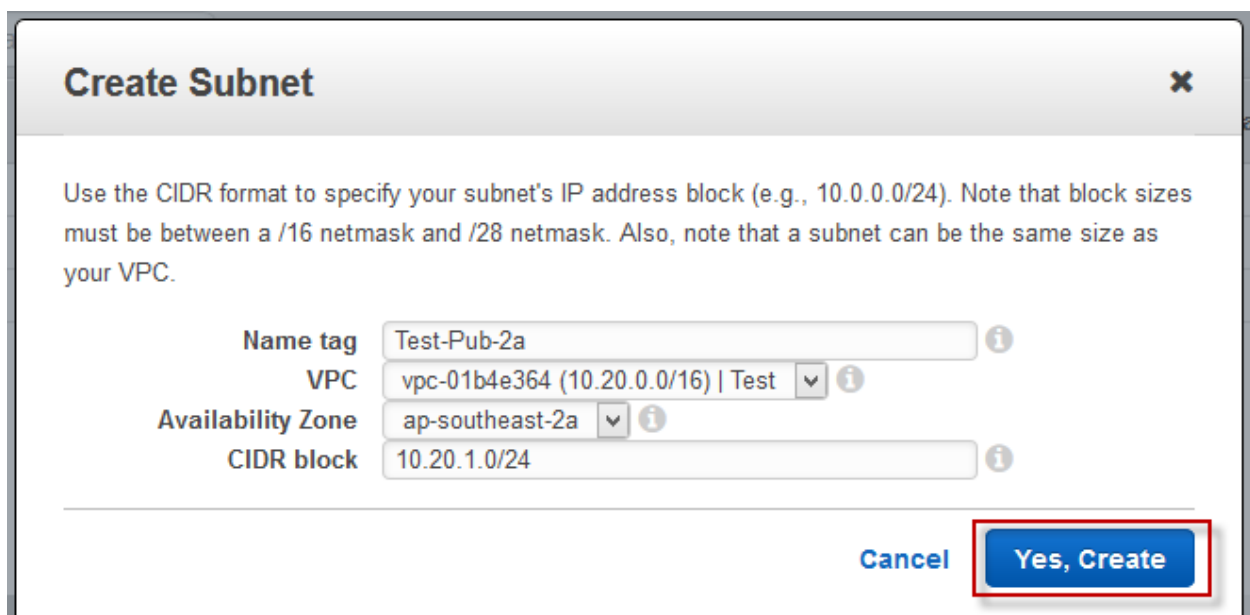
Choose Subnets from left navigation page, then select Create Subnet.



The screenshot shows the AWS VPC Dashboard. In the top navigation bar, the 'Create Subnet' button is highlighted with a green box. In the left sidebar, under 'Virtual Private Cloud', the 'Subnets' link is highlighted with a red box. The main content area shows a table of existing subnets.

	Name	Subnet ID	State	VPC
<input type="checkbox"/>		subnet-65f7ab12	available	vpc-6a01420f (172.31.0.0/16)
<input type="checkbox"/>		subnet-9c8eb8da	available	vpc-6a01420f (172.31.0.0/16)
<input type="checkbox"/>		subnet-16e9df73	available	vpc-6a01420f (172.31.0.0/16)

Add a name tag, choose VPC from VPC drop down list, choose AZ from AZ drop down list, specify CIDR block for your subnet, then click on yes Create.

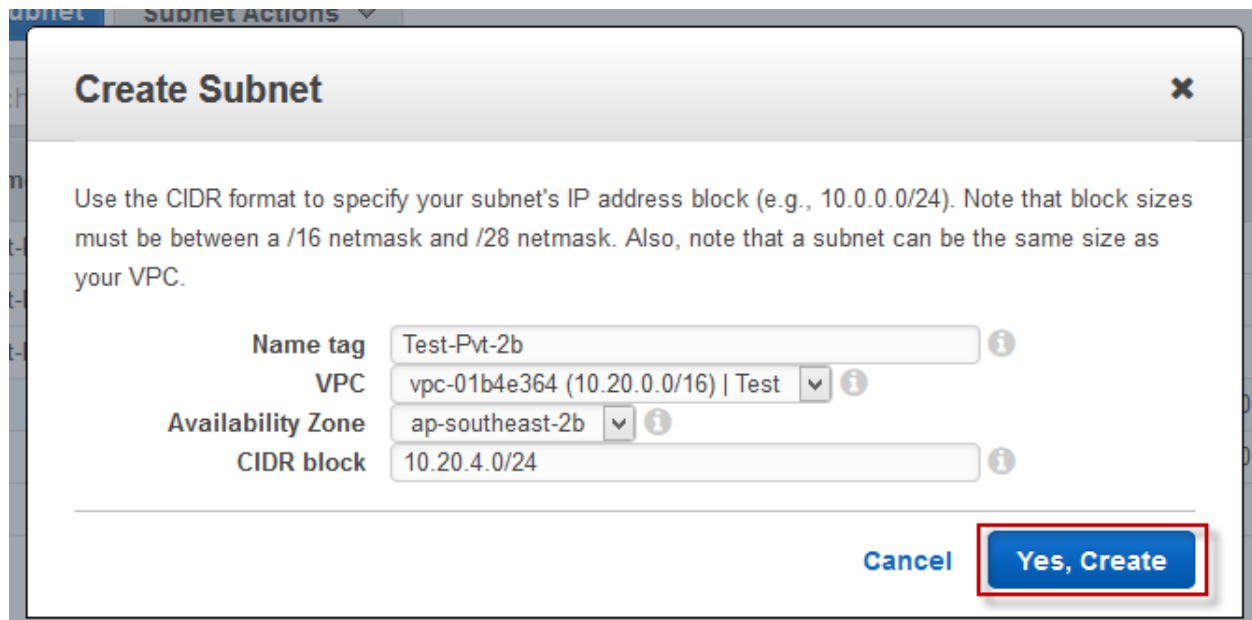


The 'Create Subnet' dialog box is shown. It contains the following fields and options:

- Name tag:** Test-Pub-2a
- VPC:** vpc-01b4e364 (10.20.0.0/16) | Test
- Availability Zone:** ap-southeast-2a
- CIDR block:** 10.20.1.0/24

At the bottom right, there are two buttons: 'Cancel' and 'Yes, Create'. The 'Yes, Create' button is highlighted with a red box.

Like same way try to create more subnets differ them with public and private.



Create Subnet

Use the CIDR format to specify your subnet's IP address block (e.g., 10.0.0.0/24). Note that block sizes must be between a /16 netmask and /28 netmask. Also, note that a subnet can be the same size as your VPC.

Name tag: Test-Pvt-2b


VPC: vpc-01b4e364 (10.20.0.0/16) | Test

Availability Zone: ap-southeast-2b

CIDR block: 10.20.4.0/24

Buttons: Cancel, Yes, Create

Choose Internet gateways from the left navigation page, then click on Create Internet Gateway.



VPC Dashboard

Filter by VPC: None

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

DHCP Options Sets

Elastic IPs

Create Internet Gateway Delete Attach to VPC Detach from VPC

Search Internet Gateways and X

	Name	ID	State	VPC
		igw-8c8b0ce9	attached	vpc-6a01420f (172.31.0.0/16)

Specify a name tag then choose Yes, Create.

Create Internet Gateway

An Internet gateway is a virtual router that connects a VPC to the Internet.

Name tag

[Cancel](#) [Yes, Create](#)

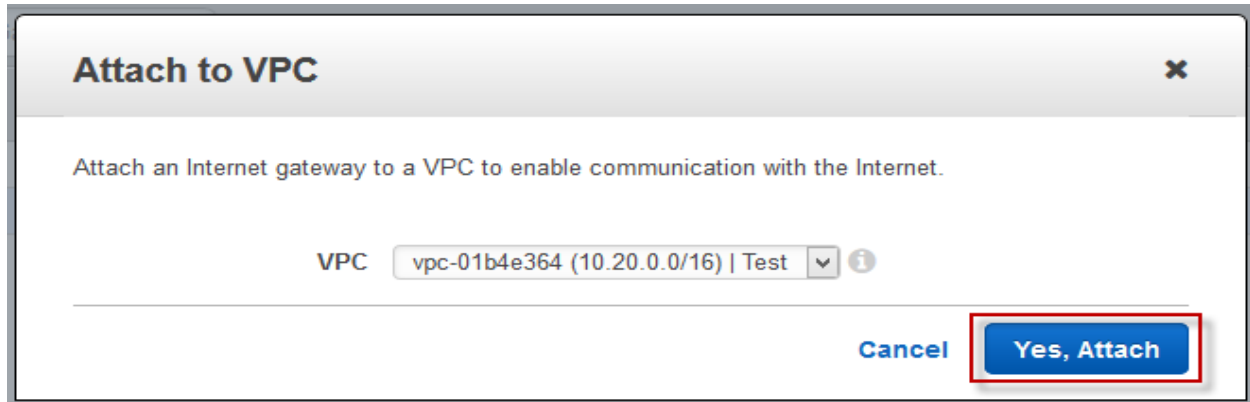
Once Internet Gateway created, it will be in detached state, we need to manually attach it to our VPC.

To do that choose Internet Gateway, select Attach to VPC button.

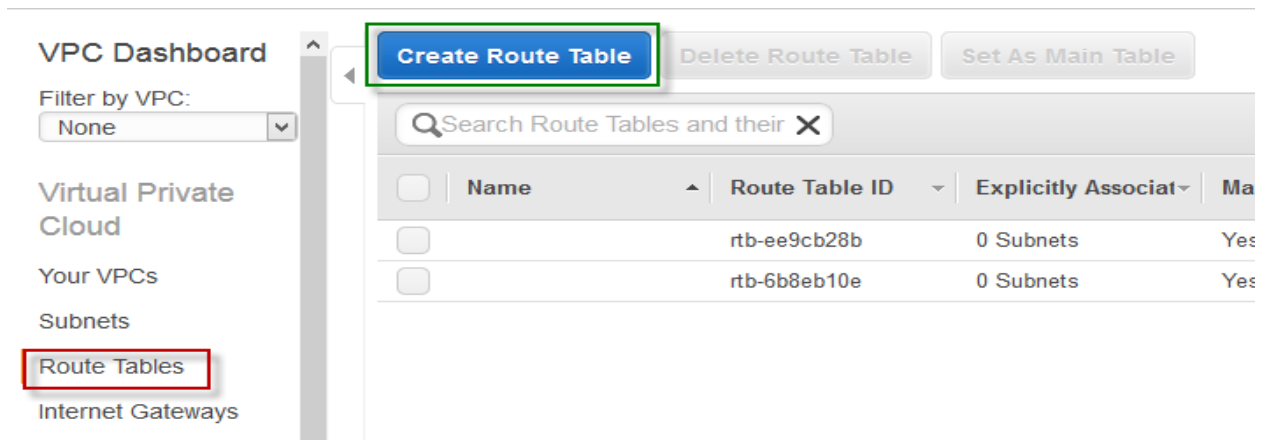
[Create Internet Gateway](#) [Delete](#) [Attach to VPC](#) [Detach from VPC](#)

<input type="checkbox"/>	Name	ID	State	VPC
<input type="checkbox"/>		igw-8c8b0ce9	attached	vpc-6a01420f (172.31.0.0/16)
<input checked="" type="checkbox"/>	IGW-Test	igw-11a02f74	detached	

On Attach to VPC dialog box choose your VPC, then click on Yes, Attach



Each subnet in VPC must be associated with Route Table.
Choose Route Tables from the left navigation pane, click on Create Route Table.



On Create Route Table dialog box, specify a name tag, choose your VPC from VPC drop down list, then click on Yes, Create.

Create Route Table

A route table specifies how packets are forwarded between the subnets within your VPC, the Internet, and your VPN connection.

Name tag

Test-Pub-RT

VPC

vpc-01b4e364 (10.20.0.0/16) | Test

Cancel

Yes, Create

Once created choose the Route Table, under Routes click on Edit button.

Test-Pub-RT

rtb-0e8ab56b

0 Subnets

No

vpc-01b4e364 (10.20.0.0/

rtb-0e8ab56b | Test-Pub-RT

Summary

Routes

Subnet Associations

Route Propagation

Tags

Edit

Destination	Target	Status	Propagated
10.20.0.0/16	local	Active	No

click on Add another route to create a new rule which we are going to attach to Internet Gateway.

Test-Pub-RT rtb-0e8ab56b 0 Subnets No vpc-01b4e364 (10.20.0.0/16) | Test

rtb-0e8ab56b | Test-Pub-RT

Summary **Routes** Subnet Associations Route Propagation Tags

Cancel **Save**

Destination	Target	Status	Propagated	Remove
10.20.0.0/16	local	Active	No	

Add another route

Specify destination as 0.0.0.0/0 and choose target as Internet gateway, then click on Save button to save.

Test-Pub-RT rtb-0e8ab56b 0 Subnets No vpc-01b4e364 (10.20.0.0/16) | Test

rtb-0e8ab56b | Test-Pub-RT

Summary **Routes** Subnet Associations Route Propagation Tags

Cancel **Save**

Destination	Target	Status	Propagated	Remove
10.20.0.0/16	local	Active	No	
0.0.0.0/0	igw-11a02f74 IGW-Test		No	✕

Add another route

then choose Subnet Associations and click on Edit button to add Subnets to this Route Table.

Test-Pub-RT

rtb-0e8ab56b

0 Subnets

No

vpc-01b4e364 (10.20.0.0/16) | Test

rtb-0e8ab56b | Test-Pub-RT

Summary

Routes

Subnet Associations

Route Propagation

Tags

Edit

Subnet

CIDR

You do not have any subnet associations.

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

--	--

Under Subnet Associations, select the subnets which you want to attach it and click on Save button.

Test-Pub-RT

rtb-0e8ab56b

0 Subnets

No

vpc-01b4e364 (10.20.0.0/16) | Test

rtb-0e8ab56b | Test-Pub-RT

Summary

Routes

Subnet Associations

Route Propagation

Tags

Cancel

Save

Associate	Subnet	CIDR	Current Route Table
<input checked="" type="checkbox"/>	subnet-1d707778 (10.20.1.0/24) Test-Pub-2a	10.20.1.0/24	Main
<input type="checkbox"/>	subnet-f2707797 (10.20.2.0/24) Test-Pvt-2a	10.20.2.0/24	Main
<input checked="" type="checkbox"/>	subnet-db1c31ac (10.20.3.0/24) Test-Pub-2b	10.20.3.0/24	Main
<input type="checkbox"/>	subnet-b11c31c6 (10.20.4.0/24) Test-Pvt-2b	10.20.4.0/24	Main