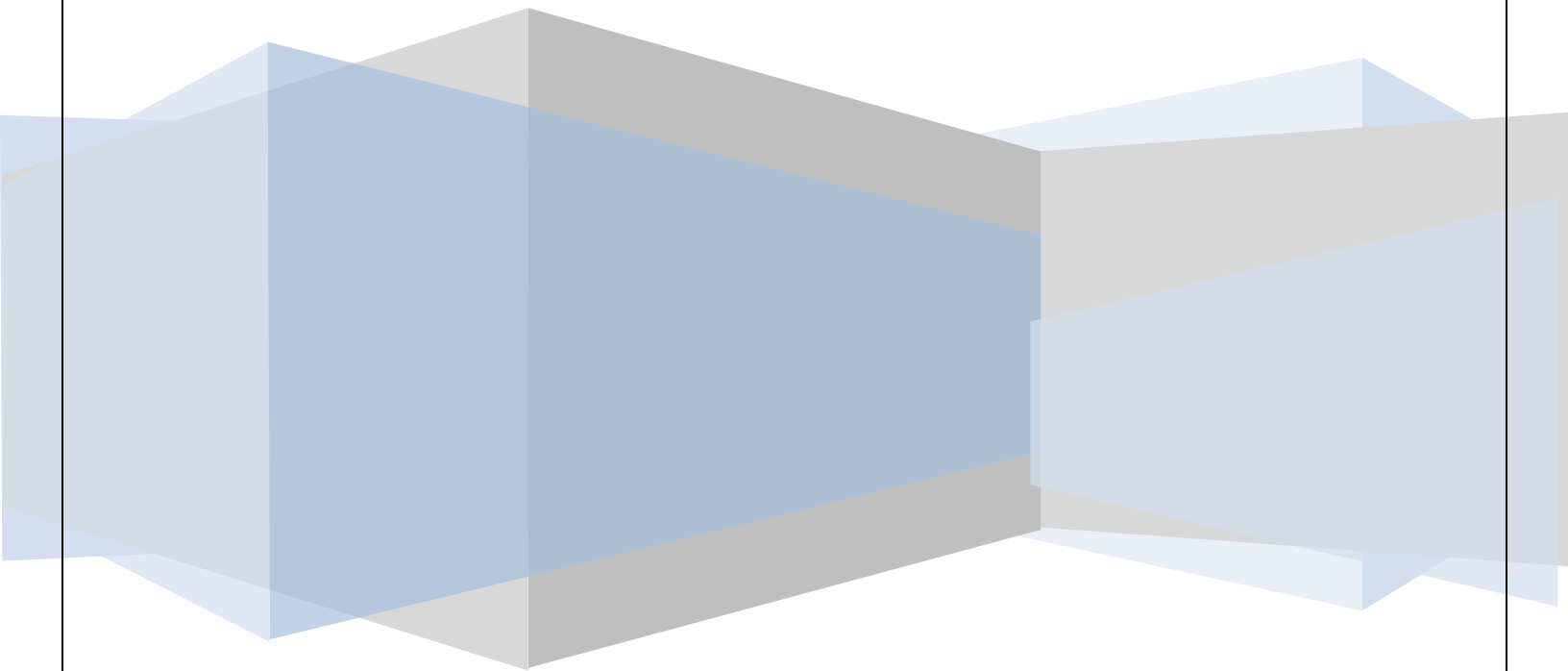


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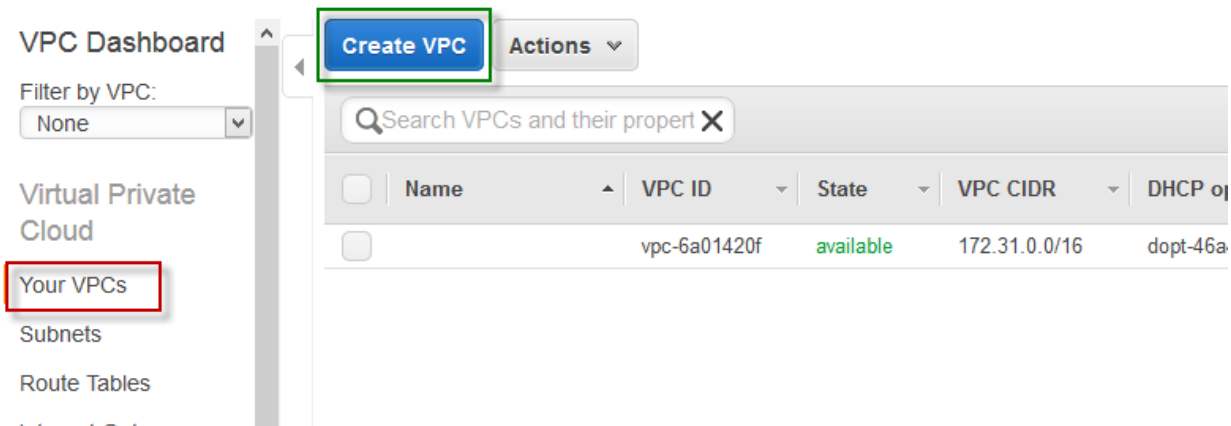
**AWS Cloud Training**

**AWS CUSTOM VPC CREATION**



# 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.



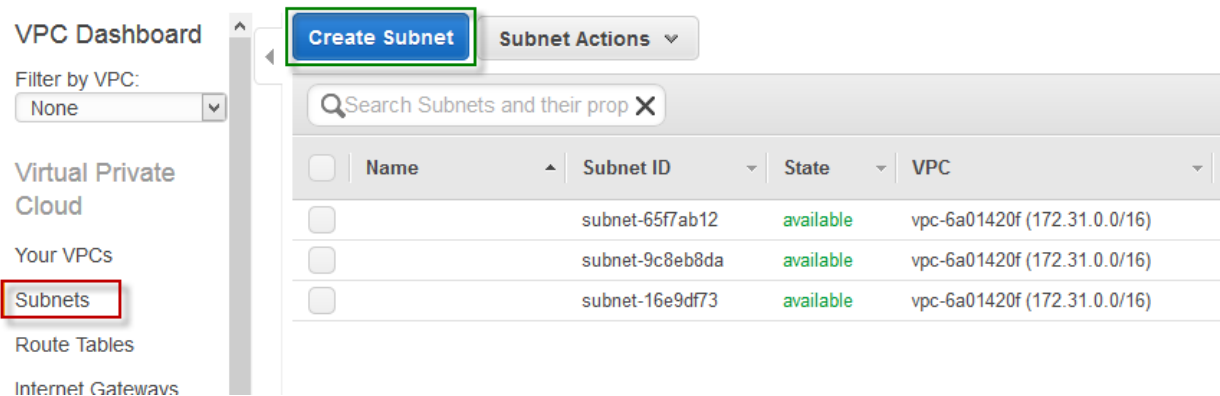
On Create VPC dialog box, add name tag, specify CIDR block, choose Tenancy then click on Yes Create.

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

- Name tag:** Text input field with the value 'Test'.
- CIDR block:** Text input field with the value '10.20.0.0/16'.
- Tenancy:** Dropdown menu with the value 'Default'.

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

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



VPC Dashboard

Filter by VPC: None

Virtual Private Cloud

Your VPCs

**Subnets**

Route Tables

Internet Gateways

**Create Subnet** Subnet Actions

Search Subnets and their prop X

<input type="checkbox"/>	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.

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-Pub-2a

VPC

vpc-01b4e364 (10.20.0.0/16) | Test

Availability Zone

ap-southeast-2a

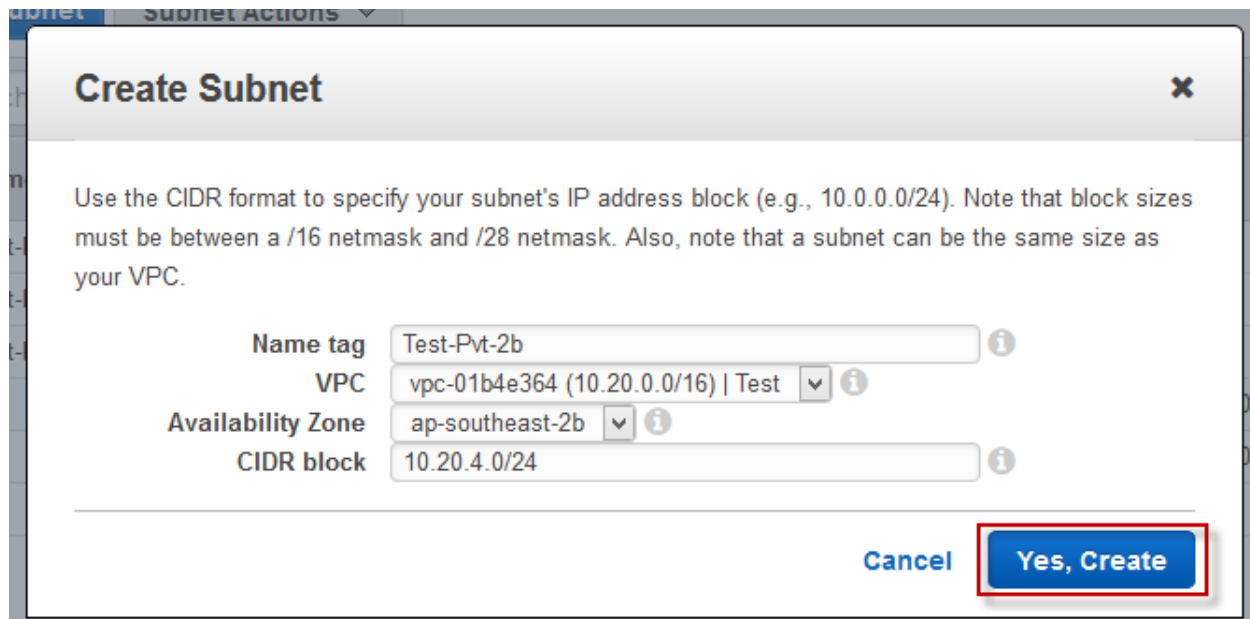
CIDR block

10.20.1.0/24

Cancel

Yes, Create

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



**Create Subnet** [X]

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 [i]

VPC: vpc-01b4e364 (10.20.0.0/16) | Test [v] [i]

Availability Zone: ap-southeast-2b [v] [i]

CIDR block: 10.20.4.0/24 [i]

[Cancel] [Yes, Create]

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



**VPC Dashboard**

Filter by VPC: [None v]

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
<input type="checkbox"/>		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

IGW-Test

i

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

Q Search Internet Gateways and X

<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



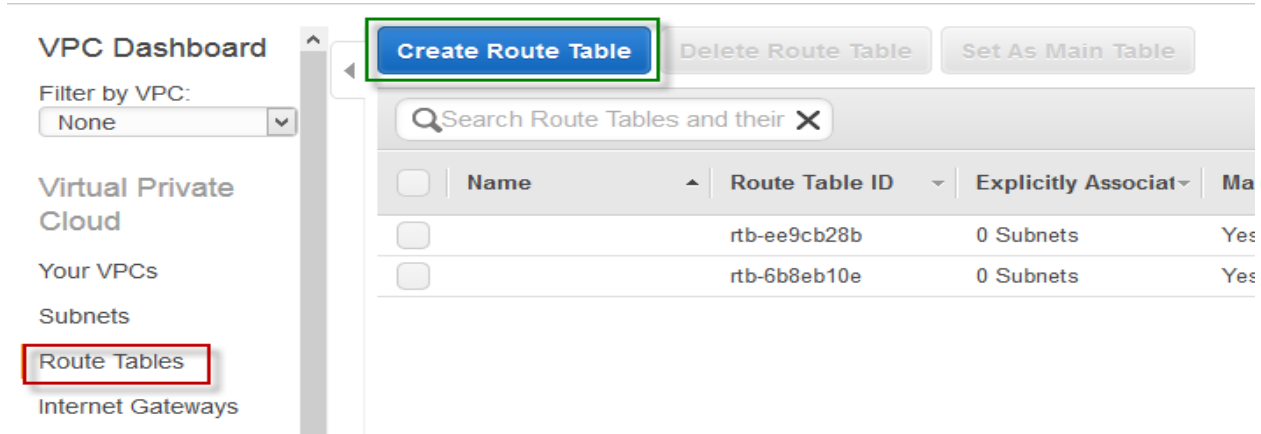
**Attach to VPC** [X]

Attach an Internet gateway to a VPC to enable communication with the Internet.

VPC  [i]

[Cancel] **[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.



**VPC Dashboard**

Filter by VPC:  [v]

Virtual Private Cloud

Your VPCs

Subnets

**[Route Tables]**

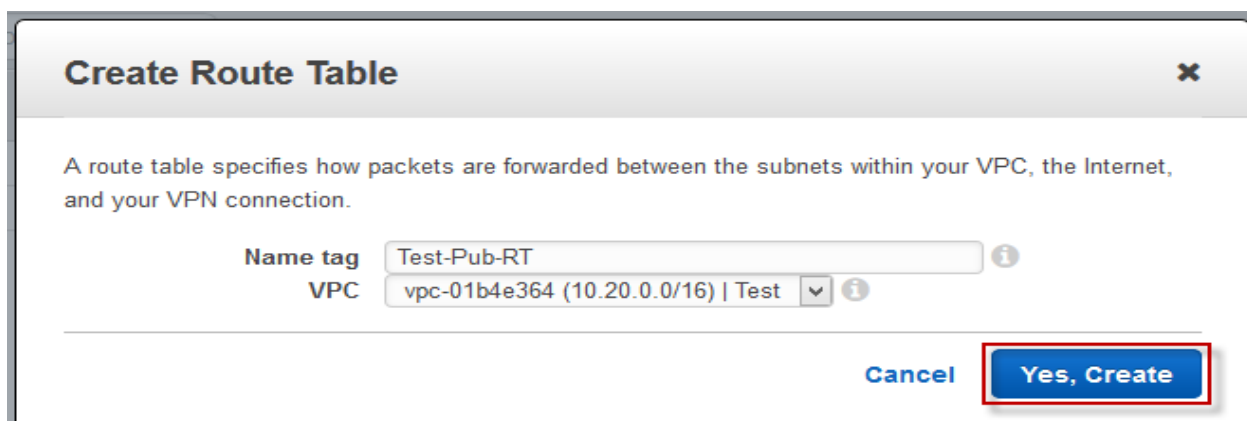
Internet Gateways

**[Create Route Table]** [Delete Route Table] [Set As Main Table]

Search Route Tables and their [X]

<input type="checkbox"/>	Name	Route Table ID	Explicitly Associat	Ma
<input type="checkbox"/>		rtb-ee9cb28b	0 Subnets	Yes
<input type="checkbox"/>		rtb-6b8eb10e	0 Subnets	Yes

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** [X]

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

Name tag  [i]

VPC  [v] [i]

[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			No	✕

Add another route    **igw-11a02f74 | IGW-Test**

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