

Create a VPC in the Mumbai Region

CreateVpc | VPC Console

New Tab

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#CreateVpccreateMode=vpcOnly

Search

[Alt+S]

VPC

Your VPCs

Create VPC

Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

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.

different_Pub

IPv4 CIDR block [Info](#)
☒ IPv4 CIDR manual input
☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR
10.0.0.0/17

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

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
-----	------------------

Mumbai Subnet:

Subnets

Create subnet

Create subnet

VPC

VPC ID

Choose a VPC in the VPC

vpc-41f7b49b012235c1 (different_Pub)

Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/17

Subnet settings

Specify the CIDR block and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

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

01_Pub

The name can be up to 255 characters long.

Availability Zone

Choose an Availability Zone for your subnet and make sure you select an Amazon Route 53 for you.

Asia Pacific (Mumbai) / ap-south-1c

IPv4 VPC CIDR block

Specify the IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must be within this block.

10.0.0.0/17

IPv4 subnet CIDR block

Specify the IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must be within this block.

10.0.0.0/26

Tags - optional

Key

Value - optional

01_Name

01_Pub

Remove

Add new tag

Remove

Add new subnet

Subnets

subnet-0a009971e1150a284

Edit subnet settings

Subnet

Subnet ID

subnet-0a009971e1150a284

Name

01_Pub

Auto-assign IP settings

Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.

Enable auto-assign public IPv4 address

Enable auto-assign customer-owned IPv4 address

Option disabled because no customer-owned pools found

Resource-based name (RBN) settings

Specify the hostname type for EC2 instances in this subnet and optional RBN query settings.

Enable resource name DNS A record on launch

Enable resource name DNS AAAA record on launch

Hostname type

Resource name

IP name

DNS64 settings

Enable DNS64 to allow IPv6-only services in Amazon VPC to communicate with IPv4-only services and networks.

Enable DNS64

Cancel

Save

CloudTrail

Feedback

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Privacy

Terms

Create preferences

EC2 > Internet gateways > Create internet gateway

Create internet gateway

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

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

different_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

Value - optional

Q Name X Q different_gw X Remove

Add new tag

You can add 40 more tags.

Cancel

Create internet gateway

Create Route Tables

The screenshot displays the AWS Management Console interface for creating a new route table. The breadcrumb navigation at the top indicates the path: VPC > Route tables > Create route table. The main heading is 'Create route table' with a 'help' link. Below the heading, a brief description states: 'A route table specifies how packets are forwarded between the subnets within your VPC, the Internet, and your VPN connection.'

The 'Route table settings' section contains two fields:

- Name - optional:** A text input field with the value 'D-junk'. A tooltip explains: 'Create a tag with a key of 'Name' and a value that you specify.'
- VPC:** A dropdown menu showing 'vpc-0173d899d0122357c (us-east-1)'. A tooltip explains: 'You can't use for this route table.'

The 'Tags' section includes a description: '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.' It features a table with two columns: 'Key' and 'Value - optional'. The table is currently empty, with a single row showing 'Q, Name' in the key column and 'Q, D-junk' in the value column. There are 'X' buttons to delete each tag and a 'Remove' button. An 'Add new tag' button is located below the table. A note at the bottom of the section states: 'You can add 40 more tags.'

At the bottom right of the console, there are two buttons: a blue 'Cancel' button and an orange 'Create route table' button.

VPC > Route tables > Create route table

Create route table

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

Route table settings

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

D.juh

VPC
The VPC to use for this route table

vpc-01f7fa9960722353c us-east-1

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 X

Value - optional

Q, D.juh X Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

The image shows two screenshots from the AWS Management Console. The top screenshot displays the 'Edit routes' dialog for a VPC. The 'Destination' is set to '10.0.0.0/17'. The 'Target' dropdown is open, showing options like 'Core Network', 'Egress Only Internet Gateway', 'Gateway Load Balancer Endpoint', 'Instance', 'Internet Gateway', 'Local', 'NAT Gateway', 'Network Interface', 'Outposts Local Gateway', 'Peering Connection', 'Transit Gateway', and 'Virtual Private Gateway'. The 'Status' is 'Active'. The 'Propagated' checkbox is unchecked. The bottom screenshot shows the 'Your VPCs' dashboard. A table lists VPCs with columns for Name, VPC ID, State, Block Public..., IPv4 CIDR, IPv6 CIDR, DHCP options set, Main route table, Main network ACL, Tenancy, and Default VPC. The 'different_Pub' VPC is selected. Below the table, the 'Resource map' for 'vpc-017b499b0722357c / different_Pub' is shown, including subnets (ap-south-1b), route tables (rtb-00906d5c13854e7), and network connections (Different_Git).

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/17	local	Active	No

Your VPCs (1/4)

Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP options set	Main route table	Main network ACL	Tenancy	Default VPC
Green_VPC	vpc-0d546b05d1d9c156d	Available	Off	10.0.0.0/16	-	dhcp-05ca1099e110f032	rtb-051f598e512c0398	acl-08070708a0a90473b	default	No
My_VPC	vpc-0226dc51127501817	Available	Off	10.0.0.0/16	-	dhcp-05ca1099e110f032	rtb-05425329185322a14	acl-08070708a0a90473b	default	No
-	vpc-0a2a223425611547d	Available	Off	172.31.0.0/16	-	dhcp-05ca1099e110f032	rtb-05425329185322a14	acl-08070708a0a90473b	default	Yes
different_Pub	vpc-017b499b0722357c	Available	Off	10.0.0.0/17	-	dhcp-05ca1099e110f032	rtb-00906d5c13854e7	acl-05373144da67110a9	default	No

vpc-017b499b0722357c / different_Pub

Resource map

- VPC** (show details): Your AWS virtual network. different_Pub
- Subnets (1)**: Subnets within this VPC. ap-south-1b (D_Pub)
- Route tables (2)**: Route network traffic to resources. rtb-00906d5c13854e7 (D_Pub)
- Network connections (1)**: Connections to other networks. Different_Git

Mumbai Security Group:

SSH: Port 22, Source: 0.0.0.0/0.

HTTP: Port 80, Source: 0.0.0.0/0.

ICMP: Source: 0.0.0.0/0.

Create a VPC in the London Region

Create VPC

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

Resources to create

☒ VPC only ☐ VPC and peers

Name tag - optional

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

different_PuB1

IPv4 CIDR block

☒ IPv4 CIDR manual input ☐ IPAM allocated IPv4 CIDR block

IPv4 CIDR

192.168.0.0/22

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

IPv4 CIDR block

☒ Ipv4 CIDR block ☐ IPAM allocated IPv4 CIDR block ☐ Amazon-provided IPv4 CIDR block ☐ IPv4 CIDR owned by me

Tenancy

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

different_PuB1

[Add tag](#)

You can add 49 more tags.

[Cancel](#) [Preview code](#) [Create VPC](#)

Create London Subnet:-

Create subnet

VPC

VPC ID

vpw-05a1f13d4d3738d55 (different_PuB1)

Associated VPC CIDRs

IPv4 CIDRs

192.168.0.0/22

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

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

D_PuB1

The name appears as the DNS hostname tag.

Availability Zone

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

Europe (London) / eu-west-2b

IPv4 VPC CIDR block

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

192.168.0.0/22

IPv4 subnet CIDR block

192.168.0.0/24

Tags - optional

Key Value - optional

D_PuB1

[Add new tag](#)

You can add 49 more tags.

[Remove](#)

[Add new subnet](#)

London Internet Gateway:

Create internet gateway

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

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

D_Gateway?

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.

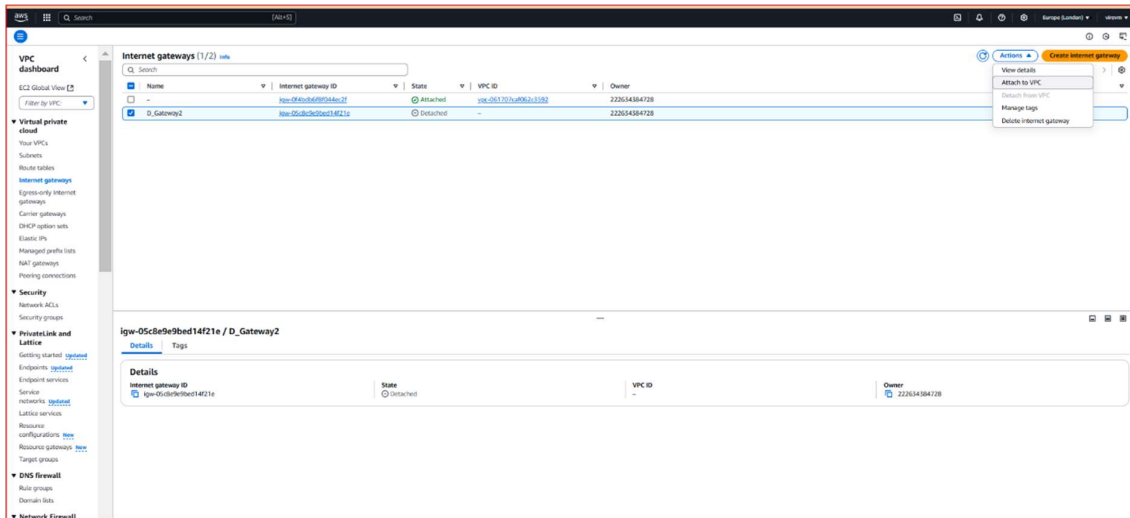
Key Value - optional

D_Gateway?

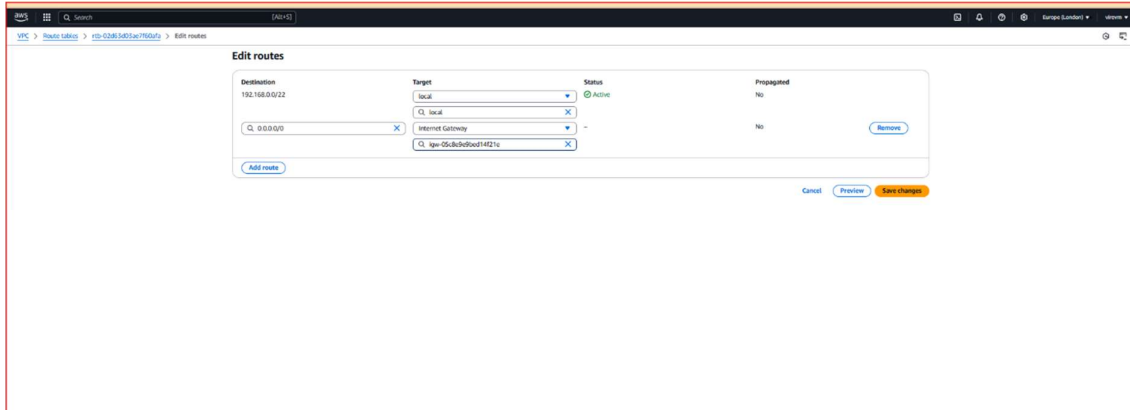
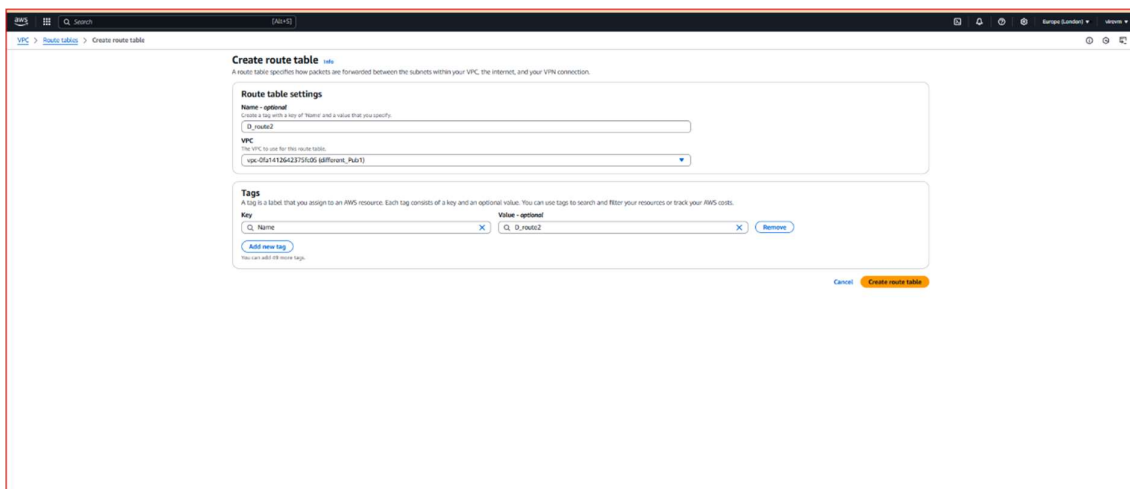
[Add new tag](#)

You can add 49 more tags.

[Cancel](#) [Create internet gateway](#)



London Route Table



Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/1)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/> D_Pub1	subnet-0c6a296f53ba66c	192.168.0.0/26	--	Main (rb-03-rf155c448531e)

Selected subnets

subnet-0c6a296f53ba66c / D_Pub1

[Cancel](#) [Save associations](#)

Your VPCs (1/2) vpc-

Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table	Main network ACL	Tenancy	Default VPC
-	vpc-061707a7562a3352	Available	Off	172.31.0.0/16	--	dspt-0364769a887789	rb-062534f9d61a2712e	acl-08133612a10ba31e	default	Yes
<input checked="" type="checkbox"/> different_Pub1	vpc-061412642235606	Available	Off	192.168.0.0/22	--	dspt-0364769a887789	rb-03-rf155c448531e	--	default	No

vpc-061412642235606 / different_Pub1

Details | **Resource map** | CIDRs | Flow logs | Tags | Integrations

Resource map info

VPC [View details](#)
Your VPC's virtual network

Subnets (1)
Subnets within this VPC

eu-west-2b
D_Pub1

Route tables (2)
Route network traffic to resources

rb-03-rf155c448531e
D_routa2

Network connections (1)
Connections to other networks

D_Gateway2

London Security Group:

SSH: Port 22, Source: 0.0.0.0/0.

HTTP: Port 80, Source: 0.0.0.0/0.

ICMP: Source: 0.0.0.0/0.

Establish VPC Peering Connection:-

Create peering connection

A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them privately.

Peering connection settings

Name - optional
Create a tag with a key of "Name" and a value that you specify.
Q: Peering

Select a local VPC to peer with

VPC ID (Required)
vpc-05a1412642375a05 (different_Pub1)

VPC CIDRs for vpc-05a1412642375a05 (different_Pub1)

CIDR	Status	Status reason
192.168.0.0/22	Associated	

Select another VPC to peer with

Account
☒ My account
☐ Another account

Region
☐ This Region (eu-west-2)
☒ Another Region

Asia Pacific (Mumbai) (ap-south-1)

VPC ID (Accepted)
vpc-01f75d8196d722317c

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: D_Peering

Buttons: Add new tag, Remove, Cancel, Create peering connection

Requester VPC: Mumbai-VPC.

Acceptor VPC: London-VPC

In the Mumbai region, accept the peering request in the VPC Peering Connections section

Peering connections (1/2)

Name	Peering connection ID	Status	Requester VPC	Acceptor VPC	Requester CIDRs	Acceptor CIDRs	Requester owner ID	Acceptor owner ID	Requester Region	Acceptor Region
D_Peering	vpc-05a1412642375a05	Active	vpc-05a1412642375a05	vpc-01f75d8196d722317c	192.168.0.0/22	10.0.0.0/16	222534384728	222534384728	London (eu-west-2)	Mumbai (ap-south-1)
1st to green	vpc-0b65d515d4d752817	Active	vpc-012bde31717961877 / My	vpc-0b65d515d4d752817 / Green	10.0.0.0/16	192.168.0.0/16	222534384728	222534384728	Mumbai (ap-south-1)	Mumbai (ap-south-1)

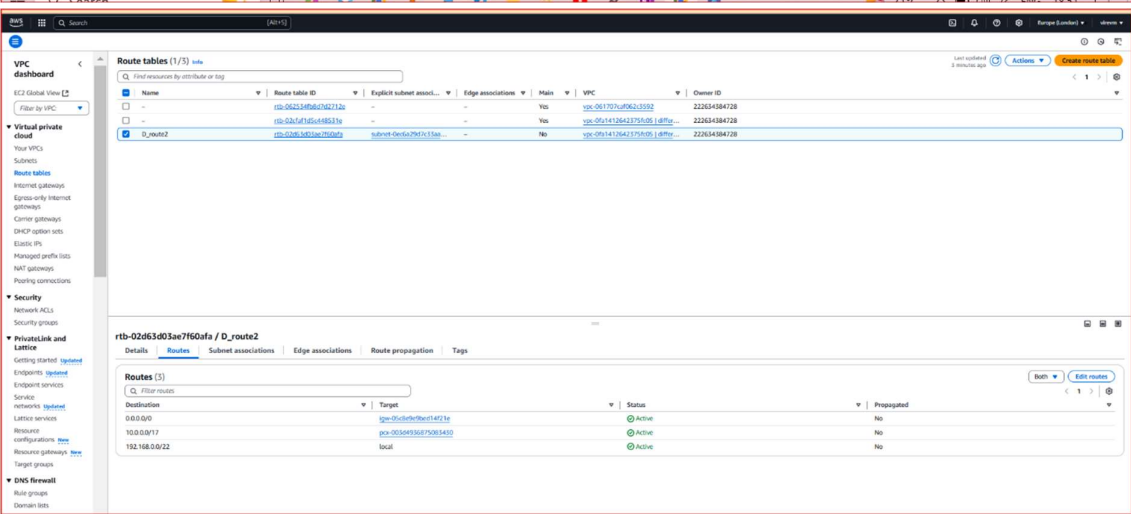
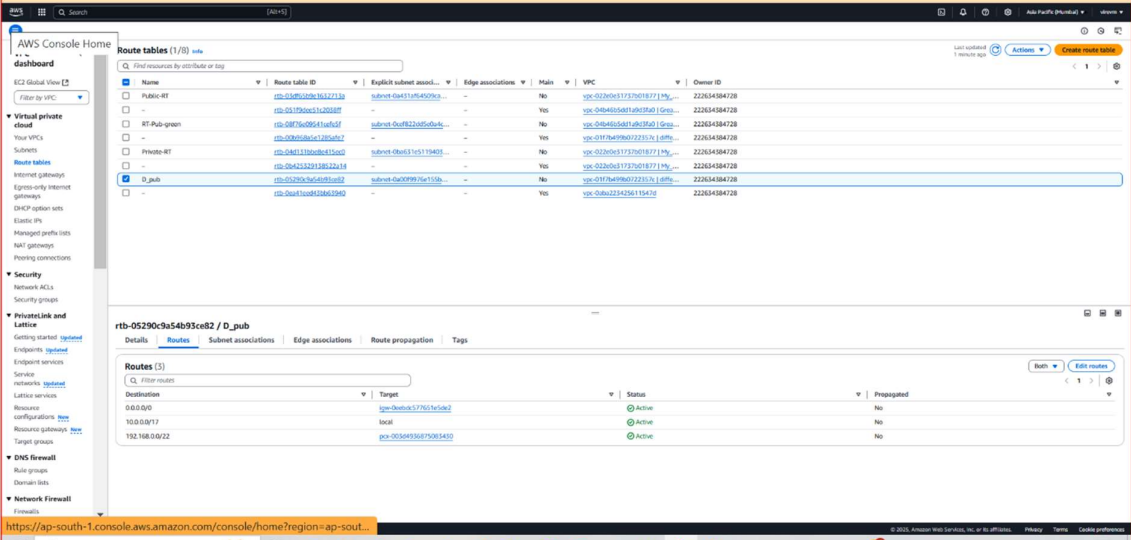
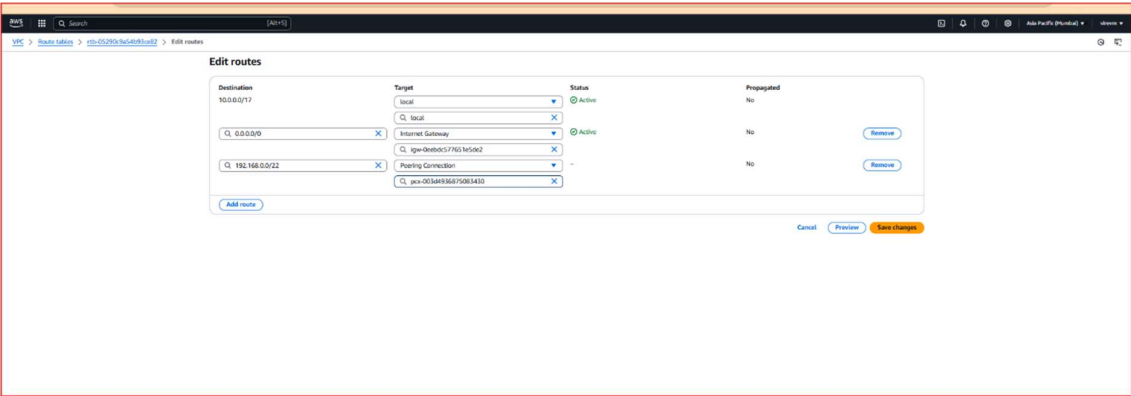
London Route Table:

Edit routes

Destination	Target	Status	Propagated
192.168.0.0/22	local	Active	No
0.0.0.0/0	Internet Gateway	Active	No
10.0.0.0/17	Peering Connection		No
	vpc-05a1412642375a05		

Buttons: Add route, Cancel, Preview, Save changes

Mumbai Route Table:



aws

Search

[Alt+S]

EC2 > Security Groups > sg-0280bf3796a666b99 - launch-wizard-1 > Edit inbound rules

Europe (London) view

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID

sg-09432a54065a18d93

sg-064902ca5e4cc720c

-

Type

HTTP

SSH

All ICMP - IPv4

Protocol

TCP

TCP

ICMP

Port range

80

22

All

Source

Custom

Custom

Anywh...

Description - optional

0.0.0.0/0

0.0.0.0/0

0.0.0.0/0

0.0.0.0/0

Delete

Delete

Delete

Delete

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel

Preview changes

Save rules

aws

Search

[Alt+S]

Asia Pacific (Mumbai) view

```
ec2-user@mumbai ~$ ping 13.40.198.37
PING 13.40.198.37 (13.40.198.37): 56(84) bytes of data:
64 bytes from 13.40.198.37: icmp_seq=1 ttl=114 time=113 ms
64 bytes from 13.40.198.37: icmp_seq=2 ttl=114 time=113 ms
64 bytes from 13.40.198.37: icmp_seq=3 ttl=114 time=113 ms
64 bytes from 13.40.198.37: icmp_seq=4 ttl=114 time=112 ms
64 bytes from 13.40.198.37: icmp_seq=5 ttl=114 time=112 ms
^C
--- 13.40.198.37 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4002ms
rtt min/avg/max/mdev = 112.264/112.670/113.116/0.356 ms
ec2-user@mumbai ~$ ##### Public IP of London connection established #####
```

i-0f6897689a1dc580f (D_pub)

PublicIP: 65.2.80.75 PrivateIP: 10.0.0.33

aws

Search

[Alt+S]

Europe (London) view

```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-33-141 ~]$ sudo hostname london
[ec2-user@ip-172-31-33-141 ~]$ bash
[ec2-user@london ~]$ ping 65.2.80.75
PING 65.2.80.75 (65.2.80.75): 56(84) bytes of data:
64 bytes from 65.2.80.75: icmp_seq=1 ttl=110 time=112 ms
64 bytes from 65.2.80.75: icmp_seq=2 ttl=110 time=113 ms
64 bytes from 65.2.80.75: icmp_seq=3 ttl=110 time=112 ms
64 bytes from 65.2.80.75: icmp_seq=4 ttl=110 time=113 ms
64 bytes from 65.2.80.75: icmp_seq=5 ttl=110 time=113 ms
^C
--- 65.2.80.75 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4007ms
rtt min/avg/max/mdev = 112.169/112.497/112.788/0.208 ms
[ec2-user@london ~]$ ##### Public IP of Mumbai Connection established #####
```

i-096fa460369dd60dc (D_L)

PublicIP: 13.40.198.37 PrivateIP: 172.31.33.141