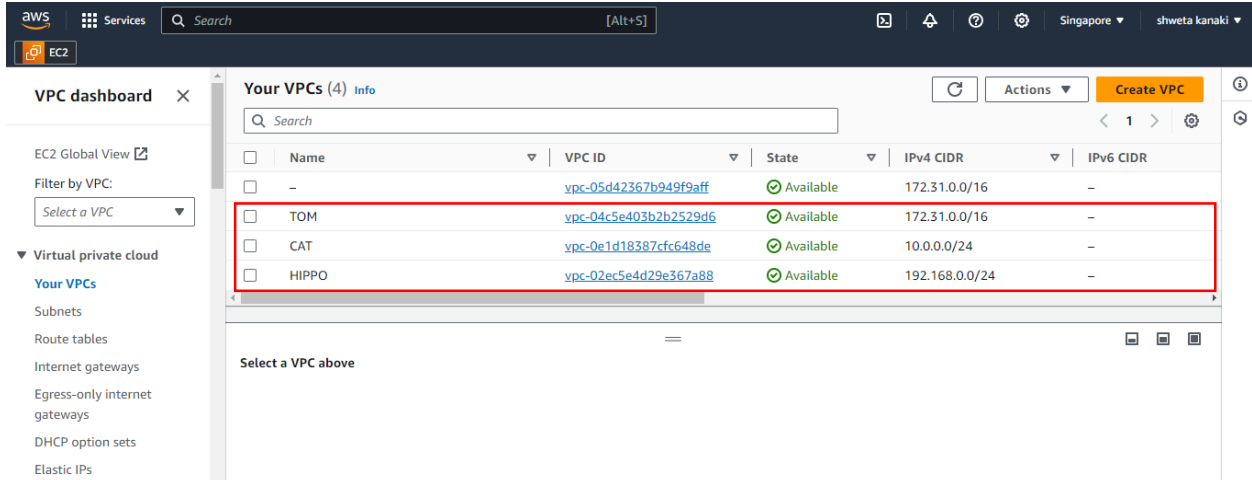


TRANSIT GATEWAY

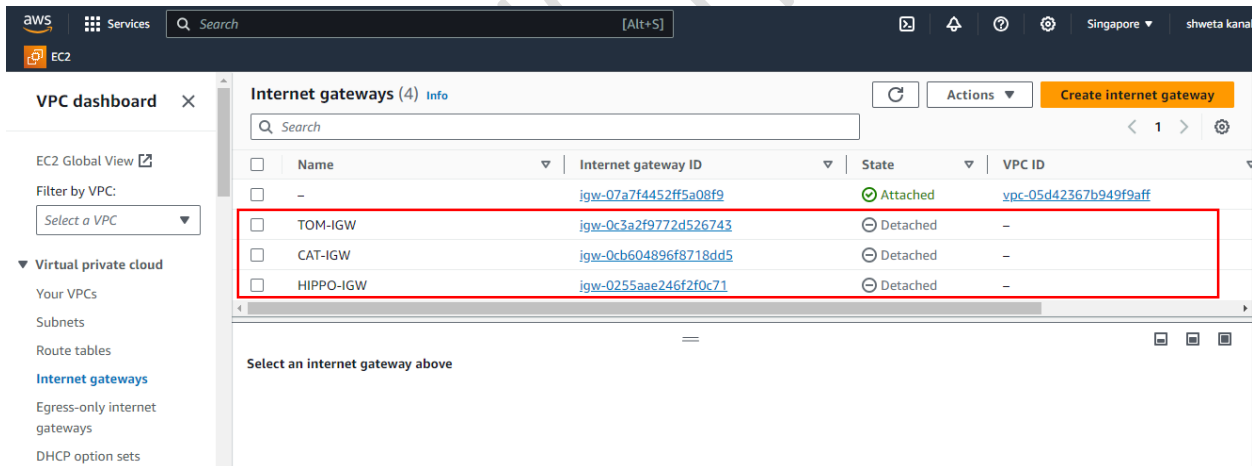
Step 1: Create 3 VPCs



The screenshot shows the AWS Management Console 'Your VPCs' page. A table lists four VPCs, with the last three highlighted by a red box:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-05d42367b949f9aff	Available	172.31.0.0/16	-
TOM	vpc-04c5e403b2b2529d6	Available	172.31.0.0/16	-
CAT	vpc-0e1d18387cfc648de	Available	10.0.0.0/24	-
HIPPO	vpc-02ec5e4d29e367a88	Available	192.168.0.0/24	-

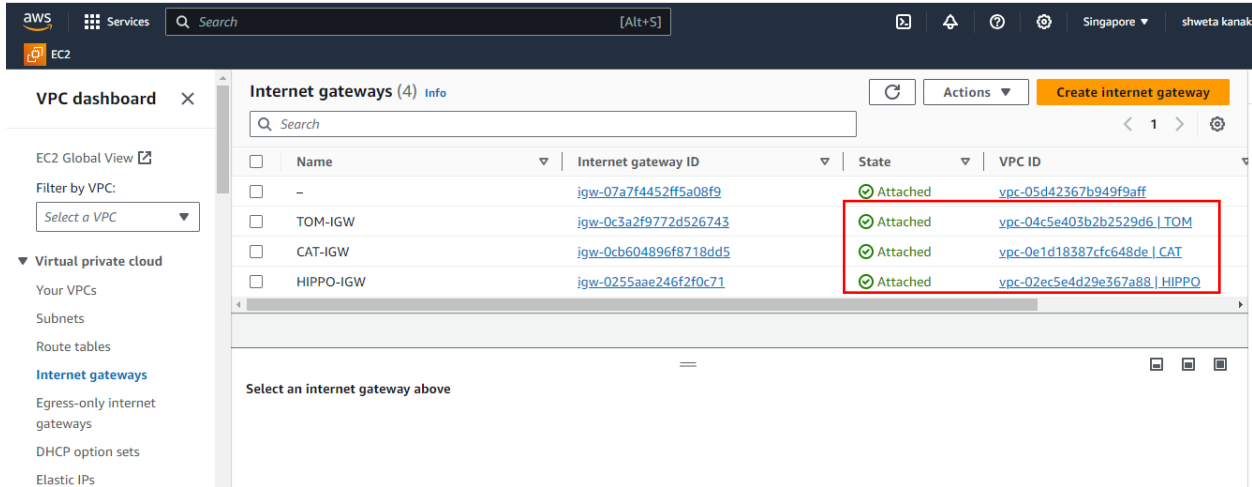
Step 2: Create 3 Internet Gateways



The screenshot shows the AWS Management Console 'Internet gateways' page. A table lists four Internet Gateways, with the last three highlighted by a red box:

Name	Internet gateway ID	State	VPC ID
-	igw-07a7f4452ff5a08f9	Attached	vpc-05d42367b949f9aff
TOM-IGW	igw-0c3a2f9772d526743	Detached	-
CAT-IGW	igw-0cb604896f8718dd5	Detached	-
HIPPO-IGW	igw-0255aae246f2f0c71	Detached	-

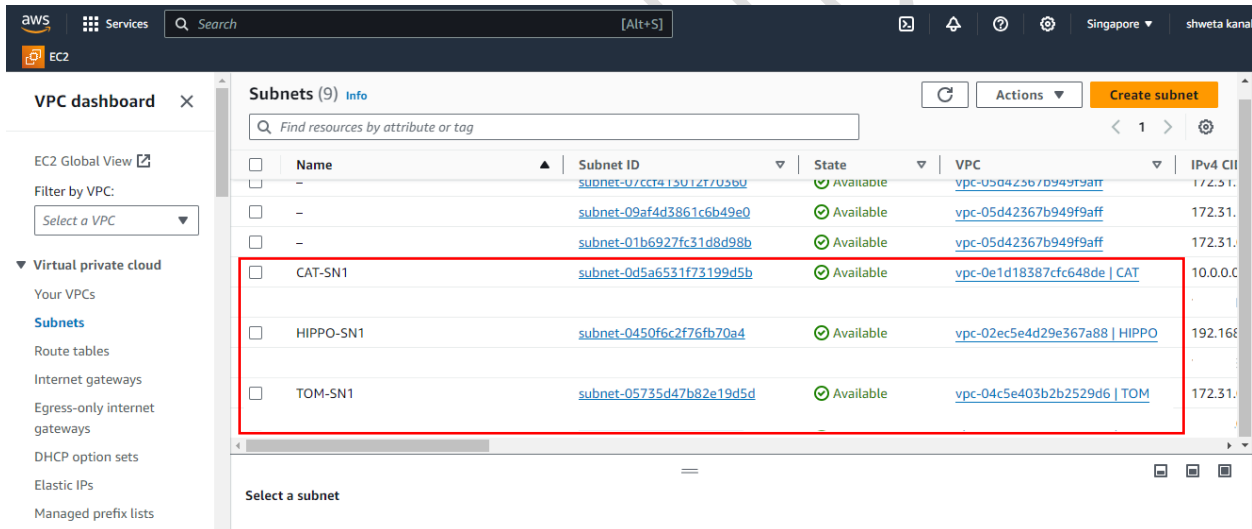
Step 3: Attach created Internet Gateways to the respective VPCs



The screenshot shows the AWS Management Console interface for the 'Internet gateways' section. The left sidebar displays the 'VPC dashboard' with a search bar and a list of services including EC2, VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, and Elastic IPs. The main content area shows a table of Internet gateways with columns for Name, Internet gateway ID, State, and VPC ID. Four gateways are listed: TOM-IGW, CAT-IGW, and HIPPO-IGW, all in an 'Attached' state. A red box highlights the 'Attached' status and the associated VPC IDs for TOM-IGW, CAT-IGW, and HIPPO-IGW.

Name	Internet gateway ID	State	VPC ID
-	igw-07a7f4452ff5a08f9	Attached	vpc-05d42367b949f9aff
TOM-IGW	igw-0c3a2f9772d526743	Attached	vpc-04c5e403b2b2529d6 TOM
CAT-IGW	igw-0cb604896f8718dd5	Attached	vpc-0e1d18387cfc648de CAT
HIPPO-IGW	igw-0255aae246f2f0c71	Attached	vpc-02ec5e4d29e367a88 HIPPO

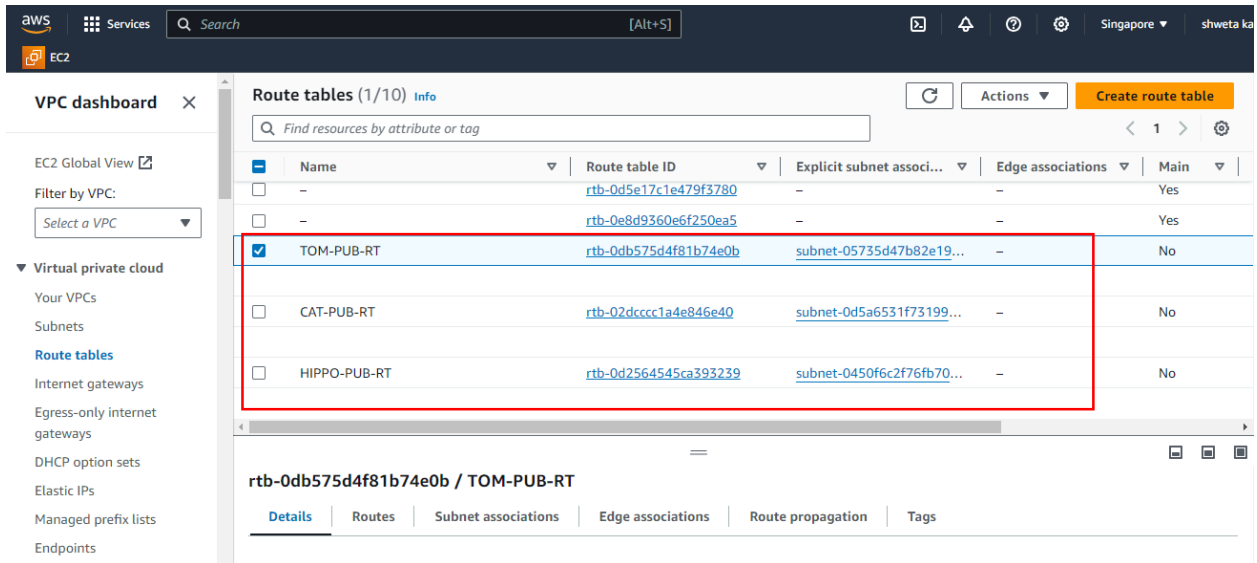
Step 4: Create a subnet in the respective VPCs



The screenshot shows the AWS Management Console interface for the 'Subnets' section. The left sidebar displays the 'VPC dashboard' with a search bar and a list of services including EC2, VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, and Managed prefix lists. The main content area shows a table of Subnets with columns for Name, Subnet ID, State, VPC, and IPv4 CIDR. Four subnets are listed: CAT-SN1, HIPPO-SN1, and TOM-SN1, all in an 'Available' state. A red box highlights the 'Available' status and the associated VPC IDs for CAT-SN1, HIPPO-SN1, and TOM-SN1.

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-07cct4130147103b0	Available	vpc-05d42367b949f9aff	172.31.0.0/24
-	subnet-09af4d3861c6b49e0	Available	vpc-05d42367b949f9aff	172.31.0.0/24
-	subnet-01b6927fc31d8d98b	Available	vpc-05d42367b949f9aff	172.31.0.0/24
CAT-SN1	subnet-0d5a6531f73199d5b	Available	vpc-0e1d18387cfc648de CAT	10.0.0.0/24
HIPPO-SN1	subnet-0450f6c2f76fb70a4	Available	vpc-02ec5e4d29e367a88 HIPPO	192.168.0.0/24
TOM-SN1	subnet-05735d47b82e19d5d	Available	vpc-04c5e403b2b2529d6 TOM	172.31.0.0/24

Step 5: Create route tables in the respective VPCs



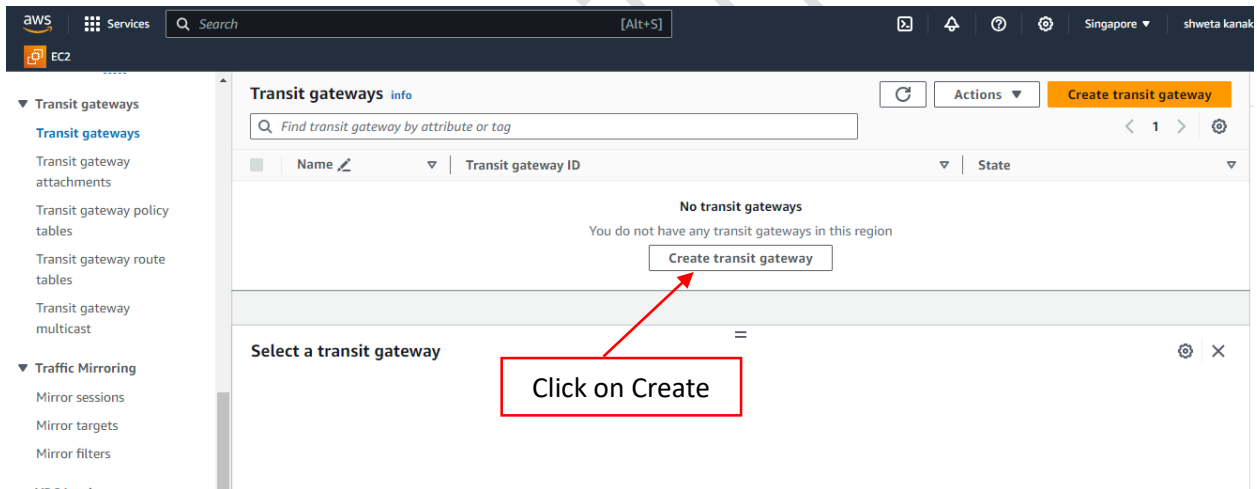
Route tables (1/10)

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
-	rtb-0d5e17c1e479f3780	-	-	Yes
-	rtb-0e8d9360e6f250ea5	-	-	Yes
<input checked="" type="checkbox"/> TOM-PUB-RT	rtb-0db575d4f81b74e0b	subnet-05735d47b82e19...	-	No
<input type="checkbox"/> CAT-PUB-RT	rtb-02dcccc1a4e846e40	subnet-0d5a6531f73199...	-	No
<input type="checkbox"/> HIPPO-PUB-RT	rtb-0d2564545ca393239	subnet-0450f6c2f76fb70...	-	No

rtb-0db575d4f81b74e0b / TOM-PUB-RT

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

Step 6: Create a Transit Gateway



Transit gateways

No transit gateways
You do not have any transit gateways in this region

[Create transit gateway](#)

Select a transit gateway

Click on Create

VPC > Transit gateways > Create transit gateway

Create transit gateway [Info](#)

A transit gateway (TGW) is a network transit hub that interconnects attachments (VPCs and VPNs) within the same AWS account or across AWS accounts.

Give a name to the gateway

Details - optional

Name tag

Creates a tag with the key set to Name and the value set to the specified string.

TGW-SINGAPORE

Description [Info](#)

Set the description of your transit gateway to help you identify it in the future.

description

Configure the transit gateway

Amazon side Autonomous System Number (ASN) [Info](#)

65412

☒ DNS support [Info](#)

☒ VPN ECMP support [Info](#)

☒ Default route table association [Info](#)

☒ Default route table propagation [Info](#)

☐ Multicast support [Info](#)

Specify a ASN number
between 64512 - 65534

Configure cross-account sharing options

☐ Auto accept shared attachments [Info](#)

Amazon side Autonomous System Number(ASN)

The Autonomous System Number (ASN) for the AWS side of a Border Gateway Protocol (BGP) session. You can use the default ASN, or you can specify a private ASN in the 64512-65534 or 4200000000-4294967294 ranges.

[Learn more](#)

[Creating a transit gateway](#)

Transit gateway CIDR blocks

CIDR - optional [Info](#)

10.0.0.0/24

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

TGW-SINGAPORE

Remove

Add new tag

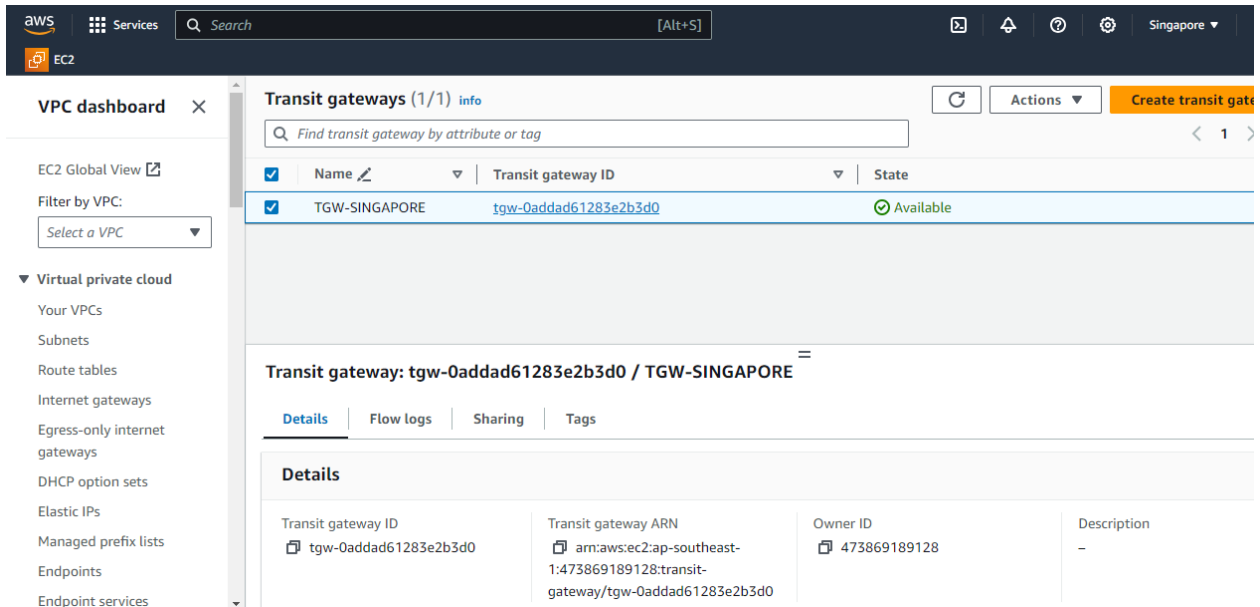
You can add up to 49 more tags.

Click on Create

Cancel

Create transit gateway

Transit Gateway is created



The screenshot shows the AWS Management Console interface. On the left is the 'VPC dashboard' sidebar with a search bar and a list of VPC-related services. The main content area is titled 'Transit gateways (1/1) info'. It features a table with one entry: 'TGW-SINGAPORE' with ID 'tgw-0addad61283e2b3d0' and state 'Available'. Below the table, the 'Details' tab is selected, showing information for 'Transit gateway: tgw-0addad61283e2b3d0 / TGW-SINGAPORE'. The details include the Transit gateway ID, ARN, Owner ID, and Description.

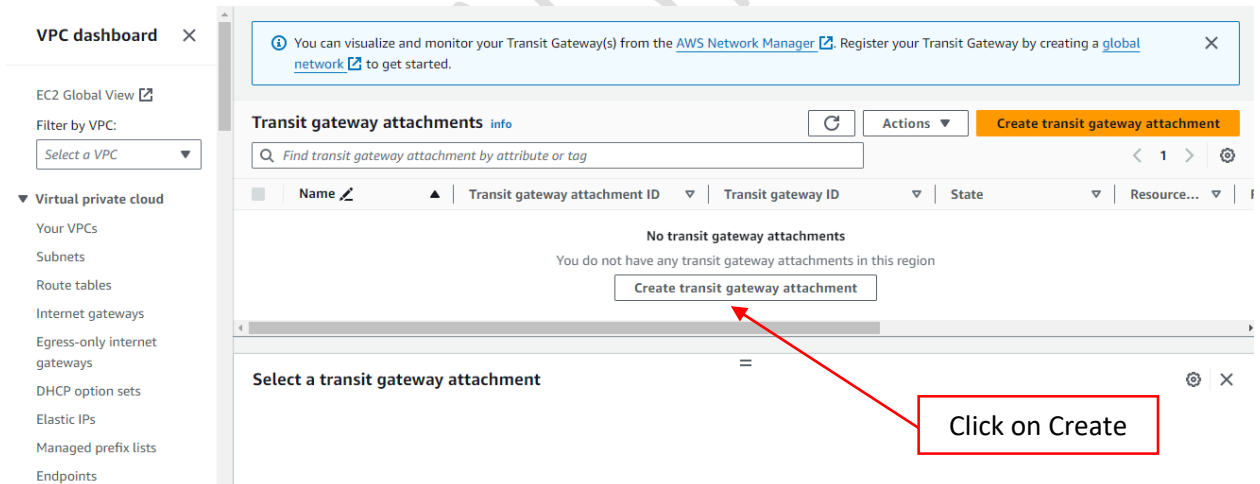
Name	Transit gateway ID	State
TGW-SINGAPORE	tgw-0addad61283e2b3d0	Available

Transit gateway: tgw-0addad61283e2b3d0 / TGW-SINGAPORE

Details

Transit gateway ID	Transit gateway ARN	Owner ID	Description
tgw-0addad61283e2b3d0	arn:aws:ec2:ap-southeast-1:473869189128:transit-gateway/tgw-0addad61283e2b3d0	473869189128	-

Step 7: Create transit gateway attachment



The screenshot shows the 'Transit gateway attachments' page in the AWS Management Console. A message at the top states: 'You can visualize and monitor your Transit Gateway(s) from the AWS Network Manager. Register your Transit Gateway by creating a global network to get started.' The main section is titled 'Transit gateway attachments info' and shows 'No transit gateway attachments'. A button labeled 'Create transit gateway attachment' is visible. A red arrow points to this button, and a red box with the text 'Click on Create' is placed next to it.

Transit gateway attachments info

No transit gateway attachments
You do not have any transit gateway attachments in this region

[Create transit gateway attachment](#)

Select a transit gateway attachment

Click on Create

aws Services Search [Alt+S] Singapore

EC2

VPC > Transit gateway attachments > Create transit gateway attachment

Create transit gateway attachment [Info](#)

A transit gateway (TGW) is a network transit hub that interconnects attachments (VPCs and VPNs) within the same AWS account or across AWS accounts.

Details

Name tag - optional
Creates a tag with the key set to Name and the value set to the specified string.

TOM-TGW

Transit gateway ID [Info](#)
tgw-0addad61283e2b3d0

Attachment type [Info](#)
VPC

VPC attachment
Select and configure your VPC attachment.

Give a name

Select the created transit gateway ID

Select VPC for attachment type

aws Services Search [Alt+S] Singapore

EC2

VPC attachment

Select and configure your VPC attachment.

☒ DNS support [Info](#)

☐ IPv6 support [Info](#)

☐ Appliance Mode support [Info](#)

VPC ID
Select the VPC to attach to the transit gateway.
vpc-04c5e403b2b2529d6

Subnet IDs [Info](#)
Select the subnets in which to create the transit gateway VPC attachment.

☒ ap-southeast-1a subnet-05735d47b82e19d5d

☐ ap-southeast-1b No subnet available

☐ ap-southeast-1c No subnet available

subnet-05735d47b82e19d5d X

Select the created VPC ID

Select the subnet

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 TOM-TGW X Remove

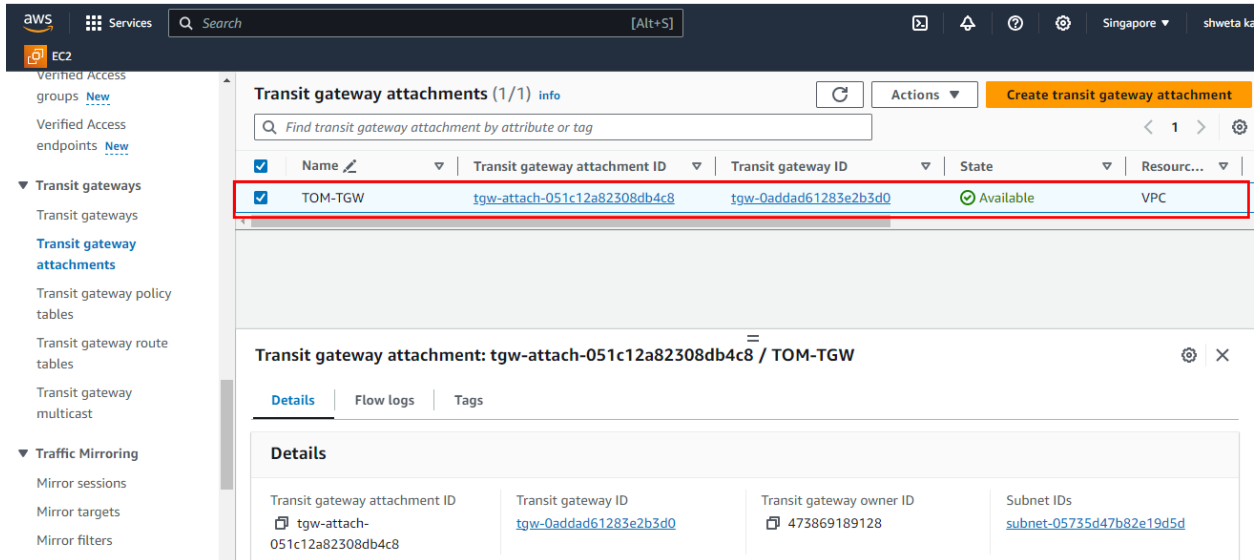
Add new tag

You can add up to 49 more tags.

Cancel Create transit gateway attachment

Click Create

Transit Gateway attachment is done for the TOM VPC



The screenshot shows the AWS Management Console interface. On the left, the navigation pane is open, showing 'Transit gateways' and 'Transit gateway attachments'. The main content area displays 'Transit gateway attachments (1/1)'. A table lists the attachment 'TOM-TGW' with ID 'tgw-attach-051c12a82308db4c8', gateway ID 'tgw-0addad61283e2b3d0', state 'Available', and resource 'VPC'. Below the table, the details for 'Transit gateway attachment: tgw-attach-051c12a82308db4c8 / TOM-TGW' are shown, including the attachment ID, gateway ID, gateway owner ID, and subnet IDs.

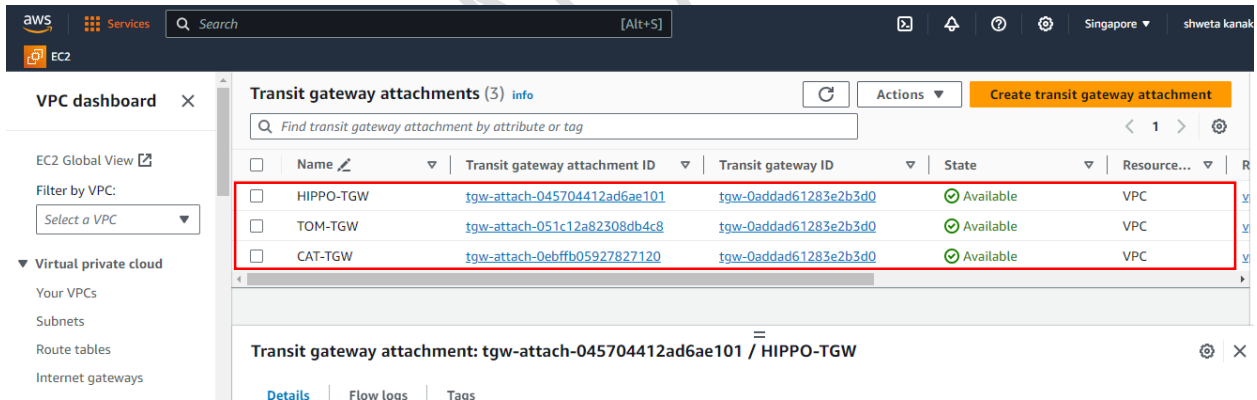
Name	Transit gateway attachment ID	Transit gateway ID	State	Resource...
TOM-TGW	tgw-attach-051c12a82308db4c8	tgw-0addad61283e2b3d0	Available	VPC

Transit gateway attachment: tgw-attach-051c12a82308db4c8 / TOM-TGW

Details

Transit gateway attachment ID tgw-attach-051c12a82308db4c8	Transit gateway ID tgw-0addad61283e2b3d0	Transit gateway owner ID 473869189128	Subnet IDs subnet-05735d47b82e19d5d
---	---	--	--

Similarly create transit gateway attachments for other two VPCs



The screenshot shows the AWS Management Console interface. On the left, the navigation pane is open, showing 'VPC dashboard' and 'Virtual private cloud'. The main content area displays 'Transit gateway attachments (3)'. A table lists three attachments: 'HIPPO-TGW', 'TOM-TGW', and 'CAT-TGW', all with state 'Available' and resource 'VPC'. Below the table, the details for 'Transit gateway attachment: tgw-attach-045704412ad6ae101 / HIPPO-TGW' are shown, including the attachment ID, gateway ID, gateway owner ID, and subnet IDs.

Name	Transit gateway attachment ID	Transit gateway ID	State	Resource...
HIPPO-TGW	tgw-attach-045704412ad6ae101	tgw-0addad61283e2b3d0	Available	VPC
TOM-TGW	tgw-attach-051c12a82308db4c8	tgw-0addad61283e2b3d0	Available	VPC
CAT-TGW	tgw-attach-0ebffb05927827120	tgw-0addad61283e2b3d0	Available	VPC

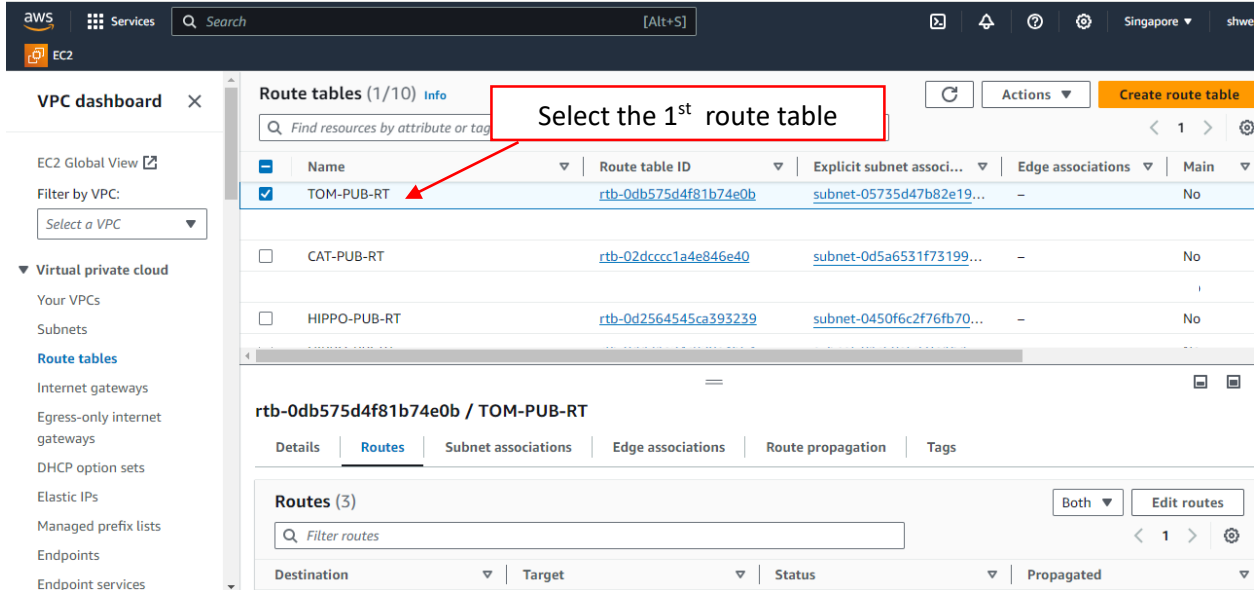
Transit gateway attachment: tgw-attach-045704412ad6ae101 / HIPPO-TGW

Details

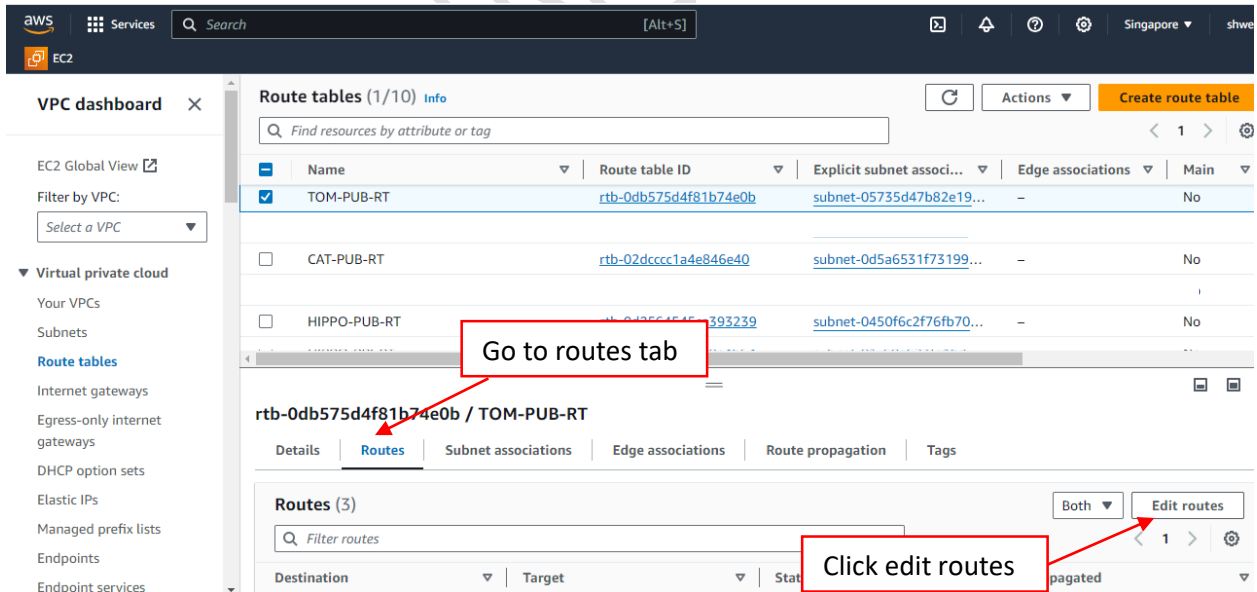
Transit gateway attachment ID tgw-attach-045704412ad6ae101	Transit gateway ID tgw-0addad61283e2b3d0	Transit gateway owner ID 473869189128	Subnet IDs subnet-05735d47b82e19d5d
---	---	--	--

Step 8 : Add routes to the Route table

Now go to the Route Table



The screenshot shows the AWS VPC console. On the left, the 'VPC dashboard' sidebar is visible. The main area displays 'Route tables (1/10)'. A table lists several route tables, with 'TOM-PUB-RT' selected. A red box highlights the 'TOM-PUB-RT' row with the text 'Select the 1st route table'. Below the table, the details for 'rtb-0db575d4f81b74e0b / TOM-PUB-RT' are shown, including tabs for 'Details', 'Routes', 'Subnet associations', 'Edge associations', 'Route propagation', and 'Tags'. The 'Routes' tab is currently active, showing 'Routes (3)'.



This screenshot shows the 'Routes' tab for the selected route table 'rtb-0db575d4f81b74e0b / TOM-PUB-RT'. A red box highlights the 'Routes' tab with the text 'Go to routes tab'. Another red box highlights the 'Edit routes' button with the text 'Click edit routes'. The 'Routes' section shows a table with columns: Destination, Target, Status, and Propagated. The table is currently empty, and the 'Filter routes' input is visible.

aws Services Search [Alt+S] Singapore shweta k

VPC > Route tables > rtb-0db575d4f81b74e0b > Edit routes

Edit routes

Add the VPC CIDR range of other two VPC

Destination	Target	Status	Propagated	
172.31.0.0/16	local	Active	No	
192.168.0.0/28	local	Active	No	Remove
10.0.0.0/24	Transit Gateway	Active	No	Remove
0.0.0.0/0	Internet Gateway	Active	No	Remove

Add route

Cancel Preview Save changes

aws Services Search [Alt+S] Singapore shweta k

VPC > Route tables > rtb-0db575d4f81b74e0b > Edit routes

Edit routes

Select the target as Transit Gateway

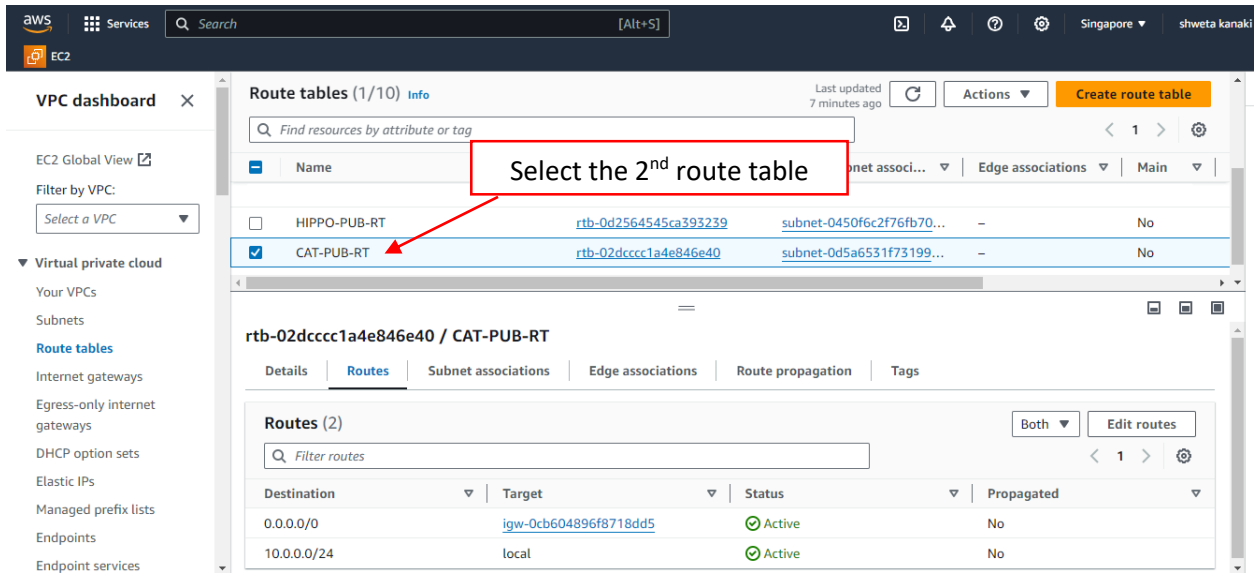
Click Save

Destination	Target	Status	Propagated	
172.31.0.0/16	local	Active	No	
192.168.0.0/28	Transit Gateway	Active	No	Remove
10.0.0.0/24	Transit Gateway	Active	No	Remove
0.0.0.0/0	Internet Gateway	Active	No	Remove

Add route

Cancel Preview Save changes

Similarly add routes to other two route tables



Route tables (1/10) Info

Last updated 7 minutes ago

Find resources by attribute or tag

Name	Route table ID	Subnet	Associations	Edge associations	Main
HIPPO-PUB-RT	rtb-0d2564545ca393239	subnet-0450f6c2f76fb70...	-	-	No
CAT-PUB-RT	rtb-02dcccc1a4e846e40	subnet-0d5a6531f73199...	-	-	No

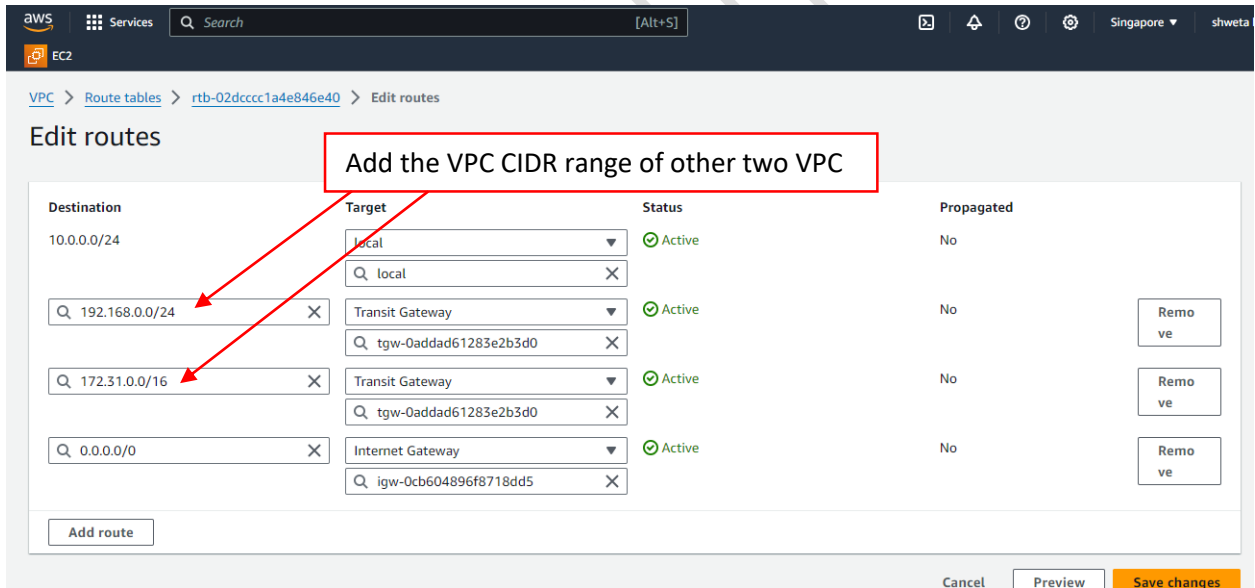
rtb-02dcccc1a4e846e40 / CAT-PUB-RT

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

Routes (2)

Filter routes

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0cb604896f8718dd5	Active	No
10.0.0.0/24	local	Active	No



VPC > Route tables > rtb-02dcccc1a4e846e40 > Edit routes

Edit routes

Add the VPC CIDR range of other two VPC

Destination	Target	Status	Propagated	
10.0.0.0/24	local	Active	No	
192.168.0.0/24	Transit Gateway	Active	No	Remove
172.31.0.0/16	Transit Gateway	Active	No	Remove
0.0.0.0/0	Internet Gateway	Active	No	Remove

Add route

Cancel Preview **Save changes**

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EC2

VPC > Route tables > rtb-02dccc1a4e846e40 > Edit routes

Edit routes

Destination	Target	Status	Propagated	
10.0.0.0/24	local	Active	No	
192.168.0.0/24	Transit Gateway	Active	No	Remove
172.31.0.0/16	Transit Gateway	Active	No	Remove
0.0.0.0/0	Internet Gateway	Active	No	Remove

Add route

Cancel Preview **Save changes**

Select the target as Transit Gateway

Click Save

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EC2

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
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services

Route tables (1/10) Info

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input checked="" type="checkbox"/> HIPPO-PUB-RT	rtb-0d2564545ca393239	subnet-0450f6c2f76fb70...	-	No
<input type="checkbox"/> CAT-PUB-RT	rtb-02dccc1a4e846e40	subnet-0d5a6531f73199...	-	No
<input type="checkbox"/> TOM-PUB-RT	rtb-0db575d4f81b74e0b	subnet-05735d47b82e19...	-	No

Select the 3rd route table

rtb-0d2564545ca393239 / HIPPO-PUB-RT

Details Routes Subnet associations Edge associations Route propagation Tags

Details

Route table ID rtb-0d2564545ca393239	Main No	Explicit subnet associations subnet-0450f6c2f76fb70a4 / HIPPO-SN1	Edge associations -
VPC vpc-02ec5e4d29e367a88 HIPPO	Owner ID 473869189128		

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EC2

VPC > Route tables > rtb-0d2564545ca393239 > Edit routes

Edit routes

Add the VPC CIDR range of other two VPC

Destination	Target	Status	Propagated	
192.168.0.0/24	local	Active	No	
10.0.0.0/24	Transit Gateway	Active	No	Remove
172.31.0.0/16	Transit Gateway	Active	No	Remove
0.0.0.0/0	Internet Gateway	Active	No	Remove

Add route

Cancel Preview **Save changes**

aws Services Search [Alt+S] Singapore shweta kar

EC2

VPC > Route tables > rtb-0d2564545ca393239 > Edit routes

Edit routes

Select the target as Transit Gateway

Click Save

Destination	Target	Status	Propagated	
192.168.0.0/24	local	Active	No	
10.0.0.0/24	Transit Gateway	Active	No	Remove
172.31.0.0/16	Transit Gateway	Active	No	Remove
0.0.0.0/0	Internet Gateway	Active	No	Remove

Add route

Cancel Preview **Save changes**

Step 5: Test the Configuration

Try to ping from one instance (TOM VPC) to another instance in (HIPPO VPC)