

Multi-Region Transit Routing from AWS to OCI

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Executive Summary

This whitepaper presents a scalable, high-performance solution for establishing multi-region transit routing between AWS and OCI using Transit Gateway (TGW) and Dynamic Routing Gateway (DRG). The architecture enables secure and optimized connectivity across multiple AWS and OCI regions via IPSec VPN. The solution is designed to facilitate seamless communication across AWS VPCs and OCI VCNs using a single transit region in both clouds, with the capability to extend into additional regions as needed.

Important Note : The setup documented in this Whitepaper can also be used to create a Transit Routing network topology for DB@AWS. The only requirement is to ensure the ODB Network Peering route is added to the Route tables for the VPC and then extended to connect to other VPCs in one or more regions using Transit Gateway and Transit Gateway peering on AWS.

Introduction

Organizations increasingly operate in multi-cloud environments to leverage the unique capabilities of various cloud providers. This solution integrates AWS Transit Gateway (TGW) and OCI Dynamic Routing Gateway (DRG) to create a highly available, secure, and scalable transit routing framework, facilitating cross-region and cross-cloud connectivity.

Key Objectives:

- Establish a multi-region transit architecture between AWS and OCI.
- Utilize AWS Transit Gateway and OCI DRG to enable secure connectivity.
- Ensure seamless routing and high availability across multiple cloud regions.
- Implement a scalable, extendable mesh network architecture.

Architecture Overview

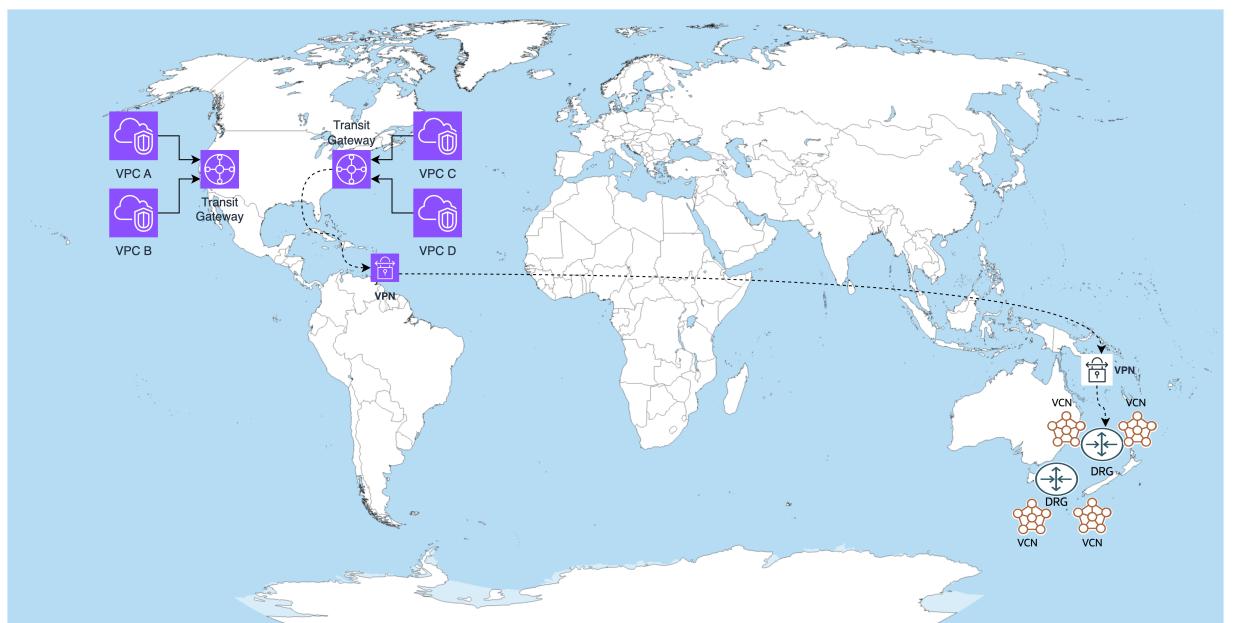
The architecture consists of the following key components:

AWS Components:

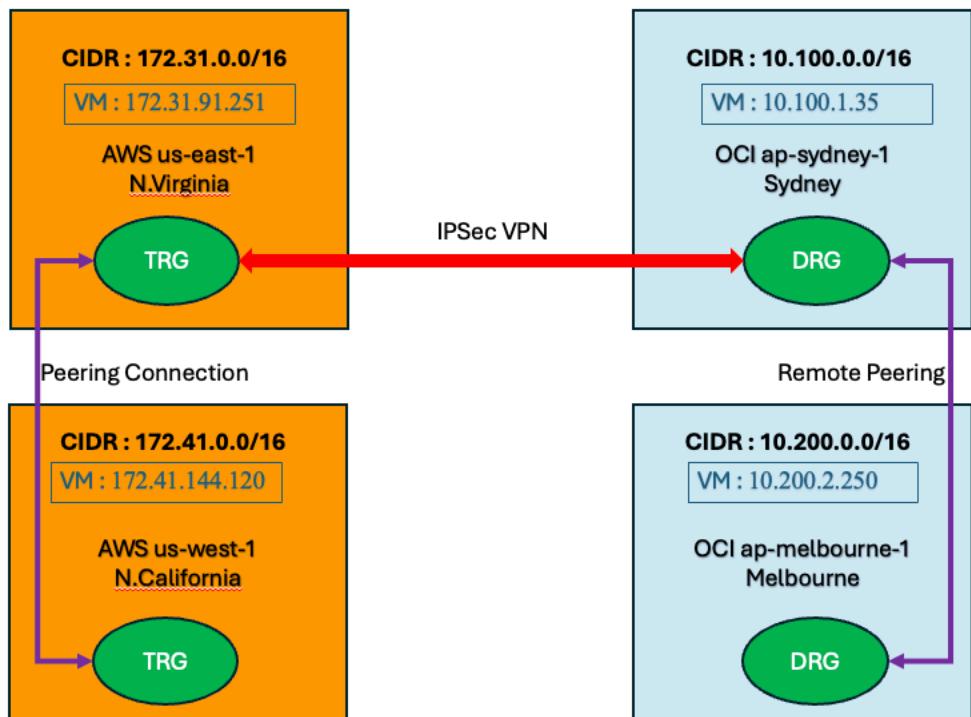
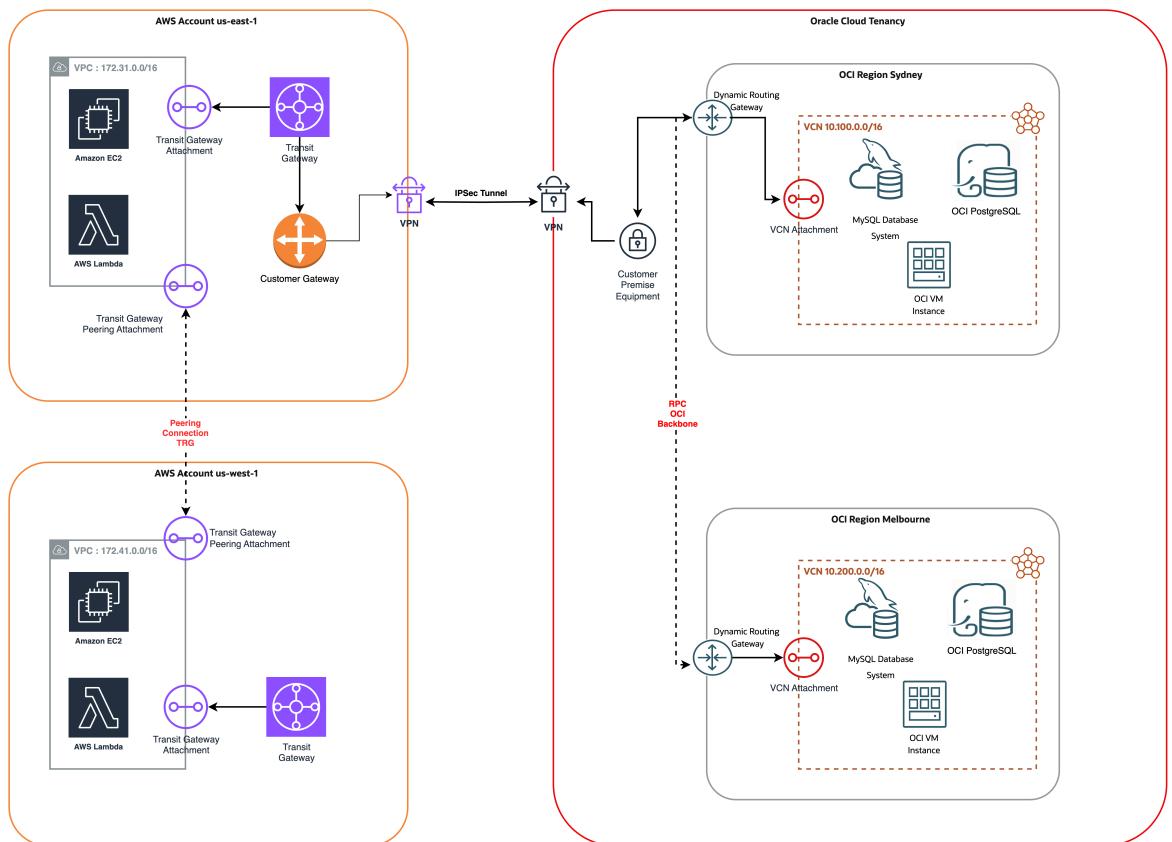
- **AWS Transit Gateway (TGW):** Centralized hub for routing between AWS VPCs and OCI.
- **AWS Customer Gateway:** Used to establish an IPSec VPN connection.
- **AWS Site-to-Site VPN:** Provides secure communication with OCI.
- **AWS VPC Route Tables:** Configured to facilitate cross-region connectivity.

OCI Components:

- **Dynamic Routing Gateway (DRG):** Acts as a central routing hub for OCI VCNs.
- **Customer Premises Equipment (CPE):** Represents AWS as a remote VPN peer.
- **OCI Site-to-Site VPN:** Enables connectivity between OCI and AWS.
- **Remote Peering Connection (RPC):** Extends connectivity across multiple OCI regions.



Architecture



Site-to-Site VPN OCI ap-sydney-1 BGP Routes received:

BGP routes received

IP route prefix	Route age	Is best path	AS path length	AS path
172.31.0.0/16	29337 Seconds	No	2	65515... <a>Show all (2)
172.41.0.0/16	8306 Seconds	No	2	65515... <a>Show all (2)

Showing 2 items < Page 1 >

Site-to-Site VPN OCI ap-sydney-1 BGP Routes advertised:

BGP routes advertised

IP route prefix	Route age	Is best path	AS path length	AS path
10.100.1.0/24	899721 Seconds	No	0	-
10.100.2.0/24	899721 Seconds	No	0	-
10.200.1.0/24	807321 Seconds	No	0	-
10.200.2.0/24	807321 Seconds	No	0	-

Showing 4 items < Page 1 >

AWS Route Tables for Transit Routing Gateway us-east-1 :

Routes (6) info					
Actions Create static route					
<input type="text"/> Find route by attribute or tag					
	CIDR	Attachment ID	Resource ID	Resource type	Route type
<input type="checkbox"/>	10.100.1.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
<input type="checkbox"/>	10.100.2.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
<input type="checkbox"/>	10.200.1.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
<input type="checkbox"/>	10.200.2.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
<input type="checkbox"/>	172.31.0.0/16	tgw-attach-0ea473f30c8380a66	vpc-0b6de2f65f971840b	VPC	Propagated
<input type="checkbox"/>	172.41.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-08c5eb41bf661444e	Peering	Static

AWS Route Tables for Transit Routing Gateway us-west-1 :

Routes (4) info					
Actions Create static route					
<input type="text"/> Find route by attribute or tag					
	CIDR	Attachment ID	Resource ID	Resource type	Route type
<input type="checkbox"/>	10.100.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-09fcad83501f16313	Peering	Static
<input type="checkbox"/>	10.200.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-09fcad83501f16313	Peering	Static
<input type="checkbox"/>	172.31.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-09fcad83501f16313	Peering	Static
<input type="checkbox"/>	172.41.0.0/16	tgw-attach-0064f0317ded73e16	vpc-00d41f2f634572ff	VPC	Propagated

Sydney DRG:

Route rules for Autogenerated Drg Route Table for VCN attachments

Last checked: Mon, Mar 24, 2025, 13:39:26 UTC

Download route rules Refresh table Search by CIDR block				
Type	Destination CIDR block	Next hop attachment type	Next hop attachment name	Route status
DYNAMIC	10.100.1.0/24	Virtual Cloud Network	drgattachment20250313061949	● Active
DYNAMIC	10.100.2.0/24	Virtual Cloud Network	drgattachment20250313061949	● Active
DYNAMIC	10.200.1.0/24	Remote Peering Connection	DRG Attachment for RPC: SYD-RPC-CONNECTION	● Active
DYNAMIC	10.200.2.0/24	Remote Peering Connection	DRG Attachment for RPC: SYD-RPC-CONNECTION	● Active
DYNAMIC	172.31.0.0/16	IPSec Tunnel	DRG Attachment for IPSec Tunnel: ipsectunnel20250314034733-1	● Active
DYNAMIC	172.41.0.0/16	IPSec Tunnel	DRG Attachment for IPSec Tunnel: ipsectunnel20250314034733-1	● Active

Route distribution statements

Import route distribution statements describe the advertisement of routes to attachments from their assigned route table, [Learn more](#).

Add route distribution statements Edit Remove				
<input type="checkbox"/>	Priority	Match type	Match criteria	Action
<input type="checkbox"/>	1	Attachment type	Virtual Cloud Network	ACCEPT ⋮
<input type="checkbox"/>	10	Attachment	DRG Attachment for IPSec Tunnel: ipsectunnel20250314034733-1	ACCEPT ⋮
<input type="checkbox"/>	20	Attachment	DRG Attachment for RPC: SYD-RPC-CONNECTION	ACCEPT ⋮

Melbourne DRG:

Route rules for Autogenerated Drg Route Table for VCN attachments

Last checked: Mon, Mar 24, 2025, 13:43:42 UTC

Download route rules Refresh table Search by CIDR block				
Type	Destination CIDR block	Next hop attachment type	Next hop attachment name	Route status
DYNAMIC	10.100.1.0/24	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	● Active
DYNAMIC	10.100.2.0/24	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	● Active
DYNAMIC	10.200.1.0/24	Virtual Cloud Network	drgattachment20250315044021	● Active
DYNAMIC	10.200.2.0/24	Virtual Cloud Network	drgattachment20250315044021	● Active
DYNAMIC	172.31.0.0/16	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	● Active
DYNAMIC	172.41.0.0/16	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	● Active

High-Level Implementation Steps

1. Configure AWS Transit Gateway

1. Create AWS Transit Gateway

- Navigate to AWS Console > VPC > Transit Gateway > Create Transit Gateway.
- Attach AWS VPCs to TGW.

2. Create AWS Customer Gateway

- Use a temporary mock IP initially.
- Assign Oracle's BGP ASN (31898 for most regions).

3. Establish AWS Site-to-Site VPN

- Navigate to AWS Console > VPC > Virtual Private Network > Site-to-Site VPN > Create VPN Connection.
- Configure Tunnel 1 only.
- Download the VPN configuration.

4. Modify AWS Route Tables

- Add OCI VCN CIDR (e.g., 10.100.0.0/16) to AWS VPC Subnet Route Table.

2. Configure OCI Dynamic Routing Gateway

1. Create and Attach DRG to OCI VCN

- Attach the AWS VPC CIDR (172.31.0.0/16) to the DRG.

2. Create Customer Premises Equipment (CPE) in OCI

- Use AWS VPN Tunnel 1 Public IP.

3. Create Site-to-Site VPN in OCI

- Match AWS VPN settings and shared secret key.
- Configure ISAKMP settings for Tunnel 1.

3. Establish Cross-Region Peering in OCI

1. Create OCI VCN in Secondary Region (e.g., Melbourne)

2. Deploy a DRG in Melbourne and Attach VCN

3. Create Remote Peering Connection (RPC) Between Regions

- Establish an RPC in Sydney DRG and Melbourne DRG.
- Exchange OCIDs and verify connectivity.

4. Extend AWS Transit Gateway Across Regions

1. Deploy Another AWS Transit Gateway in a Different Region (e.g., us-west-1)

2. Create Peering Connection Between AWS TGWs

- Accept the peering request in the target region.
- Update route tables for cross-region connectivity.

5. Verify Connectivity

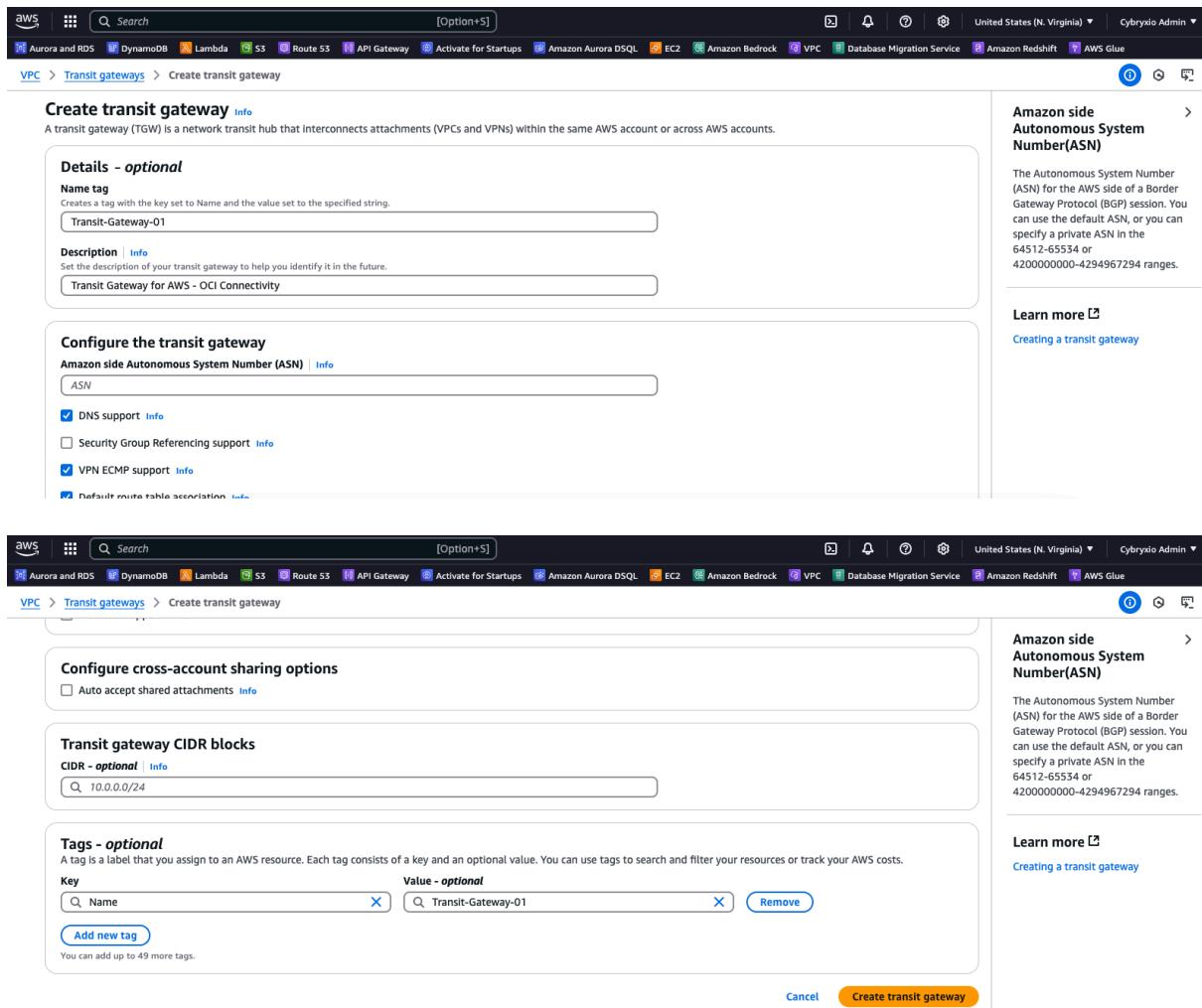
- Ensure AWS VPC Route Tables include OCI VCN routes.
- Check BGP Route Propagation in OCI.

Implementation Steps

1. Create AWS Transit Gateway and Attach to VPC

Go to AWS Console

VPC > Transit Gateway > 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.

Details - optional

Name tag
Creates a tag with the key set to Name and the value set to the specified string.
Transit-Gateway-01

Description Info
Set the description of your transit gateway to help you identify it in the future.
Transit Gateway for AWS - OCI Connectivity

Configure the transit gateway

Amazon side Autonomous System Number (ASN) Info
ASN

DNS support Info

Security Group Referencing support Info

VPN ECMP support Info

Default route table association Info

Configure cross-account sharing options

Auto accept shared attachments Info

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 X Value - optional X Remove

Add new tag

You can add up to 49 more tags.

Cancel **Create transit gateway**

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

aws Search [Option+S] United States (N. Virginia) Cybryx Admin

Virtual private gateways Site-to-Site VPN connections Client VPN endpoints

AWS Verified Access
Verified Access instances Verified Access trust providers Verified Access groups Verified Access endpoints

Transit gateways
Transit gateways Transit gateway attachments Transit gateway policy tables Transit gateway route tables Transit gateway multicast

Traffic Mirroring
Mirror sessions Mirror targets

Attach Your existing AWS VPC to the Transit Gateway

aws Search [Option+S] United States (N. Virginia) Cybryx Admin

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.
transit-gateway-attachment-01

Transit gateway ID Info
tgw-09fcad83501f16313

Attachment type Info
VPC

VPC attachment
Select and configure your VPC attachment.

DNS support Info

Security Group Referencing support Info

IPv6 support Info

aws Search [Option+S] United States (N. Virginia) Cybryx Admin

VPC > [Transit gateway attachments](#) > Create transit gateway attachment

VPC ID
Select the VPC to attach to the transit gateway.
vpc-0b6de2f65f971840b

Subnet IDs Info
Select the subnets in which to create the transit gateway VPC attachment.

us-east-1a subnet-0e870da404fb31ebe

us-east-1b subnet-04607c1b7e3d78ff6

us-east-1c subnet-03adc46dcc608fd82

us-east-1d subnet-03d2752670df2f612

us-east-1e subnet-08c256c1828816718

us-east-1f subnet-043f23a07c3fc0d099

[subnet-0e870da404fb31ebe](#) [subnet-04607c1b7e3d78ff6](#) [subnet-03adc46dcc608fd82](#)

[subnet-03d2752670df2f612](#) [subnet-08c256c1828816718](#) [subnet-043f23a07c3fc0d099](#)

Tags - optional

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: transit-gateway-attachment-01

Add new tag

You can add up to 49 more tags.

Cancel Create transit gateway attachment

Verified Access endpoints

Transit gateways

- Transit gateway attachments
- Transit gateway policy tables
- Transit gateway route tables
- Transit gateway multicast

Traffic Mirroring

- Mirror sessions
- Mirror targets
- Mirror filters

Network Manager

Cloud WAN

VPC IP Address Manager

AWS Firewall Manager

Transit gateway attachments (1) [info](#)

Actions [Create transit gateway attachment](#)

Name	Transit gateway attachment ID	Transit gateway ID	State	Resource type	Resource ID
transit-gateway-atta...	tgw-attach-bea473f50c8380a66	tgw-09fcad83501f16313	Available	VPC	vpc-0b6de2f65f971840b

Select a transit gateway attachment

2. Create AWS Customer Gateway

Create a temporary AWS customer gateway with a mock ip 1.1.1.1, this will eventually be replaced with a permanent CustomerGateway once we know the Public IP of OCI VPN Tunnel

BGP ASN: Enter the OCI BGP ASN. Oracle's BGP ASN for the commercial cloud is 31898, except the Serbia Central (Jovanovac) region which is 14544.

Create customer gateway Info

A customer gateway is a resource that you create in AWS that represents the customer gateway device in your on-premises network.

Details

Name tag - optional

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

customer-gateway-for-oci

Value must be 256 characters or less in length.

BGP ASN Info

The ASN of your customer gateway device.

31898

Value must be in 1 - 4294967294 range.

IP address Info

Specify the IP address for your customer gateway device's external interface.

1.1.1.1

Certificate ARN - optional

The ARN of a private certificate provisioned in AWS Certificate Manager (ACM).

Select certificate ARN

Device - optional

Enter a name for the customer gateway device.

Customer gateways (2) Info



Create customer gateway

VPC dashboard

EC2 Global View

Filter by 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

NAT gateways

Peering connections

Security

3. Create Site-to-Site VPN from AWS Console

AWS Console > VPC > Virtual Private Network > Site-to-Site VPN > Create VPN Connection

Create VPN connection Info

Select the resources and additional configuration options that you want to use for the site-to-site VPN connection.

Details

Name tag - optional

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

VPN-TO-OCI-VIA-TGW

Value must be 256 characters or less in length.

Target gateway type Info

- Virtual private gateway
- Transit gateway
- Not associated

Transit gateway

tgw-09fcad83501f16313

Customer gateway Info

- Existing
- New

Customer gateway ID

cgw-0553d5768e5ee26fe

Tunnel 1 options - optional Info

Customize tunnel inside CIDR and pre-shared keys for your VPN tunnels. Unspecified tunnel options will be randomly generated by Amazon.

Inside IPv4 CIDR for tunnel 1

169.254.40.0/30

A size /30 IPv4 CIDR block from the 169.254.0.0/16 range.

Pre-shared key for tunnel 1

The pre-shared key (PSK) to establish initial authentication between the virtual private gateway and customer gateway.

Generated by Amazon

The pre-shared key must have 8-64 characters. Valid characters: A-Z, a-z, 0-9, _, and . The key cannot begin with a zero.

Advanced options for tunnel 1

Use default options Edit tunnel 1 options

Phase 1 encryption algorithms

The permitted encryption algorithms for the VPN tunnel for phase 1 IKE negotiations.

Select encryption algorithms

AES256 X

Phase 2 encryption algorithms

The permitted encryption algorithms for the VPN tunnel for phase 2 IKE negotiations.

Select encryption algorithms

Use the Options in the Screenshot and remove the other ones as per below

Phase 2 encryption algorithms

The permitted encryption algorithms for the VPN tunnel for phase 2 IKE negotiations.

Select encryption algorithms

AES256 X

Phase 1 integrity algorithms

The permitted integrity algorithms for the VPN tunnel for phase 1 IKE negotiations.

Select integrity algorithms

SHA2-256 X

Phase 2 integrity algorithms

The permitted integrity algorithms for the VPN tunnel for phase 2 IKE negotiations.

Select integrity algorithms

SHA2-256 X

Phase 1 DH group numbers

The permitted Diffie-Hellman group numbers for the VPN tunnel for phase 1 IKE negotiations.

Select DH group numbers

14 X

Phase 2 DH group numbers

The permitted Diffie-Hellman group numbers for the VPN tunnel for phase 2 IKE negotiations.

Select DH group numbers

Phase 2 DH group numbers

The permitted Diffie-Hellman group numbers for the VPN tunnel for phase 2 IKE negotiations.

Select DH group numbers

14 X

IKE Version

The internet key exchange (IKE) version permitted for the VPN tunnel.

Select IKE Version

ikev2 X

Phase 1 lifetime (seconds)

The lifetime for phase 1 of the IKE negotiation, in seconds.

28,800

Supported values between: 900 and 28,800.

Phase 2 lifetime (seconds)

The lifetime for phase 2 of the IKE negotiation, in seconds.

3,600

Supported values between: 900 and 3,600, has to be less than phase 1 lifetime.

Rekey margin time (seconds)

The period of time before phase 1 and 2 lifetimes expire, during which AWS initiates an IKE rekey.

270

Supported values between: 60 and half of phase 2 lifetime.

aws Search [Option+S] United States (N. Virginia) Cybrixio Admin

VPC > VPN connections > Create VPN connection

Rekey margin time (seconds)
The period of time before phase 1 and 2 lifetimes expire, during which AWS initiates an IKE rekey.
270
Supported values between: 60 and half of phase 2 lifetime.

Rekey fuzz (percentage)
The percentage of the rekey window during which the rekey time is randomly selected.
100
Supported values between: 0 and 100.

Replay window size (packets)
The number of packets in an IKE replay window.
1024
Supported values between: 64 and 2048.

DPD timeout (seconds)
The number of seconds after which a DPD timeout occurs.
30
Supported values must be 30 or higher.

DPD timeout action [Info](#)
 Clear
 Restart
 None

[Startup action](#) [Info](#)

Leave out Tunnel 2, as we will be only doing this for one tunnel

aws Search [Option+S] United States (N. Virginia) Cybrixio Admin

VPC > VPN connections > Create VPN connection

Enable

Tunnel maintenance

Tunnel endpoint lifecycle control [Info](#)
Tunnel endpoint lifecycle control provides control over the schedule of endpoint replacements.
 Turn on

Tunnel 2 options – optional [Info](#)
Customize tunnel inside CIDR and pre-shared keys for your VPN tunnels. Unspecified tunnel options will be randomly generated by Amazon.

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. Name tag helps you track your resources more easily. We recommend adding Name tag.

Key Value - optional [Remove](#)

[Add new tag](#)
You can add up to 49 more tags.

[Cancel](#) [Create VPN connection](#)

Once the VPN connection is completed, download the profile, by selecting the VPN connection and clicking Download configuration

aws Search [Option+S] United States (N. Virginia) Cybrixio Admin

VPC dashboard <

EC2 Global View [Filter by 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
- NAT gateways
- Peering connections

Security

VPN connections (1/2) [Info](#)

Find resource by attribute or tag

Name	VPN ID	State	Virtual private gateway	Transit gateway	Customer gateway
VPN-TO-OCI-VIA-TGW	vpn-0b732e51d8e13201c	Available	–	tgw-09fcad83501f16313	cgw-0353d3768e3ee26fe

VPN connection vpn-0b732e51d8e13201c / VPN-TO-OCI-VIA-TGW

Details Tunnel details Tags

Details	State Available	Virtual private gateway –	Customer gateway cgw-0353d3768e3ee26fe
VPN ID vpn-0b732e51d8e13201c	Customer gateway address 1.1.1.1	Type Ipsec.1	Category VPN
Transit gateway tgw-09fcad83501f16313	Routing	Acceleration enabled	Authentication
VPC			

Download Configuration

You can now check the Tunnel 1 IP. This is the IP we will use in our connectivity with OCI

4. Add your OCI VCN Routes to the Subnet in your AWS VPC
 OCI VCN CIDR is : 10.100.0.0/16

Add 10.100.0.0/16 to AWS VPC Subnet's **Route Table**

Screenshot of the AWS VPC dashboard showing the Route tables section. A single route table is listed:

Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC
-	rtb-0041609d91503c97b	-	-	-	Yes vpc-0b6de2f65f971840b

Screenshot of the 'Edit routes' page for the route table 'rtb-0041609d91503c97b'. The table shows five routes:

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
10.230.0.0/16	Virtual Private Gateway	Active	No
0.0.0.0/0	Internet Gateway	Active	No
10.100.0.0/16	Transit Gateway	-	No

Buttons at the bottom: 'Add route', 'Cancel', 'Preview', 'Save changes'.

Screenshot of the 'Details' page for the route table 'rtb-0041609d91503c97b'. The table shows the following details:

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0041609d91503c97b	Yes	-	-
VPC	vpc-0b6de2f65f971840b	Owner ID 241526791455	

Below the details, there is a 'Routes' section with four entries:

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0f9fc5ac8461e59ca	Active	No
10.100.0.0/16	tgw-09fcad83501f16313	Active	No
10.230.0.0/16	vgw-0ce14a175ddc623c0	Active	No
172.31.0.0/16	local	Active	No

5. Add a DRG on OCI and Attach your VCN to it

Cloud Search resources, services, documentation, and Marketplace Australia East (Sydney) ☰ ⓘ ⓘ ⓘ ⓘ ⓘ

Networking > Customer connectivity > Dynamic routing gateways

Customer connectivity

- Overview
- Site-to-Site VPN
- FastConnect
- Dynamic routing gateway**
- Customer-premises equipment

Dynamic routing gateways

Dynamic routing gateways (DRGs) are optional virtual routers that you can add to your VCN. They provide a path for private network traffic between your VCN and on-premises network.

Create dynamic routing gateway

Name	Lifecycle state	Oracle redundancy status ⓘ	Created
Shadab-DRG	Available	—	Thu, Mar 13, 2025, 06:18:37 UTC

Showing 1 item < 1 of 1 >

List scope

Compartment shadabshaukat (root) ☰

Tag filters [add](#) [clear](#)

no tag filters applied

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Networking > Customer connectivity > Dynamic routing gateways > Shadab-DRG

Shadab-DRG

Attachment name [Optional](#)

Virtual cloud network in shadabshaukat (root) [\(Change compartment\)](#)

Shadabshaukat-VCN

Dynamic routing gateway information

Compartment: shadabshaukat (root) Oracle redundancy status: —

VCN attachments in shadabshaukat (root) Compartment

VCNs are connected to a DRG by an attachment. You can configure all VCNs to use the same route table. [Learn more](#).

Create virtual cloud network attachment

Attachment name	Lifecycle state
Shadab-DRG-VCN	Attached

Create VCN attachment [Cancel](#)

Cloud Search resources, services, documentation, and Marketplace Australia East (Sydney) ☰ ⓘ ⓘ ⓘ ⓘ ⓘ

Networking > Customer connectivity > Dynamic routing gateways > Shadab-DRG

Shadab-DRG

Edit Add tags Move resource [Terminate](#)

Dynamic routing gateway information Tags

Compartment: shadabshaukat (root) OCID: ...nkp2bppqoa [Show](#) [Copy](#)

Oracle redundancy status: — Created: Thu, Mar 13, 2025, 06:18:37 UTC

VCN attachments in shadabshaukat (root) Compartment

VCNs are connected to a DRG by an attachment with the VCN type. You can configure all VCNs to use the same route table. [Learn more](#).

Create virtual cloud network attachment

Attachment name	Lifecycle state	Virtual cloud network	DRG route table	VCN route type	Created
drgattachment20250313061949	Attached	Shadabshaukat-VCN	Autogenerated Drg Route Table for VCN attachments	Subnet CIDR blocks	Thu, Mar 13, 2025, 06:19:49 UTC

6. Add your AWS VPC CIDR to Route tables on OCI

AWS VPC CIDR is 172.31.0.0/16

Your VPCs (1/1) [Info](#)

Name	VPC ID	State	Block Public Access	IPv4 CIDR	IPv6 CIDR
vpc-0b6de2f65f971840b	vpc-0b6de2f65f971840b	Available	Off	172.31.0.0/16	-

vpc-0b6de2f65f971840b

[Details](#) [Resource map](#) [CIDRs](#) [Flow logs](#) [Tags](#) [Integrations](#)

Details

VPC ID vpc-0b6de2f65f971840b	State Available	Block Public Access Off	DNS hostnames Enabled
---------------------------------	--------------------	----------------------------	--------------------------

Add Route Table Rule on OCI VCN Subnet

Cloud [Search resources, services, documentation, and Marketplace](#) Australia East (Sydney)

Add Route Rules

Important: For a route rule that targets a Private IP, you must first enable "Skip Source/Destination Check" on the VNIC that the Private IP is assigned to.

Route Rule

Target Type: Dynamic Routing Gateway

Destination Type: CIDR Block

Destination CIDR Block: 172.31.0.0/16

Target Dynamic Routing Gateway in **shadabshaukat (root)** ([Change compartment](#))

Shadab-DRG

[Add Route Rules](#) [Cancel](#)

7. Create Customer Premise Equipment on OCI

Cloud [Search resources, services, documentation, and Marketplace](#) Australia East (Sydney)

Networking > Customer connectivity > Customer-premises equipment

Customer connectivity

Customer-premises equipment in shadabshaukat (root) Compartment

Configure your on-premises device (the customer-premises equipment, or CPE) at your end of the Site-to-Site VPN so traffic can flow between your on-premises network and virtual cloud network (VCN).

Name	IP address	Created
shadabshaukat (root)		No items found.

[Create CPE](#)

[List scope](#)

Compartment: shadabshaukat (root)

Tag filters: [add](#) [clear](#)

Showing 0 items < 1 of 1 >

Use the Public IP address of your Tunnel 1 which we provisioned earlier 3.212.99.133

Cloud Search resources, services, documentation, and Marketplace Australia East (Sydney) Help

Create CPE

Name: CPE-AWS-TGW

Create in compartment: shadabshaukat (root)

Allow IPsec over FastConnect

Public IP address: 3.212.99.133

CPE vendor information

Vendor: Other

Add tags to organize your resources. [What can I do with tagging?](#)

Create CPE **Save as stack** **Cancel**

8. Create Site-to-Site VPN on OCI

Cloud Search resources, services, documentation, and Marketplace Australia East (Sydney) Help

Networking > Customer connectivity > Site-to-Site VPN

Customer connectivity

Site-to-Site VPN in shadabshaukat (root) Compartment

Site-to-Site VPN securely connects your on-premises corporate network to Oracle Cloud Infrastructure, using your existing internet connection. If your users have client devices that need offsite access to Oracle Cloud resources, you can also create an OpenVPN access server. See their [marketplace solution](#).

Create IPsec connection **Start VPN wizard**

Name	Lifecycle state	Customer-premises equipment	Dynamic routing gateway	Created
No items found.				

Showing 0 items < 1 of 1 >

Overview

Site-to-Site VPN

FastConnect

Dynamic routing gateway

Customer-premises equipment

List scope

Compartment: shadabshaukat (root)

Filters

Dynamic routing gateway in shadabshaukat (root)

Cloud Search resources, services, documentation, and Marketplace Australia East (Sydney) Help

Networking > Customer connectivity > Site-to-Site VPN

Customer connectivity

Site-to-Site VPN in shadabshaukat (root) Compartment

Site-to-Site VPN securely connects your on-premises corporate network to Oracle Cloud Infrastructure, using your existing internet connection. If your users have client devices that need offsite access to Oracle Cloud resources, you can also create an OpenVPN access server. See their [marketplace solution](#).

Create IPsec connection **Start VPN wizard**

Name	Lifecycle state
Name: VPN-TO-AWS-TGW	
Create in compartment: shadabshaukat (root)	
Customer-premises equipment in shadabshaukat (root) (Change compartment)	
CPE-AWS-TGW (3.212.99.133)	
<input type="checkbox"/> This CPE is behind a NAT device	
Dynamic routing gateway compartment in shadabshaukat (root) (Change compartment)	
Shadab-DRG	

(i) This will create an attachment to the DRG for each IPsec tunnel. The attachment has the type IPSEC_TUNNEL, and uses the default route table for that attachment type.

To use static routing instead of BGP dynamic routing, provide at least one static route (an IPv4 CIDR block and optionally an IPv6 prefix). Otherwise, see the tunnel-specific options below to configure BGP or policy-based routing. You can also enter a unique local address (ULA) in place of an IPv6 prefix.

Create IPsec connection **Cancel**

AWS BGP ASN is 64512.

Show advanced option

Go-to 'Phase one (ISAKMP) configuration'

Do the same for Tunnel 2 - Phase one and two (ISAKMP) configuration.

Important Note: We're only going to configure this for Tunnel 1 on AWS to Tunnel 2 on OCI. For redundancy you need to create a second Site to Site VPN on AWS and map to Tunnel 2 on OCI.

Networking > Customer connectivity > Site-to-Site VPN

Create IPSec connection

Customer connectivity

Site-to-Site VPN

Site-to-Site VPN in shadabshaukat (root)

Phase one (ISAKMP) configuration

Internet security association and key management protocol (ISAKMP) is a protocol for establishing security associations and cryptographic keys. [Learn more](#)

Set custom configurations

Custom encryption algorithm [\(i\)](#)
AES_256_CBC

Custom authentication algorithm [\(i\)](#)
SHA2_256

Custom Diffie-Hellman group [\(i\)](#)
GROUP14

IKE session key lifetime in seconds
28800

Create IPSec connection Cancel

Networking > Customer connectivity > Site-to-Site VPN

Create IPSec connection

Customer connectivity

Site-to-Site VPN

Site-to-Site VPN in shadabshaukat (root)

Phase two (IPSec) configuration

Internet protocol security (IPSec) authenticates and encrypts data packets to provide secure encrypted communication. [Learn more](#)

Set custom configurations

Custom encryption algorithm [\(i\)](#)
AES_256_CBC

Custom authentication algorithm [\(i\)](#)
HMAC_SHA2_256_128

IPSec session key lifetime in seconds
3600

Enable perfect forward secrecy

Perfect forward secrecy Diffie-Hellman group [\(i\)](#)
GROUP14

Create IPSec connection Cancel

Go to Tunnel 1 and copy the Shared Secret

Networking > Customer connectivity > Site-to-Site VPN > VPN-TO-AWS-TGW

VPN-TO-AWS-TGW

Available

IPSec connection information CPE & tunnels information Tags

Static route CIDR block: [\(i\)](#)
Created: Fri, Mar 14, 2025, 03:47:33 UTC
Site-to-Site VPN version: v2 [\(i\)](#)

OCID: ...2y46pa [Show](#) [Copy](#)
DRG: [Shadab-DRG](#)
CPE: [CPE-AWS-TGW](#)

Tunnels in shadabshaukat (root) Compartment

Name	Lifecycle state (i)	IPSec status (i)	Oracle VPN IP address	IPv4 BGP status (i)	IPv6 BGP status (i)	Routing type
ipsectunnel20250314034733-2	Available	Down	152.67.117.68	Down	Down	BGP dynamic routing
ipsectunnel20250314034733-1	Available	Down	152.67.119.165	Down	Down	BGP dynamic routing

Showing 2 items

ipsectunnel20250314034733-1

AVAILABLE

Edit Open CPE configuration helper

Tunnel information Phase details

IPSec status: Down ⓘ

IPv4 BGP status: Down ⓘ

IPv6 BGP status: Down ⓘ

IKE version: IKEv2

Created: Fri, Mar 14, 2025, 03:47:33 UTC

OCID: ...qommaq Show Copy

Routing type: BGP dynamic routing

Oracle BGP ASN: 31898

Customer BGP ASN: 64512

IPv4 inside tunnel interface - CPE: 169.254.40.1/30 ⓘ

IPv6 inside tunnel interface - Oracle: 169.254.40.2/30 ⓘ

IPv6 inside tunnel interface - CPE: - ⓘ

IPv6 inside tunnel interface - Oracle: - ⓘ

Shared secret: ***** Show Edit

Oracle can initiate: INITIATOR_OR_RESPONDER

NAT-T enabled: AUTO

Dead peer detection mode: INITIATE_AND_RESPOND

DPD timeout in seconds: 20

Networking > Customer connectivity > Site-to-Site VPN > VPN-TO-AWS-TGW > ipsectunnel20250314034733-1

View shared secret Help

Tunnel down

Error: IKE SA not established; IPsec SA not established

Tunnel down since: Fri, Mar 14, 2025, 04:25:26 UTC

Issue/Action: The DRG has not received any IKE packets from the CPE. Please check the CPE configuration.

View documentation

ipsectunnel20250314034733-1

AVAILABLE

Edit Open CPE configuration helper

Tunnel information Phase details

IPSec status: Down ⓘ

IPv4 BGP status: Down ⓘ

IPv6 BGP status: Down ⓘ

Oracle BGP ASN: 31

Customer BGP ASN

IPv4 inside tunnel in

IPv4 inside tunnel in

Shared secret Read-only

ZEQ8onuquzcDmLPkdpBNcghBg58k9hxpQhaNPH3cX3qYS3axPdI3j

Close Cancel

9. Go back to AWS Console and Create new Customer Gateway with Public IP of OCI Tunnel 1 152.67.119.165 and Oracle ASN 31898

aws Search [Option+S]

Aura and RDS DynamoDB Lambda S3 Route 53 API Gateway Activate for Startups Amazon Aurora DSQL EC2 Amazon Bedrock VPC Database Migration Service Amazon Redshift AWS Glue

United States (N. Virginia) Cybrixio Admin

VPC > Customer gateways > Create customer gateway

Create customer gateway Info

A customer gateway is a resource that you create in AWS that represents the customer gateway device in your on-premises network.

Details

Name tag - optional
Creates a tag with a key of "Name" and a value that you specify.

Value must be 256 characters or less in length.

BGP ASN Info
The ASN of your customer gateway device.

Value must be in 1 - 4294967294 range.

IP address Info
Specify the IP address for your customer gateway device's external interface.

Certificate ARN - optional
The ARN of a private certificate provisioned in AWS Certificate Manager (ACM).

Device - optional
Enter a name for the customer gateway device.

Create Customer Gateway

Modify the VPN connection and add the new customer gateway

aws Search [Option+S]

Aurora and RDS DynmoDB Lambda S3 Route 53 API Gateway Activate for Startups Amazon Aurora DSQL EC2 Amazon Bedrock VPC Database Migration Service Amazon Redshift AWS Glue

VPC > VPN connections > vpn-0b732e51d8e13201c

Rule groups Domain lists

▼ Network Firewall

- Firewalls
- Firewall policies
- Network Firewall rule groups
- TLS inspection configurations
- Network Firewall resource groups

▼ Virtual private network (VPN)

- Customer gateways
- Virtual private gateways
- Site-to-Site VPN connections
- Client VPN endpoints

▼ AWS Verified Access

- Verified Access instances
- Verified Access trust

vpn-0b732e51d8e13201c / VPN-TO-OCI-VIA-TGW Info

[Download configuration](#) [Actions ▾](#)

Details

VPN ID	<input type="checkbox"/> vpn-0b732e51d8e13201c	State	<input checked="" type="radio"/> Available	Virtual private gateway	-
Transit gateway	<input type="checkbox"/> tgw-09fcad83501f61513	Customer gateway address	<input type="checkbox"/> 152.67.117.68	Type	<input type="checkbox"/> ipsec.1
VPC	-	Routing	Dynamic	Acceleration enabled	<input type="checkbox"/> False
Local IPv4 network CIDR	<input type="checkbox"/> 0.0.0.0/0	Remote IPv4 network CIDR	<input type="checkbox"/> 0.0.0.0/0	Local IPv6 network CIDR	-
Core network ARN	-	Core network attachment ARN	-	Gateway association state	<input type="checkbox"/> associated

Tunnel details [Tags](#)

Tunnel state

Tunnel number	Outside IP address	Inside IPv4 CIDR	Inside IPv6 CIDR	Status	Last status change	Details	Certificate ARN
Tunnel 1	7.232.99.177	169.254.10.0/24	-	Down	March 14, 2025, 16:37:52 (UTC-11:00)	IPSEC IS DOWN	-

Customer cgw-0e44a
Category VPN
Authentic Pre-share
Remote IP -
Outside IP address type PublicIpv4

Modify VPN connection
Modify VPN tunnel certificate
Modify VPN connection options
Modify VPN tunnel options
Replace VPN tunnel
Manage tags
Delete VPN connection

AWS Search [Option+S] United States (N. Virginia) ▾ Cybryxio Admin ▾

Aurora and RDS DynamoDB Lambda S3 Route 53 API Gateway Activate for Startups Amazon Aurora DSQL EC2 Amazon Bedrock VPC Database Migration Service Amazon Redshift AWS Glue

[VPC](#) > [VPN connections](#) > [vpn-0b732e51d8e13201c](#) > Modify VPN connection

Modify VPN connection Info

Select a target type and the resource you would like to use.

Details

VPN connection ID
 vpn-0b732e51d8e13201c

Current transit gateway
 tgw-09fcad83501f16313

Current customer gateway
 cgw-0e4e1d847b9e5266d

Change target

Target type

Target customer gateway

[Cancel](#) [Save changes](#)

Save changes.

Make sure to delete the previous temporary customer gateway one after successfully adding new one.

The screenshot shows the AWS Cloud9 interface with the 'Customer gateways' list. A modal dialog is open for the gateway 'customer-gateway-for-oci' with the ID 'cgw-0353d3768e3ee26fe'. The dialog asks for confirmation to delete the gateway, stating: 'This customer gateway will be deleted permanently and cannot be recovered later. To confirm deletion, enter delete below.' A text input field contains 'delete'. At the bottom right of the modal are 'Cancel' and 'Delete' buttons. The main list shows other gateways like 'customer-gateway-from-aws-oci' and 'CustomerGateway'.

10. Modify VPN Tunnel Options and Select Tunnel 1; Add the OCI VPN Tunnel 1 secret key and save changes

The screenshot shows the AWS VPC console with the 'VPN connections' list. A specific connection named 'vpn-0b732e51d8e13201c' is selected. The 'Details' tab is open, showing information such as 'VPN ID: vpn-0b732e51d8e13201c', 'State: Available', 'Type: ipsec.1', and 'Customer gateway address: 152.67.117.68'. On the right, a context menu is open with options like 'Edit static routes', 'Modify VPN connection', 'Modify VPN tunnel certificate', 'Modify VPN connection options', 'Modify VPN tunnel options', 'Replace VPN tunnel', 'Manage tags', and 'Delete VPN connection'. The 'Category' dropdown is set to 'VPN'.

The screenshot shows the 'Modify VPN tunnel options' dialog for Tunnel 1. It includes fields for 'VPN connection ID: vpn-0b732e51d8e13201c', 'VPN tunnel outside IP address: 3.212.99.133', 'Inside IPv4 CIDR: 169.254.40.0/30', 'Pre-shared key: ZEQ8onuquzcDmLPkdoBNcghBg58k9hxnpQhaNPH3cX3qYS3axPdI3pofHaUNgRx', and 'Phase 1 encryption algorithms: AES256'. The 'Details' tab is selected.

Wait for the 'modifying' to complete and VPN connection to be 'available' on AWS.

Now check the Tunnel Status on OCI and AWS. If everything was setup correctly, the Tunnel 1 on AWS will be connected to IPSEC VPN connection Tunnel on OCI.

Networking > Customer connectivity > Site-to-Site VPN > VPN-TO-AWS-TGW

VPN-TO-AWS-TGW

Available

IPSec connection information

OCID: ...2y46pa Show Copy
DRG: Shadab-DRG
CPE: CPE-AWS-TGW

Tunnels in shadabshaukat (root) Compartment

Name	Lifecycle state	IPSec status	Oracle VPN IP address	IPv4 BGP status	IPv6 BGP status	Routing type
ipsectunnel20250314034733-2	Available	Down	152.67.117.68	Down	Down	BGP dynamic routing
ipsectunnel20250314034733-1	Available	Down	152.67.119.165	Up	Down	BGP dynamic routing

Showing 2 items

aws Search [Option+S]

VPC > VPN connections > vpn-0b732e51d8e13201c

VPC dashboard

EC2 Global View Filter by 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 NAT gateways Peering connections Security

Transit gateway
tgw-09fcad83501f16313

Customer gateway address
152.67.119.165

Type
ipsec.1

Acceleration enabled
False

Category
VPN

VPC
-

Routing
Dynamic

Local IPv4 network CIDR
0.0.0.0/0

Remote IPv4 network CIDR
0.0.0.0/0

Local IPv6 network CIDR
-

Core network ARN
-

Core network attachment ARN
-

Gateway association state
associated

Category
VPN

Authentication
Pre-shared key

Remote IPv6 network CIDR
-

Outside IP address type
PublicIpv4

Tunnel details

Tunnel number	Outside IP address	Inside IPv4 CIDR	Inside IPv6 CIDR	Status	Last status change	Details	Certificate ARN
Tunnel 1	3.212.99.133	169.254.40.0/30	-	Up	March 14, 2025, 15:45:36 (UTC+11:00)	2 BGP ROUTES	-
Tunnel 2	52.44.106.23	169.254.173.52/30	-	Down	March 14, 2025, 15:43:18 (UTC+11:00)	IPSEC IS DOWN	-

Tunnel 1 options

Tunnel 2 options

11. Now we will Create the Cross-Region RPC from OCI Region Sydney to Melbourne

Create OCI VCN in Melbourne with CIDR 10.200.0.0/16

Cloud Search resources, services, documentation, and Marketplace

Australia Southeast (Melbourne)

Networking

Virtual cloud networks

Virtual Cloud Networks (VCNs) are private virtual networks you set up in Oracle Cloud Infrastructure. You can attach gateways, route tables, and security lists to specify routing and security rules.

Create VCN Start VCN Wizard

Name	State	IPv4 CIDR Block	IPv6 Prefix	Default Route Table	DNS Domain Name	Created
No items found.						

Showing 0 items < 1 of 1 >

List scope
shadabshaukat (root)

Tag filters add | clear
no tag filters applied

Filters

Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) Help

Networking

Virtual Cloud Net

Virtual Cloud Networks (VCNs) are rules.

To view service log metrics and ad

Create VCN **Start VCN Wizard**

Name **State**

Connection Type

Create VCN with Internet Connectivity

Creates a VCN with a public subnet that can be reached from the internet. Also creates a private subnet that can connect to the internet through a NAT gateway, and also privately connect to the Oracle Services Network.

Includes: VCN, public subnet, private subnet, internet gateway (IG), NAT gateway (NAT), service gateway (SG).

Add Internet Connectivity and Site-to-Site VPN to a VCN

Adds a Site-to-Site VPN between your on-premises network and a VCN you select. If the VCN has a public subnet an Internet Gateway is also added.

Includes: VCN, public subnet, private subnet, dynamic routing gateway (DRG), virtual customer-premises equipment (CPE), Site-to-Site VPN, internet gateway (IG).

Start VCN Wizard **Cancel**

Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) Help

Create a VCN with internet connectivity

1 Configuration **2 Review and create**

Resource availability checked successfully. **Close**

Basic information

VCN name **VCN-MELB**

Compartment **shadabshaukat (root)**

Configure VCN

VCN IPv4 CIDR block **10.200.0.0/16**

If you plan to peer this VCN with another VCN, the VCNs must not have overlapping CIDR blocks. [Learn more](#).

IPv6 prefixes **Optional**

Enable IPv6 in this VCN

DNS resolution **Use DNS resolution from VCN**

VCN WITH INTERNET CONNECTIVITY

Includes:

- Virtual cloud network (VCN)
- Public subnet
- Private subnet
- Internet gateway (IG)
- NAT gateway (NAT)
- Service gateway (SG)

Next **Cancel**

Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) Help

Create a VCN with internet connectivity

1 Configuration **2 Review and create**

Required for instance hostname assignment if you plan to use VCN DNS or a third-party DNS. This choice cannot be changed after the VCN is created. [Learn more](#).

Configure public subnet

IP address type **IPv4 CIDR block** IPv4 CIDR block **10.200.1.0/24**

Example: 172.16.0.0/16.

(Maximum number of items added) **+ Another IP address type**

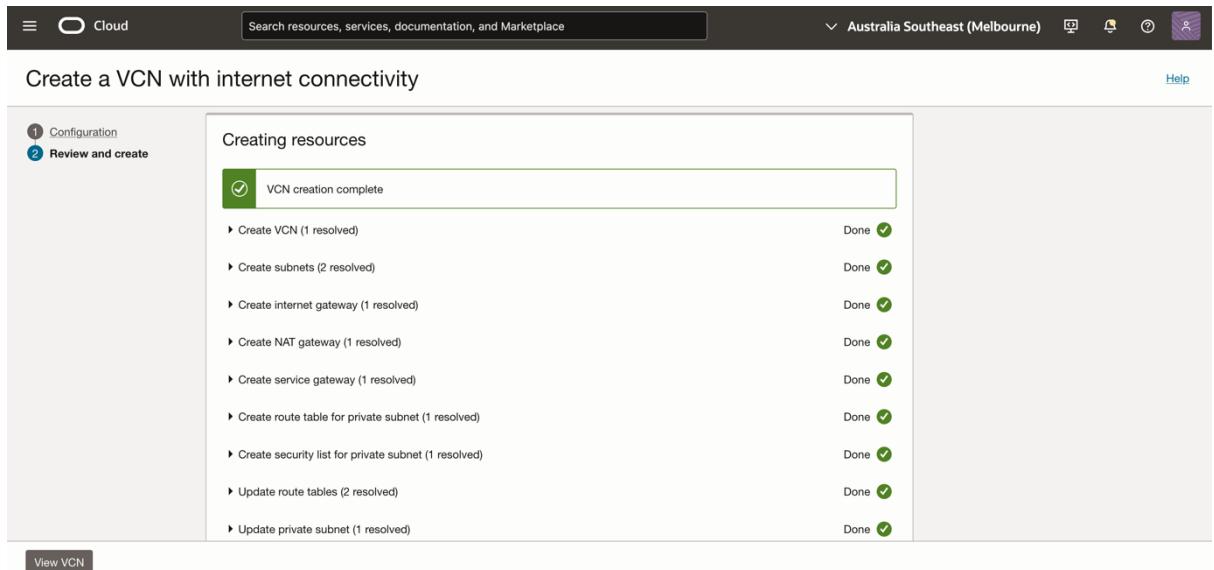
Configure private subnet

IP address type **IPv4 CIDR block** IPv4 CIDR block **10.200.2.0/24**

Example: 172.16.0.0/16.

(Maximum number of items added) **+ Another IP address type**

Next **Cancel**



Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) Help

Create a VCN with internet connectivity

1 Configuration
2 Review and create

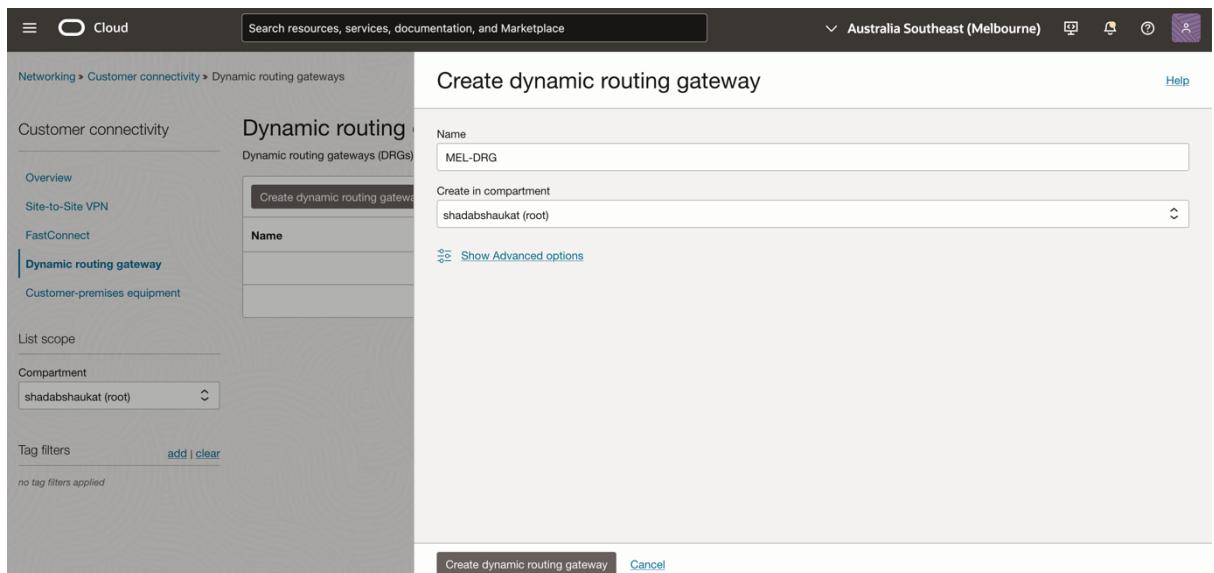
Creating resources

VCN creation complete

- ▶ Create VCN (1 resolved) Done ✓
- ▶ Create subnets (2 resolved) Done ✓
- ▶ Create internet gateway (1 resolved) Done ✓
- ▶ Create NAT gateway (1 resolved) Done ✓
- ▶ Create service gateway (1 resolved) Done ✓
- ▶ Create route table for private subnet (1 resolved) Done ✓
- ▶ Create security list for private subnet (1 resolved) Done ✓
- ▶ Update route tables (2 resolved) Done ✓
- ▶ Update private subnet (1 resolved) Done ✓

[View VCN](#)

Add DRG in Melbourne region and Attach VCN



Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) Help

Networking > Customer connectivity > Dynamic routing gateways

Customer connectivity

- Overview
- Site-to-Site VPN
- FastConnect
- Dynamic routing gateway**
- Customer-premises equipment

List scope

Compartment shadabshaukat (root)

Tag filters [add](#) [clear](#) no tag filters applied

Dynamic routing

Dynamic routing gateways (DRGs)

Create dynamic routing gateway

Name MEL-DRG

Create in compartment shadabshaukat (root)

Show Advanced options

[Create dynamic routing gateway](#) [Cancel](#)

Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) ⌂ ⓘ ⓘ ⌂

Networking > Customer connectivity > Dynamic routing gateways > MEL-DRG

MEL-DRG

AVAILABLE

Resources

VCN attachments (0)

- Virtual circuit attachments (0)
- IPSec tunnel attachments (0)
- Remote peering connection attachments (0)
- Loopback attachments (0)
- Cross-tenancy attachments (0)

Dynamic routing gateway information Tags

Compartment: shadabshaukat (root) OCID: ...ff7ogt4lba Show Copy

Oracle redundancy status: — Created: Sat, Mar 15, 2025, 04:39:24 UTC

VCN attachments in shadabshaukat (root) Compartment

VCNs are connected to a DRG by an attachment with the VCN type. You can configure all VCNs to use the same route table. [Learn more](#).

Create virtual cloud network attachment

Attachment name	Lifecycle state	Virtual cloud network	DRG route table	VCN route type	Created

No items found.

Showing 0 items < 1 of 1 >

Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) ⌂ ⓘ ⓘ ⌂

Networking > Customer connectivity > Dynamic routing gateways > MEL-DRG

MEL-DRG

AVAILABLE

Resources

VCN attachments (0)

- Virtual circuit attachments (0)
- IPSec tunnel attachments (0)
- Remote peering connection attachments (0)
- Loopback attachments (0)
- Cross-tenancy attachments (0)

Dynamic routing gateway

Compartment: shadabshaukat (root) Oracle redundancy status: —

Create VCN attachment

Attachment name *Optional*

Virtual cloud network in shadabshaukat (root) (Change compartment)

VCN-MELB

Show Advanced options

Create VCN attachment Cancel

Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) ⌂ ⓘ ⓘ ⌂

Networking > Customer connectivity > Dynamic routing gateways > MEL-DRG

MEL-DRG

AVAILABLE

Resources

VCN attachments (1)

- Virtual circuit attachments (0)
- IPSec tunnel attachments (0)
- Remote peering connection attachments (0)
- Loopback attachments (0)
- Cross-tenancy attachments (0)

Dynamic routing gateway information Tags

Compartment: shadabshaukat (root) OCID: ...ff7ogt4lba Show Copy

Oracle redundancy status: — Created: Sat, Mar 15, 2025, 04:39:24 UTC

VCN attachments in shadabshaukat (root) Compartment

VCNs are connected to a DRG by an attachment with the VCN type. You can configure all VCNs to use the same route table. [Learn more](#).

Create virtual cloud network attachment

Attachment name	Lifecycle state	Virtual cloud network	DRG route table	VCN route type	Created
drgattachment20250315044021	Attached	VCN-MELB	Autogenerated DRG Route Table for VCN attachments	Subnet CIDR blocks	Sat, Mar 15, 2025, 04:40:22 UTC

Showing 1 item < 1 of 1 >

Create Remote Peering Connection (RPC) in DRG in Melbourne

MEL-DRG

AVAILABLE

Resources

- VCN attachments (1)
- Virtual circuit attachments (0)
- IPSec tunnel attachments (0)
- Remote peering connection attachments (0)**
- Loopback attachments (0)
- Cross-tenancy attachments (0)
- DRG route tables (2)

Dynamic routing gateway information

Tags

Compartment: shadabshaukat (root)

Oracle redundancy status: —

OCID: ...ff7ogt4lba [Show](#) [Copy](#)

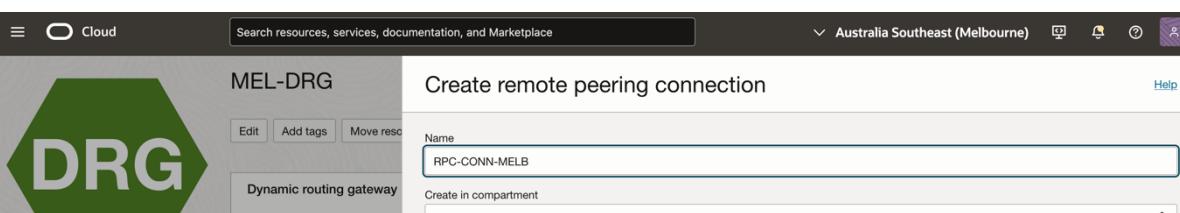
Created: Sat, Mar 15, 2025, 04:39:24 UTC

Remote peering connection attachments *in* shadabshaukat (root) **Compartment**

Remote peering connection (RPC) attachments are automatically created when an RPC is created. You can't directly create additional attachments for an RPC.

Create remote peering connection					
Attachment name	Lifecycle state	DRG route table	Remote peering connection	Peering status	Created
No items found.					

Showing 0 items < 1 of 1 >



MEL-DRG

DRG

AVAILABLE

Resources

VCN attachments (1)

Virtual circuit attachments (0)

IPSec tunnel attachments (0)

Remote peering connection attachments (0)

Loopback attachments (0)

Cross-tenancy attachments (0)

DRG route tables (2)

Create remote peering connection

RPC-CONN-MELB

shadabshaukat (root)

This creates an attachment to the selected DRG. The attachment uses a route table based on the type of resource using the attachment.

Show Advanced options

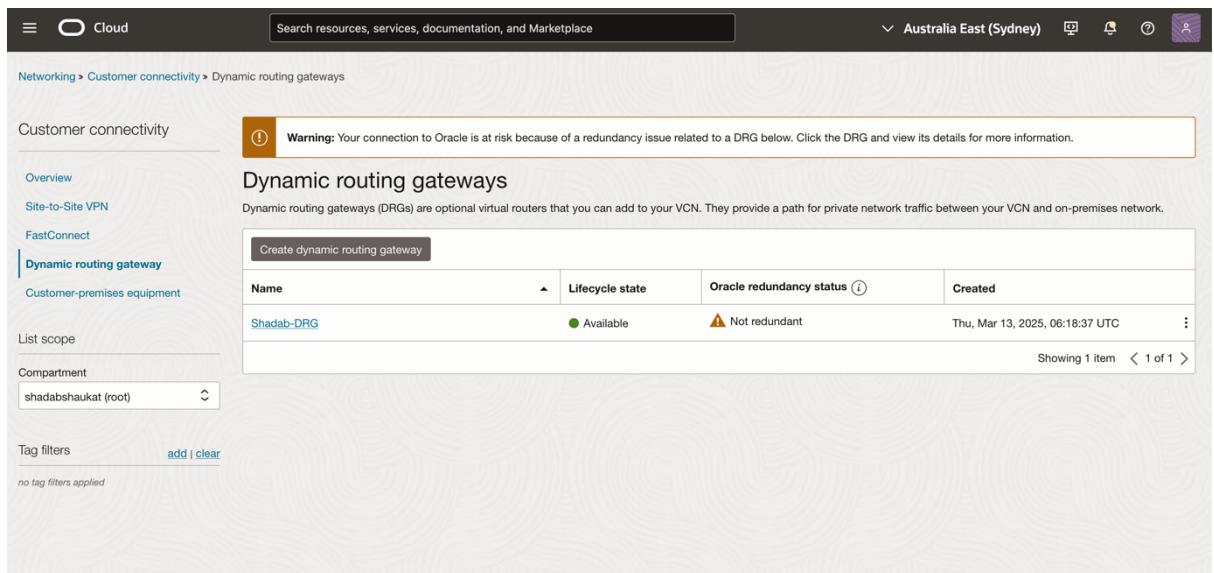
Create remote peering connection

Cancel

The screenshot shows the Oracle Cloud Infrastructure (OCI) Dynamic Routing Gateway (DRG) page for a DRG named 'MEL-DRG'. The page includes a large green hexagonal icon with the letters 'DRG' in white. The main content area displays the DRG's compartment as 'shadabshaukat (root)', its Oracle redundancy status as '—', and its creation date as 'Sat, Mar 15, 2025, 04:39:24 UTC'. Below this, a table lists 'Remote peering connection attachments' for the 'shadabshaukat (root)' compartment, showing one attachment named 'DRG Attachment for RPC: RPC-CONN-MELB'.

Create Remote Peering Connection (RPC) in DRG in Sydney

Go to Sydney DRG



Networking > Customer connectivity > Dynamic routing gateways

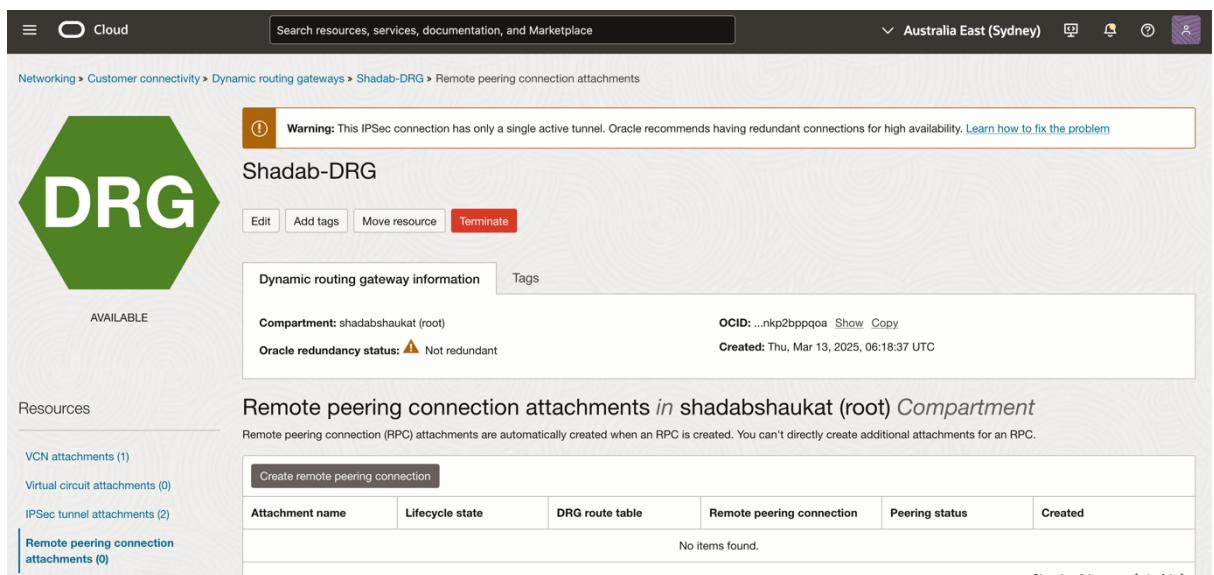
Customer connectivity

Dynamic routing gateways

Dynamic routing gateways (DRGs) are optional virtual routers that you can add to your VCN. They provide a path for private network traffic between your VCN and on-premises network.

Name	Lifecycle state	Oracle redundancy status	Created
Shadab-DRG	Available	Not redundant	Thu, Mar 13, 2025, 06:18:37 UTC

Showing 1 item < 1 of 1 >



Networking > Customer connectivity > Dynamic routing gateways > Shadab-DRG > Remote peering connection attachments

Shadab-DRG

Dynamic routing gateway information

Compartment: shadabshaukat (root) OCID: ...nkp2bqqoa Show Copy
Oracle redundancy status: Not redundant Created: Thu, Mar 13, 2025, 06:18:37 UTC

Resources

VCN attachments (1)
Virtual circuit attachments (0)
IPSec tunnel attachments (2)
Remote peering connection attachments (0)

Remote peering connection attachments in shadabshaukat (root) Compartment

Remote peering connection (RPC) attachments are automatically created when an RPC is created. You can't directly create additional attachments for an RPC.

Attachment name	Lifecycle state	DRG route table	Remote peering connection	Peering status	Created
No items found.					

Showing 0 items < 1 of 1 >

Create remote peering connection

Shadab-DRG

Dynamic routing gateway

Compartment: shadabshaukat (root)

Oracle redundancy status: Not redundant

Resources

VCN attachments (1)

Virtual circuit attachments (0)

IPSec tunnel attachments (2)

Remote peering connection attachments (0)

Attachment name: SYD-RPC-CONNECTION

Create remote peering connection

Dynamic routing gateway information

Compartment: shadabshaukat (root)

Oracle redundancy status: Not redundant

OCID: ...nkp2bppqoa **Show** **Copy**

Created: Thu, Mar 13, 2025, 06:18:37 UTC

Resources

VCN attachments (1)

Virtual circuit attachments (0)

IPSec tunnel attachments (2)

Remote peering connection attachments (1)

Loopback attachments (0)

Cross-tenancy attachments (0)

DRG route tables (2)

Import route distributions (2)

Export route distributions (1)

Now click on the Sydney remote peering connection and establish connection with Melbourne RPC

First get OCID of the Melbourne RPC connection peer

Networking > Customer connectivity > Dynamic routing gateways > MEL-DRG > Remote peering connections > RPC-CONN-MELB

RPC-CONN-MELB



Establish connection Edit Terminate

Remote peering connection Information

Compartment: shadabshaukat (root)

OCID: [ocid1.remotepeeringconnection.oc1.ap-melbourne-1.aaaaaaaaiosamaw2xsr3dzg2t43wyimrsaukdjsulgia44gim27nv5muosoq](#) [Show](#) [Copy](#)

DRG OCID: [...f7ogt4lba](#) [Show](#) [Copy](#)

Peer status: New (not peered)

Peer region: —

Peer connection OCID: —

Created: Sat, Mar 15, 2025, 04:47:20 UTC

Cross-tenancy: No

Peer tenancy OCID: —

Resources

Remote peering connection attachments

Attachment name	Lifecycle state	Dynamic routing gateways	DRG route table	Created
DRG Attachment for RPC: RPC-CONN-MELB	Attached	MEL-DRG	Autogenerated Drg Route Table for RPC, VC, and IPSec attachments	Sat, Mar 15, 2025, 04:47:30 UTC

Showing 1 item < 1 of 1

ocid1.remotepeeringconnection.oc1.ap-melbourne-1.aaaaaaaaiosamaw2xsr3dzg2t43wyimrsaukdjsulgia44gim27nv5muosoq

Now go to Sydney RPC

Networking > Customer connectivity > Dynamic routing gateways > Shadab-DRG > Remote peering connections > SYD-RPC-CONNECTION

SYD-RPC-CONNECTION



Establish connection Edit Terminate

Remote peering connection Information

Compartment: shadabshaukat (root)

OCID: [...dc6hz6fp3q](#) [Show](#) [Copy](#)

DRG OCID: [...nkp2bppqqa](#) [Show](#) [Copy](#)

Peer status: New (not peered)

Peer region: —

Peer connection OCID: —

Created: Sat, Mar 15, 2025, 04:52:57 UTC

Cross-tenancy: No

Peer tenancy OCID: —

Resources

Remote peering connection attachments

Attachment name	Lifecycle state	Dynamic routing gateways	DRG route table	Created
DRG Attachment for RPC: SYD-RPC-CONNECTION	Attached	Shadab-DRG	Autogenerated Drg Route Table for RPC, VC, and IPSec attachments	Sat, Mar 15, 2025, 04:53:00 UTC

Showing 1 item < 1 of 1 >

Click on Establish Connection and Add the Peer OCID :

Networking > Customer connectivity > Dynamic routing gateways > Shadab-DRG > Remote peering connections > SYD-RPC-CONNECTION

SYD-RPC-CONNECTION

Establish connection

Region: ap-melbourne-1

Remote peering connection OCID: aaaaaiosamaw2xsr3dzg2t43wyimrsaukdjsulgia44gim27nv5muosod

Peer status: New (not peered)

Peer region: —

Peer connection OCID: —

Establish connection Cancel

If everything was setup properly the peer status will be green and 'Peered'

Networking > Customer connectivity > Dynamic routing gateways > Shadab-DRG > Remote peering connections > SYD-RPC-CONNECTION

SYD-RPC-CONNECTION

Establish connection

Region: ap-melbourne-1

Remote peering connection OCID: 7nv5muosod

Peer status: Peered

Peer region: ap-melbourne-1

Peer connection OCID: 7nv5muosod

Establish connection Cancel

Your Routes for both Sydney and Melbourne VCN should be automatically published. You can go to VCN attachment in both regions DRG and check VCN Attachment's DRG Route Table

Networking > Customer connectivity > Dynamic routing gateways > MEL-DRG > DRG route table details

Autogenerated Drg Route Table for VCN attachments

DRG route table information

Compartment: shadabshaukat (root)
OCID: ...tnf6c4us3q Show Copy
DRG: MEL-DRG

Import route distribution: Autogenerated Import Route Distribution for ALL routes
ECMP: Disabled
Created: Sat, Mar 15, 2025, 04:39:30 UTC

Resources

Static route rules (0)

Add static route rules Edit Remove

<input type="checkbox"/>	Destination CIDR block	Next hop attachment type	Next hop attachment name	Route status
No items found.				

0 selected Showing 0 items < 1 of 1 >

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Cloud

Get all route rules

Route rules for Autogenerated Drg Route Table for VCN attachments

Last checked: Sat, Mar 15, 2025, 05:09:23 UTC

Filters

Route rules type: All

Next hop attachment type: All

Route status: All

Download route rules Refresh table Search by CIDR block

Type	Destination CIDR block	Next hop attachment type	Next hop attachment name	Route status
DYNAMIC	10.100.1.0/24	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	● Active
DYNAMIC	10.100.2.0/24	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	● Active
DYNAMIC	10.200.1.0/24	Virtual Cloud Network	drgattachment20250315044021	● Active
DYNAMIC	10.200.2.0/24	Virtual Cloud Network	drgattachment20250315044021	● Active

Showing 4 items < 1 of 1 >

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Configure DRG in OCI Sydney for Transit connectivity

Setup the DRG in Sydney for transit routing.

Since by default IPSec VPN and RPC are using the same DRG route, we will just modify the route. In real world production setup, you should have a separate route.

Dynamic routing gateway information

Compartment: shadabshaukat (root)

Oracle redundancy status: Not redundant

OCID: ...nkp2bppqoa Show Copy

Created: Thu, Mar 13, 2025, 06:18:37 UTC

Resources

VCN attachments (1)

Virtual circuit attachments (0)

IPSec tunnel attachments (2)

Remote peering connection attachments (1)

Loopback attachments (0)

Cross-tenancy attachments (0)

DRG route tables (2)

Import route distributions (2)

Export route distributions (1)

Tag filters [add](#) | [clear](#)

Showing 2 items < 1 of 1 >

Go to DRG in Sydney > DRG Route Table > 'Import Route Distribution' for 'RPC, VC and IPSec attachments'

Add 2 New Route Distribution Statements

Autogenerated DRG Route Table for RPC, VC, and IPSec attachments

Route distribution statements (1)

Route distribution statements

Priority 10 Match type Attachment Attachment type filter IPSec Tunnel Action DRG Attachment for... ACCEPT

Priority 20 Match type Attachment Attachment type filter Remote Peering Co... Action DRG Attachment for... ACCEPT

You can add up to 15 route distribution statements at a time.

+ Another statement

Add route distribution statements Cancel

Autogenerated Import Route Distribution for VCN Routes

Route distribution information Tags

Compartment: shadabshaukat (root) Distribution type: IMPORT
OCID: ...goeu6zphlq Show Copy DRG: Shadab-DRG

Route distribution statements

Import route distribution statements describe the advertisement of routes to attachments from their assigned route table. [Learn more](#).

Add route distribution statements	Edit	Remove	Action
<input type="checkbox"/> Priority	Match type	Match criteria	
<input type="checkbox"/> 1	Attachment type	Virtual Cloud Network	ACCEPT
<input type="checkbox"/> 10	Attachment	DRG Attachment for IPSec Tunnel: ipsectunnel20250314034733-1	ACCEPT
<input type="checkbox"/> 20	Attachment	DRG Attachment for RPC: SYD-RPC-CONNECTION	ACCEPT

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If you setup everything correctly in your Transit Gateway Route Tables you will see

All routes of your 2 OCI Regions plus the AWS VPC route

VPC > Transit gateway route tables > tgw-rtb-065873123199fb96c

Virtual private gateways
Site-to-Site VPN connections
Client VPN endpoints

▼ AWS Verified Access
Verified Access instances
Verified Access trust providers
Verified Access groups
Verified Access endpoints

▼ Transit gateways
Transit gateways
Transit gateway attachments
Transit gateway policy tables
Transit gateway route tables
Transit gateway multicast

▼ Traffic Mirroring
Mirror sessions
Mirror targets
Mirror filters

Filter routes by CIDR (2)

Exact CIDR: 0.0.0.0/0, ::/0
Longest prefix match: 0.0.0.0, ::/0
Supernet of match: 0.0.0.0/0, ::/0
Subnet of match: 0.0.0.0/0, ::/0

Routes (5) info

CIDR	Attachment ID	Resource ID	Resource type	Route type
10.100.1.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
10.100.2.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
10.200.1.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
10.200.2.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b732e51d8e13201c3...	VPN	Propagated
172.31.0.0/16	tgw-attach-0ea473f30c8380a66	vpc-0b6de2f65f971840b	VPC	Propagated

You can verify the same from Sydney DRG

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shadab-DRG

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Dynamic routing gateway information Tags

Compartment: shadabshaukat (root) OCID: ...nkp2bppqoa Show Copy

Oracle redundancy status: ⚠️ Not redundant Created: Thu, Mar 13, 2025, 06:18:37 UTC

Resources

- VCN attachments (1)
- Virtual circuit attachments (0)
- IPSec tunnel attachments (2)
- Remote peering connection attachments (1)
- Loopback attachments (0)
- Cross-tenancy attachments (0)
- DRG route tables (2)**
- Import route distributions (2)

DRG route tables

A DRG route table manages routing within the DRG. Two route tables are automatically created for a new DRG, and you can create more route tables as needed. You can configure all resources of a certain type to use the same route table.

Name	Lifecycle state	Default for attachment types ⓘ	Import route distribution ⓘ	Created
Autogenerated Drg Route Table for RPC, VC, and IPSec attachments	Available	IPSec Tunnel, Virtual Circuit, Remote Peering Connection	Autogenerated Import Route Distribution for VCN Routes	Thu, Mar 13, 2025, 06:18:49 UTC
Autogenerated Drg Route Table for VCN attachments	Available	Virtual Cloud Network	Autogenerated Import Route Distribution for ALL routes	Thu, Mar 13, 2025, 06:18:49 UTC

Showing 2 items < 1 of 1 >

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Get all route rules

Route rules for **Autogenerated Drg Route Table for RPC, VC, and IPSec attachments**

Last checked: Sat, Mar 15, 2025, 05:50:27 UTC

Filters

Route rules type: All

Next hop attachment type: All

Route status: All

Download route rules Refresh table Search by CIDR block

Type	Destination CIDR block	Next hop attachment type	Next hop attachment name	Route status
DYNAMIC	10.100.1.0/24	Virtual Cloud Network	drgattachment20250313061949	Active
DYNAMIC	10.100.2.0/24	Virtual Cloud Network	drgattachment20250313061949	Active
DYNAMIC	10.200.1.0/24	Remote Peering Connection	DRG Attachment for RPC: SYD-RPC-CONNECTION	Active
DYNAMIC	10.200.2.0/24	Remote Peering Connection	DRG Attachment for RPC: SYD-RPC-CONNECTION	Active
DYNAMIC	172.31.0.0/16	IPSec Tunnel	DRG Attachment for IPSec Tunnel: ipsectunnel20250314034733-1	Active

Showing 5 items < 1 of 1 >

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Do the same from Melbourne DRG

Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne)    

Networking > Customer connectivity > Dynamic routing gateways > MEL-DRG

MEL-DRG



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Resources

VCN attachments (1)

- Virtual circuit attachments (0)
- IPSec tunnel attachments (0)
- Remote peering connection attachments (1)
- Loopback attachments (0)
- Cross-tenancy attachments (0)

VCNs are connected to a DRG by an attachment with the VCN type. You can configure all VCNs to use the same route table. [Learn more.](#)

Create virtual cloud network attachment

Attachment name	Lifecycle state	Virtual cloud network	DRG route table	VCN route type	Created
drgattachment20250315044021	Attached	VCN-MELB	Autogenerated DRG Route Table for VCN attachments	Subnet CIDR blocks	Sat, Mar 15, 2025, 04:40:22 UTC

Showing 1 item < 1 of 1 >

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Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne)    

Networking > Customer connectivity > Dynamic routing gateways > MEL-DRG > DRG route table details

Autogenerated DRG Route Table for VCN attachments



AVAILABLE

Resources

Static route rules (0)

Static route rules define the priority of routes between the DRG and attached VCNs. Site-to-Site VPN IPSec tunnels, FastConnect virtual circuits, and remote peering connections to other DRGs. A DRG route table routes packets inside the DRG, while a VCN route table assigned to a subnet only routes traffic leaving that subnet. If you're having problems, use [Network Path Analyzer](#) to check your connections.

Add static route rules  

<input type="checkbox"/>	Destination CIDR block	Next hop attachment type	Next hop attachment name	Route status
No items found.				
0 selected				

Showing 0 items < 1 of 1 >

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Cloud Search resources, services, documentation, and Marketplace Australia Southeast (Melbourne) Help

Get all route rules

Route rules for Autogenerated Drg Route Table for VCN attachments

Last checked: Sat, Mar 15, 2025, 05:52:12 UTC

Filters

Route rules type: All

Next hop attachment type: All

Route status: All

Download route rules Refresh table Search by CIDR block

Type	Destination CIDR block	Next hop attachment type	Next hop attachment name	Route status
DYNAMIC	10.100.1.0/24	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	Active
DYNAMIC	10.100.2.0/24	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	Active
DYNAMIC	10.200.1.0/24	Virtual Cloud Network	drgattachment20250315044021	Active
DYNAMIC	10.200.2.0/24	Virtual Cloud Network	drgattachment20250315044021	Active
DYNAMIC	172.31.0.0/16	Remote Peering Connection	DRG Attachment for RPC: RPC-CONN-MELB	Active

Showing 5 items < 1 of 1 >

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Ref: <https://ystatit.medium.com/azure-ipsec-vpn-to-oci-plus-oci-remote-peering-0b09e62e50a2>

Ensure AWS VPC Route Table has your routes for Sydney and Melbourne VPC added

Aura and RDS DynamoDB Lambda S3 Route 53 API Gateway Activate for Startups Amazon Aurora DSQL EC2 Amazon Bedrock VPC Database Migration Service Amazon Redshift AWS Glue United States (N. Virginia) Cybryxio Admin

VPC > Route tables > rtb-0041609d91503c97b > Edit routes

Edit routes

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
10.100.0.0/16	Transit Gateway	Active	No
10.230.0.0/16	Virtual Private Gateway	Active	No
0.0.0.0/0	Internet Gateway	Active	No
10.200.0.0/16	Transit Gateway	-	No

Add route Cancel Preview Save changes

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rtb-0041609d91503c97b

Details **Info**

Route table ID rtb-0041609d91503c97b **Main** Yes **Explicit subnet associations** - **Edge associations** -

VPC vpc-0b6de2f65f971840b **Owner ID** 241526791455

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

Routes (5)

Destination	Target	Status	Propagated
0.0.0.0	igw-0f9fc5ac8461e59ca	Active	No
10.100.0.0/16	tgw-09fcad83501f16313	Active	No
10.200.0.0/16	tgw-09fcad83501f16313	Active	No
10.230.0.0/16	vgw-0ce14a175ddc623c0	Active	No
172.31.0.0/16	local	Active	No

Ensure your Sydney VCN Route tables have routes for Melbourne VCN and AWS VPC via DRG

RT

AVAILABLE

Route Table Information

OCID: ...emz13mlq Show Copy
Created: Sun, Nov 1, 2020, 12:57:15 UTC
Compartment: shadabshaukat (root)

Route Rules

Add Route Rules **Edit** Remove

Destination	Target Type	Target	Route Type	Description
10.200.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	
172.31.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	

0 selected

Showing 2 items < 1 of 1 >

Route Table Information

OCID: ...vmmiffq Show Copy
Created: Sun, Nov 1, 2020, 12:57:15 UTC
Compartment: shadabshaukat (root)

Route Rules

Traffic within the VCN is handled by the VCN's local routing by default. Intra-VCN routing allows you more control over routing between subnets. [Learn more](#). If you're having problems, use [Network Path Analyzer](#) to check your connections.

<input type="checkbox"/>	Destination	Target Type	Target	Route Type	Description
<input type="checkbox"/>	0.0.0.0/0	Internet Gateway	Internet Gateway-Shadabshaukat-VCN	Static	...
<input type="checkbox"/>	10.200.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	...
<input type="checkbox"/>	172.31.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	...

0 selected

Showing 3 items < 1 of 1 >

Add ingress rule for ports in Route Table security list in SYDNEY for AWS VPC CIDR 172.31.0.0/16

Ingress Rules

<input type="checkbox"/>	Stateless	Source	IP Protocol	Source Port Range	Destination Port Range	Type and Code	Allows	Description
<input type="checkbox"/>	No	10.100.0.0/16	TCP	All	22			TCP traffic for ports: 22 SSH Remote Login Protocol
<input type="checkbox"/>	No	0.0.0.0/0	ICMP			3, 4		ICMP traffic for: 3, 4 Destination Unreachable: Fragmentation Needed and Don't Fragment was Set
<input type="checkbox"/>	No	10.100.0.0/16	ICMP			3		ICMP traffic for: 3 Destination Unreachable
<input type="checkbox"/>	No	0.0.0.0/0	TCP	All	3306			TCP traffic for ports: 3306
<input type="checkbox"/>	No	172.31.0.0/16	TCP	All	22			TCP traffic for ports: 22 SSH Remote Login Protocol

0 selected

Showing 5 items < 1 of 1 >

And do the same in Melbourne VCN Route Tables

Route Table Information

OCID: ...tzlydxja Show Copy
Created: Sat, Mar 15, 2025, 04:36:10 UTC
Compartment: shadabshaukat (root)

Route Rules

Traffic within the VCN is handled by the VCN's local routing by default. Intra-VCN routing allows you more control over routing between subnets. [Learn more](#). If you're having problems, use [Network Path Analyzer](#) to check your connections.

<input type="checkbox"/>	Destination	Target Type	Target	Route Type	Description
<input type="checkbox"/>	0.0.0.0/0	NAT Gateway	NAT gateway-VCN-MELB	Static	⋮
<input type="checkbox"/>	10.100.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	⋮
<input type="checkbox"/>	172.31.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	⋮
<input type="checkbox"/>	All MEL Services In Oracle Services Network	Service Gateway	Service gateway-VCN-MELB	Static	⋮

Showing 4 items / 1 of 1

What's this? | Redwood preview

Route Table Information

OCID: ...a5cw2qza Show Copy
Created: Sat, Mar 15, 2025, 04:36:09 UTC
Compartment: shadabshaukat (root)

Route Rules

Traffic within the VCN is handled by the VCN's local routing by default. Intra-VCN routing allows you more control over routing between subnets. [Learn more](#). If you're having problems, use [Network Path Analyzer](#) to check your connections.

<input type="checkbox"/>	Destination	Target Type	Target	Route Type	Description
<input type="checkbox"/>	0.0.0.0/0	Internet Gateway	Internet gateway-VCN-MELB	Static	⋮
<input type="checkbox"/>	10.100.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	⋮
<input type="checkbox"/>	172.31.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	⋮

Showing 3 items / 1 of 1

What's this? | Redwood preview

Add ingress rule for ports in Route Table security list in Melbourne for AWS VPC CIDR 172.31.0.0/16

Resources

Ingress Rules

		Add Ingress Rules	Edit	Remove				
	Stateless	Source	IP Protocol	Source Port Range	Destination Port Range	Type and Code	Allows	Description
<input type="checkbox"/>	No	10.200.0.0/16	TCP	All	22			TCP traffic for ports: 22 SSH Remote Login Protocol
<input type="checkbox"/>	No	0.0.0.0/0	ICMP			3, 4		ICMP traffic for: 3, 4 Destination Unreachable: Fragmentation Needed and Don't Fragment was Set
<input type="checkbox"/>	No	10.200.0.0/16	ICMP			3		ICMP traffic for: 3 Destination Unreachable
<input type="checkbox"/>	No	172.31.0.0/16	TCP	All	22			TCP traffic for ports: 22 SSH Remote Login Protocol

0 selected

Showing 4 items < 1 of 1 >

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Create an EC2 instance in the AWS VPC and connect to 2 VMs in OCI one in Sydney and Melbourne respectively

AWS Instance IP : 172.31.91.251

OCI Sydney VM : 10.100.1.35

OCI Melbourne VM : 10.200.2.250

AWS → OCI Sydney SSH Connection

```
ec2-user@ip-172-31-91-251:~
```

ec2-user@ip-172-31-91-251:~ (ssh) %1 ec2-

```
[ec2-user@ip-172-31-91-251 ~]$ telnet 10.100.1.35 22
Trying 10.100.1.35...
Connected to 10.100.1.35.
Escape character is '^]'.
```

AWS → OCI Melbourne SSH Connection

```
ec2-user@ip-172-31-91-251:~
```

ec2-user@ip-172-31-91-251:~ (ssh) %1 ec2-

```
[ec2-user@ip-172-31-91-251 ~]$ telnet 10.200.2.250 22
Trying 10.200.2.250...
Connected to 10.200.2.250.
Escape character is '^]'.
SSH-2.0-OpenSSH_8.0
```

We can further extend this solution by Creating another Transit Gateway in another AWS Region, attach your VPCs to them, and then create a Transit Gateway peering attachment between the two Transit Gateways, ensuring proper route table updates.

We now have another VPC in us-west-1 (N. California) region.

VPC dashboard < Actions

Details Info

VPC ID vpc-00d41f2f634572ffa **State** Available

DNS resolution Enabled **Tenancy** default

Main network ACL acl-09de00bbed385731c **Default VPC** No

IPv4 CIDR 172.41.0.0/16 **Network Address Usage metrics** Disabled

Block Public Access Off **DNS hostnames** Enabled

DHCP option set dopt-08a1dcf3ac04dcda8 **Main route table** rtb-046e76c767f83a885

IPv6 pool - **IPv6 pool** -

Route 53 Resolver DNS Firewall rule groups - **Owner ID** 241526791455

Resource map CIDRs Flow logs Tags Integrations

First let us create another Transit Routing Gateway in us-west-1 and attach the VPC to it.

Transit gateways Actions Create transit gateway

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

Select a transit gateway

Transit gateways Actions

Transit gateway attachments

Transit gateway route tables

Create transit gateway Actions

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.

Details - optional

Name tag Creates a tag with the key set to Name and the value set to the specified string.
transit-gateway-california

Description 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

ASN Actions

DNS support Info

Security Group Referencing support Info

VPN ECMP support Info

Default route table association Info

Configure cross-account sharing options

Transit gateway CIDR blocks

Tags - optional

Key: Name Value - optional: transit-gateway-california

Add new tag

Create transit gateway

Create Transit Gateway attachment

Create transit gateway attachment

Details

Name tag - optional

transit-gw-attachment-n-california-01

Transit gateway ID

tgw-08c5eb41bf661444e

Attachment type

VPC

VPC attachment

DNS support

Security Group Referencing support

IPv6 support

Create transit gateway attachment

Appliance Mode support [Info](#)

VPC ID
Select the VPC to attach to the transit gateway.

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

us-west-1a [subnet-00556ca964971b697](#)

us-west-1b [subnet-046d573fd4ee2935](#)

[subnet-00556ca964971b697](#) [subnet-046d573fd4ee2935](#)

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 [Remove](#)

[Add new tag](#)

You can add up to 49 more tags.

Create Transit Gateway Attachment

Virtual private network (VPN)

Customer gateways

Virtual private gateways

Site-to-Site VPN connections

Client VPN endpoints

AWS Verified Access

Verified Access Instances

Verified Access trust providers

Verified Access groups

Verified Access endpoints

Transit gateways

Transit gateway attachments

Transit gateway policy tables

Transit gateway route tables

Transit gateway multicast

Transit gateway attachments (1/1) | [Info](#)

Find transit gateway attachment by attribute or tag

Name: tgw-attach-0064f0317ded73e16 | Transit gateway attachment ID: tgw-08c5eb41bf661444e | Transit gateway ID: tgw-08c5eb41bf661444e | State: Available | Resource type: VPC | Resource ID: vpc-00d41f2f634572ff

Actions | [Create transit gateway attachment](#)

Transit gateway attachment: tgw-attach-0064f0317ded73e16 / transit-gw-attachment-n-california-01

tgw-attach-0064f0317ded73e16	tgw-08c5eb41bf661444e	241526791455	Disable
State Available	Resource owner ID 241526791455	DNS support Enable	Subnet IDs 2 Subnets
Resource type VPC	Resource ID vpc-00d41f2f634572ff	Security Group Referencing support Enable	Association state Associated
Association route table ID tgw-rtb-07fe4321458b1f939	IPv6 support Disable		

We now need to connect the Transit Routing Gateways in us-east-1 and us-west-1 via Peering connection.

Ref : <https://docs.aws.amazon.com/vpc/latest/tgw/tgw-peering.html>

Before you begin, ensure that you have the ID of the transit gateway that you want to attach. If the transit gateway is in another AWS account, ensure that you have the AWS account ID of the owner of the transit gateway.

My Transit Gateway ID in us-east-1 is tgw-09fcad83501f16313

Go back to Transit Gateway Attachments and Create Transit Gateway Attachment in us-west-1

Ref : <https://docs.aws.amazon.com/vpc/latest/tgw/tgw-peering-create.html>

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.
transit-gw-attachment-rpc-n-california

Transit gateway ID Info
tgw-08c5eb41bf661444e

Attachment type Info
Peering Connection

Peering connection attachment
Select and configure your peering connection attachment.

Account Info
 My account
 Other account

Region Info
us-east-1

Make sure there are no empty spaces in the string when you paste the Transit Gateway ID

Create the peering connection attachment and wait for it to become ‘Pending Acceptance’. Go to us-east-1 TRG Attachments and accept the request

Transit gateway attachments (1/3) Info

Actions Actions **Create transit gateway attachment**

Transit gateway attachment: tgw-attach-0fb0083169ca71a4

Details **Flow logs** **Tags**

Transit gateway attachment ID	Requester ID	Acceptor ID	State
tgw-attach-0fb0083169ca71a4	tgw-08c5eb41bf661444e	tgw-09fcad83501f16313	Pending
Requester region	Acceptor region	Resource type	State
N. California (us-west-1)	N. Virginia (us-east-1)	Peering	Pending Acceptance
Requester owner ID			Requester owner ID
241526791455			241526791455

Once it is completed, add the routes of both VPC's to the respective Route tables in each regions

In California VPC Route tables add 172.31.0.0/16 (CIDR for us-east-1) to the private route tables for which you created the TRG attachments

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC dashboard | EC2 Global View | Filter by VPC

Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only Internet gateways | DHCP option sets | Elastic IPs | Managed prefix lists | NAT gateways | Peering connections | Security | Network ACLs

Route tables (1/5) | Info | Last updated less than a minute ago | Actions | Create route table

Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC
-	rtb-046e76c767f83a885	-	-	Yes	vpc-00d41f2f634572ffa C
California-VPC-rtb-public	rtb-0af4c3288519c3630	2 subnets	-	No	vpc-00d41f2f634572ffa C
California-VPC-rtb-private2-us-west-1b	rtb-0b8554b45e88b8831	subnet-046d573fd4ee2935	-	No	vpc-00d41f2f634572ffa C
California-VPC-rtb-private1-us-west-1a	rtb-0f6a5581c14f21db3	subnet-00556ca964971b...	-	No	vpc-00d41f2f634572ffa C
-	rtb-05ec71da539b6fc8	-	-	Yes	vpc-096678f6e188a1c12

Routes (2) | Both | Edit routes | Filter routes

Destination	Target	Status	Propagated
pl-6ba54002	vpce-08a18b2c75046a659	Active	No
172.41.0.16	local	Active	No

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC | Route tables | rtb-0b8554b45e88b8831 | Edit routes

Edit routes

Destination	Target	Status	Propagated
pl-6ba54002	vpce-08a18b2c75046a659	Active	No
172.41.0.16	local	Active	No
172.31.0.16	Transit Gateway	-	No
	tgw-08c5eb41bf66144e		

Add route | Remove | Preview | Save changes

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC | Route tables | rtb-0b8554b45e88b8831

Updated routes for rtb-0b8554b45e88b8831 / California-VPC-rtb-private2-us-west-1b successfully

Details | Info

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0b8554b45e88b8831	No	subnet-046d573fd4ee2935 / California-VPC-subnet-private2-us-west-1b	-
VPC	Owner ID		
vpc-00d41f2f634572ffa California-VPC-vpc	241526791455		

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

Routes (3) | Both | Edit routes | Filter routes

Destination	Target	Status	Propagated
pl-6ba54002	vpce-08a18b2c75046a659	Active	No
172.31.0.16	tgw-08c5eb41bf66144e	Active	No
172.41.0.16	local	Active	No

Add it for the other private subnet as well

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

VPC dashboard < | Route tables (1/5) Info | Last updated 1 minute ago | Actions | Create route table

EC2 Global View | Filter by VPC

Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only Internet gateways | DHCP option sets | Elastic IPs | Managed prefix lists | NAT gateways | Peering connections | Security | Network ACLs

Route tables (1/5) | Find resources by attribute or tag | Actions | Create route table

Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC
-	rtb-046e76c767f83a885	-	-	Yes	vpc-00d41f2f634572ffa C
California-VPC-rtb-public	rtb-0af4c3288519c3630	2 subnets	-	No	vpc-00d41f2f634572ffa C
California-VPC-rtb-private2-us-west-1b	rtb-0b8554b45e8888831	subnet-046d573fd4ee2...	-	No	vpc-00d41f2f634572ffa C
<input checked="" type="checkbox"/> California-VPC-rtb-private1-us-west-1a	rtb-0f6a5581c14f21db3	subnet-00556ca964971b...	-	No	vpc-00d41f2f634572ffa C
-	rtb-05ec71da539b6fcab	-	-	Yes	vpc-096678f6e188a1c12

rtb-0f6a5581c14f21db3 / California-VPC-rtb-private1-us-west-1a | Details | Routes | Subnet associations | Edge associations | Route propagation | Tags

Details | Route table ID: rtb-0f6a5581c14f21db3 | Main: No | Explicit subnet associations: subnet-00556ca964971b697 / California-VPC-subnet-private1-us-west-1a | Edge associations: -

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

VPC > Route tables > rtb-0f6a5581c14f21db3 > Edit routes | Edit routes

Destination Target Status Propagated

pl-6ba54002 vpce-08a18b2c75046a659 Active No

172.41.0.0/16 local Active No

172.31.0.0/16 Transit Gateway - No

tgw-08c5eb41bf661444e

Add route | Remove | Cancel | Preview | Save changes

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

VPC > Route tables > rtb-0f6a5581c14f21db3 | Updated routes for rtb-0f6a5581c14f21db3 / California-VPC-rtb-private1-us-west-1a successfully

VPC dashboard | Route tables | Details | Info

Route table ID: rtb-0f6a5581c14f21db3 | Main: No | Owner ID: 241526791455 | Explicit subnet associations: subnet-00556ca964971b697 / California-VPC-subnet-private1-us-west-1a | Edge associations: -

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

Routes (3) | Both | Edit routes

Destination	Target	Status	Propagated
pl-6ba54002	vpce-08a18b2c75046a659	Active	No
172.31.0.0/16	tgw-08c5eb41bf661444e	Active	No
172.41.0.0/16	local	Active	No

Now In N Virginia VPC Route tables add 172.41.0.0/16 (CIDR for us-west-1) to the private route tables for which you created the TRG attachments

aws | Search [Option+S] | United States (N. Virginia) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC > Route tables > rtb-0041609d91503c97b

VPC dashboard <

EC2 Global View | Filter by 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
NAT gateways
Peering connections
Security

rtb-0041609d91503c97b

Details **Info**

Route table ID: rtb-0041609d91503c97b | Main: Yes | Owner ID: vpc-0b6de2f65f971840b

Explicit subnet associations: - | Edge associations: -

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

Routes (5)

Filter routes: Both | Edit routes | < 1 > | X

Destination	Target	Status	Propagated
0.0.0.0/0	igw-09fc5ac8461e59ca	Active	No
10.100.0.0/16	tgw-09fcad83501f16313	Active	No
10.200.0.0/16	tgw-09fcad83501f16313	Active	No
10.230.0.0/16	vgw-0ce14a175ddc623c0	Active	No

aws | Search [Option+S] | United States (N. Virginia) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC > Route tables > rtb-0041609d91503c97b | Edit routes

Destination **Target** **Status** **Propagated**

172.31.0.0/16	local	Active	No
10.100.0.0/16	local	Active	No
10.200.0.0/16	Transit Gateway	Active	No
10.230.0.0/16	Virtual Private Gateway	Active	No
0.0.0.0/0	Internet Gateway	Active	No
172.41.0.0/16	Transit Gateway	-	No

Add route

aws | Search [Option+S] | United States (N. Virginia) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC > Route tables > rtb-0041609d91503c97b

VPC dashboard <

EC2 Global View | Filter by 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
NAT gateways
Peering connections
Security

Updated routes for rtb-0041609d91503c97b successfully

Routes (6)

Filter routes: Both | Edit routes | < 1 > | X

Destination	Target	Status	Propagated
0.0.0.0/0	igw-09fc5ac8461e59ca	Active	No
10.100.0.0/16	tgw-09fcad83501f16313	Active	No
10.200.0.0/16	tgw-09fcad83501f16313	Active	No
10.230.0.0/16	vgw-0ce14a175ddc623c0	Active	No
172.31.0.0/16	local	Active	No
172.41.0.0/16	tgw-09fcad83501f16313	Active	No

Add a route to a transit gateway route table using Amazon VPC Transit Gateways
Ref : <https://docs.aws.amazon.com/vpc/latest/tgw/tgw-peering-add-route.html>

In us-east-1

aws | Search [Option+S] | United States (N. Virginia) | Cybrixio Admin

VIRTUAL private gateways

Site-to-Site VPN connections

Client VPN endpoints

AWS Verified Access

Verified Access Instances

Verified Access trust providers

Verified Access groups

Verified Access endpoints

Transit gateways

Transit gateways

Transit gateway attachments

Transit gateway policy tables

Transit gateway route tables

Transit gateway multicast

Traffic Mirroring

Mirror sessions

Mirror targets

Mirror filters

Transit gateway route tables (1) Info

Find transit gateway route table by attribute or tag

Name	Transit gateway route table ID	Transit gateway ID	State	Default association route table
tgw-rtb-065873123199fb96c	tgw-09fcad83501f16313	Available	Yes	

Select a transit gateway route table

aws | Search [Option+S] | United States (N. Virginia) | Cybrixio Admin

VPC > Transit gateway route tables > tgw-rtb-065873123199fb96c

Details

Transit gateway route table ID: tgw-rtb-065873123199fb96c

Transit gateway ID: tgw-09fcad83501f16313

State: Available

Default association route table: Yes

Associations | Propagations | Prefix list references | Routes | Tags

Associations (3) Info

Find association by attribute or tag

Attachment ID	Resource type	Resource ID	State
tgw-attach-0826fb2097ce1c62e	VPN	vpc-0b732e51d8e13201c	Associated
tgw-attach-0ea473f30c8380a66	VPC	vpc-0b6de2f65f971840b	Associated
tgw-attach-0fb0083169ca71a4	Peering	tgw-08c5eb41bf66144e	Associated

Actions

- Create association
- Create propagation
- Create prefix list reference
- Create static route**
- Export routes
- Manage tags
- Delete transit gateway route table

aws | Search [Option+S] | United States (N. Virginia) | Cybrixio Admin

VPC > Transit gateway route tables > tgw-rtb-065873123199fb96c > Create static route

Create static route Info

Add a static route to your transit gateway route table.

Details

Transit gateway ID: tgw-09fcad83501f16313

Transit gateway route table ID: tgw-rtb-065873123199fb96c

CIDR: 172.41.0.0/16

Type: Active

Choose attachment: tgw-attach-0fb0083169ca71a4

Create static route

The screenshot shows the AWS VPC Dashboard. On the left, a sidebar lists various VPC-related options like 'Your VPCs', 'Subnets', 'Route tables', and 'Internet gateways'. The main content area is titled 'Transit gateway route tables (1/1)'. A success message at the top says 'Static route was created successfully.' Below this, a table lists a single route table entry:

Name	Transit gateway route table ID	Transit gateway ID	State	Default association route table
tgw-rtb-065873123199fb96c	tgw-09fcad83501f16313	tgw-09fcad83501f16313	Available	Yes

Below the table, a sub-section titled 'Transit gateway route tables: tgw-rtb-065873123199fb96c' shows a list of routes:

CIDR	Attachment ID	Resource ID	Resource type	Route type	Route state
10.200.1.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b752e51d8e13201c3...	VPN	Propagated	Active
10.200.2.0/24	tgw-attach-0826fb2097ce1c62e	vpn-0b752e51d8e13201c3...	VPN	Propagated	Active
172.31.0.0/16	tgw-attach-0ea473f30c8380a66	vpc-0b6de2f65f971840b	VPC	Propagated	Active
172.41.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-08c5eb41bf66144e	Peering	Static	Active

Add a route to a transit gateway route table using Amazon VPC Transit Gateways
Ref : <https://docs.aws.amazon.com/vpc/latest/tgw/tgw-peering-add-route.html>

In us-west-1

The screenshot shows the AWS VPC Dashboard in the us-west-1 region. The sidebar includes options like 'Customer gateways', 'Virtual private gateways', 'Site-to-Site VPN connections', 'Client VPN endpoints', 'AWS Verified Access', 'Transit gateways', and 'Traffic Mirroring'. The 'Transit gateway route tables' section is selected and shows a table with one entry:

Name	Transit gateway route table ID	Transit gateway ID	State	Default association route table
tgw-rtb-07fe4321458b1f939	tgw-08c5eb41bf66144e	tgw-08c5eb41bf66144e	Available	Yes

Below the table, a sub-section titled 'Select a transit gateway route table' is visible.

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC > Transit gateway route tables > tgw-rtb-07fe4321458b1f939

Customer gateways
Virtual private gateways
Site-to-Site VPN connections
Client VPN endpoints

▼ AWS Verified Access
Verified Access Instances
Verified Access trust providers
Verified Access groups
Verified Access endpoints

▼ Transit gateways
Transit gateways
Transit gateway attachments
Transit gateway policy tables
Transit gateway route tables
Transit gateway multicast

▼ Traffic Mirroring
Mirror sessions

tgw-rtb-07fe4321458b1f939 Info

Details

Transit gateway route table ID: tgw-rtb-07fe4321458b1f939
Transit gateway ID: tgw-08c5eb41bf661444e
State: Available

Default propagation route table: Yes

Associations | Propagations | Prefix list references | Routes | Tags

Associations (2) info

Find association by attribute or tag

Attachment ID	Resource type	Resource ID	State
tgw-attach-0fb0083169ca71a4	Peering	tgw-09fcad83501f16313	Associated
tgw-attach-0064f0317ded73e16	VPC	vpc-00d41f2f634572ffa	Associated

Actions

- Create association
- Create propagation
- Create prefix list reference
- Create static route**
- Export routes
- Manage tags
- Delete transit gateway route table

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC > Transit gateway route tables > tgw-rtb-07fe4321458b1f939 > Create static route

Create static route info

Add a static route to your transit gateway route table.

Details

Transit gateway ID: tgw-08c5eb41bf661444e
Transit gateway route table ID: tgw-rtb-07fe4321458b1f939

CIDR info

172.31.0.0/16

Type info

Active (radio button selected)
Blackhole

Choose attachment

tgw-attach-0fb0083169ca71a4

Actions

Create static route

aws | Search [Option+S] | United States (N. California) | Cybrixio Admin

Aurora and RDS | DynamoDB | Lambda | S3 | Route 53 | API Gateway | Activate for Startups | Aurora DSQL | EC2 | Amazon Bedrock | VPC | Database Migration Service | Amazon Redshift | AWS Glue

VPC dashboard

Static route was created successfully.

Transit gateway route tables (1/1) info

Find transit gateway route table by attribute or tag

Name	Transit gateway route table ID	Transit gateway ID	State	Default association route table
tgw-rtb-07fe4321458b1f939	tgw-08c5eb41bf661444e	tgw-08c5eb41bf661444e	Available	Yes

Transit gateway route tables: tgw-rtb-07fe4321458b1f939

Routes (2) info

Find route by attribute or tag

CIDR	Attachment ID	Resource ID	Resource type	Route type	Route state
172.31.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-09fcad83501f16313	Peering	Static	Active
172.41.0.0/16	tgw-attach-0064f0317ded73e16	vpc-00d41f2f634572ffa	VPC	Propagated	Active

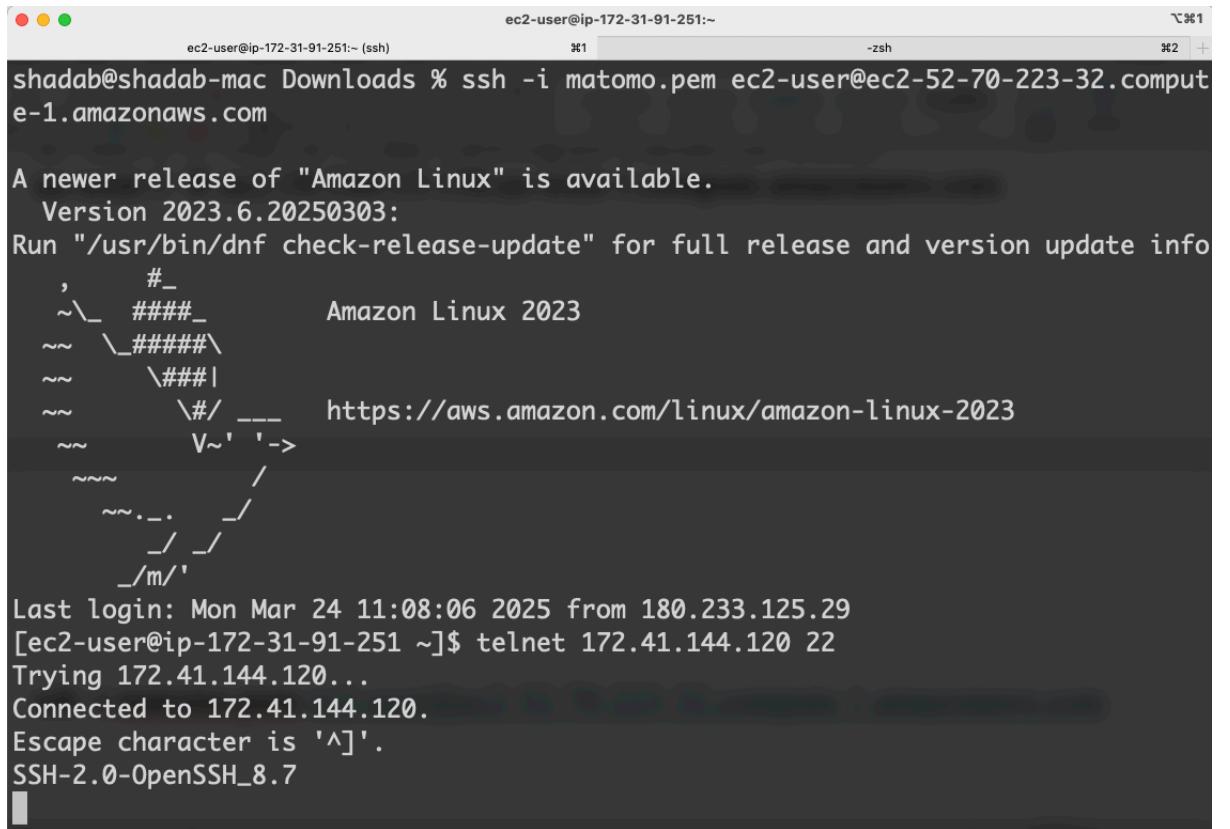
Create an Instance in us-west-2 and test connectivity to Instance in us-east-1

us-east-1 → ec2-52-70-223-32.compute-1.amazonaws.com
us-west-1 → ec2-18-144-13-158.us-west-1.compute.amazonaws.com

From us-east-1 Instance :

ssh -i matomo.pem ec2-user@ec2-52-70-223-32.compute-1.amazonaws.com

telnet 172.41.144.120 22

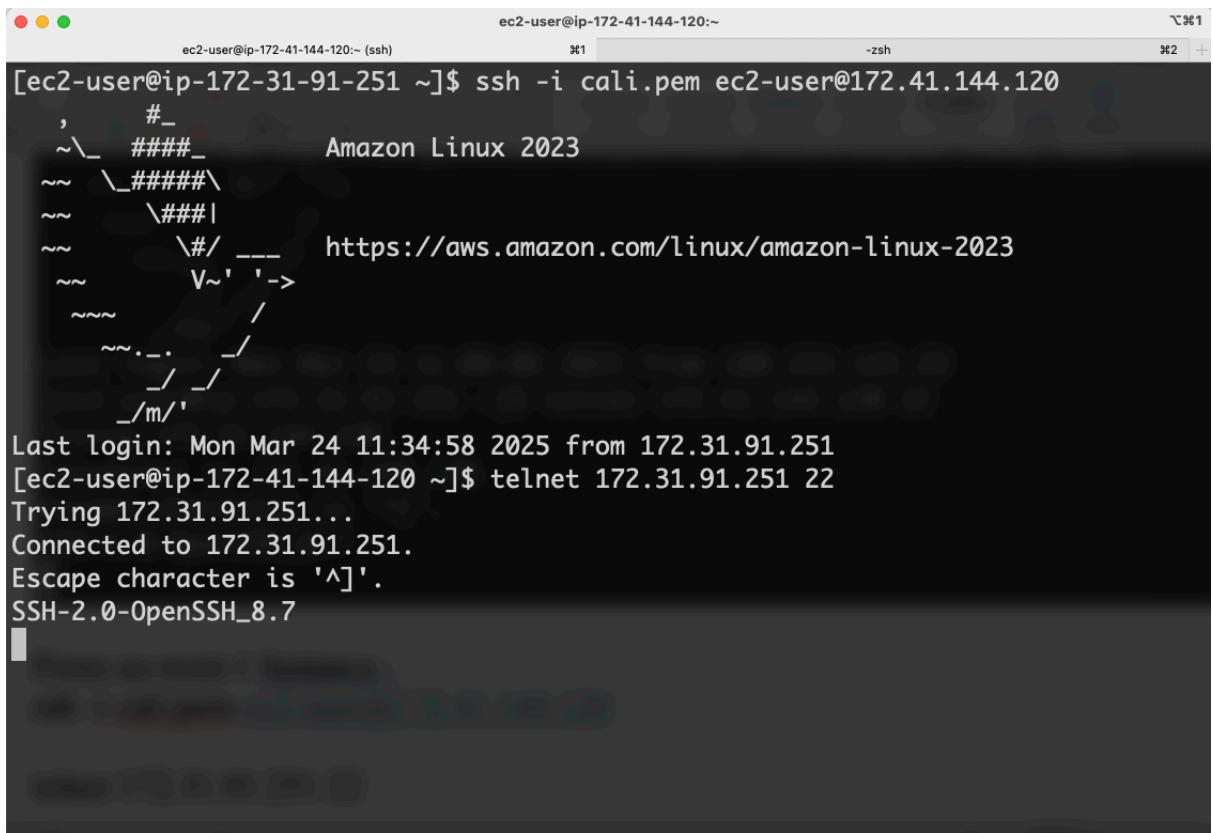


```
ec2-user@ip-172-31-91-251:~ (ssh) ec2-user@ip-172-31-91-251:~ -zsh %1 %2 +  
shadab@shadab-mac Downloads % ssh -i matomo.pem ec2-user@ec2-52-70-223-32.compute-1.amazonaws.com  
  
A newer release of "Amazon Linux" is available.  
Version 2023.6.20250303:  
Run "/usr/bin/dnf check-release-update" for full release and version update info  
, #_  
~\_\_ #####_ Amazon Linux 2023  
~~ \#####\_  
~~ \###|  
~~ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2023  
~~ V~' '-->  
~~~ /  
~~_._. /  
~/_/  
~/m/'  
Last login: Mon Mar 24 11:08:06 2025 from 180.233.125.29  
[ec2-user@ip-172-31-91-251 ~]$ telnet 172.41.144.120 22  
Trying 172.41.144.120...  
Connected to 172.41.144.120.  
Escape character is '^]'.  
SSH-2.0-OpenSSH_8.7
```

From us-west-1 Instance :

ssh -i cali.pem ec2-user@172.41.144.120

telnet 172.31.91.251 22



```
ec2-user@ip-172-41-144-120:~ ec2-user@ip-172-41-144-120:~ -zsh
[ec2-user@ip-172-31-91-251 ~]$ ssh -i cali.pem ec2-user@172.41.144.120
,      #
~\_ ####_      Amazon Linux 2023
~~ \####\h
~~ \###l
~~ \#/ ___  https://aws.amazon.com/linux/amazon-linux-2023
~~ V~' '-->
~~~ /
~~.._/_/
~/_/
~/m/' Last login: Mon Mar 24 11:34:58 2025 from 172.31.91.251
[ec2-user@ip-172-41-144-120 ~]$ telnet 172.31.91.251 22
Trying 172.31.91.251...
Connected to 172.31.91.251.
Escape character is '^]'.
SSH-2.0-OpenSSH_8.7
```

As we can see both us-east-1 and us-west-1 VPC's are able to communicate with each other.

Our next step is now to enable us-west-1 VPC to talk to OCI Regions Sydney and Melbourne VCN's

*AWS us-east-1 Instance IP : 172.31.91.251
AWS us-west-1 Instance IP : 172.41.144.120
OCI Sydney VM : 10.100.1.35
OCI Melbourne VM : 10.200.2.250*

If you check the IPSec VPN tunnel Route propagation in OCI us-ashburn-1 which is the point where the IPSec Tunnel from AWS us-east-1 is connected, you can see both the VPC CIDR's published due to BGP and the Static Route added in AWS TRG Route Table

Cloud Search resources, services, documentation, and Marketplace Australia East (Sydney)                                         <img alt="Cloud icon" data-bbox="1000 1

Screenshot of the AWS VPC console showing the Transit gateway route table details for tgw-rtb-07fe4321458b1f939. The 'Associations' tab is selected, showing two associations with Peering and VPC attachments. A context menu is open on the right, with 'Create static route' highlighted.

Details

- Transit gateway route table ID: tgw-rtb-07fe4321458b1f939
- Transit gateway ID: tgw-08c5eb41bf661444e
- State: Available

Associations (2)

Attachment ID	Resource type	Resource ID	State
tgw-attach-0fb0083169ca71a4	Peering	tgw-09fcad83501f16313	Associated
tgw-attach-0064f0317ded73e16	VPC	vpc-00d41f2f634572ff	Associated

Screenshot of the 'Create static route' dialog for tgw-rtb-07fe4321458b1f939. The 'CIDR' field is set to 10.100.0.0/16. The 'Type' is set to Active. The 'Choose attachment' dropdown shows tgw-attach-0fb0083169ca71a4.

Create static route

Add a static route to your transit gateway route table.

Details

Transit gateway ID: tgw-08c5eb41bf661444e

Transit gateway route table ID: tgw-rtb-07fe4321458b1f939

CIDR: 10.100.0.0/16

Type: Active

Choose attachment: tgw-attach-0fb0083169ca71a4

Create static route

Screenshot of the 'Create static route' dialog for tgw-rtb-07fe4321458b1f939. The 'CIDR' field is set to 10.200.0.0/16. The 'Type' is set to Active. The 'Choose attachment' dropdown shows tgw-attach-0fb0083169ca71a4.

Create static route

Add a static route to your transit gateway route table.

Details

Transit gateway ID: tgw-08c5eb41bf661444e

Transit gateway route table ID: tgw-rtb-07fe4321458b1f939

CIDR: 10.200.0.0/16

Type: Active

Choose attachment: tgw-attach-0fb0083169ca71a4

Create static route

VPC dashboard <

Associations | Propagations | Prefix list references | **Routes** | Tags

▼ Filter routes by CIDR (2)

Exact CIDR: 0.0.0.0/0, ::/0

Longest prefix match: 0.0.0.0, ::/0

Supernet of match: 0.0.0.0/0, ::/0

Subnet of match: 0.0.0.0/0, ::/0

Routes (4) info

CIDR	Attachment ID	Resource ID	Resource type	Route type	Route state
10.100.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-09fcad83501f16313	Peering	Static	Active
10.200.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-09fcad83501f16313	Peering	Static	Active
172.31.0.0/16	tgw-attach-0fb0083169ca71a4	tgw-09fcad83501f16313	Peering	Static	Active
172.41.0.0/16	tgw-attach-0064f0317ded73e16	vpc-00d41f2f634572ffa	VPC	Propagated	Active

Add 10.100.0.0/16 and 10.200.0.0/16 OCI VCN CIDR to us-west-1 VPC (172.41.0.0/16) Route Table

VPC dashboard <

rtb-0b8554b45e88b8831 / California-VPC-rtb-private2-us-west-1b

Details

Main: No

Owner ID: 241526791455

Explicit subnet associations: subnet-046d573fd4ee2935 / California-VPC-subnet-private2-us-west-1b

Edge associations: -

Routes (3)

Destination	Target	Status	Propagated
pl-6ba54002	vpc-08a18b2c75046a659	Active	No
172.31.0.0/16	tgw-08c5eb41bf661444e	Active	No
172.41.0.0/16	local	Active	No

Edit routes

Destination	Target	Status	Propagated
pl-6ba54002	vpc-08a18b2c75046a659	Active	No
172.41.0.0/16	local	Active	No
172.31.0.0/16	Transit Gateway	Active	No
10.100.0.0/16	tgw-08c5eb41bf661444e	-	No
10.200.0.0/16	Transit Gateway	-	No
	tgw-08c5eb41bf661444e	-	No

Add route

Cancel | Preview | Save changes

aws Search [Option+S] United States (N. California) Cybryxio Admin

VPC > Route tables > rtb-0b8554b45e88b8831

VPC dashboard

EC2 Global View Filter by VPC

Virtual private cloud

Your VPCs Subnets

Route tables

Internet gateways Egress-only internet gateways DHCP option sets Elastic IPs Managed prefix lists NAT gateways Peering connections

Security

Network ACLs

Updated routes for rtb-0b8554b45e88b8831 / California-VPC-rtb-private2-us-west-1b successfully

Details

VPC vpc-00d41f2f634572ffa | California-VPC-rtb-private2-us-west-1b

Owner ID 241526791455

Routes Subnet associations Edge associations Route propagation Tags

Routes (5)

Destination	Target	Status	Propagated
pl-6ba54002	vpc-08a18b2c75046a659	Active	No
10.100.0.0/16	tgw-08c5eb41bf661444e	Active	No
10.200.0.0/16	tgw-08c5eb41bf661444e	Active	No
172.31.0.0/16	tgw-08c5eb41bf661444e	Active	No
172.41.0.0/16	local	Active	No

rtb-0f6a5581c14f21db3 / California-VPC-rtb-private1-us-west-1a

Actions

Details **Info**

Route table ID rtb-0f6a5581c14f21db3

Main No

VPC vpc-00d41f2f634572ffa | California-VPC-rtb-private1-us-west-1a

Owner ID 241526791455

Explicit subnet associations subnet-00556ca9564971b697 / California-VPC-subnet-private1-us-west-1a

Edge associations -

Routes Subnet associations Edge associations Route propagation Tags

Routes (3)

Destination	Target	Status	Propagated
pl-6ba54002	vpc-08a18b2c75046a659	Active	No
172.31.0.0/16	tgw-08c5eb41bf661444e	Active	No
172.41.0.0/16	local	Active	No

Edit routes

Destination **Target** **Status** **Propagated**

pl-6ba54002	vpc-08a18b2c75046a659	Active	No
172.41.0.0/16	local	Active	No
172.31.0.0/16	Transit Gateway	Active	No
10.100.0.0/16	Transit Gateway	-	No
10.200.0.0/16	Transit Gateway	-	No

Add route **Cancel** **Preview** **Save changes**

The screenshot shows the AWS VPC Route Tables page. At the top, a green banner indicates "Updated routes for rtb-0f6a5581c14f21db3 / California-VPC-rtb-private1-us-west-1a successfully". Below this, the "Routes" tab is selected in the navigation bar. The main table displays five routes:

Destination	Target	Status	Propagated
pl-6ba54002	vpc-08a18b2c75046a59	Active	No
10.100.0.0/16	tgw-08c5eb41bf661444e	Active	No
10.200.0.0/16	tgw-08c5eb41bf661444e	Active	No
172.31.0.0/16	tgw-08c5eb41bf661444e	Active	No
172.41.0.0/16	local	Active	No

Now add the AWS VPC new CIDR 172.41.0.0/16 to both OCI regions VCN's Route tables

In OCI Sydney VCN in both Route tables

The screenshot shows the OCI Route Table Information page for the first VCN. The "Route Rules" section shows three rules:

Destination	Target Type	Target	Route Type	Description
10.200.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	
172.31.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	
172.41.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	

The screenshot shows the OCI Route Table Information page for the second VCN. The "Route Rules" section shows four rules:

Destination	Target Type	Target	Route Type	Description
0.0.0.0/0	Internet Gateway	Internet Gateway-Shadabshaukat-VCN	Static	
10.200.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	
172.31.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	
172.41.0.0/16	Dynamic Routing Gateways	Shadab-DRG	Static	

In OCI Melbourne VCN in both Route tables

Route Rules

Destination	Target Type	Target	Route Type	Description
0.0.0.0/0	NAT Gateway	NAT gateway-VCN-MELB	Static	
10.100.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	
172.31.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	
172.41.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	
All MEL Services In Oracle Services Network	Service Gateway	Service gateway-VCN-MELB	Static	

Route Rules

Destination	Target Type	Target	Route Type	Description
0.0.0.0/0	Internet Gateway	Internet gateway-VCN-MELB	Static	
10.100.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	
172.31.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	
172.41.0.0/16	Dynamic Routing Gateways	MEL-DRG	Static	

Make sure your Security list on OCI VCNs in Sydney and Melbourne allows port 22 connection from both AWS VPC CIDRs

No	10.200.0.0/16	TCP	All	22	ports: 22 SSH Remote Login Protocol
No	0.0.0.0/0	ICMP		3, 4	ICMP traffic for: 3.4 Destination Unreachable; Fragmentation Needed and Don't Fragment was Set
No	10.200.0.0/16	ICMP		3	ICMP traffic for: 3 Destination Unreachable
No	172.31.0.0/16	TCP	All	22	TCP traffic for ports: 22 SSH Remote Login Protocol
No	172.41.0.0/16	TCP	All	22	TCP traffic for ports: 22 SSH Remote Login Protocol
No	10.100.0.0/16	TCP	All	22	TCP traffic for ports: 22 SSH Remote Login Protocol

Now Lets do a connectivity test from each instance in 1 AWS region to other regions in OCI and repeat for all regions in both AWS and OCI.

AWS us-east-1 Instance IP : 172.31.91.251
AWS us-west-1 Instance IP : 172.41.144.120
OCI Sydney VM : 10.100.1.35
OCI Melbourne VM : 10.200.2.250

From AWS us-east-1 Instance IP : 172.31.91.251 to :
AWS us-west-1 Instance IP : 172.41.144.120
[ec2-user@ip-172-31-91-251 ~]\$ telnet 172.41.144.120 22
Trying 172.41.144.120...
Connected to 172.41.144.120.
Escape character is '^J'.
SSH-2.0-OpenSSH_8.7

OCI Sydney VM : 10.100.1.35
[ec2-user@ip-172-31-91-251 ~]\$ telnet 10.100.1.35 22
Trying 10.100.1.35...
Connected to 10.100.1.35.
Escape character is '^J'.
SSH-2.0-OpenSSH_8.0

OCI Melbourne VM : 10.200.2.250
[ec2-user@ip-172-31-91-251 ~]\$ telnet 10.200.2.250 22
Trying 10.200.2.250...
Connected to 10.200.2.250.
Escape character is '^J'.
SSH-2.0-OpenSSH_8.0

From AWS us-west-1 Instance IP : 172.41.144.120 to :
AWS us-east-1 Instance IP : 172.31.91.251
[ec2-user@ip-172-41-144-120 ~]\$ telnet 172.31.91.251 22
Trying 172.31.91.251...
Connected to 172.31.91.251.
Escape character is '^J'.
SSH-2.0-OpenSSH_8.7

OCI Sydney VM : 10.100.1.35
[ec2-user@ip-172-41-144-120 ~]\$ telnet 10.100.1.35 22
Trying 10.100.1.35...
Connected to 10.100.1.35.
Escape character is '^J'.
SSH-2.0-OpenSSH_8.0

OCI Melbourne VM : 10.200.2.250
[ec2-user@ip-172-41-144-120 ~]\$ telnet 10.200.2.250 22
Trying 10.200.2.250...

*Connected to 10.200.2.250.
Escape character is '^J'.
SSH-2.0-OpenSSH_8.0*

*From OCI Sydney VM : 10.100.1.35 to :
AWS us-east-1 Instance IP : 172.31.91.251*
[opc@ords-secondary ~]\$ curl -v telnet://172.31.91.251:22
* Rebuilt URL to: telnet://172.31.91.251:22/
* Trying 172.31.91.251...
* TCP_NODELAY set
* Connected to 172.31.91.251 (172.31.91.251) port 22 (#0)

AWS us-west-1 Instance IP : 172.41.144.120
[opc@ords-secondary ~]\$ curl -v telnet://172.41.144.120:22
* Rebuilt URL to: telnet://172.41.144.120:22/
* Trying 172.41.144.120...
* TCP_NODELAY set
* Connected to 172.41.144.120 (172.41.144.120) port 22 (#0)

OCI Melbourne VM : 10.200.2.250
[opc@ords-secondary ~]\$ curl -v telnet://10.200.2.250:22
* Rebuilt URL to: telnet://10.200.2.250:22/
* Trying 10.200.2.250...
* TCP_NODELAY set
* Connected to 10.200.2.250 (10.200.2.250) port 22 (#0)
SSH-2.0-OpenSSH_8.0

*From OCI Melbourne VM : 10.200.2.250 to :
AWS us-east-1 Instance IP : 172.31.91.251*
[opc@instance-20250324-2246 ~]\$ curl -v telnet://172.31.91.251:22
* Rebuilt URL to: telnet://172.31.91.251:22/
* Trying 172.31.91.251...
* TCP_NODELAY set
* Connected to 172.31.91.251 (172.31.91.251) port 22 (#0)

AWS us-west-1 Instance IP : 172.41.144.120
[opc@instance-20250324-2246 ~]\$ curl -v telnet://172.41.144.120:22
* Rebuilt URL to: telnet://172.41.144.120:22/
* Trying 172.41.144.120...
* TCP_NODELAY set
* Connected to 172.41.144.120 (172.41.144.120) port 22 (#0)

OCI Sydney VM : 10.100.1.35
[opc@instance-20250324-2246 ~]\$ curl -v telnet://10.100.1.35:22
* Rebuilt URL to: telnet://10.100.1.35:22/
* Trying 10.100.1.35...
* TCP_NODELAY set
* Connected to 10.100.1.35 (10.100.1.35) port 22 (#0)

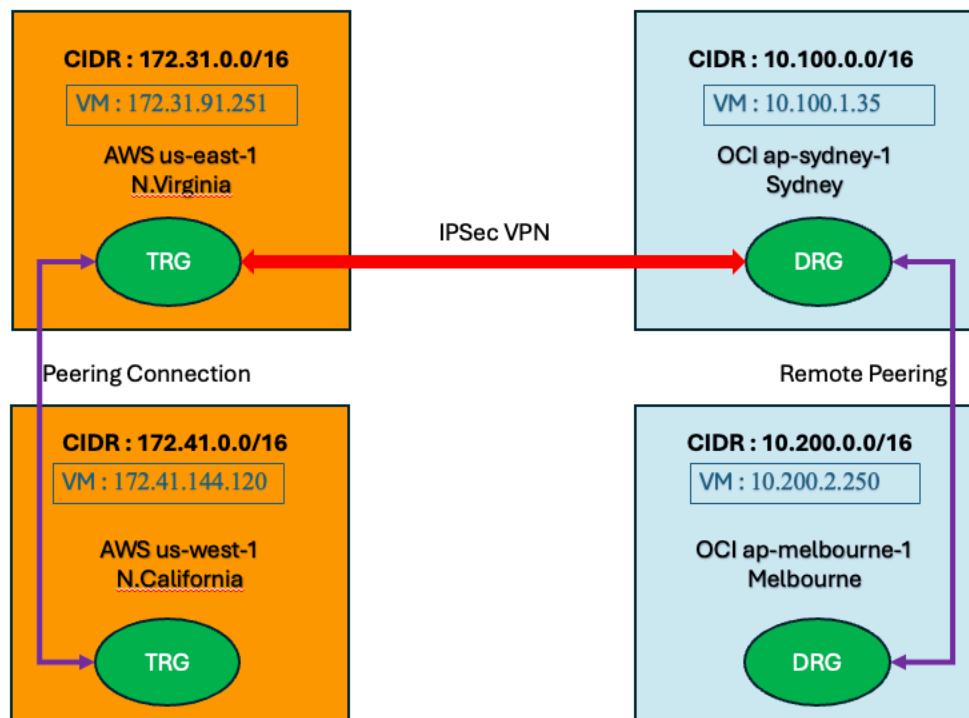
Connectivity Tests:

Source Instance	Destination Instance	Test Method	Result
AWS us-east-1 (172.31.91.251)	OCI Sydney (10.100.1.35)	SSH/Telnet	✓ Pass
AWS us-east-1 (172.31.91.251)	OCI Melbourne (10.200.2.250)	SSH/Telnet	✓ Pass
AWS us-west-1 (172.41.144.120)	OCI Sydney (10.100.1.35)	SSH/Telnet	✓ Pass
AWS us-west-1 (172.41.144.120)	OCI Melbourne (10.200.2.250)	SSH/Telnet	✓ Pass
OCI Sydney (10.100.1.35)	AWS us-east-1 (172.31.91.251)	SSH/Telnet	✓ Pass
OCI Sydney (10.100.1.35)	AWS us-west-1 (172.41.144.120)	SSH/Telnet	✓ Pass
OCI Melbourne (10.200.2.250)	AWS us-east-1 (172.31.91.251)	SSH/Telnet	✓ Pass
OCI Melbourne (10.200.2.250)	AWS us-west-1 (172.41.144.120)	SSH/Telnet	✓ Pass

SUMMARY

We've now created routing and connection over port 22 from all regions in AWS(x2) to all regions in OCI (x2) using Transit Routing Gateway in AWS and Dynamic Routing Gateway in OCI.

TRG are paired with Peering connections; DRG are paired with Remote Peering Connection. IPSec Tunnel in OCI has Import Route Distribution Added for the IPSec Tunnel connection. AWS TRG has Route Table Static routes added for OCI and other AWS region.



All the route rules, security group, security list in this Whitepaper for both AWS and OCI is only tested for port 22. For any other ports ensure you add the required tcp or udp ports in each of the security groups in AWS and security list in OCI.

Conclusion

This whitepaper outlines an extendable multi-cloud routing architecture integrating AWS Transit Gateway and OCI DRG. By leveraging site-to-site VPNs, dynamic BGP routing, and remote peering connections, enterprises can achieve scalable and secure connectivity across multiple AWS and OCI regions.

This solution provides the following benefits:

- **Scalability:** Extendable to additional regions and VPCs.
- **Security:** Encrypted connectivity using IPSec VPN.
- **Resilience:** High availability with redundant tunnels and peering.
- **Operational Efficiency:** Centralized routing management across multiple cloud regions.

REFERENCES

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