



Connectivity - FastConnect

Level 200

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Oracle Cloud Infrastructure

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Safe harbor statement

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Objectives

After completing this lesson, you should be able to:

- FastConnect Use cases
- FastConnect Concepts
- Describe FastConnect Service Models

Direct to Oracle:

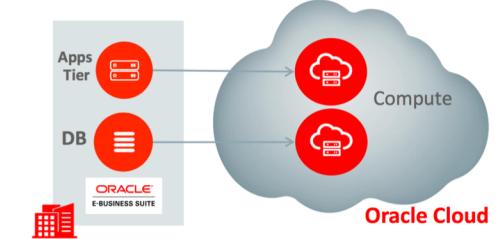
Datacenter Colocation (1a)

Dedicated Circuits from a 3rd Party Network Carrier (1b)

Using an Oracle Network Provider or Exchange Partner

- Pre-requisites: Connectivity – Level 100

Why do you need dedicated connectivity into cloud?



Latency sensitive enterprise applications

Applications with relational database especially vulnerable to latency and require predictable performance including backup, replication use cases

Big Data & High Performance Computing with data-transfer needs

Large data transfer (for example batch jobs or real-time queries) require high performance and low latency

Sensitive data that cannot traverse the public internet

Applications that contain sensitive data benefit from an extra level of privacy and isolation

Lift-and-shift to Cloud

Moving Web-App-DB tiers to Oracle Cloud needs dedicated network connectivity



FastConnect - Product Overview

FastConnect provides an easy, elastic, and economical way to create a dedicated and private connection with higher bandwidth options, and a more reliable and consistent networking experience when compared to internet-based connections

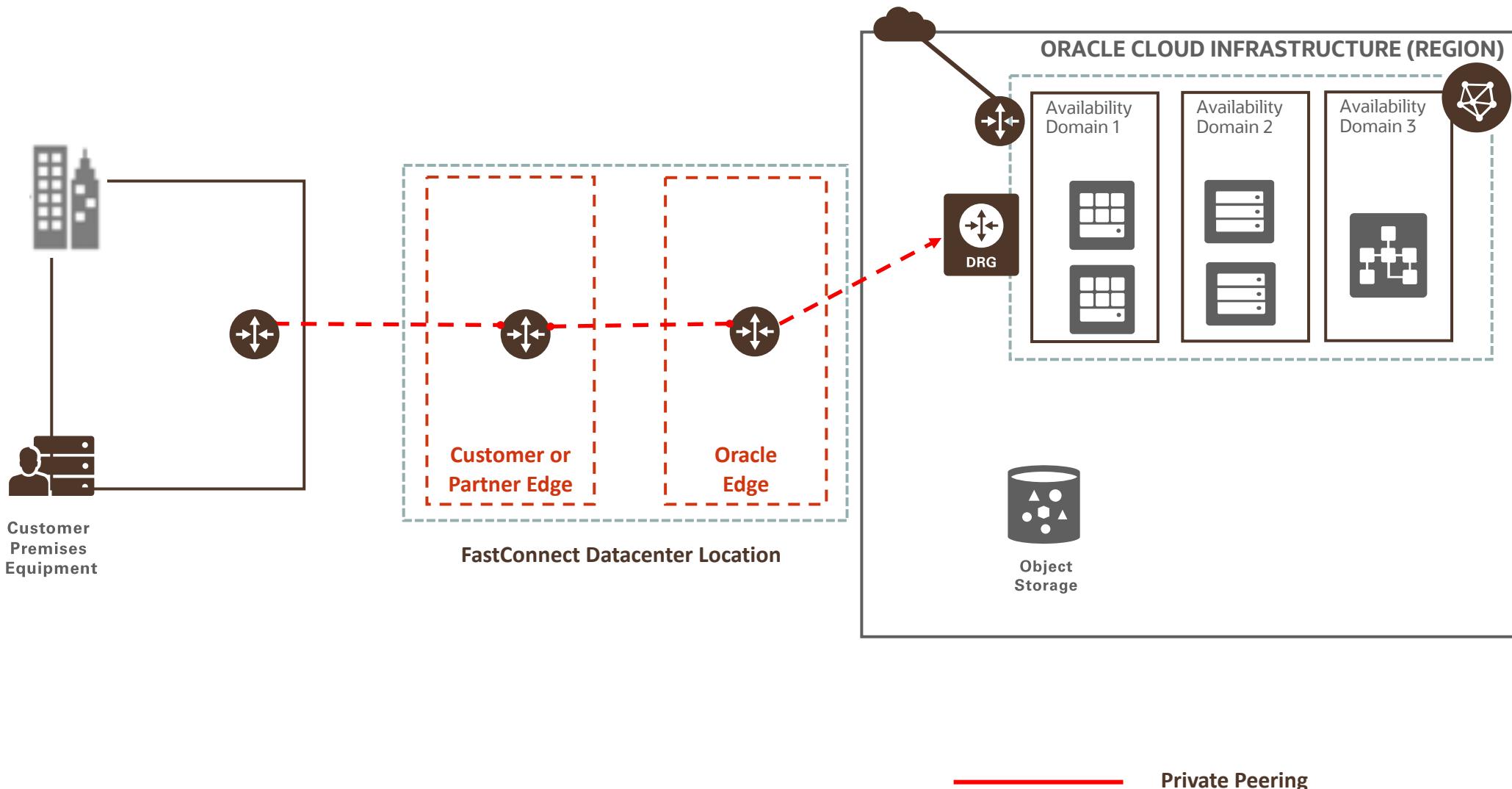
- Connect to OCI directly or via pre-integrated Network Partners
- 1Gbps and 10Gbps increments
- Extend remote datacenters into Oracle (“*Private peering*”) or connect to Public resources (“*Public peering*”)
- No charges for inbound/outbound data transfer
- Uses BGP protocol

FastConnect Use Cases

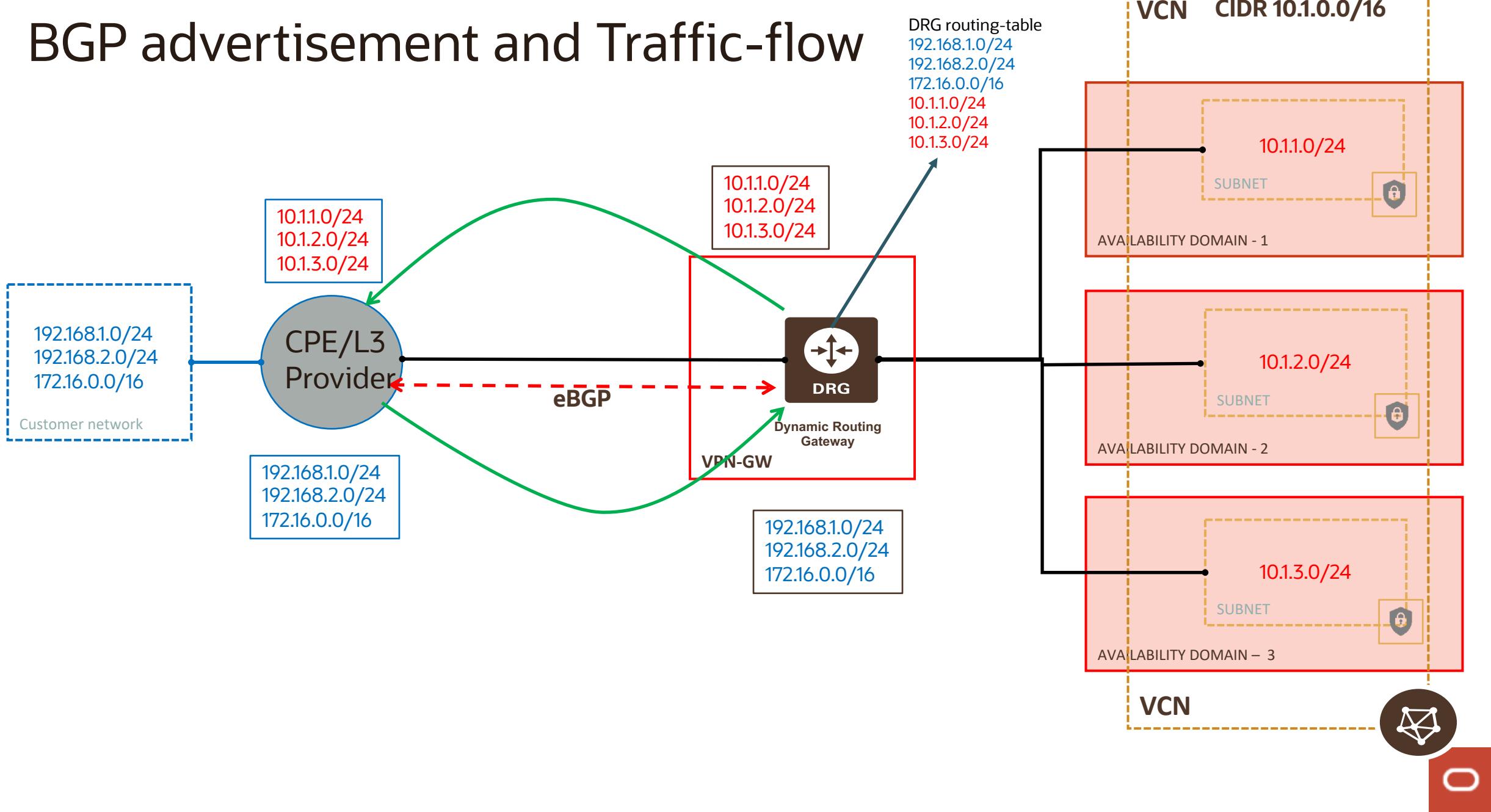
FastConnect Use Scenarios

- Private Peering
 - Extension of the on premise network to the OCI VCN
 - Communication across connection with private IP addresses
- Public Peering
 - To access public OCI services over dedicated FastConnect connection
 - Access Object storage, OCI Console or APIs
 - Communication across connection with public IP addresses

FastConnect (Private Connection)



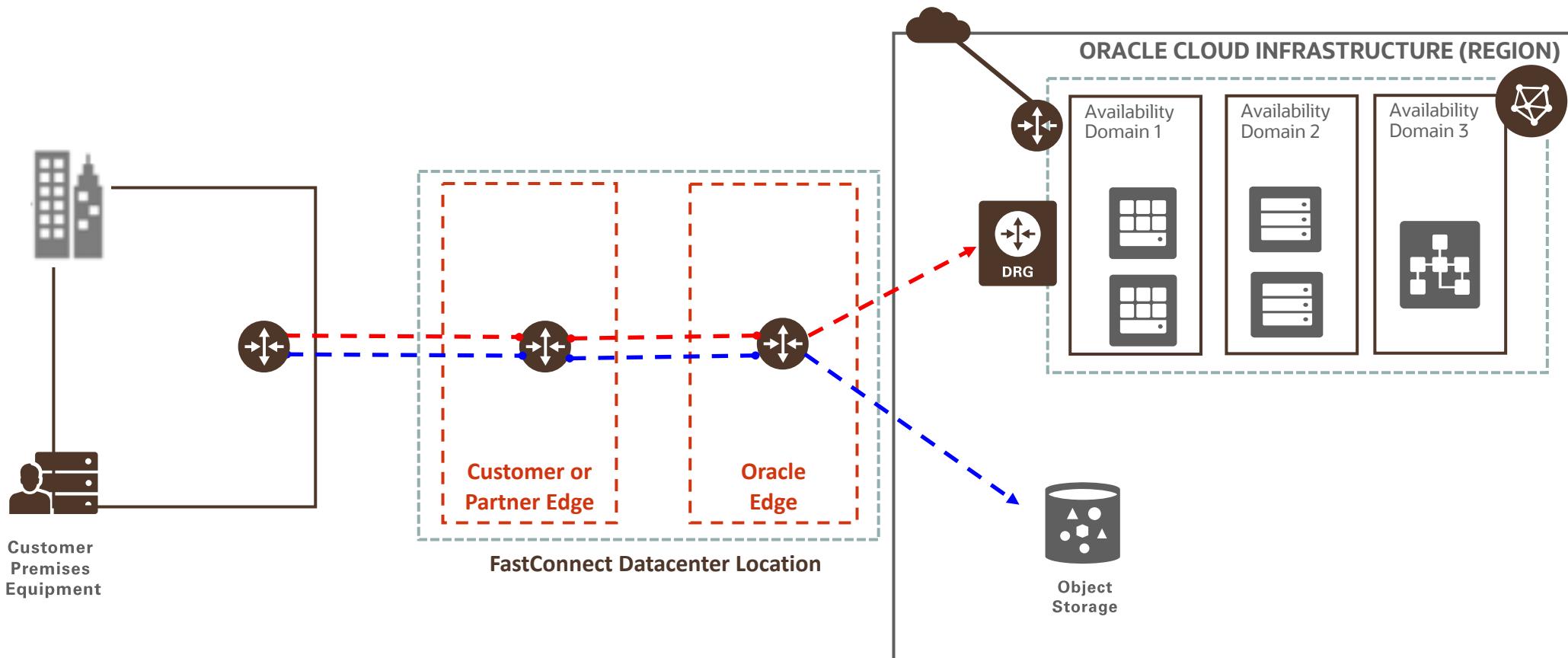
BGP advertisement and Traffic-flow



FastConnect Use Scenarios

- Private Peering
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 - Access Object storage, OCI Console or APIs
 - Communication across connection with public IP addresses

FastConnect (Public Peering Connection)



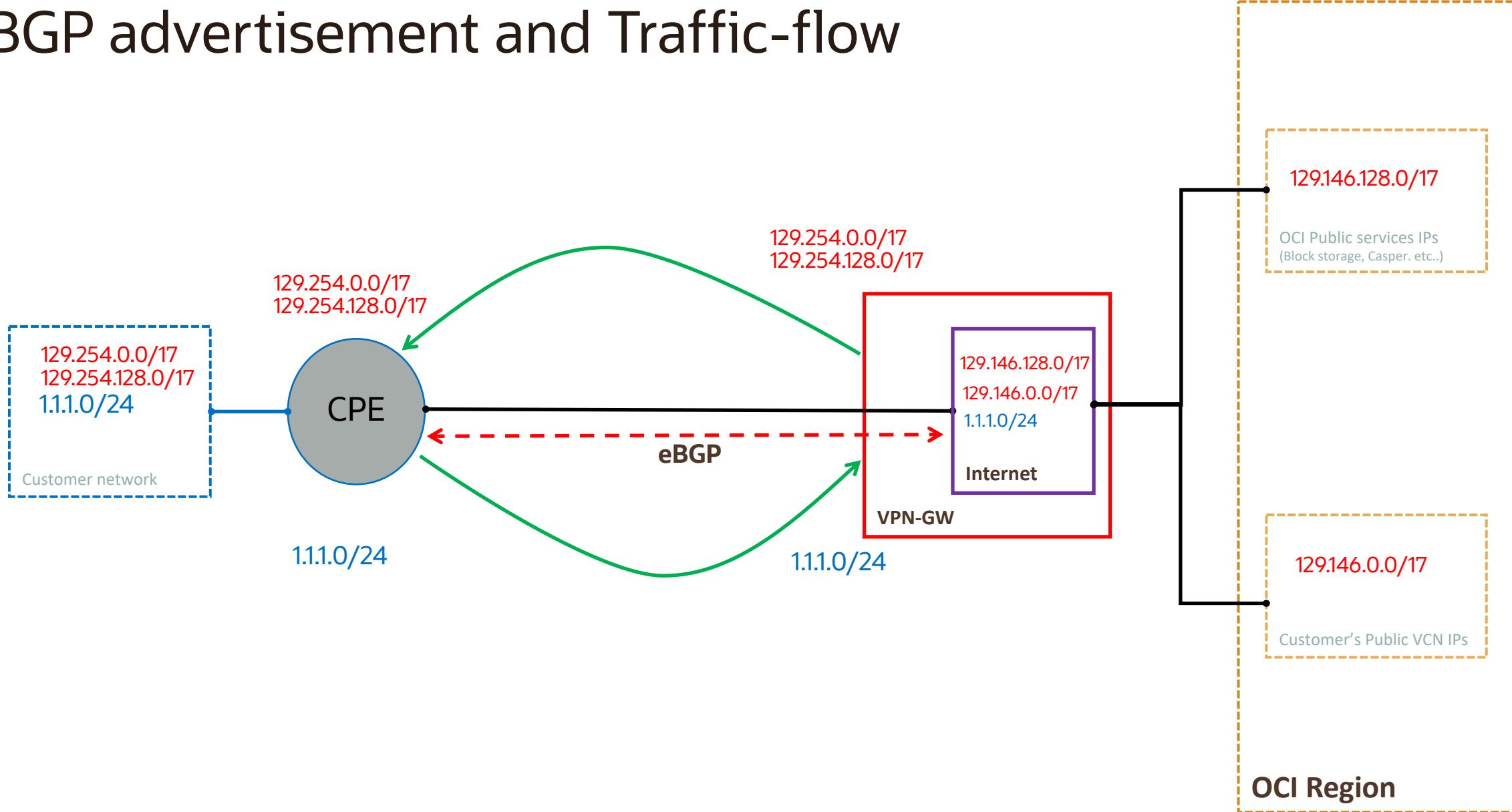
— Public Peering

— Private Peering

FastConnect (Public Peering Connection)

- You choose which of your organization's public IP prefixes you want to use with the virtual circuit. Each prefix must be /31 or less specific.
- Oracle verifies your organization's ownership of each prefix before sending any traffic for it across the connection.
- When configuring your edge for public peering, make sure to give higher preference to FastConnect over your ISP
- Oracle prefers the most specific route when routing traffic from Oracle Cloud Infrastructure to other destinations that means even if you have a IGW, replies to your verified public prefixes will go over the FastConnect connection.
- You can add or remove public IP prefixes at any time by editing the virtual circuit

BGP advertisement and Traffic-flow



Private and Public Peering

	FastConnect-Private	FastConnect-Public
Use case	To manage VCN resources privately	To access OCI's public service offering
Typical bandwidth	Higher bandwidth; increments of 1 Gbps, and 10 Gbps ports	Higher bandwidth; increments of 1 Gbps, and 10 Gbps ports
Protocols	BGP	BGP
Point-to-point IPs	Customer assigns IPs (/30 or /31)	Oracle assign IPs (/30 or /31)
Prefix-advertisement	OCI advertises VCN subnet routes	OCI advertises public VCN routes and public Services routes
Prefix-validation	Not needed	OCI does validation that prefixes are owed by customer or not
Prefix-limit	2000	200
BGP ASN	Any ASN	Public ASN

FastConnect Connectivity Models

Fast Connect Concepts

- **FastConnect location**
 - A specific Oracle data center where you can connect with Oracle Cloud Infrastructure.
- **Metro Area**
 - A geographical area (for example, Ashburn) with multiple FastConnect locations.
 - All locations in a metro area connect to the same set of availability domains for resiliency in case of failure in a single location.
- **Oracle provider**
 - A network service provider that has integrated with Oracle in a FastConnect location.
- **Third-party provider**
 - A network service provider that is NOT on the list of Oracle providers
- **Colocation**
 - The situation where your equipment is deployed into a FastConnect location.

Fast Connect Concepts contd..

- Cross-connect

In a colocation or third-party provider scenario, this is the physical cable connecting your existing network to Oracle in the FastConnect location.

- Cross-connect group

In a colocation or third-party provider scenario, this is a link aggregation group (LAG) that contains at least one cross-connect.

You can add additional cross-connects to a cross-connect group as your bandwidth needs increase. This is applicable only for colocation.

Fast Connect Concepts contd..(2)

- Virtual Circuit
 - A virtual circuit is an isolated network path that runs over one or more physical network connections to provide a single, logical connection between the customer's edge router and their DRG
 - Each virtual circuit is made up of information shared between the customer, Oracle, and a provider
 - The customer could have multiple virtual circuits to isolate traffic from different parts of their organization (e.g. one virtual circuit for 10.0.1.0/24; another for 172.16.0.0/16), or to provide redundancy
 - FastConnect uses Border Gateway Protocol (BGP) to exchange routing information between the various autonomous systems involved in the connection
 - With FastConnect, there are two scenarios for how the virtual circuit's BGP session is established (Layer 2 or Layer 3)

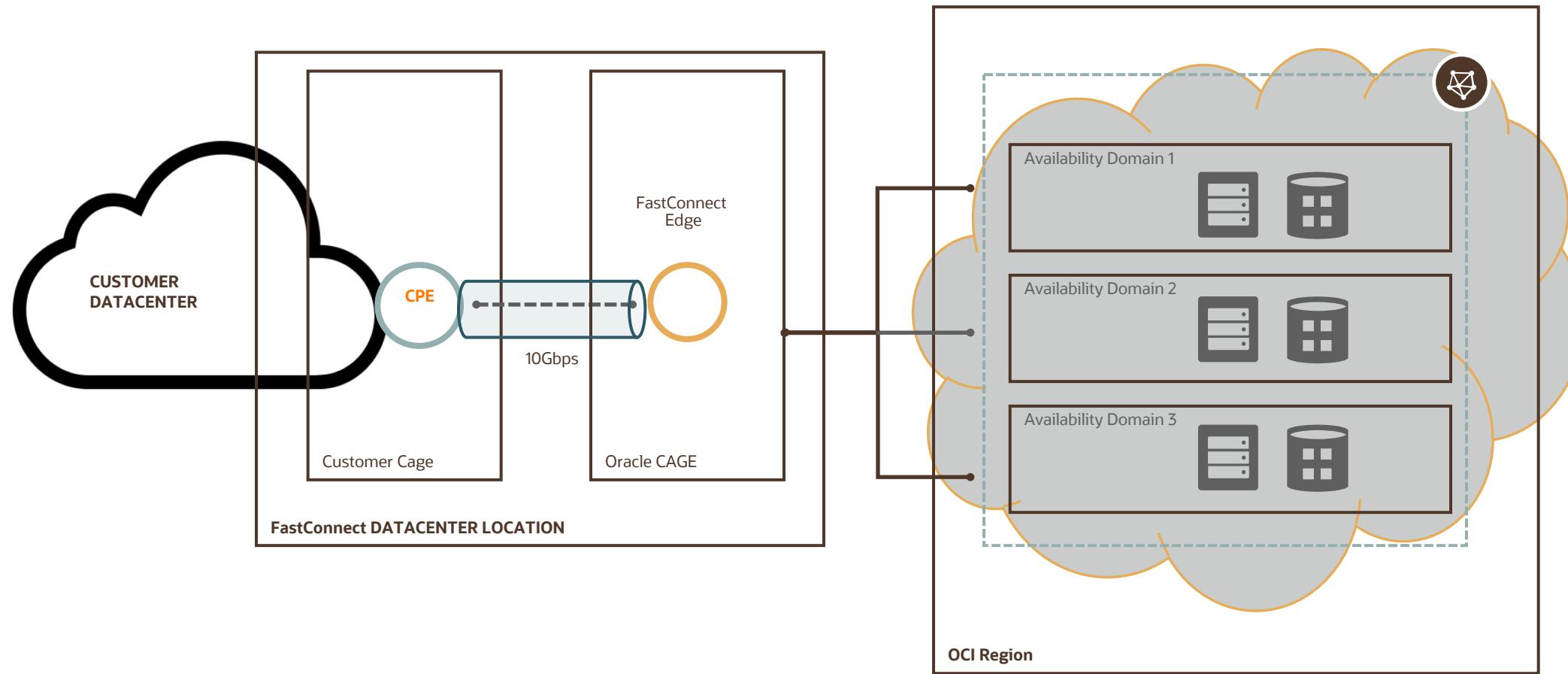
FastConnect Connectivity Options

Connectivity Models

- Direct to Oracle:
 - Datacenter Colocation (1a)
 - Dedicated Circuits from a 3rd Party Network Carrier (1b)
- Using an Oracle Network Provider or Exchange Partner

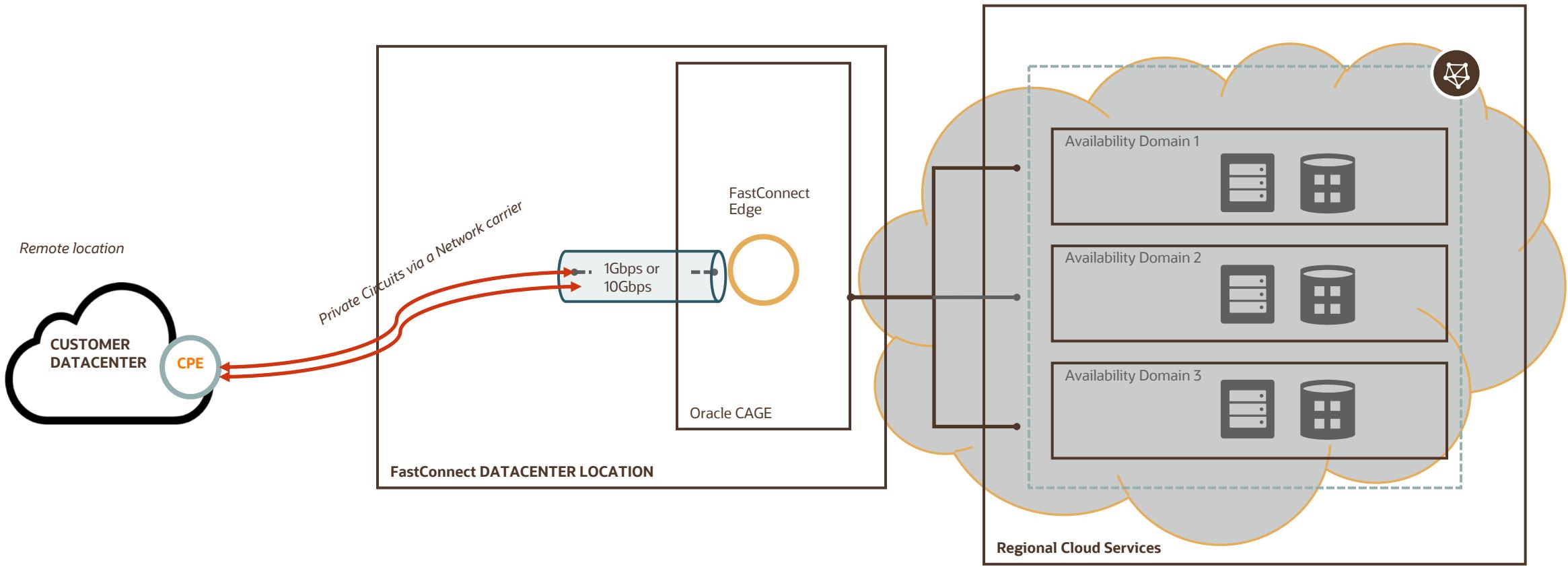
Direct to Oracle: Datacenter Colocation (1a)

Physical Connection:



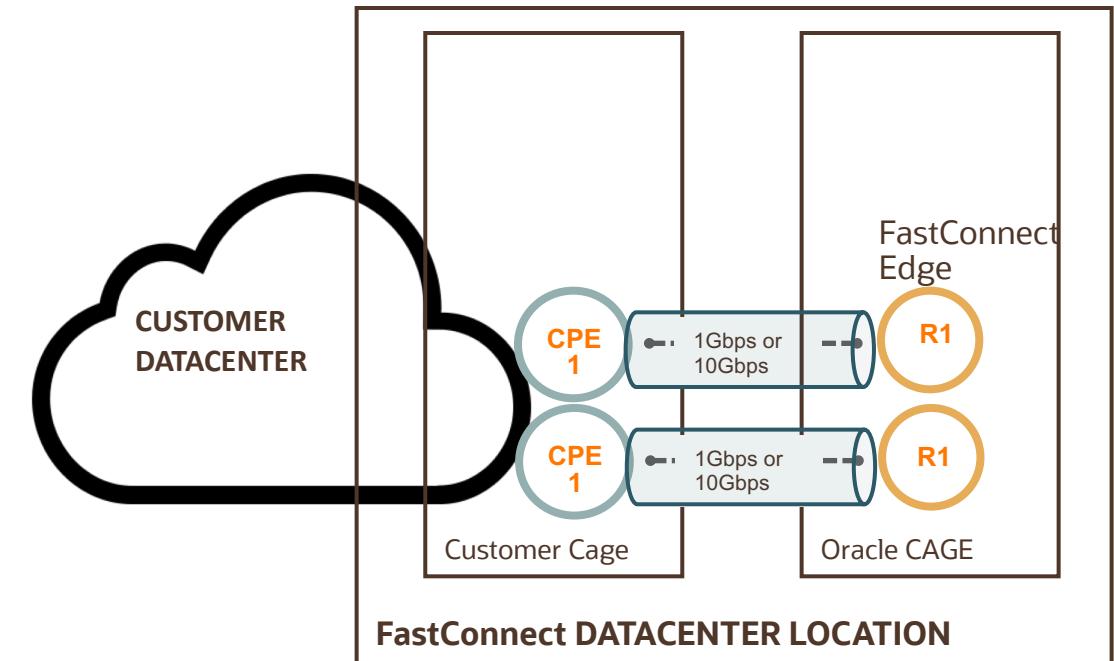
Direct to Oracle: Dedicated Circuits using a Network Service Provider (1b)

Physical Connection

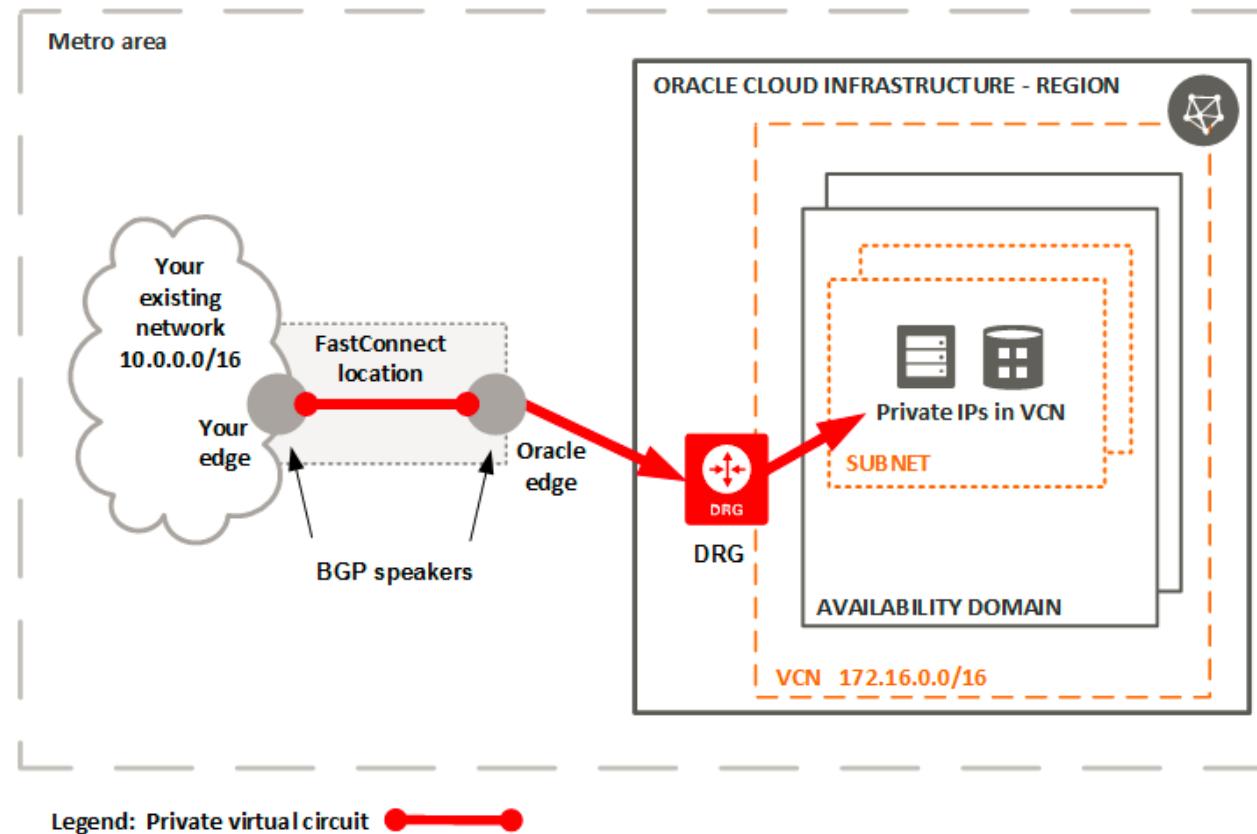


Cross Connects in Models 1a and 1b - Physical Connection

- In colocation model 1a and 1b
 - You can add additional cross-connects to a cross-connect group as your bandwidth needs increase such as 2x10G ports into a LAG.
 - When you create a Cross-Connect Group, the Cross-Connects are grouped together to form a Link Aggregation Group (LAG).
 - Can group up to 8 cross-connects in a cross-connect group. (8x10G if required)
 - In a cross-connect group, all ports are on the same router



Direct to Oracle Logical Connection - virtual circuit:



- A single, logical connection (virtual circuit) between your edge and Oracle Cloud Infrastructure by way of your Dynamic Routing Gateway. Traffic is destined for private IP addresses in your VCN.

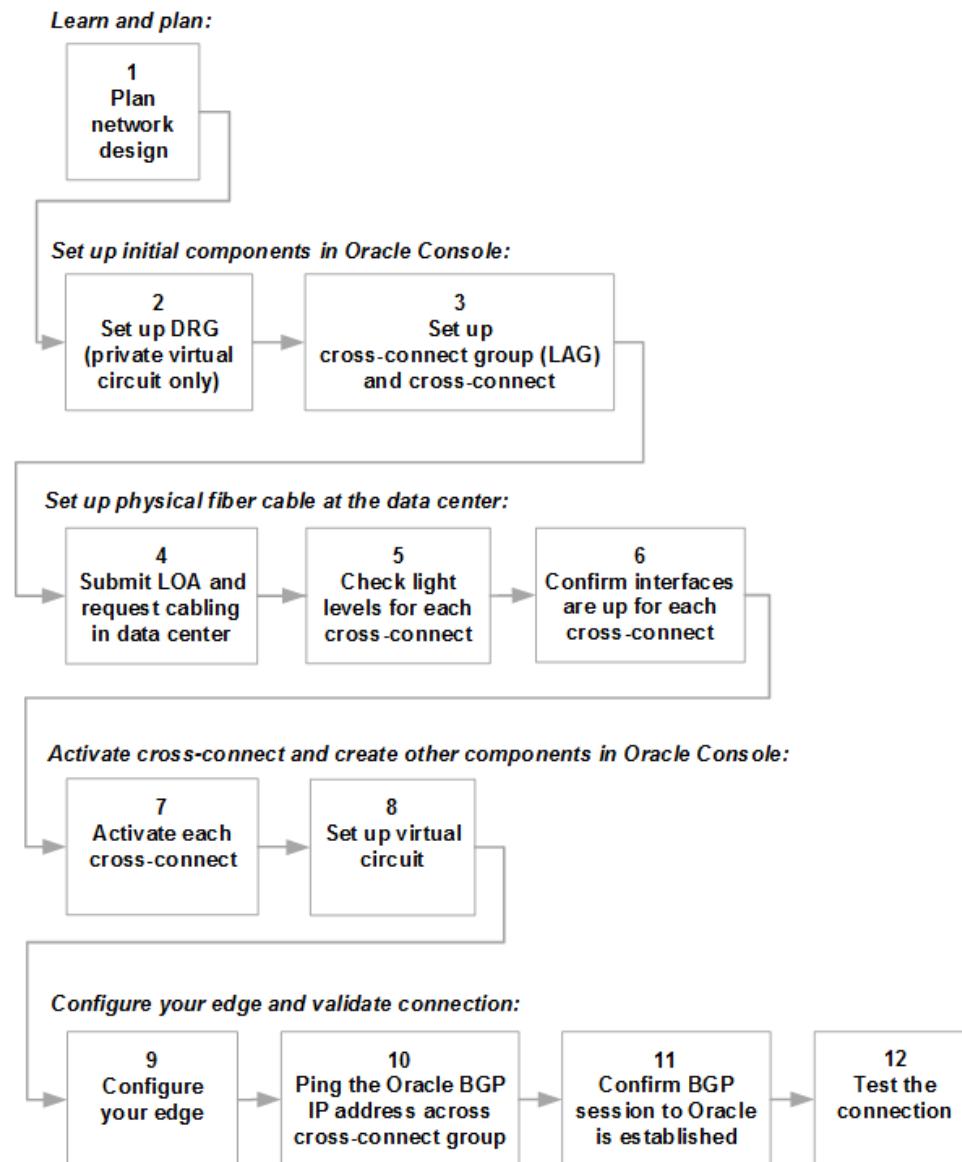


How to setup a FastConnect Virtual Circuit in Colocation Model?

Service Models

- Direct to Oracle:
 - Datacenter Colocation – 1a
 - Dedicated Circuits from a 3rd Party Network Carrier – 1b

How to setup a FastConnect Virtual Circuit in Colocation Model?



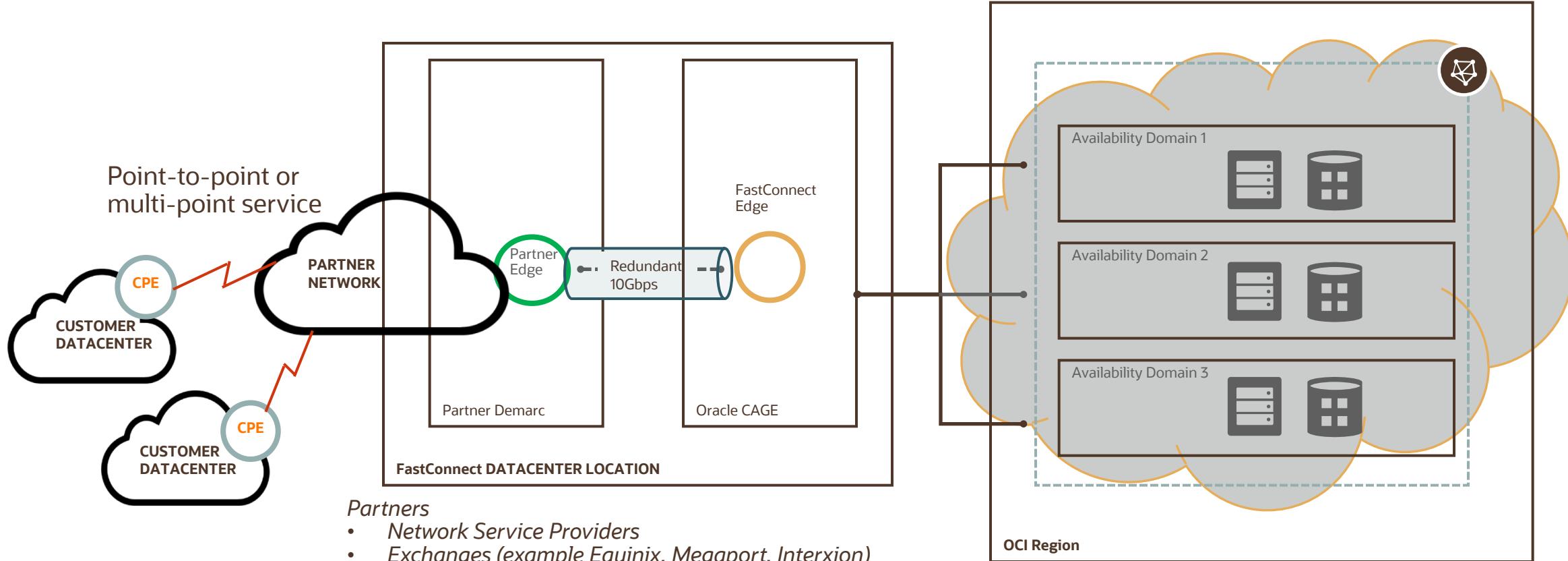
FastConnect Connectivity Options

Service Models

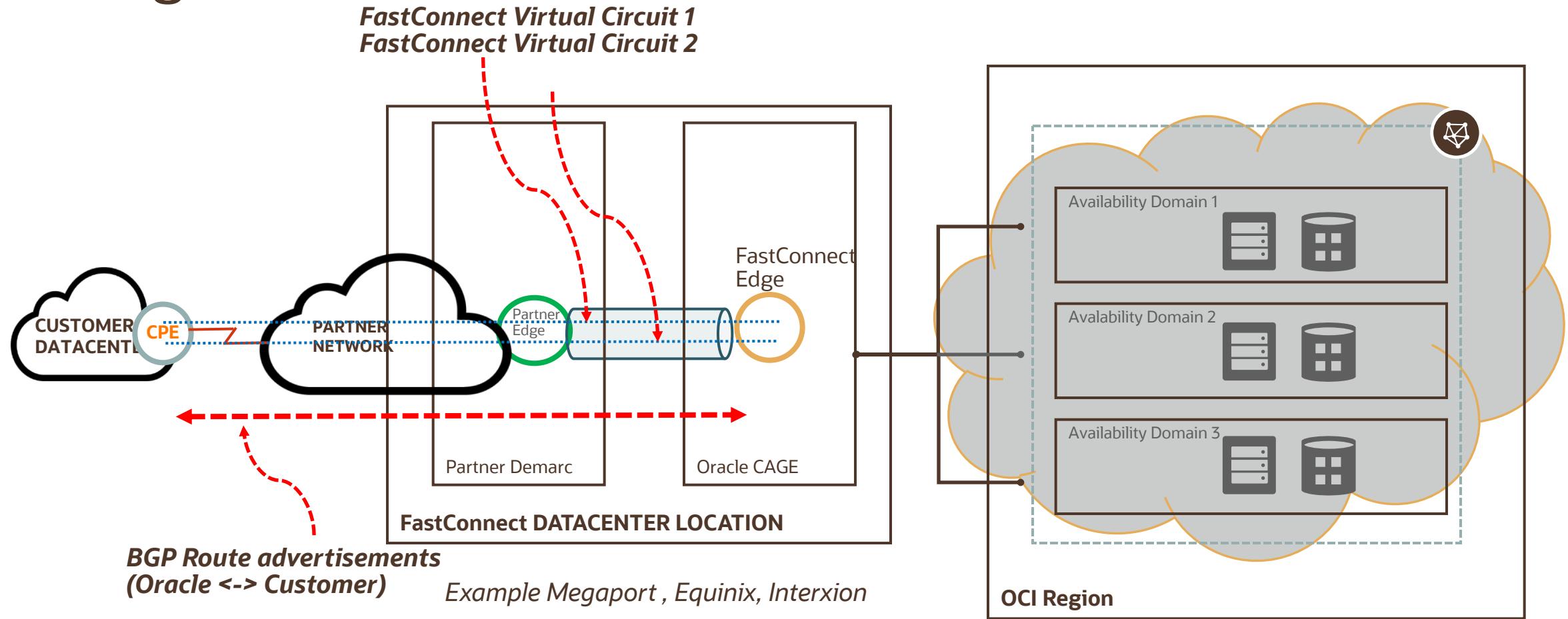
- Direct to Oracle:
 - Datacenter Colocation
 - Dedicated Circuits from a 3rd Party Network Carrier
- Using an Oracle Network Provider or Exchange Partner (Layer 2 or Layer 3)

Using an Oracle Network Provider or Exchange Partner

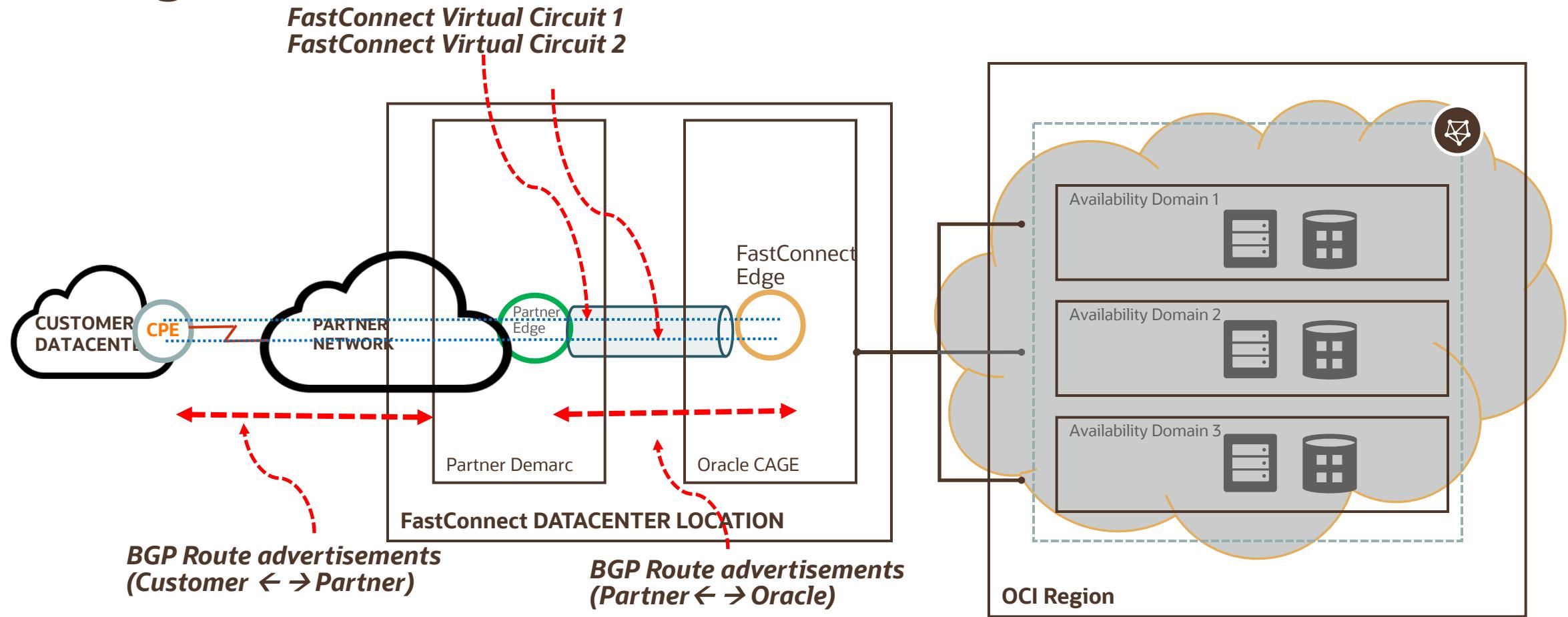
Physical Connection:



Using an Oracle Network Provider or Exchange Partner-Layer 2 Logical Connection:



Using an Oracle Network Provider or Exchange Partner-Layer 3 Logical Connection:



FastConnect Connectivity Partners

North America Network Provider and Exchange Partners

FastConnect Partners	Oracle Cloud Location Phoenix, AZ, USA	Oracle Cloud Location Ashburn, VA, USA	Oracle Cloud Location Toronto, ON, Canada
Aryaka	✗	✓	✗
AT&T NetBond® for Cloud	✓	✓	✗
BT Cloud Connect	✗	✓	✗
C3ntro	✓	✓	✗
CenturyLink® Cloud Connect	✓	✓	✓
Cologix Hyperscale Connect	✗	✓	✓
Coresite Open Cloud Exchange	✗	✓	✗
Digital Realty Service Exchange	✓	✓	✗
EdgeConneX	✓	✗	✗
Epsilon	✗	✓	✗

<https://www.oracle.com/cloud/networking/fastconnect-providers.html>



How to Setup a FastConnect virtual circuit with Partner: Demo example - Megaport Layer3 Partner Service Models

- Direct to Oracle:
 - Datacenter Colocation – 1a
 - Dedicated Circuits from a 3rd Party Network Carrier – 1b
- Using an Oracle Network Provider or Exchange Partner (Layer 2 or Layer 3)

1. Setup OCI Components

- a. DRG (Private Peering Only)
- b. Setup a Virtual Circuit with Provider

Create Connection

[help](#) [cancel](#)

FastConnect lets you access your existing network from your Virtual Cloud Network (VCN) without traversing the internet. Choose an option:

COLOCATE WITH ORACLE

You must be colocated with Oracle in a FastConnect location. Here you'll set up a Cross-Connect Group with at least one Cross-Connect. After cabling is complete at the location, you'll return here to activate the Cross-Connect(s) and set up at least one Virtual Circuit.

CONNECT THROUGH A PROVIDER

You use a provider that is already connected to Oracle, and set up at least one Virtual Circuit on the provider's connection.

PROVIDER

Megaport: Service



Continue



1. Setup OCI Components

- a. DRG (Private Peering Only)
- b. Setup a Virtual Circuit with Provider

Create Connection [help](#) [cancel](#)

Create a Virtual Circuit that runs on the provider's connection to Oracle.

NAME
FCMegaPort

CREATE IN COMPARTMENT
intoraclerohit (root)

VIRTUAL CIRCUIT TYPE

PRIVATE VIRTUAL CIRCUIT
Private IPv4 addresses are advertised (typically RFC 1918). The connection is via a Dynamic Routing Gateway you attach to your VCN.

PUBLIC VIRTUAL CIRCUIT
Regional Oracle Cloud Infrastructure public IPv4 addresses are advertised (for example, for Object Storage). You also provide the public IP prefixes that you want to advertise.

DYNAMIC ROUTING GATEWAY COMPARTMENT
intoraclerohit (root)

DYNAMIC ROUTING GATEWAY
DRG-ASH

PROVISIONED BANDWIDTH
1 Gbps

CUSTOMER BGP IP ADDRESS
192.168.5.1/30

ORACLE BGP IP ADDRESS
192.168.5.2/30

CUSTOMER BGP ASN
64556

[Continue](#)

Select the type of circuit

Select the DRG

Private Peering: Provide customer and oracle BGP IP address and ASN
Public Peering: Customer Public BGP ASN and public Prefixes

1. Setup OCI Components

c. Provide details of Virtual Circuit to provider

Networking » FastConnect » Connection Detail

FCMegaPort

FC

Delete

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

Created: Tue, 31 Jul 2018 15:49:27 GMT

PENDING PROVIDER

Resources

Virtual Circuits (1)

Virtual Circuits *in* intoraclerohit (root) Compartment

VC

FCMegaPort

Connection Type: Provider Connection

Provider Name: Megaport: Service

Lifecycle State: PENDING PROVIDER

Time Created: Tue, 31 Jul 2018 15:49:27 GMT

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

Virtual Circuit Type: Private

OCID of the Virtual Circuit

Pending Provider

The screenshot shows the OCI FastConnect Connection Detail page. At the top, there's a large orange hexagon icon with the letters 'FC' in white. Below it, the text 'FCMegaPort' is displayed. To the right of the icon, there are 'Delete' and 'OCID' buttons. Underneath, the text 'Created: Tue, 31 Jul 2018 15:49:27 GMT' is shown. A large orange box highlights the entire section. On the left, a sidebar shows 'Resources' and 'Virtual Circuits (1)'. Below that, 'List Scope' is set to 'intoraclerohit (root)'. A red box highlights the 'Virtual Circuits (1)' section, which contains a smaller orange hexagon icon with 'VC' and the text 'PENDING PROVIDER'. To the right of this, detailed information about the virtual circuit is listed: 'FCMegaPort', 'Connection Type: Provider Connection', 'Provider Name: Megaport: Service', 'Lifecycle State: PENDING PROVIDER', 'Time Created: Tue, 31 Jul 2018 15:49:27 GMT', 'OCID: ...faqtua', and 'Virtual Circuit Type: Private'. Red boxes highlight the 'Lifecycle State' and 'Time Created' fields, with an arrow pointing to a callout box labeled 'Pending Provider'. Another red box highlights the 'OCID' field, with an arrow pointing to a callout box labeled 'OCID of the Virtual Circuit'.

2. Setup Megaport Connection

a. Use OCID of the Virtual Circuit in Megaport

The screenshot shows the Megaport Portal dashboard at <https://megaport.al/dashboard>. The interface includes a header with navigation icons, a search bar, and links for Dashboard, Company, Tools, Megaport Exchange (with 2 notifications), and Oracle. A 'Saved Items' sidebar lists a single item: 'Fc_demo_us_grp@Oracle.Com - June 19th 2018, 4:34pm PDT'. Below the sidebar are two main sections:

- OCI-OCIC #4ffba232**: MCR 100 Mbps (200% allocated) - Digital Realty ASH1, Ashburn, USA. It shows two connections: 'MCR-OCI-Connection #cf2ab2e9' (A End VXC (100 Mbps) - OCI (us-ashburn) Primary (BMC)) and 'MCR-OCIC-Connection #0ef118c6a' (A End VXC (100 Mbps) - Oracle). Both are marked with green dots.
- OCI-MCR-Demo #2700663f**: MCR 1 Gbps (210% allocated) - Digital Realty ASH1, Ashburn, USA. It shows three connections: 'AWS-OCI-Demo #892d8363' (A End VXC (1 Gbps) - OCI (us-ashburn) Secondary (BMC)), 'AWS-OCI-Demo #67884385' (A End VXC (100 Mbps) - US East (Ohio) (us-east-2)), and 'AWS-OCI-VXC2 #1c88682a' (A End VXC (1 Gbps) - OCI (us-ashburn) Primary (BMC)). All three are marked with green dots.

A red box highlights the 'Connection' button in the OCI-OCIC section, and a red arrow points from this button down to a callout box labeled 'Create a Virtual Circuit'.

Create a Virtual Circuit

[Create Megaport](#) [Create MCR](#)

OCI-OCIC #4ffba232
MCR 100 Mbps

New Connection

① Select Type ② Select Port ③ Connection Details ④ MCR A End ⑤ Summary

OCI-MCR-Demo
1 Gbps
Ashburn, USA

Select Destination

Choose Destination

Cloud

Private VXC

Megaport Exchange

Back To Dashboard

Next

The screenshot shows the Megaport interface for creating a new connection. At the top, there are buttons for 'Create Megaport' and 'Create MCR'. Below that, a list of existing connections is shown, with 'OCI-OCIC' and 'OCI-MCR-Demo' being the most prominent. The 'OCI-MCR-Demo' connection is highlighted with a green bar on the left and has a 1 Gbps link to Ashburn, USA. The main area is titled 'New Connection' and shows the 'Select Type' step. It displays two connection profiles: 'OCI-MCR-Demo' (selected) and 'OCI-OCIC'. Below this, there's a 'Select Destination' section with three options: 'Cloud' (highlighted with a red border), 'Private VXC', and 'Megaport Exchange'. At the bottom, there are 'Back To Dashboard' and 'Next' buttons.



New Connection

① Select Type ② Select Port ③ Connection Details ④ MCR A End ⑤ Summary



OCI-MCR-Demo
1 Gbps
Ashburn, USA



OCI (us-ashburn) Primary (BMC)
Ashburn, USA

Select Provider *



AMS-IX
4 Ports



AWS
29 Ports



Alibaba Cloud Computing Ltd
7 Ports



Azure ExpressRoute
64 Ports



Google Inc
31 Ports



Oracle
10 Ports



Salesforce.Com Inc
6 Ports



Webair
1 Ports

Oracle Virtual Circuit ID *

ocid1.virtualcircuit.oc1.iad.aaaaaaaaavmd2lbw4ievszxcz2jp55mxiszvdrcxx27jw6voopv2r3

Choose From Available Oracle Ports *



OCI (Us-Ashburn) Primary (BMC)
Oracle At Equinix DC2/6



OCI (Us-Ashburn) Secondary (BMC)
Oracle At CoreSite VA1

For a list of all available Oracle ports, please refer to their [Megaport Exchange Profile](#)

Choose POP Location

Provide OCI virtual circuit OCID

Back To Dashboard

Back

Next



New Connection

① Select Type ② Select Port ③ **Connection Details** ④ MCR A End ⑤ Summary



OCI-MCR-Demo
1 Gbps
Ashburn, USA



OCI (us-ashburn) Primary (BMC)
Ashburn, USA

Name Your Connection *

Invoice Reference

Rate Limit *

MAX: 1000 Mbps

Back To Dashboard

Back

Next

Monthly rate: 0.00 USD (Price Excludes Tax)



Edit Connection

[Configuration](#)[Configure A End](#)[Details](#)[Logs](#)[Usage](#)[Billing](#)

OCI-MCR-Demo
1 Gbps
Ashburn, USA



OCI (us-ashburn) Primary (BMC)
Ashburn, USA

IP Addresses

192.168.5.1/30



Static Routes 0/10



Add New Static Route

BGP Connections 1/10



BGP Connection 1

Peer ASN * 31898

Local IP * 192.168.5.1/30

Peer IP * 192.168.5.2/30

BGP Auth

Override MCR ASN * 64556

Cancel

Ok

NAT IP Addresses 0/10



Add New NAT IP Address

Back To Dashboard

Back

Next

Apply

New Connection

① Select Type ② Select Port ③ Connection Details ④ MCR A End ⑤ **Summary**



OCI-MCR-Demo
1 Gbps
Ashburn, USA



OCI (us-ashburn) Primary (BMC)
Ashburn, USA

Connection Name Test_FC

Rate Limit 1 Gbps

MCR A End Details



Cloud Details (ORACLE)



Monthly Rate 0.00 USD Price excludes TAX

Back To Dashboard

Back

Add To Cart





Test_FC

OCI-MCR-Demo => Oracle OCI (Us-Ashburn)
Primary (BMC)



\$0.00 USD



Monthly charge excluding taxes



Save Cart

Check-Out

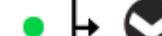
Create Megaport

Create MCR



OCI-OCIC #4ffba232

MCR 100 Mbps (200% allocated) - Digital Realty ASH1, Ashburn, USA



MCR-OCI-Connection #cf2ab2e9

A End VXC (100 Mbps) - OCI (us-ashburn) Primary (BMC)



MCR-OCIC-Connection #0e118c6a

A End VXC (100 Mbps) - Oracle



OCI-MCR-Demo #2700c631

MCR 1 Gbps (310% allocated) - Digital Realty ASH1, Ashburn, USA



AWS-OCI-Demo #a92d8363

A End VXC (1 Gbps) - OCI (us-ashburn) Secondary (BMC)



AWS-OCI-Demo #c7884385

A End VXC (100 Mbps) - US East (Ohio) (us-east-2)



AWS-OCI-VXC2 #1c88682a

A End VXC (1 Gbps) - OCI (us-ashburn) Primary (BMC)



Test_FC

A End VXC (1 Gbps) - OCI (us-ashburn) Primary (BMC)

Checkout

Monthly Rate



Test_FC
No Term

\$0.00 USD

[+ Promo Code](#)

Price excludes taxes

Important Information

This Order constitutes a binding offer to acquire the Services described above and which, if accepted by Megaport, creates a separate agreement incorporating the terms set out in (a) this Order; and (b) where an agreement signed by Customer or its Affiliate relating to this Service exists, that agreement or, otherwise, the [Global Services Agreement](#).

[Back To Dashboard](#)

[Deploy Now](#)



≡ MENU



TENANCY
[intoraclerohit](#)

REGION
[us-ashburn-1](#)

Networking » FastConnect » Connection Detail



UP

FCMegaPort

Delete

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

Created: Tue, 31 Jul 2018 18:30:12 GMT

Resources

Virtual Circuits (1)

List Scope

COMPARTMENT

intoraclerohit (root) ▼

Virtual Circuits *in intoraclerohit (root) Compartment*



FCMegaPort

Connection Type: Provider Connection

Provider Name: Megaport: Service

Lifecycle State: PROVISIONED

Time Created: Tue, 31 Jul 2018

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

Virtual Circuit Type: Private

FastConnect Connectivity Resiliency

FastConnect Redundancy

- Have multiple redundant connections into OCI and avoid having single points of failure in your design.
- For IPSec VPN - OCI recommends using multiple connections from redundant physical devices at the customer premises. High availability connections require redundant hardware, even when connecting from the same physical location
- OCI FastConnect provides multiple redundancy options, and its recommended to use multiple vendors if financially feasible to ensure you have redundant network connections
- Plan for sufficient network capacity with your FastConnect virtual circuits to ensure individual circuits are not overwhelmed in case of failures on redundant circuits
- Have a service level redundancy by creating a IPsec VPN service alongside FC. Oracle always prioritizes FC over VPN connection.

FastConnect Redundancy

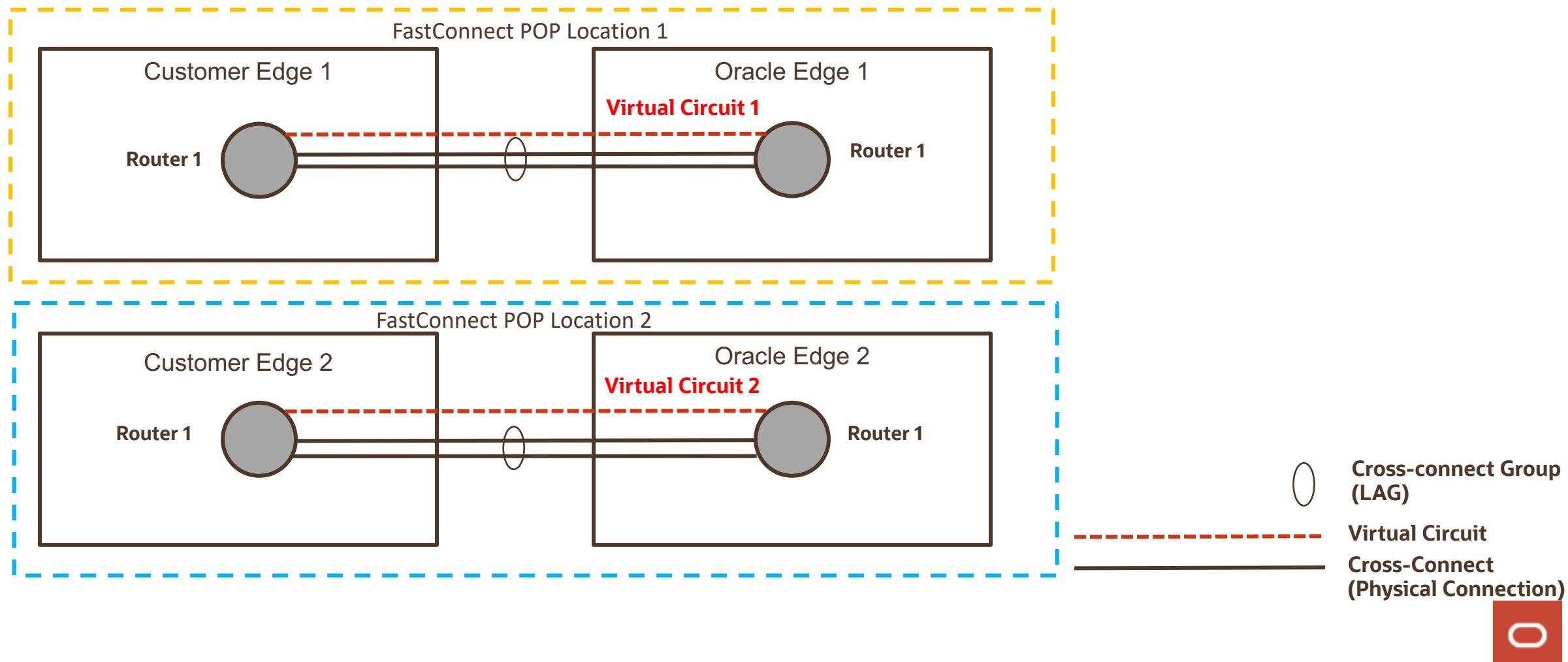
- With FastConnect there are multiple types of redundancy
 - Transit POP redundancy
 - Router redundancy with-in a single Transit POP
 - Partner redundancy
 - Service redundancy
- Oracle provides:
 - 2 Oracle FastConnect (POPs), for location redundancy in following regions. Each is connected to all of Oracle's Availability Domains in the region.
 - Ashburn, Phoenix, London, Frankfurt
 - Per Oracle POP: 2 routers, for router redundancy
 - Multiple physical connections between each Oracle provider and Oracle (for a given region)



Redundancy: Connectivity Model

Colocation or colocation via third party Network Provider

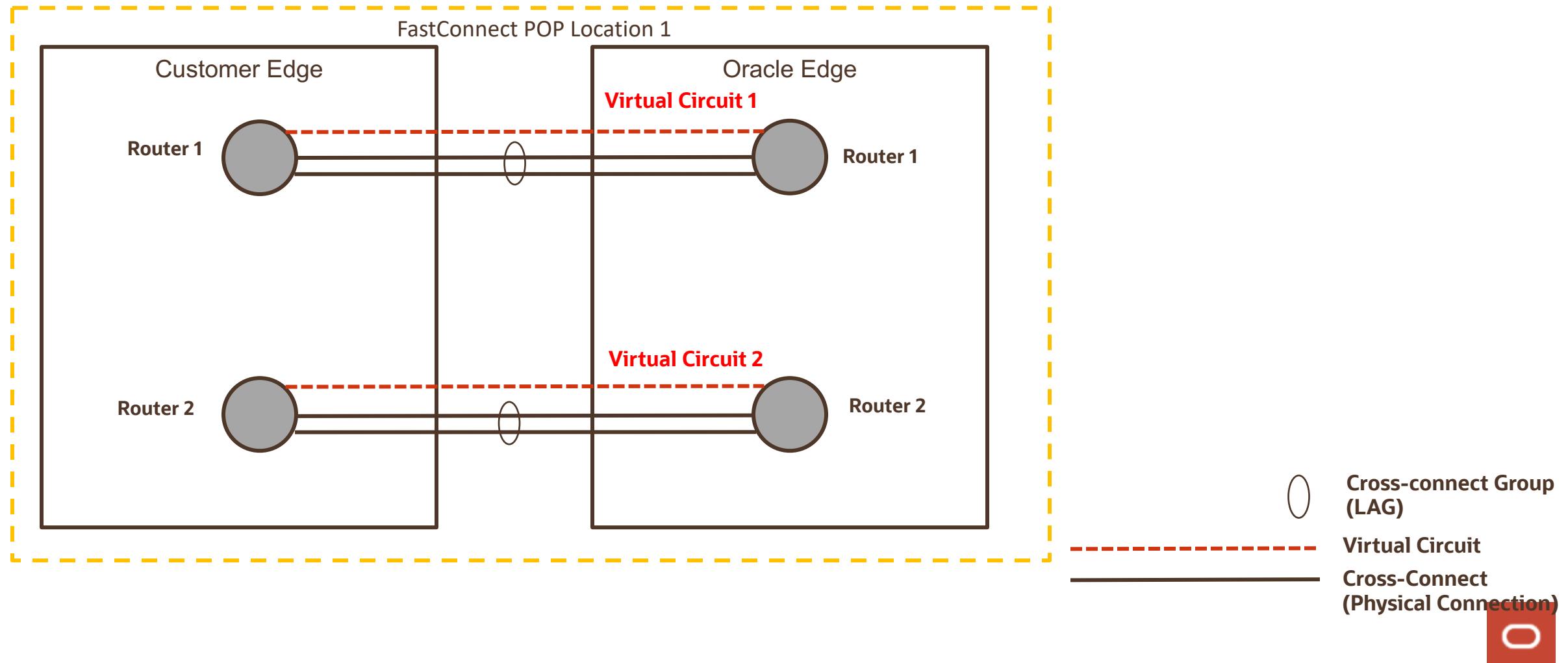
- Transit POP redundancy



Redundancy: Connectivity Model

Colocation or colocation via third party Network Provider

Router redundancy with-in a single Transit POP

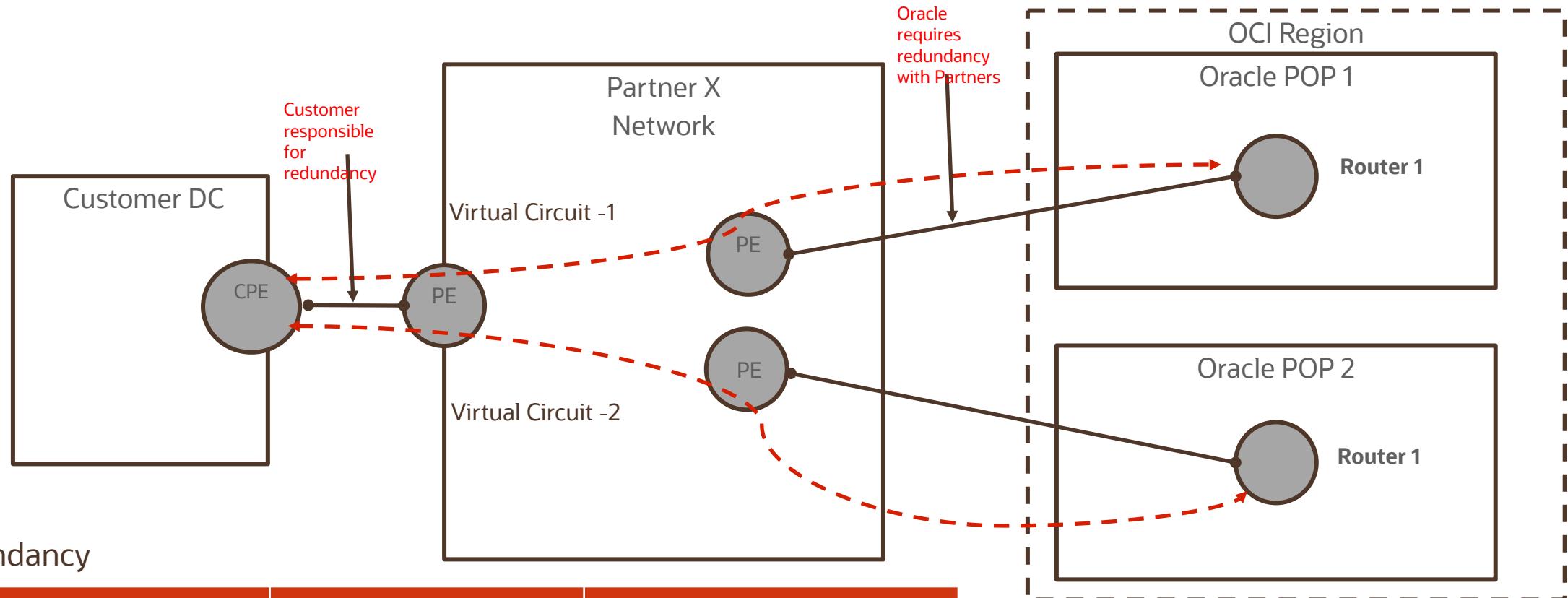


Redundancy: Connectivity Model

Oracle Partner (Layer 2)

- For a **Layer 2** partner, a given virtual circuit can run on only a single port group (formerly known as Cross-Connect) (LAG), or single cross-connect (an individual cable, no LAG).
- Redundancy can be achieved by provisioning 2nd virtual circuit.
- Partner will make sure that 2nd virtual circuit will land on redundant cross-connect LAG between them and Oracle.
- Redundant cross-connect LAG could land in same POP or different POP depending upon connectivity between partner and oracle.
- Active/Active or Active/Passive setup is possible with “LP” and “AS_PATH” BGP attributes influencing egress traffic from customer and OCI respectively

Layer 2 Partners : Megaport, Equinix, CenturyLink

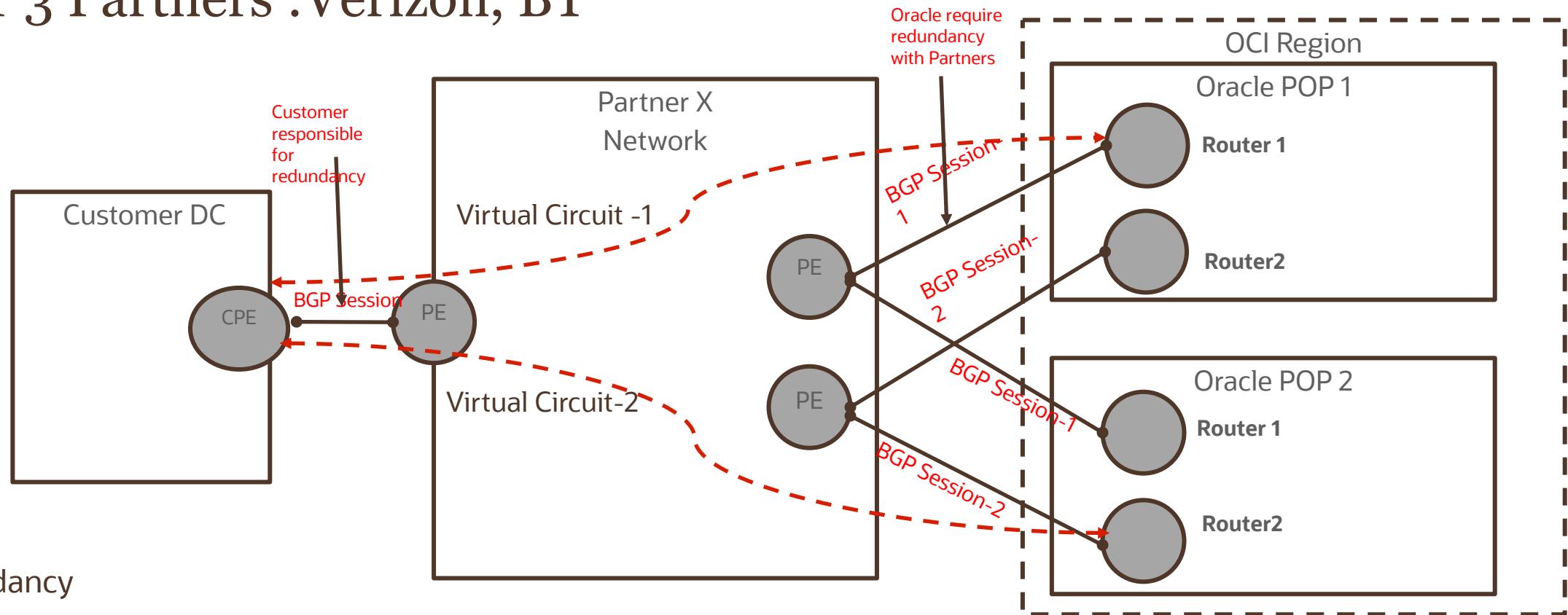


Customer	Partner	Oracle
<ul style="list-style-type: none">Order 2X VC with OracleOrder 2X cross-connects to partner	<ul style="list-style-type: none">Min 2X Circuits to Oracle.Provisions 2nd VC on redundant cross-connect	<ul style="list-style-type: none">Min 2X Circuits to PartnerAgreement with partner to Provision 2nd VC on redundant cross-connect

Redundancy: Connectivity Model Oracle Partner (Layer 3)

- For a **Layer 3** partner, a given virtual circuit can run on multiple cross-connect groups (LAGs) or multiple cross-connects (a cross-connect is an individual cable, no LAG), which provides router redundancy for the virtual circuit.
- Customer would get 2 BGP sessions tied to single virtual circuit by default running over redundant cross-connect group or cross-connects.
- Partner and Oracle will make sure that 2nd BGP session will land on redundant cross-connect LAG between partner and Oracle.
- Customer can still provision 2nd virtual circuit with additional cost should they need redundancy with virtual circuits

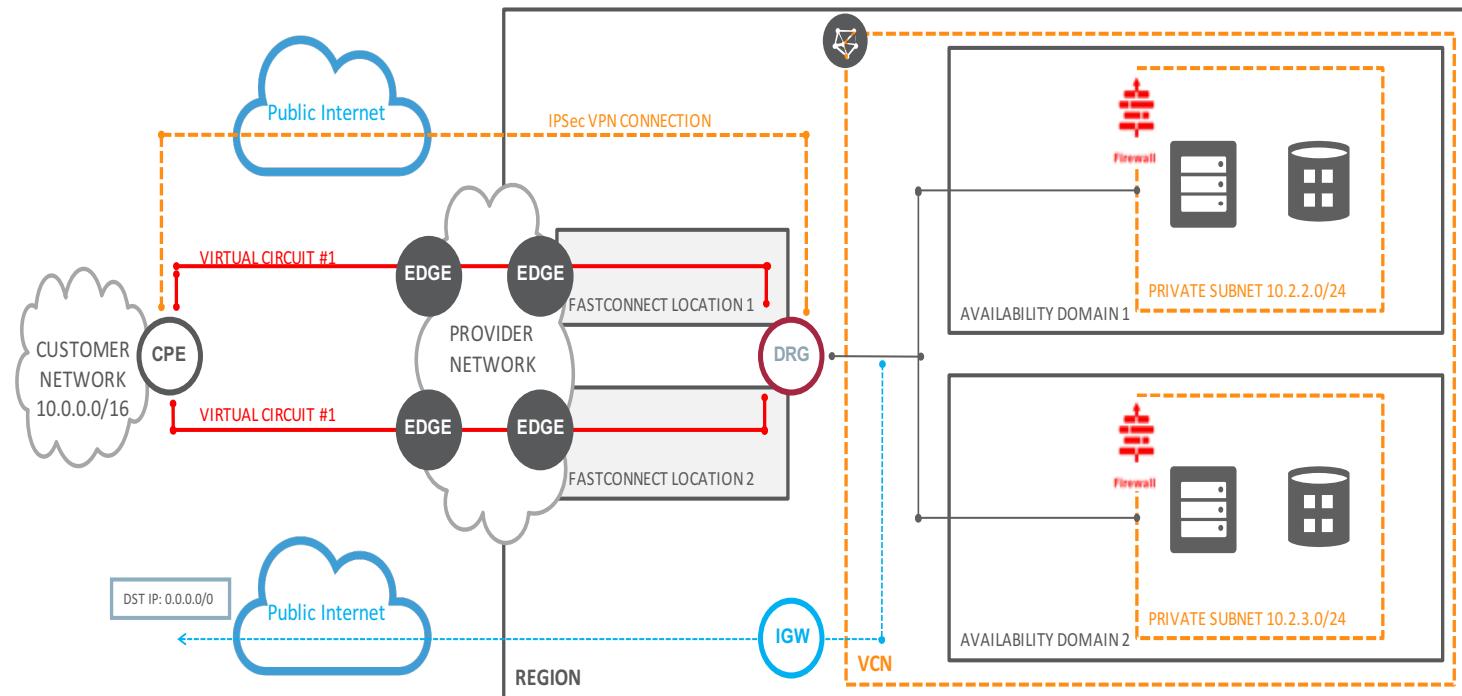
Layer 3 Partners :Verizon, BT



Customer	Partner	Oracle
<ul style="list-style-type: none"> Order 2X VC with Oracle Order 2X cross-connects to partner 	<ul style="list-style-type: none"> Min 2X Circuits to Oracle Runs 2BGP sessions with Oracle 	<ul style="list-style-type: none"> Min 2X Circuits to Partner Runs 2 BGP sessions with Partner.

Service Redundancy

- Customer can provision IPsec along with FastConnect.
- IPsec can be treated as back up incase if FastConnect fails
- Egress traffic from OCI will prefer FastConnect *
- Bandwidth, latency concerns over IPsec
- Highly recommended if customer has single FastConnect to OCI



Summary

After completing this lesson, you should have learned:

- FastConnect Use cases
- FastConnect Concepts
- Describe FastConnect Service Models
- FastConnect resiliency options



Oracle Cloud always free tier:

oracle.com/cloud/free/

OCI training and certification:

oracle.com/cloud/iaas/training

oracle.com/cloud/iaas/training/certification

education.oracle.com/oracle-certification-path

OCI hands-on labs:

ocitraining.qloudable.com/provider/oracle

Oracle learning library videos on YouTube:

youtube.com/user/OracleLearning