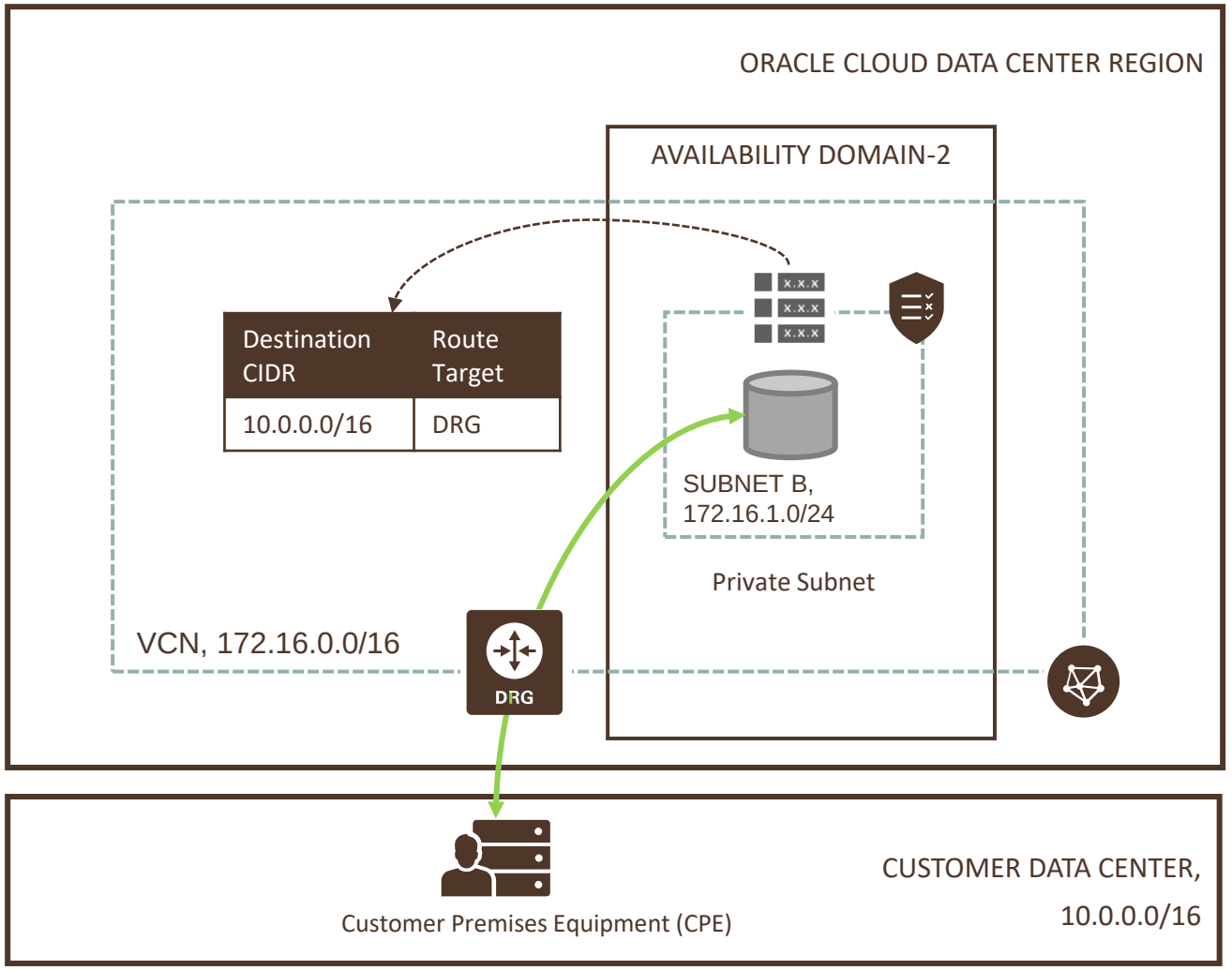
ORACLE

Connectivity to on-premises Networks

Dynamic Routing Gateway



A virtual router that provides a path for private traffic between your VCN and destinations other than the internet

You can use it to establish a connection with your on-premises network via IPsec VPN or FastConnect (private, dedicated connectivity)

After attaching a DRG, you must add a route for the DRG in the VCN's route table to enable traffic flow

DRG is a standalone object. You must attach it to a VCN. VCN and DRG have a 1:1 relationship

ORACLE

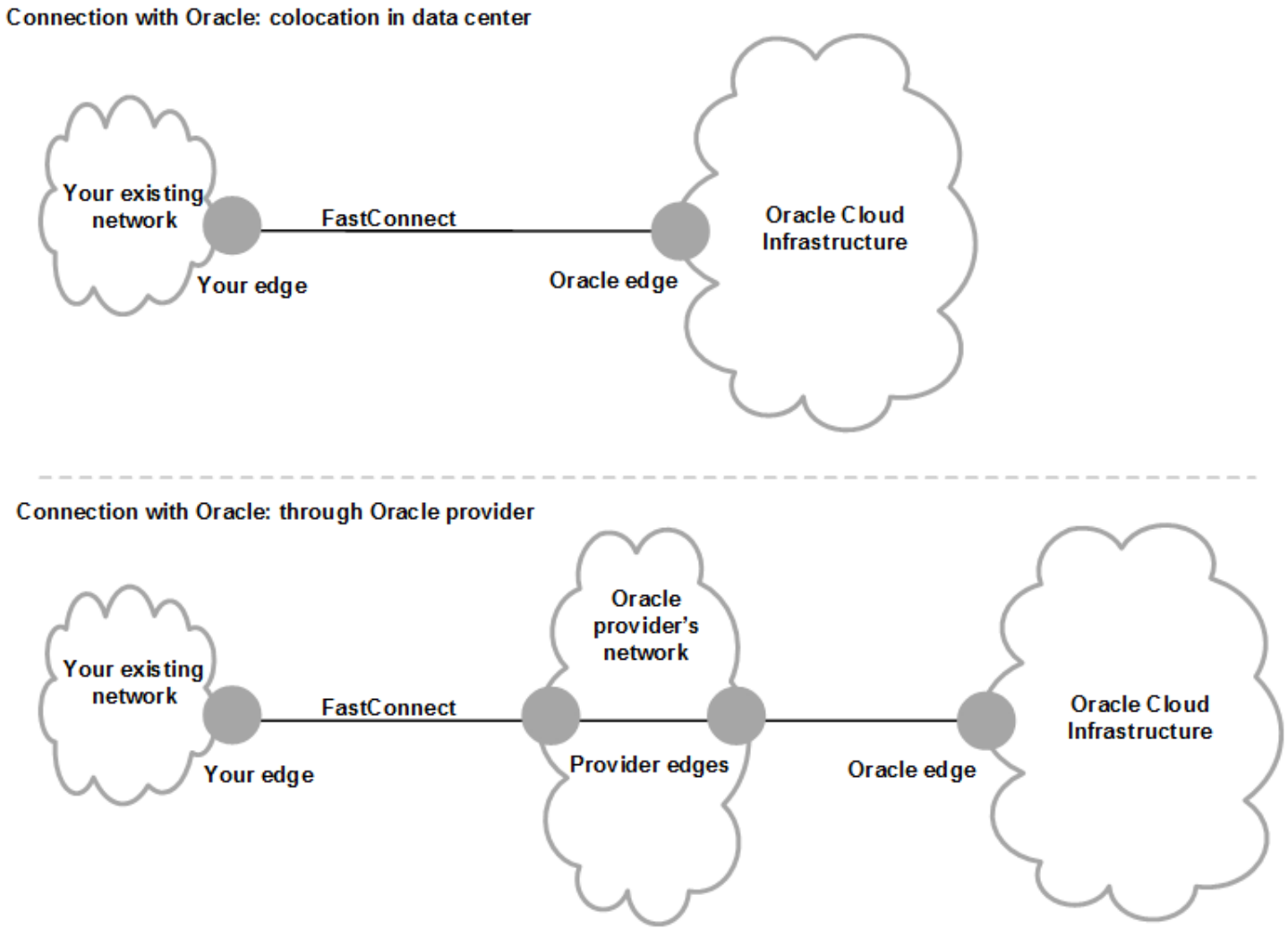
FastConnect

FastConnect

FastConnect provides 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
- Port speeds of 1 Gbps and 10 Gbps 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 Scenarios



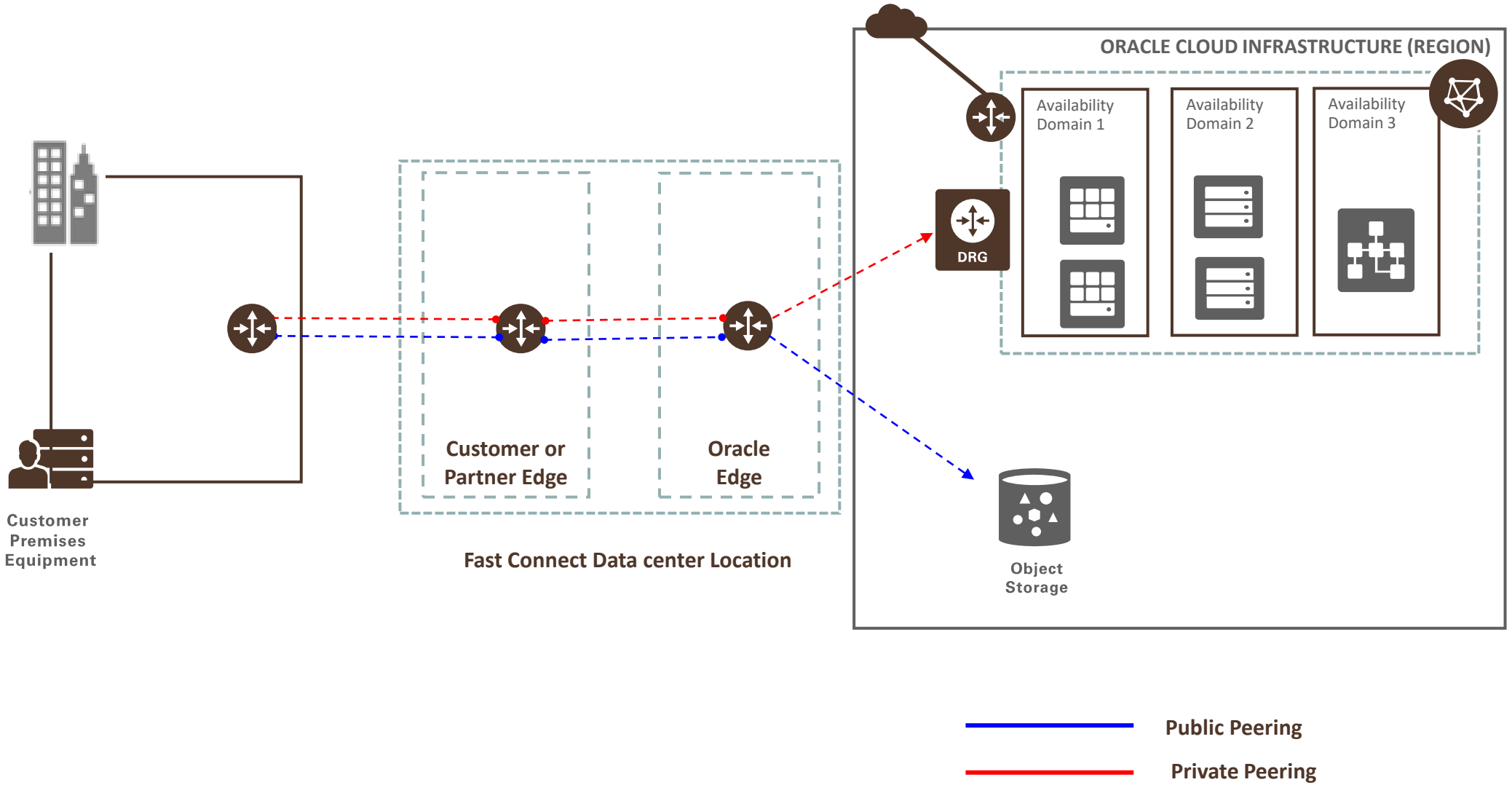
Virtual Circuit

- Virtual circuit - isolated network path that runs over one or more physical network connections to provide a single, logical connection between customer's edge router and their DRG
- Each virtual circuit is made up of information shared between the customer, Oracle, and a provider
- Possible to have multiple virtual circuits to isolate traffic from different parts of 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 BGP to exchange routing information

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 such as Object storage, OCI Console or APIs over dedicated FastConnect connection
  - Doesn’t use DRG

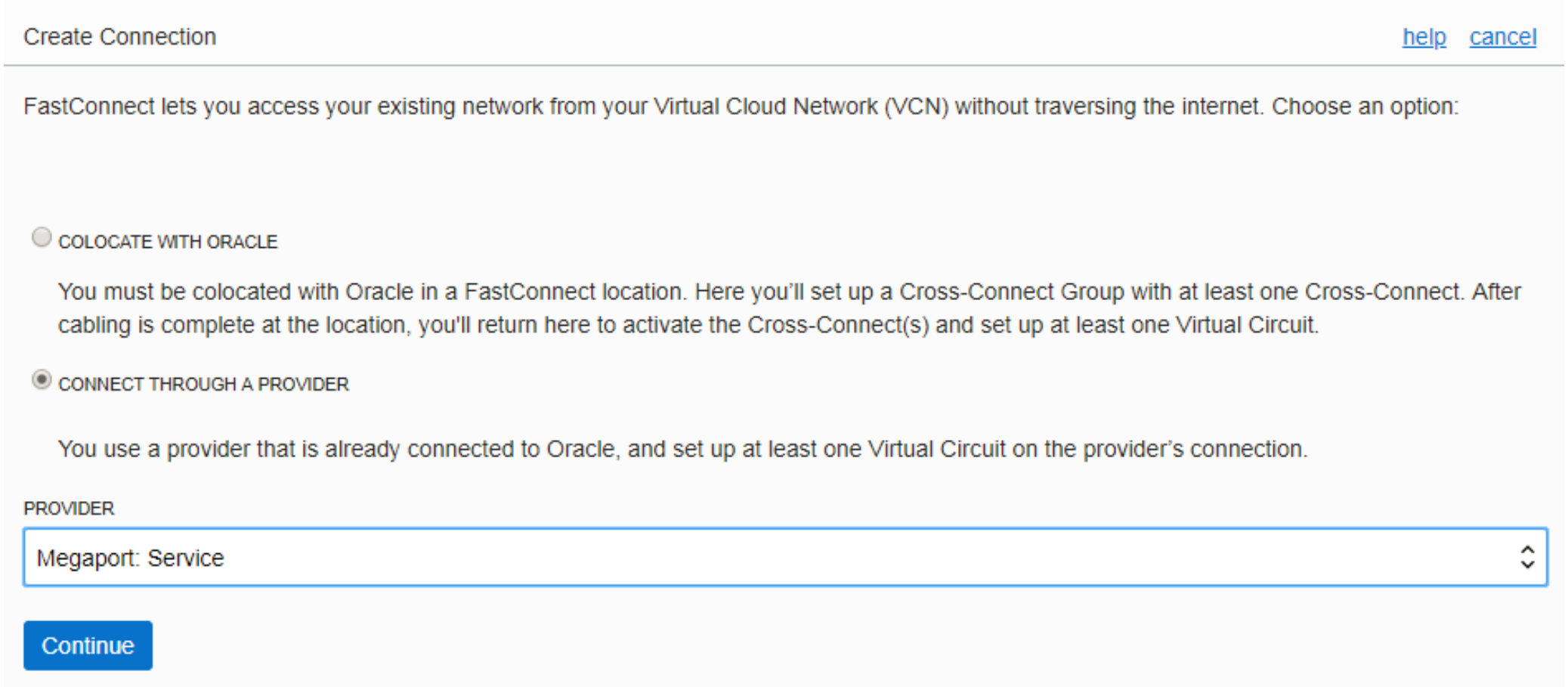
FastConnect Use Cases



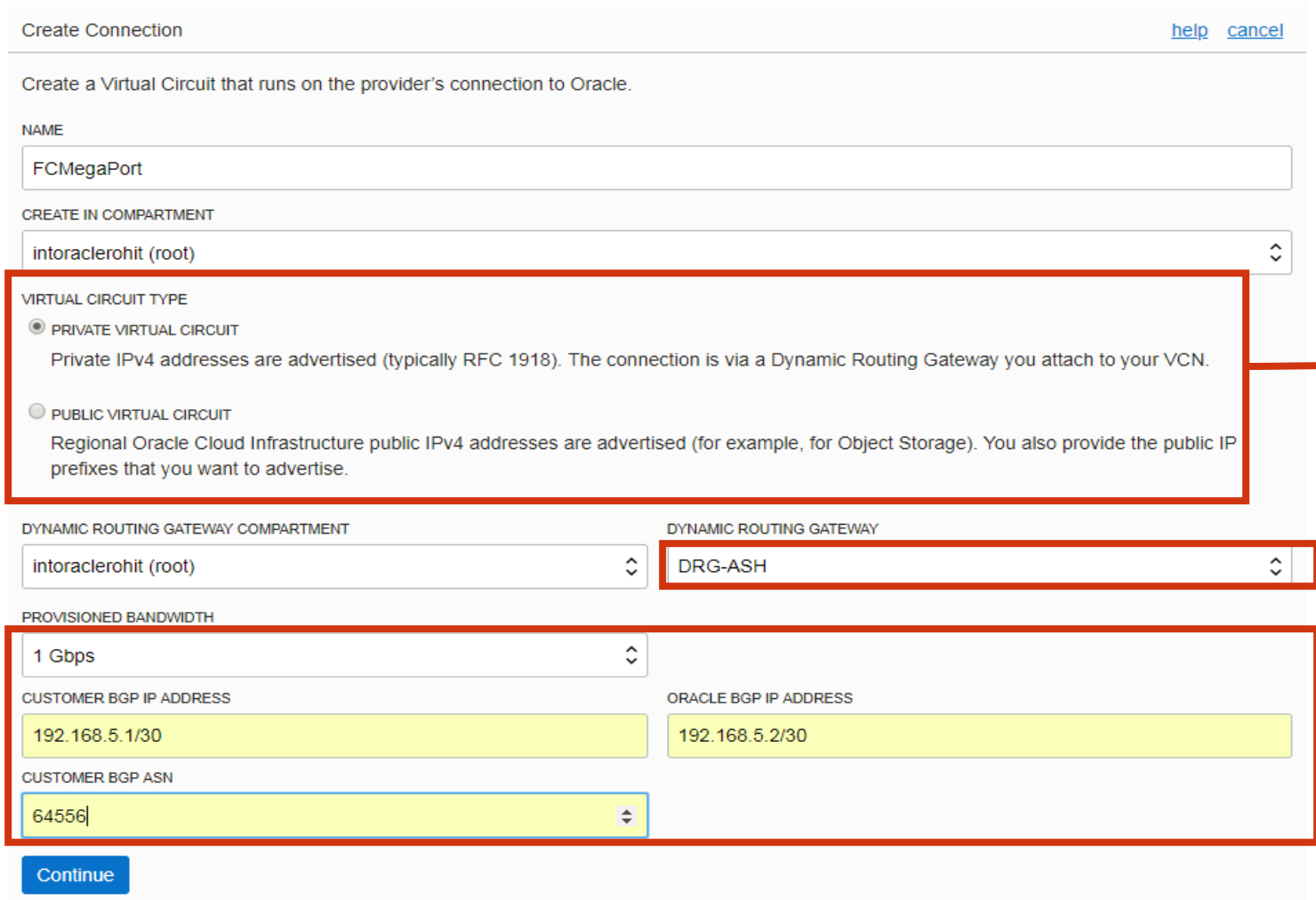
FastConnect Connectivity Providers

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

1. Create connection



1. Setup a virtual circuit



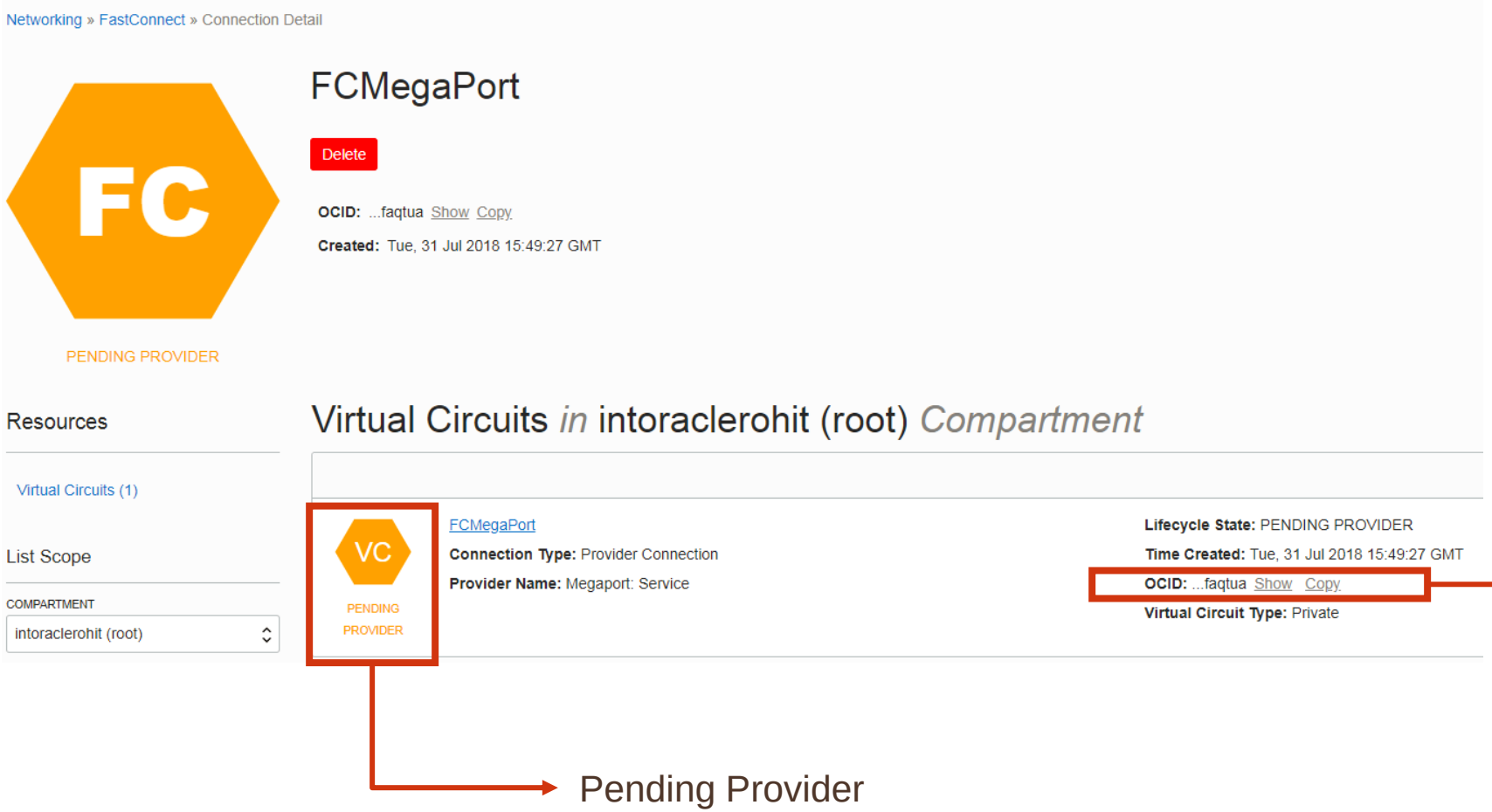
Select the type of circuit

Select the DRG

Private Peering: Provide customer and oracle BGP IP address and ASN

Public Peering: Customer Public BGP ASN and public Prefixes

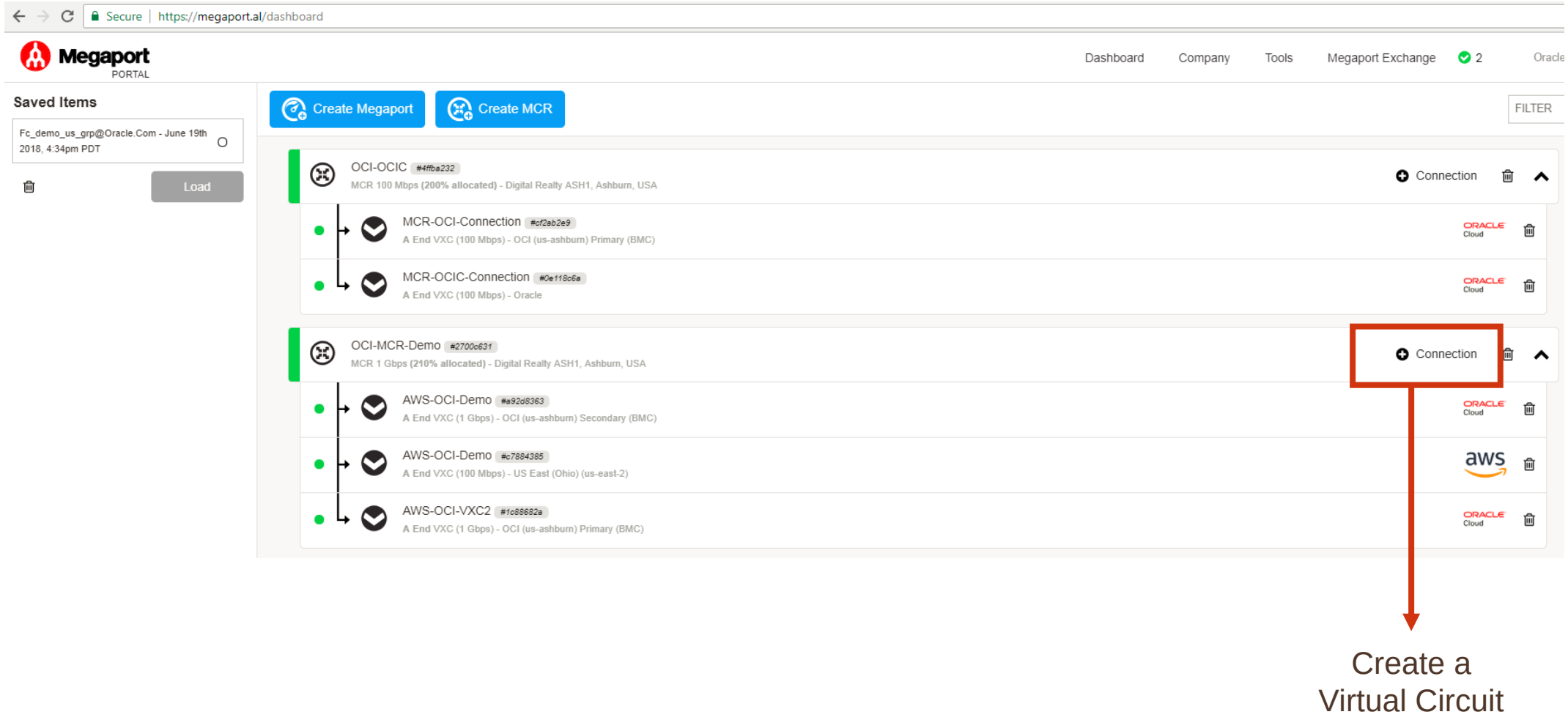
1. Setup a virtual circuit



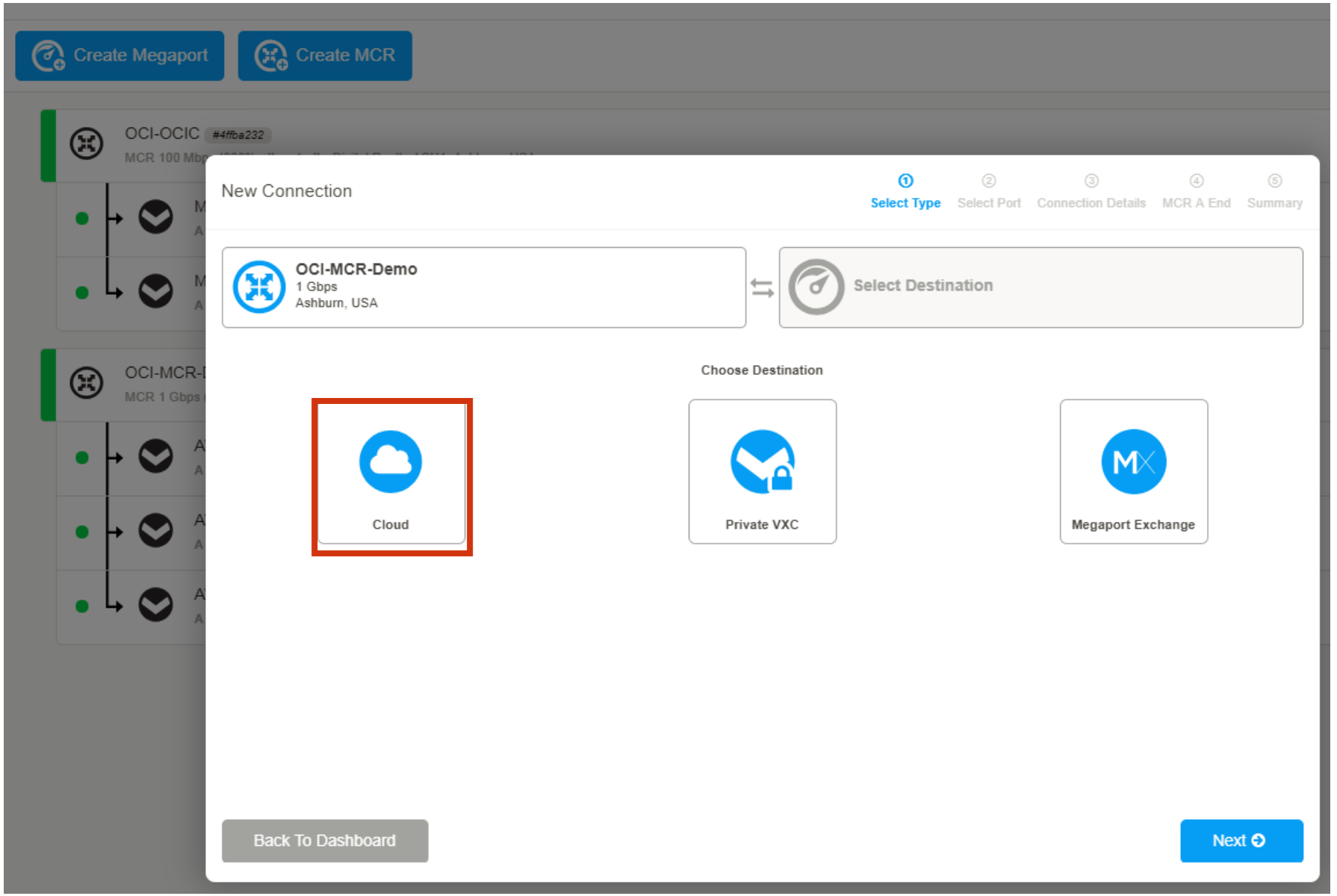
OCID of the Virtual Circuit

Pending Provider

2. Setup Megaport Connection



Create a Virtual Circuit


Create Megaport
Create MCR
OCI-OCIC
#4ffba232
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

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.aaaaaaaavmd2lbw4ievszxcz2jp55mxiszvdrcxx27jw6voopv2r3

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

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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 *
Test_FC

Invoice Reference

Rate Limit * MAX: 1000 Mbps
1000

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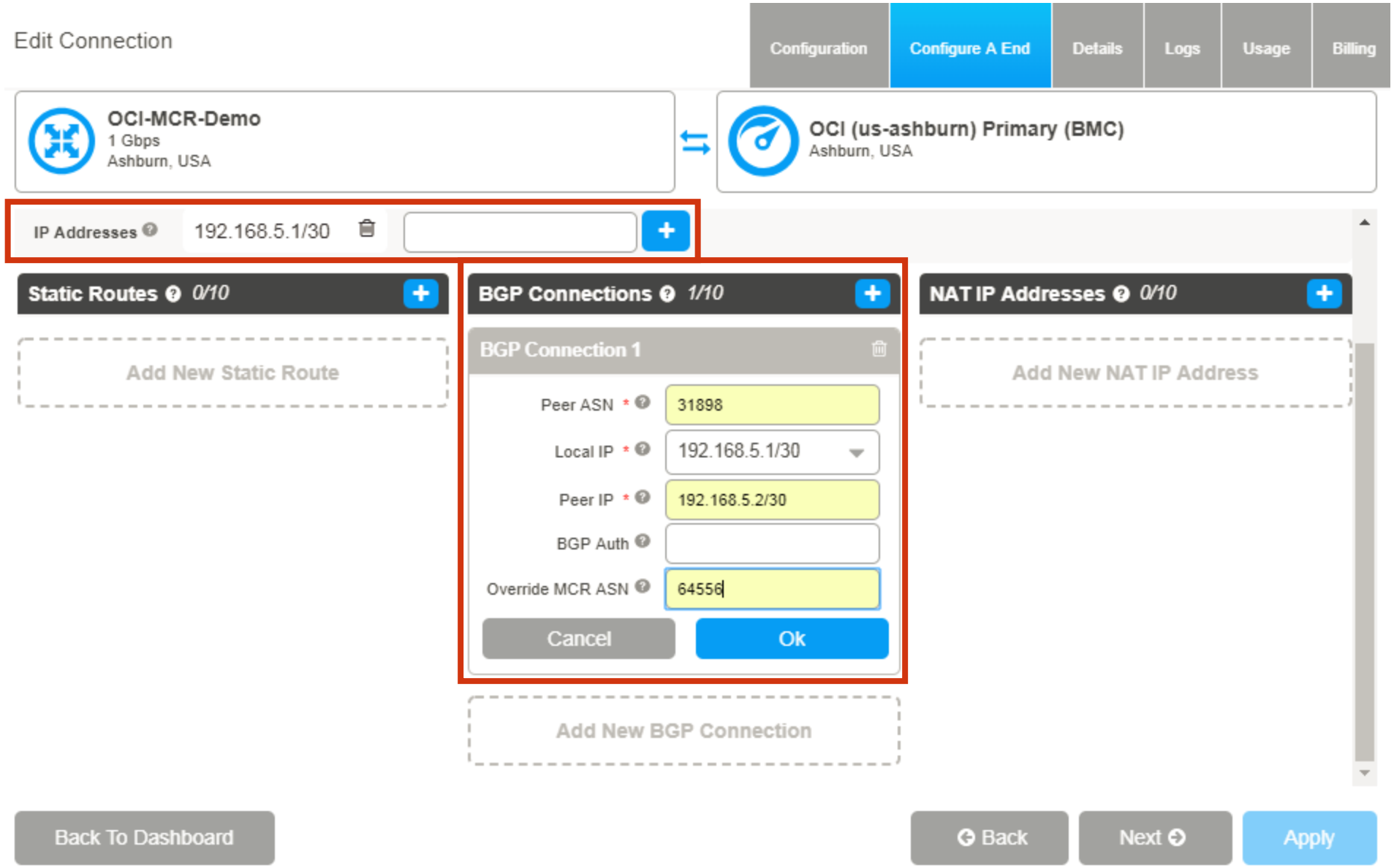
Monthly rate: 0.00 USD (Price Excludes Tax)


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
Add New BGP Connection
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

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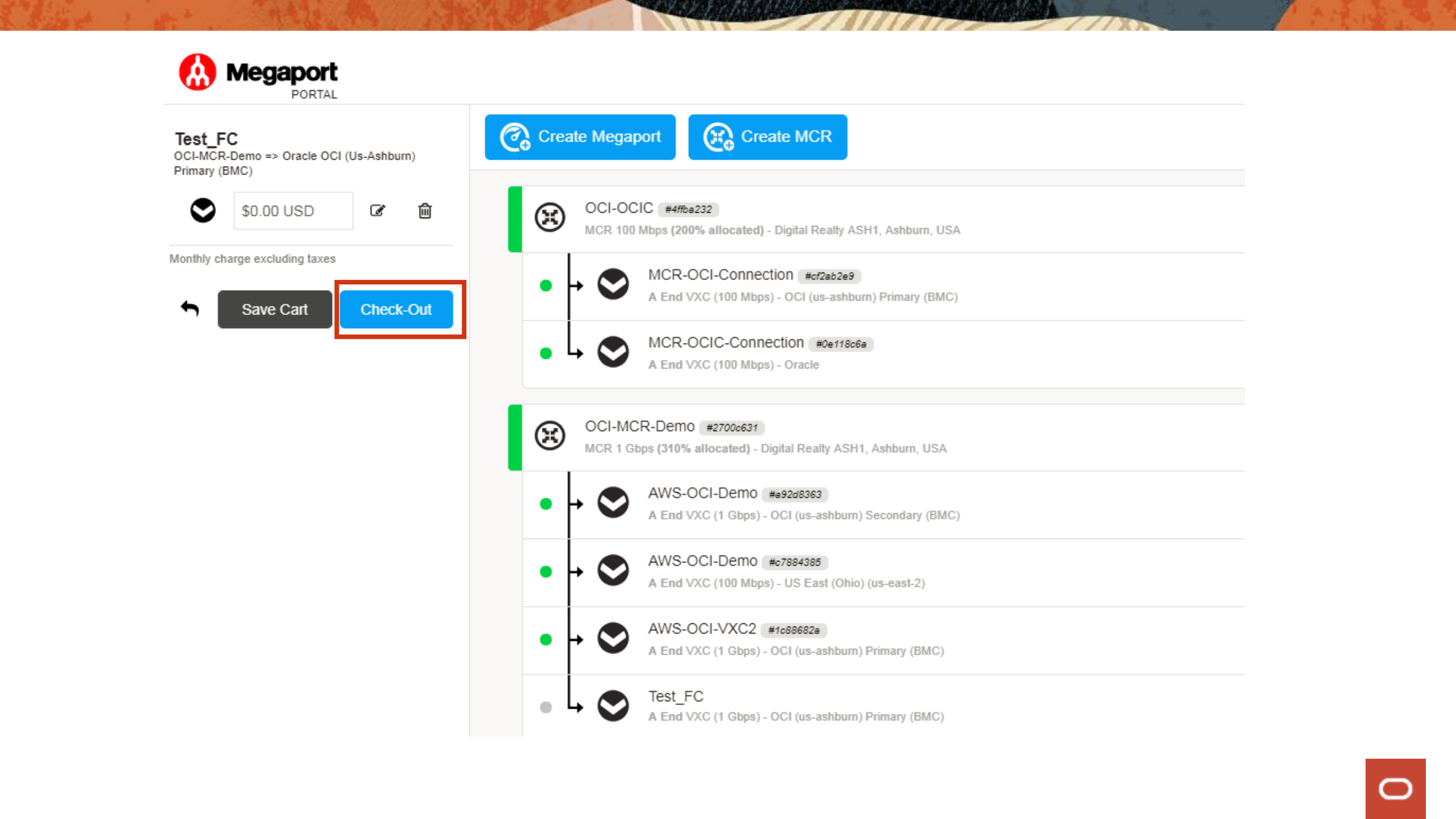
Add To Cart


Megaport
PORTAL
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.

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Deploy Now

MENU | ORACLE Cloud Infrastructure | TENANCY intoraclerohit | REGION us-ashburn-1

Networking » FastConnect » Connection Detail

FC

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*

VC

UP

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

Oracle Cloud always free tier:
oracle.com/cloud/free/

OCI training and certification:
https://www.oracle.com/cloud/iaas/training/
https://www.oracle.com/cloud/iaas/training/certification.html

OCI hands-on labs:
ocitraining.qloudable.com/provider/oracle

Oracle learning library videos on YouTube:
youtube.com/user/OracleLearning

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