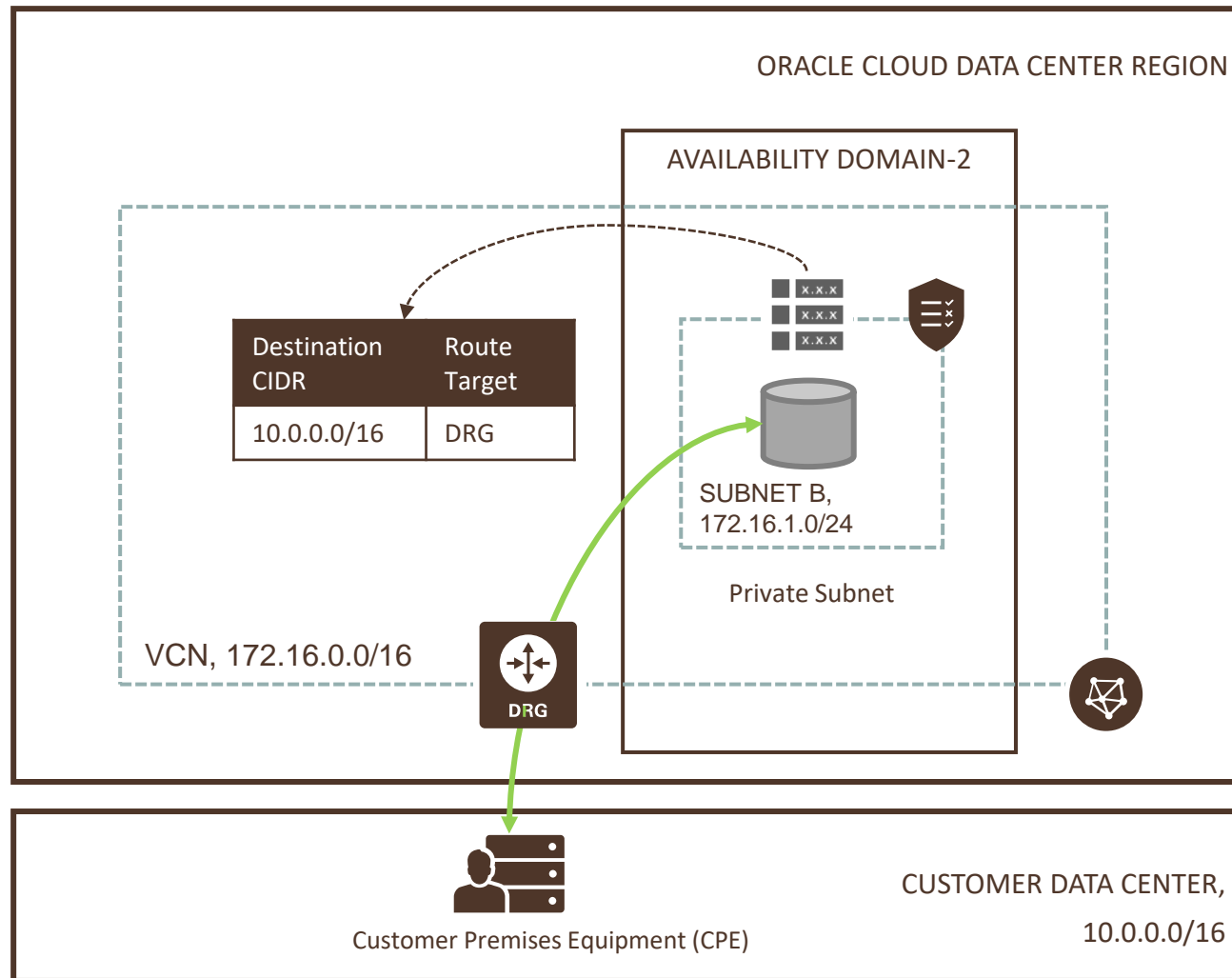




ORACLE

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

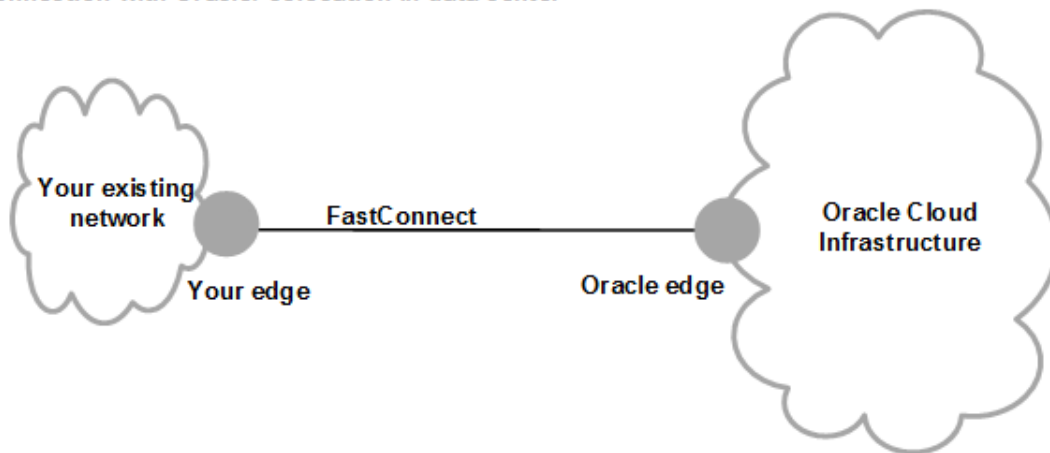
FastConnect

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

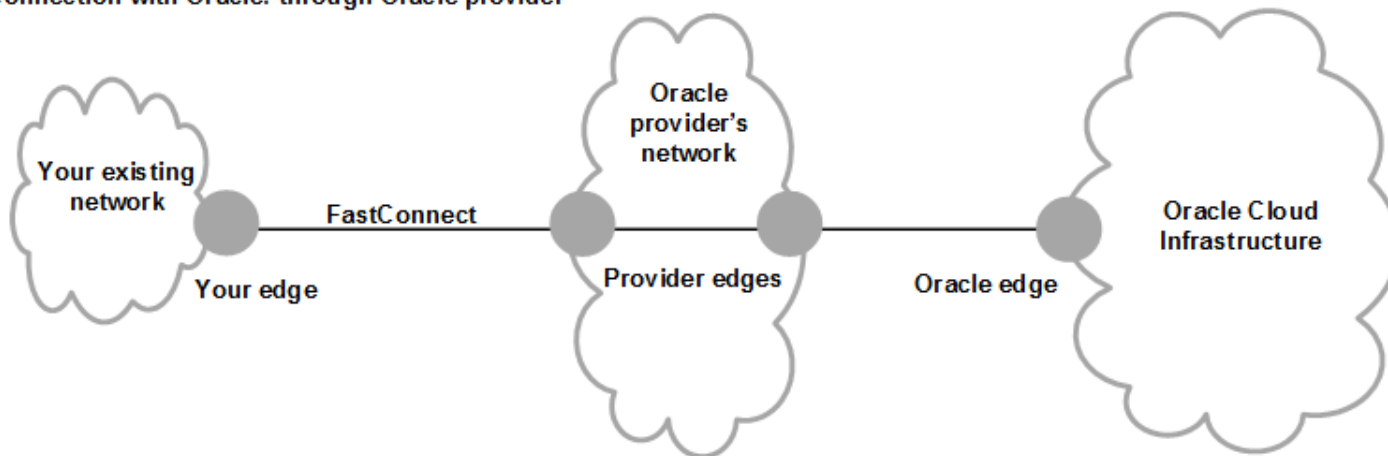
- Connect to OCI directly or via pre-integrated Network Partners
- Port speeds of 1 Gbps and 10 Gbps increments
- Extend remote datacenters into Oracle (“**Private peering**”) or connect to Public resources (“**Public peering**”)
- No charges for inbound/outbound data transfer
- Uses BGP protocol

FastConnect Scenarios

Connection with Oracle: colocation in data center



Connection with Oracle: through Oracle provider



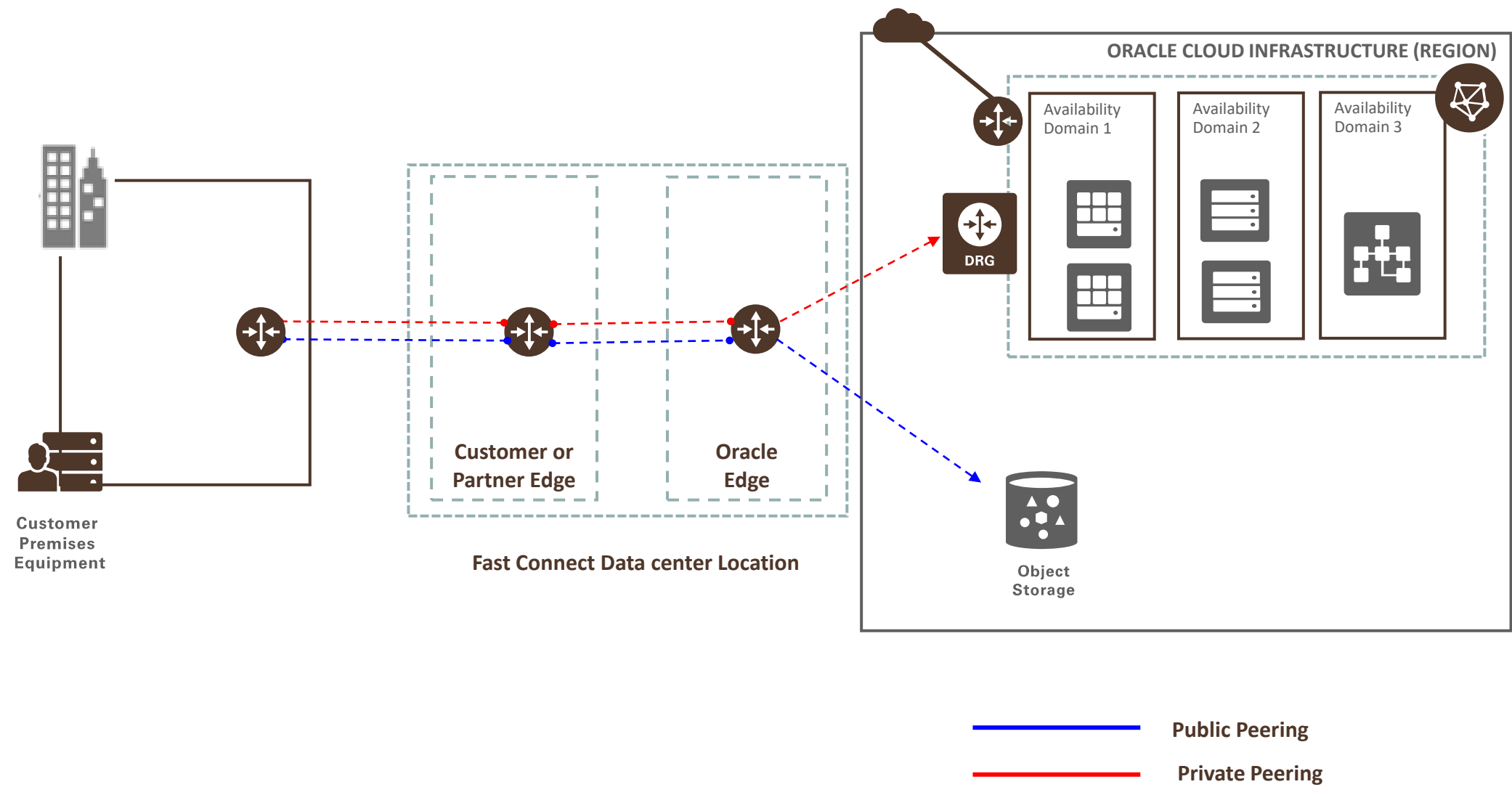
Virtual Circuit

- 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

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 a virtual circuit

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 a virtual circuit

Networking » FastConnect » Connection Detail



PENDING PROVIDER

FCMegaPort

Delete

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

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

2. Setup Megaport Connection

Secure | <https://megaport.ai/dashboard>

Megaport
PORTAL

Dashboard Company Tools Megaport Exchange 2 Oracle

Saved Items

Fc_demo_us_grp@Oracle.Com - June 19th 2018, 4:34pm PDT

Load

Create Megaport Create MCR

FILTER

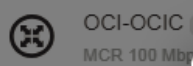
| | | | |
|------------------------|---|--------------|--------------|
| OCI-OCIC #4f7ba232 | MCR 100 Mbps (200% allocated) - Digital Realty ASH1, Ashburn, USA | + Connection | |
| | MCR-OCI-Connection #cf2ab2e9 | | ORACLE Cloud |
| | A End VXC (100 Mbps) - OCI (us-ashburn) Primary (BMC) | | |
| | MCR-OCIC-Connection #0e1f8c6a | | ORACLE Cloud |
| | A End VXC (100 Mbps) - Oracle | | |
| OCI-MCR-Demo #2700c63f | MCR 1 Gbps (210% allocated) - Digital Realty ASH1, Ashburn, USA | + Connection | |
| | AWS-OCI-Demo #a92d8363 | | ORACLE Cloud |
| | A End VXC (1 Gbps) - OCI (us-ashburn) Secondary (BMC) | | |
| | AWS-OCI-Demo #c7884385 | | aws |
| | A End VXC (100 Mbps) - US East (Ohio) (us-east-2) | | |
| | AWS-OCI-VXC2 #1c88682a | | ORACLE Cloud |
| | A End VXC (1 Gbps) - OCI (us-ashburn) Primary (BMC) | | |

Create a
Virtual Circuit



Create Megaport

Create MCR



OCI-OCIC #4ffb232

MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps



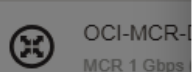
MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps



MCR 100 Mbps

New Connection

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







Select Provider *

- | | | |
|---|--|----------------------------------|
|  | AMS-IX 4 Ports | <input type="radio"/> |
|  | AWS 29 Ports | <input type="radio"/> |
|  | Alibaba Cloud Computing Ltd 7 Ports | <input type="radio"/> |
|  | Azure ExpressRoute 84 Ports | <input type="radio"/> |
|  | Google Inc 31 Ports | <input type="radio"/> |
|  | Oracle 10 Ports | <input checked="" type="radio"/> |
|  | Salesforce.Com Inc 8 Ports | <input type="radio"/> |
|  | Webair 1 Ports | <input type="radio"/> |

Oracle Virtual Circuit ID ★

| Age Group | Percentage |
|-----------|------------|
| 18-24 | 12.5% |
| 25-34 | 28.6% |
| 35-44 | 22.3% |
| 45-54 | 18.9% |
| 55-64 | 10.1% |
| 65-74 | 5.7% |
| 75-84 | 1.8% |
| 85+ | 0.1% |

Choose From Available Oracle Ports *

- | | | |
|---|---|---|
|  | OCI (Us-Ashburn) Primary (BMC) Oracle At Equinix DC2/8 |  |
|  | 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 *

Test_FC|

Invoice Reference

Rate Limit *

MAX: 1000 Mbps

1000

[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

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


Back To Dashboard

← Back

Add To Cart



Test_FC

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



\$0.00 USD



Monthly charge excluding taxes



Save Cart

Check-Out



Create Megaport



Create MCR



OCI-OCIC 

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



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



A End VXC (100 Mbps) - Oracle



OCI-MCR-Demo 

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



AWS-OCI-Demo 

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



AWS-OCI-Demo 

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



AWS-OCI-VXC2 

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](#)

[Networking](#) » [FastConnect](#) » Connection Detail



UP

FCMegaPort

Delete

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

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

Resources

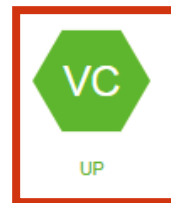
[Virtual Circuits \(1\)](#)

List Scope

COMPARTMENT

intoraclero hit (root)

Virtual Circuits *in* intoraclero hit (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



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.qcloudable.com/provider/oracle

Oracle learning library videos on YouTube:

youtube.com/user/OracleLearning