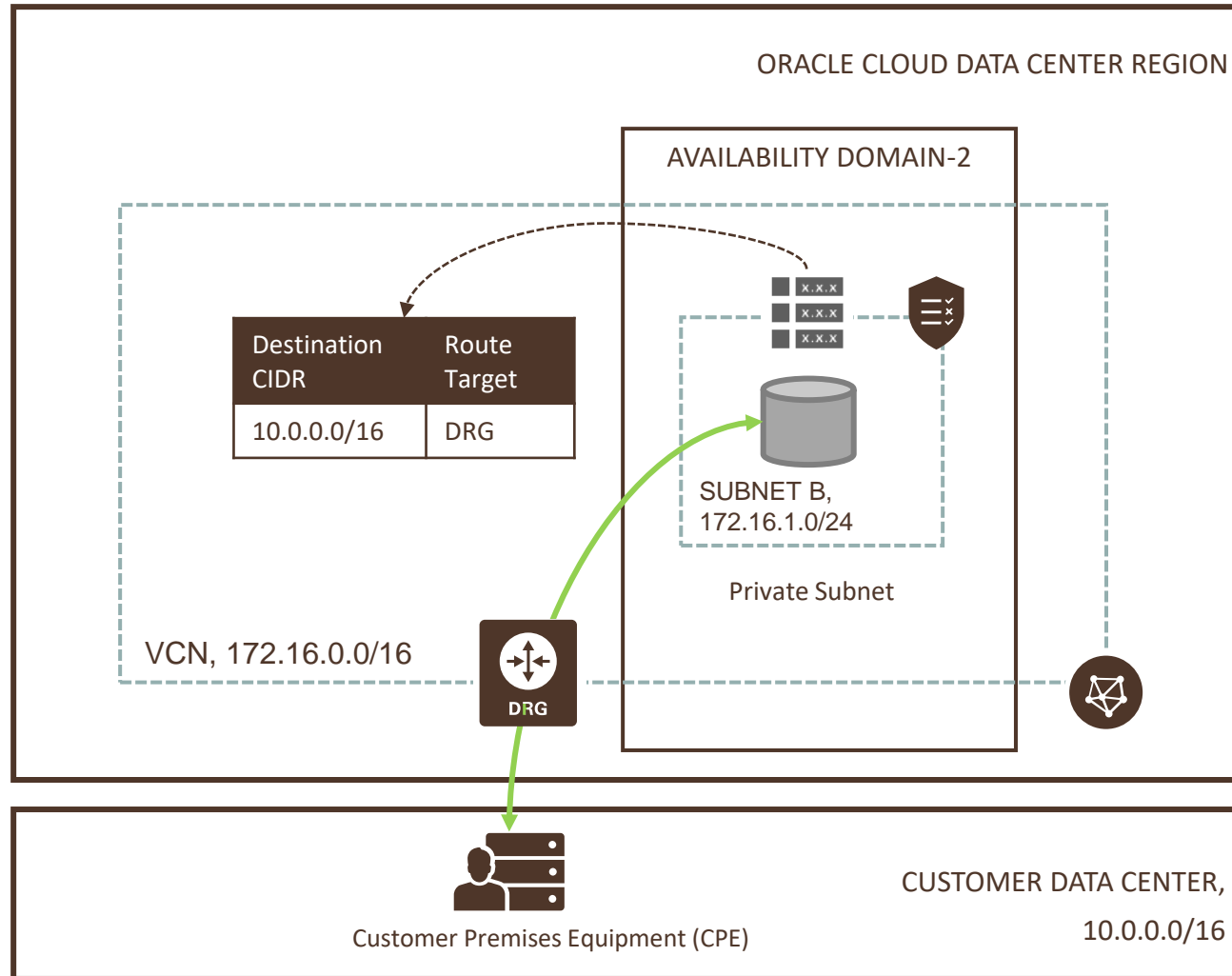




ORACLE

# 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

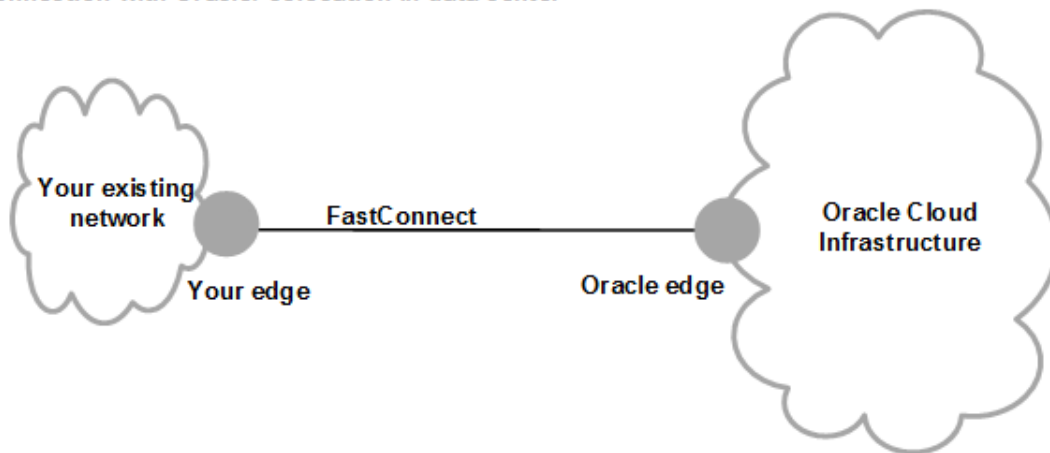
# FastConnect

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

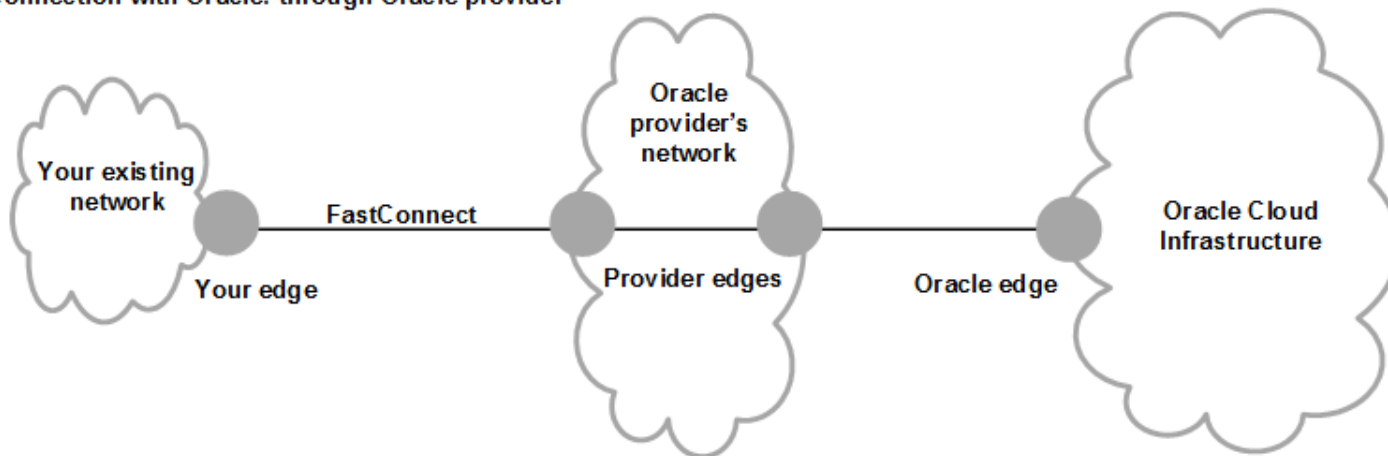
- Connect to OCI directly or via pre-integrated Network Partners
- Port speeds of 1 Gbps and 10 Gbps increments
- Extend remote datacenters into Oracle (“**Private peering**”) or connect to Public resources (“**Public peering**”)
- No charges for inbound/outbound data transfer
- Uses BGP protocol

# FastConnect Scenarios

Connection with Oracle: colocation in data center



Connection with Oracle: through Oracle provider



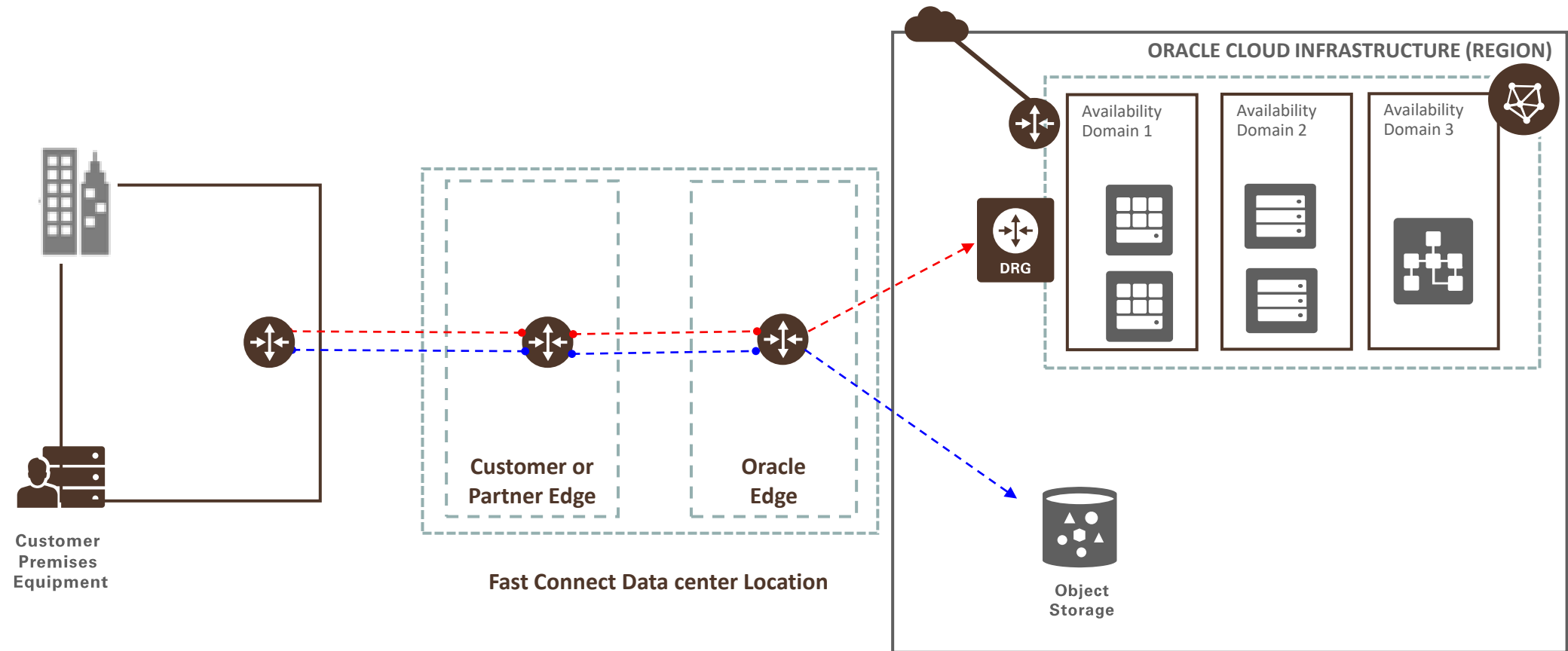
# Virtual Circuit

- 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



Public Peering  
Private Peering





# 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

The screenshot displays the Megaport Portal interface. At the top, there is a navigation bar with links for Dashboard, Company, Tools, Megaport Exchange (with a green checkmark and the number 2), and Oracle. Below the navigation bar, there are two blue buttons: 'Create Megaport' and 'Create MCR'. On the left side, there is a 'Saved Items' section with a list of items and a 'Load' button. The main content area shows a list of connections. The first connection is 'OCI-OCIC' with ID #4f7ba232, which is an MCR 100 Mbps (200% allocated) - Digital Realty ASH1, Ashburn, USA. It has two sub-connections: 'MCR-OCI-Connection' with ID #cf2ab2e9 and 'MCR-OCIC-Connection' with ID #0e1f8c6a. The second connection is 'OCI-MCR-Demo' with ID #2700c63f, which is an MCR 1 Gbps (210% allocated) - Digital Realty ASH1, Ashburn, USA. It has three sub-connections: 'AWS-OCI-Demo' with ID #a92d8363, 'AWS-OCI-Demo' with ID #c7884385, and 'AWS-OCI-VXC2' with ID #1c88682a. A red box highlights the '+ Connection' button next to the 'OCI-MCR-Demo' connection, and a red arrow points from this button to the text 'Create a Virtual Circuit'.

OCI-OCIC #4f7ba232  
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 #0e1f8c6a  
A End VXC (100 Mbps) - Oracle

OCI-MCR-Demo #2700c63f  
MCR 1 Gbps (210% 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)

Create a Virtual Circuit

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

11

### Select Destination

### Choose Destination



Private VXC



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**  
84 Ports



**Google Inc**  
31 Ports



**Oracle**  
10 Ports



**Salesforce.Com Inc**  
8 Ports



**Webair**  
1 Ports



Back To Dashboard

### Oracle Virtual Circuit ID \*

ocid1.virtualcircuit.oc1.iad.aaaaaaaavmd2lbw4ievszxcz2jp55mxiszvdrccxx27jw6voopv2r3

### 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

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

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 #4ffb232

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](#)

[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*



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/](https://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](https://ocitraining.qcloudable.com/provider/oracle)

**Oracle learning library videos on YouTube:**

[youtube.com/user/OracleLearning](https://youtube.com/user/OracleLearning)