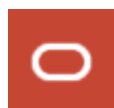


Hands On Lab 1 Conexión OCI desde Equinix.



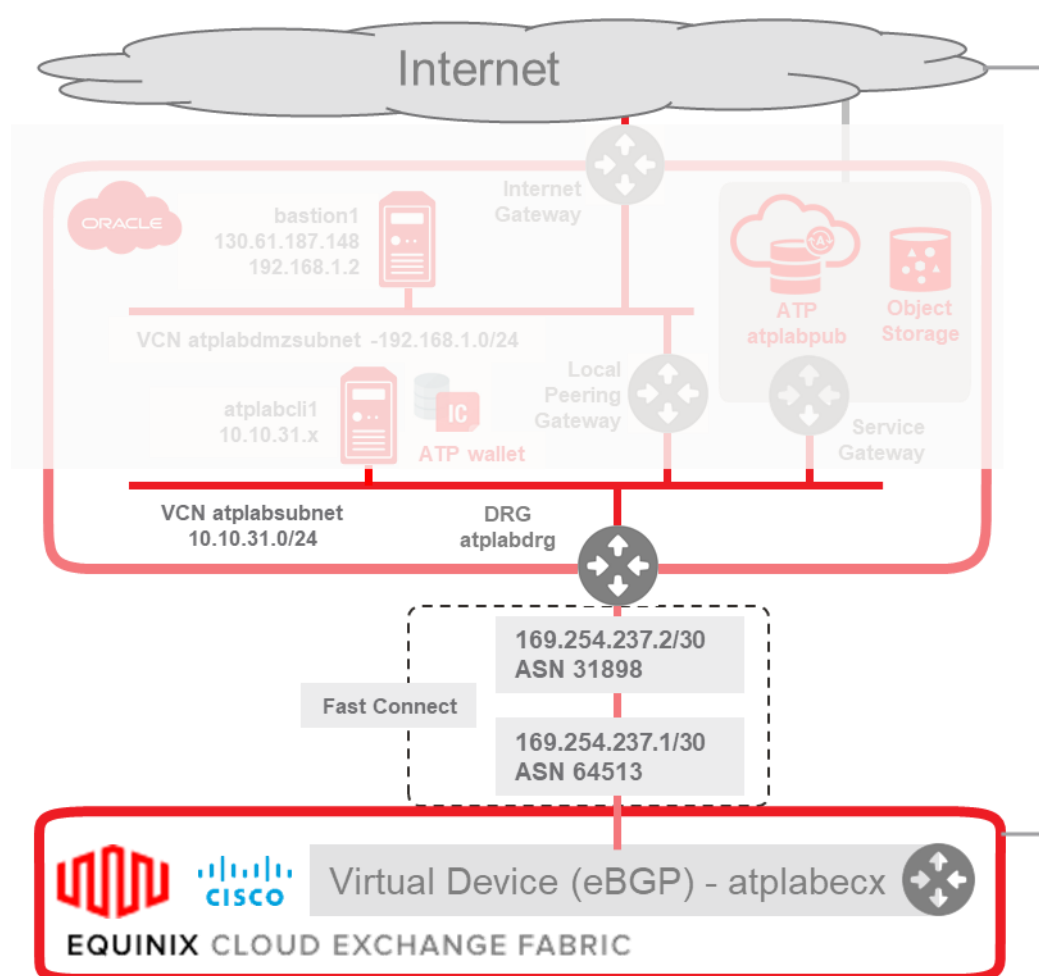
Indice

HANDS ON LAB 1 CONEXIÓN OCI DESDE EQUINIX.....	1
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Objetivo del Laboratorio

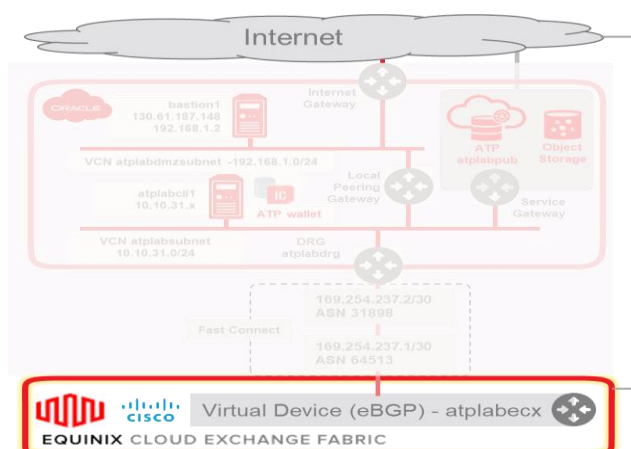
El objetivo de este laboratorio es crear la red de comunicaciones entre Oracle Cloud Infrastructure (OCI) y el proveedor de conexión de Data Center Equinix a través de Fast Connect y Equinix Cloud Exchange Fabric. También dejará preparado el Dynamic Route Gateway (DRG) en OCI para conectar en los siguientes laboratorios las redes desde Amazon AWS y Google Cloud Platform (GCP).



Configuración desde la parte de Equinix:

¿Qué voy a hacer?

Va a crear el router virtual de Equinix cloud Exchange fabric para poder realizar más adelante la configuración eBGP con OCI.



Conexiones:

Consola Equinix	https://ecxfabric.equinix.com
Usuario	Utilice las credenciales proporcionadas
Clave	Utilice las credenciales proporcionadas

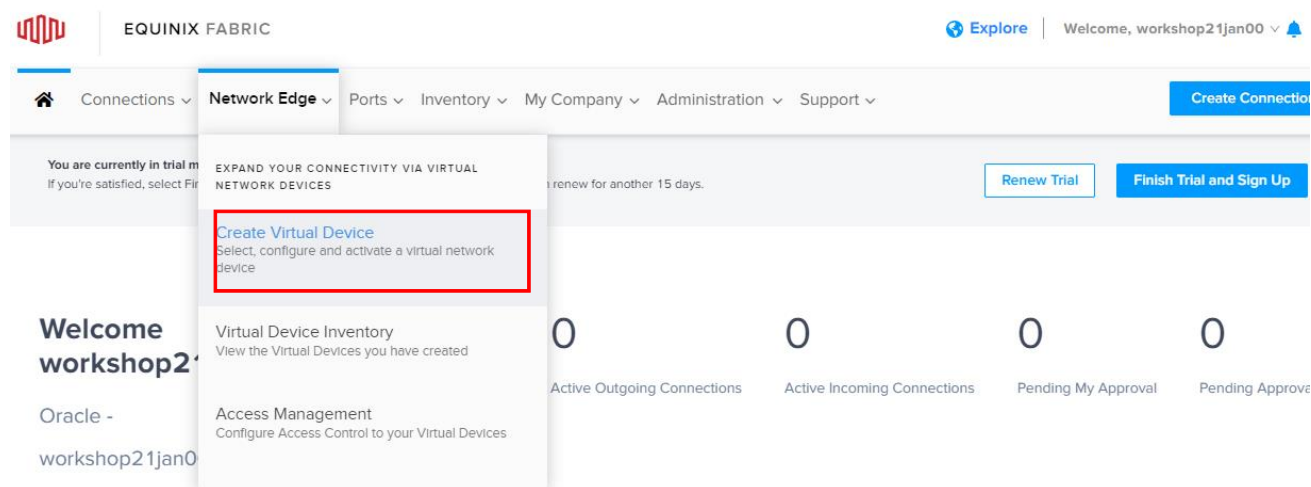
En primer lugar, hacemos log in en la consola de inicio de Equinix con nuestro nombre de usuario y contraseña.

The screenshot shows the Equinix Cloud Exchange Fabric (ECX Fabric) login interface. At the top, the Equinix logo is displayed. Below it, the text 'Log In' is followed by a welcome message: 'Welcome to ECX Fabric. Please sign in to continue.' The login form includes a 'Username' field (containing 'm') and a 'Password' field (masked with dots). There are 'Forgot your Username or Password?' and 'Don't have an account? Request an account' links. A blue 'Log In' button is located at the bottom right of the form.

Una vez dentro, accedemos a la consola de administración de cloud en Equinix. Desde aquí podemos crear tanto conexiones a nuestros clouds como configuraciones de red.

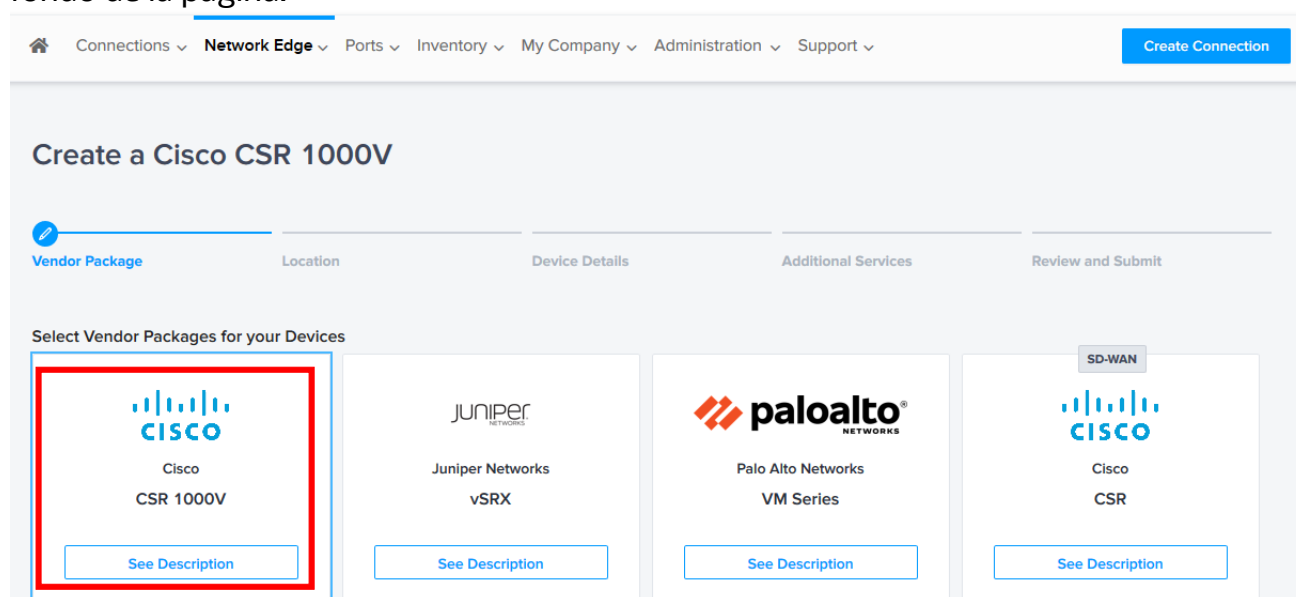


Para empezar, vamos a crear un nuevo dispositivo virtual 'Create Virtual Device'.



Va a crear un router **CISCO CSR 1000V**. Por favor siga la configuración paso a paso.

En la siguiente pantalla escoja Cisco CSR 1000V y haga click en el botón 'Continue' al fondo de la página:



Dentro del paso a paso para crear este router, hay que proporcionar datos como la región en la que se va a ubicar el dispositivo. El primer paso es seleccionar la región en la que se va a situar el router (en este caso **Frankfurt**).



Create a Cisco CSR 1000V

✓ Vendor Package
✎ Location
Device Details
Additional Services
Review and Submit

Select Virtual Device Location

Choose the Metro where this new Virtual Device will be deployed.

Select Metro

Silicon Valley

Ashburn

Chicago

Dallas

London

Frankfurt

Amsterdam

Singapore

Sydney

Back

Cancel

Next: Device Details

En segundo lugar, hay que nombrar el dispositivo y el host en el que se encuentra. Seleccione la licencia de ancho de banda para el router, y proveer un correo electrónico para recibir notificaciones.

Device name	Atplabecx
Host name prefix	Atplabecx
Mail	Your mail
Select License Throughput	50 Mbps
Software Package & Version	La última versión que aparezca (16.09.05)



Create a Cisco CSR 1000V



Vendor Package



Location



Device Details

Additional Services

Device Configuration

Select an option: have Equinix configure your device or configure it yourself.

Equinix-Configured

Equinix will configure connectivity for your device via the ECX Fabric portal. This configuration includes services like VPN and BGP. This type of device has restricted access.

Self-Configured

Provision and configure your own services. This type of device has less restricted access.

Licensing

Would you like Equinix to provide a license or will you provide your own license?


Subscription

Equinix provides the software license for you, then bills you for the service. This option includes end-to-end support.

Bring your Own License

Use your existing software license. This option includes limited Equinix support.

Device Resources

Select the appropriate resource below. 

2 Cores, 4 GB Memory

4 Cores, 4 GB Memory

6 Cores, 4 GB Memory

Software Package

Select software package 

Security

Version

Select a version 

16.09.02

16.09.03

16.09.05



License Throughput
Select a license throughput. ⓘ

50 Mbps 1 Gbps 2.5 Gbps 5 Gbps 10 Gbps

Virtual Device Details
Device Name ⓘ
Atplabex ✓
Host Name Prefix ⓘ
Atplabex ✓

Optional Details
Order Reference/Identifier Optional
Enter a short name/number to identify this order on the invoice.
Reference ⓘ

0/100

Interfaces
Select the number of interfaces for your device
6 Interfaces (Default) ▾

Device Status Notifications
Enter up to 5 email address(es) that will receive device status notifications.
 ✓
[Add Email\(s\)](#)

[Back](#) [Cancel](#) [Delete Draft Device](#) [Save](#) [Next: Additional Services](#)

Seleccione el botón **Next Additional Services** para añadir nuevos usuarios, así como IPs de acceso al dispositivo recién creado.

Esta parte no se utilizará realmente en el laboratorio por lo que puede obviar esta configuración y pasar directamente por el siguiente menú sin hacer nada.

El último paso de este proceso sería revisar todos los datos introducidos para ello pulse sobre el botón **Next: Review**.



Create a Cisco CSR 1000V



Add Users

Define up to 5 distinct user credentials that will be loaded as an access control list for users accessing your Edge Device via SSH/HTTPS.

☐ Primary Device

Add Access IP Addresses

Define one or more IP address subnets that will be loaded as an access control list for users accessing your virtual device.

☐ Primary Device

Back

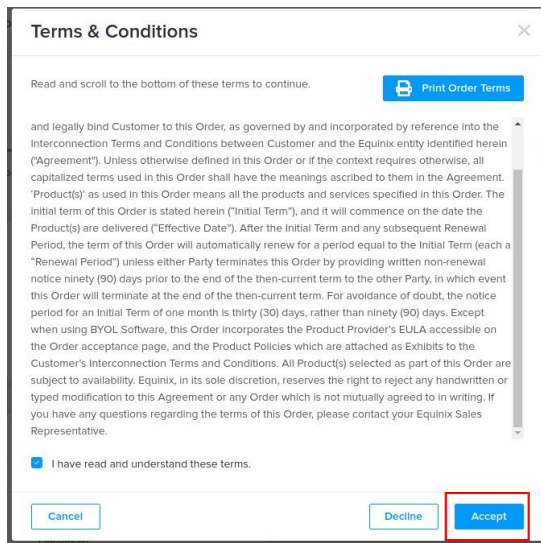
Cancel

Save

Next: Review



A continuación, aceptar los términos y condiciones.



Terms & Conditions

Read and scroll to the bottom of these terms to continue. [Print Order Terms](#)

and legally bind Customer to this Order, as governed by and incorporated by reference into the Interconnection Terms and Conditions between Customer and the Equinix entity identified herein ("Agreement"). Unless otherwise defined in this Order or if the context requires otherwise, all capitalized terms used in this Order shall have the meanings ascribed to them in the Agreement. "Product(s)" as used in this Order means all the products and services specified in this Order. The initial term of this Order is stated herein ("Initial Term"), and it will commence on the date the Product(s) are delivered ("Effective Date"). After the Initial Term and any subsequent Renewal Period, the term of this Order will automatically renew for a period equal to the Initial Term (each a "Renewal Period") unless either Party terminates this Order by providing written non-renewal notice ninety (90) days prior to the end of the then-current term to the other Party, in which event this Order will terminate at the end of the then-current term. For avoidance of doubt, the notice period for an Initial Term of one month is thirty (30) days, rather than ninety (90) days. Except when using BYOL Software, this Order incorporates the Product Provider's EULA accessible on the Order acceptance page, and the Product Policies which are attached as Exhibits to the Customer's Interconnection Terms and Conditions. All Product(s) selected as part of this Order are subject to availability. Equinix, in its sole discretion, reserves the right to reject any handwritten or typed modification to this Agreement or any Order which is not mutually agreed to in writing. If you have any questions regarding the terms of this Order, please contact your Equinix Sales Representative.

☒ I have read and understand these terms.

[Cancel](#) [Decline](#) [Accept](#)

Y por último pulsar sobre el botón **Create Edge Device** para crear el dispositivo de red en Equinix.



Create a Cisco CSR 1000V

Vendor Package Location Device Details Additional Services Review and Submit

Device Preview



Atplabecx
Frankfurt
Cisco | CSR 1000V | Router

Device Details

Virtual Device Name	Atplabecx
Host Name Prefix	Atplabecx
Location	Frankfurt
Device Type	Router
Vendor	Cisco
Model	CSR 1000V
Device Configuration	Equinix-Configured
License	Sub
Device Resources	2 Cores, 4 GB Memory
Software Package	Security
Version	16.09.05
License Throughput	50 Mbps
Interfaces	6
Term Length	1 Month(s)
Device Notification Email(s)	workshop2020101401@mybestdemo.com

Terms & Conditions

Before your order can be submitted, you must do two things. 1. Click on the Vendor terms and 2. Click on the Order Terms, then review and accept them.

[Order Terms](#) | ☒ Accepted

Additional Services

SSH/HTTPS Access	Not Enabled
Access IP Addresses Subnet(s) or FQDN(s)	No IP or network address was added to the access list

Back

Cancel

Delete Draft Device

Save

Create Virtual Device

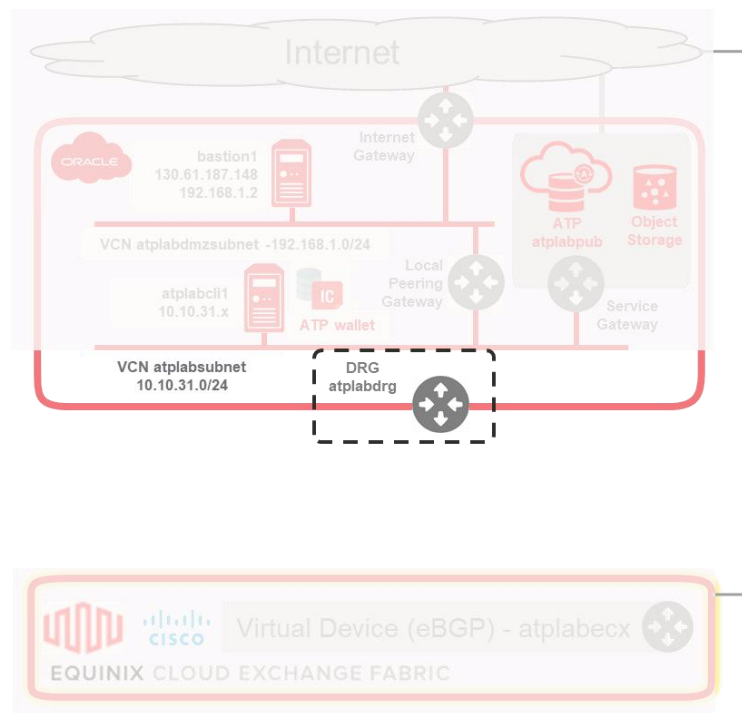
El dispositivo tardará unos minutos en ser provisionado. Durante este tiempo, puede continuar con el workshop.



Configuración de red desde Oracle Cloud Infrastructure.

¿Qué voy a hacer?

Va a crear un Dynamic Routing Gateway DRG en OCI. Este DRG se usará para realizar el tráfico de red entre OCI y Equinix al resto de redes y también a los servicios SaaS de OCI.

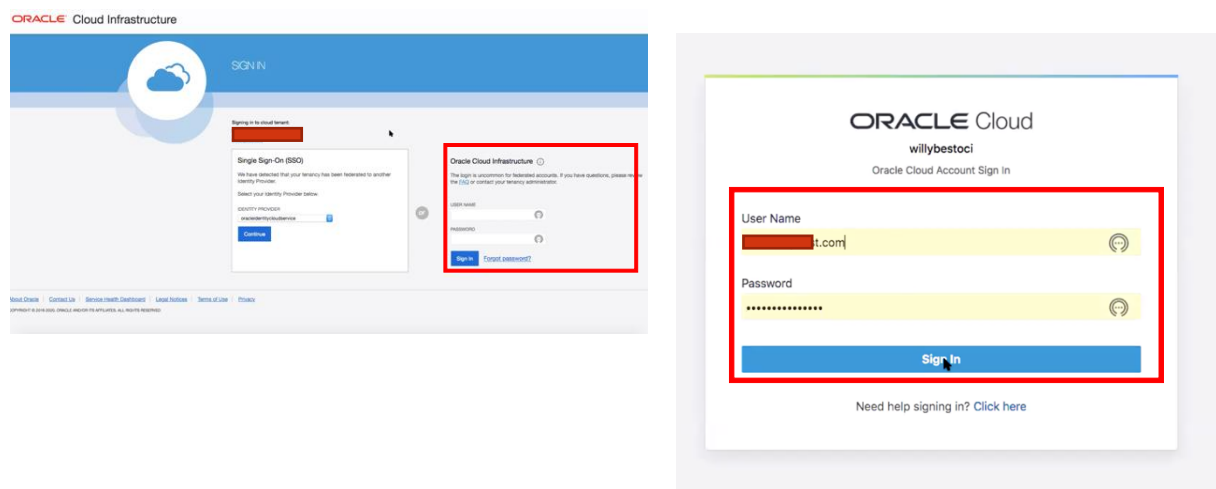


En primer lugar, debe ir a la pantalla de log-in, introducir el nombre de tenant de nuestra cuenta de cloud de Oracle.

OCI URL	https://console.eu-frankfurt-1.oraclecloud.com/
Tenant	Utilice las credenciales proporcionadas
User name	Utilice las credenciales proporcionadas
Password	Utilice las credenciales proporcionadas



Le aparecerá una pantalla para introducir nombre de usuario y contraseña.



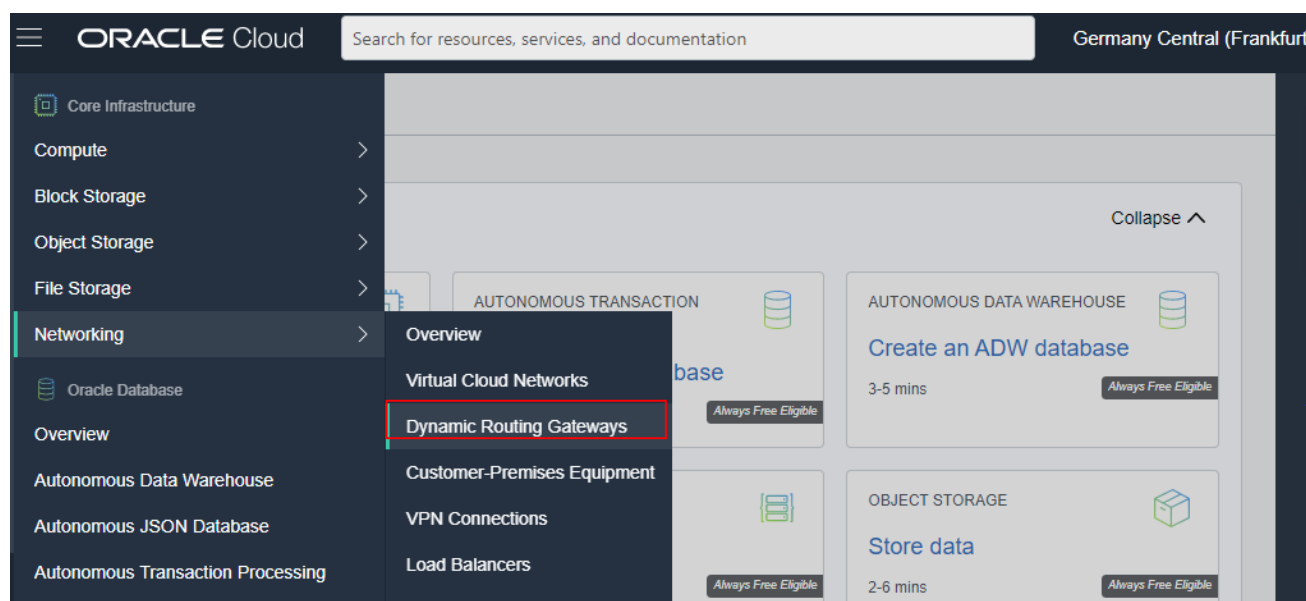
Una vez hecho esto, tendrá acceso al Dashboard de OCI (Oracle Cloud Infrastructure). Lo primero es **acceder a la configuración de Dynamic Routing Gateway**.

Un **Dynamic Routing Gateway**, permite conectar redes desde el cloud de Oracle a otros dispositivos fuera de este cloud, en este caso, utilizaremos esta puerta de enlace para **conectar nuestra red de Oracle Cloud Infrastructure con el router de Equinix**.

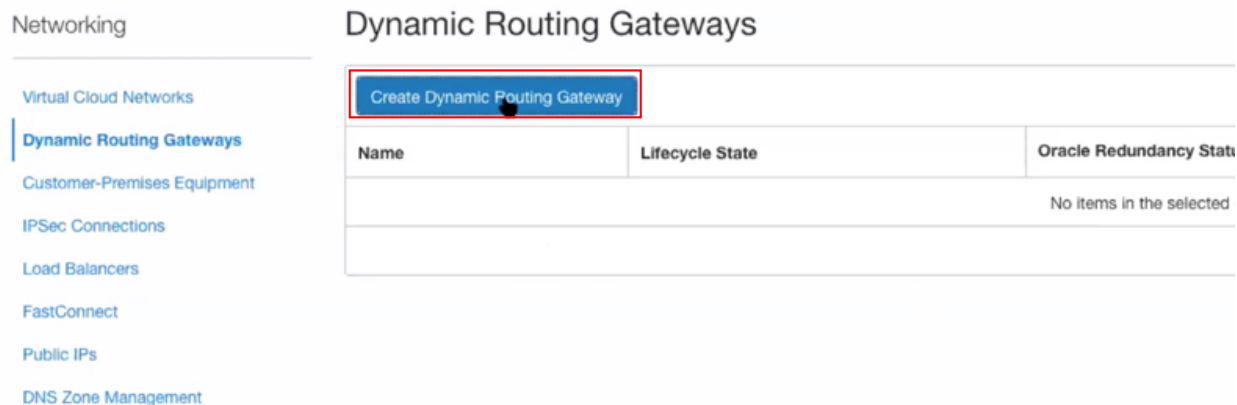
Para más información consulte el siguiente enlace a la documentación de Oracle:

<https://docs.cloud.oracle.com/en-us/iaas/Content/Network/Tasks/managingDRGs.htm>

En el menú principal de Oracle Cloud Infrastructure (icono hamburguer), en la **sección de networking**, debe seleccionar la **opción Dynamic routing gateways**.



Una vez dentro, debe pulsar el botón **Create Dynamic Routing Gateway**.



Networking

Virtual Cloud Networks

Dynamic Routing Gateways

Customer-Premises Equipment

IPSec Connections

Load Balancers

FastConnect

Public IPs

DNS Zone Management

Create Dynamic Routing Gateway

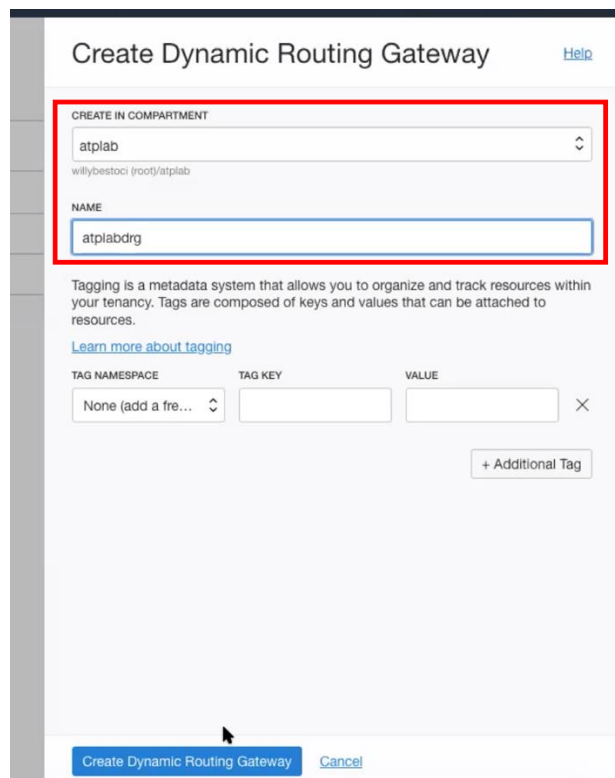
Name	Lifecycle State	Oracle Redundancy State
No items in the selected		

Le aparecerá en la parte derecha de la pantalla un paso a paso para crear el Dynamic Routing Gateway.

Seleccione un **compartment** y un **nombre** para esta nueva entidad.

En este caso se introducirán los siguientes datos:

Compartment	Atplab
Name	atplabdrgr



Create Dynamic Routing Gateway [Help](#)

CREATE IN COMPARTMENT

atplab

willybestoci (root)/atplab

NAME

atplabdrgr

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE TAG KEY VALUE

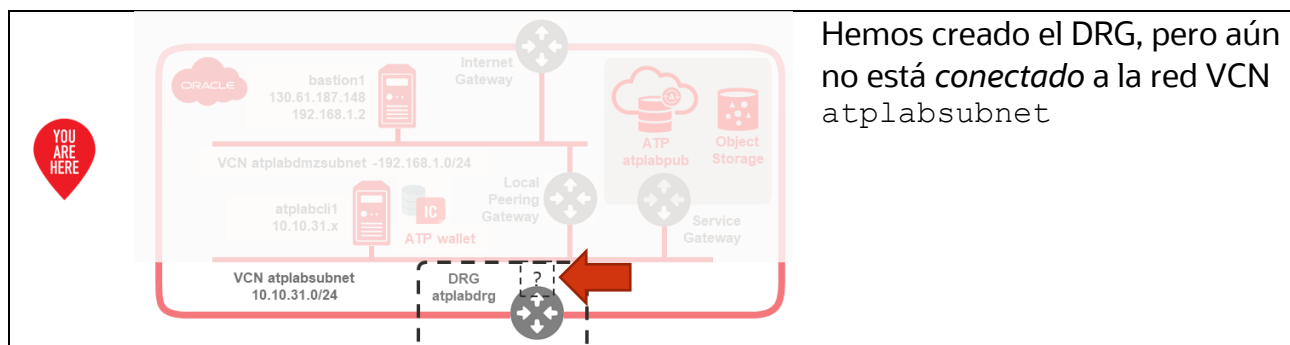
None (add a fre...) [] [] X

+ Additional Tag

Create Dynamic Routing Gateway Cancel



Una vez creado, aparecerá el panel principal de Dynamic Routing Gateway. Seleccione el nuevo DRG pulsando sobre su nombre.



A continuación, hay que asociarlo a una red Privada Virtual (VCN). Para ello, vaya a la sección **Virtual Cloud Networks**.

Networking » Dynamic Routing Gateways » atplabdrg » Virtual Cloud Networks

atplabdrg

[Edit](#) [Add Tags](#) [Move Resource](#) [Terminate](#)

DRG

AVAILABLE

Dynamic Routing Gateway Information

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

Created: Mon, Jan 25, 2021, 5:56:24 PM UTC

Oracle Redundancy Status: —

Virtual Cloud Networks

[Attach to Virtual Cloud Network](#)

Name	Lifecycle State	CIDR Block	Attachment State	Attachment Route Table
No items found in this compartment.				

[Attach to Virtual Cloud Network](#)

Resources

- [IPSec Connections \(0\)](#)
- [Virtual Cloud Networks \(0\)](#)**
- [Virtual Circuits \(0\)](#)
- [Remote Peering Connections \(0\)](#)

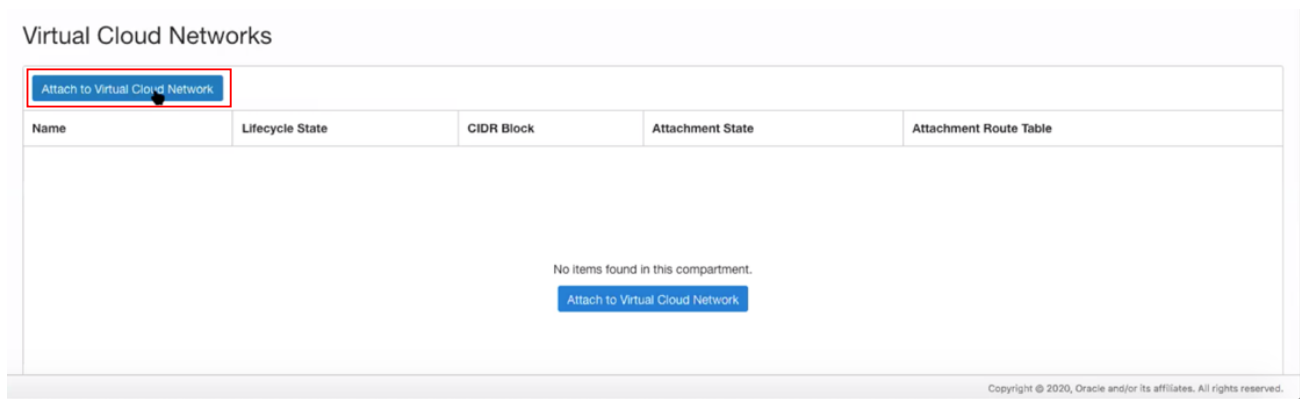
List Scope

COMPARTMENT

atplab

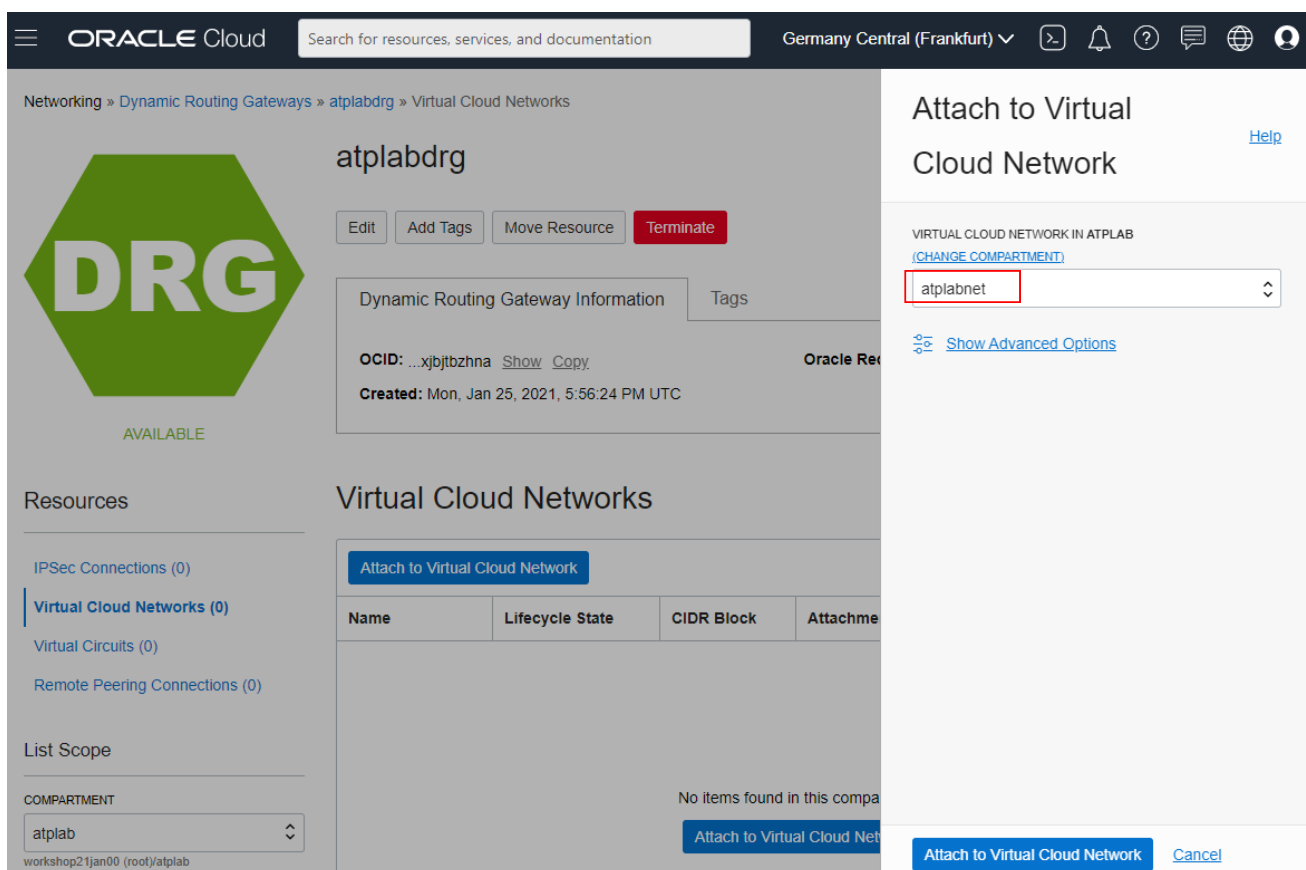
Pulse sobre el botón **Attach to Virtual Cloud Network** para asociar el DRG a la red privada.





Al pulsar en el botón para conectar una red privada virtual, aparecerá un menú de configuración paso a paso en la parte derecha de la pantalla.

En esta ocasión, **seleccione la VCN que se conectará a este Dynamic Routing Gateway -> atplabnet**



Pulse El botón **Attach to Virtual Cloud Network** para continuar.

Una vez hecho esto, podrá ver la red **conectada** a nuestro Gateway.





AVAILABLE

atplabdrg

Edit

Add Tags

Move Resource

Terminate

Dynamic Routing Gateway Information

Tags

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

Oracle Redundancy Status: —

Created: Mon, Jan 25, 2021, 5:56:24 PM UTC

Resources

[IPSec Connections \(0\)](#)[Virtual Cloud Networks \(1\)](#)[Virtual Circuits \(0\)](#)[Remote Peering Connections \(0\)](#)

List Scope

COMPARTMENT

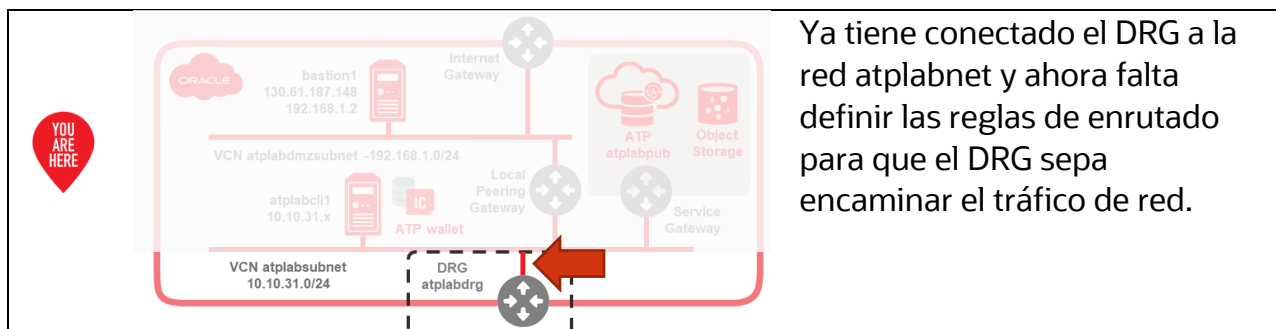
atplab

Virtual Cloud Networks

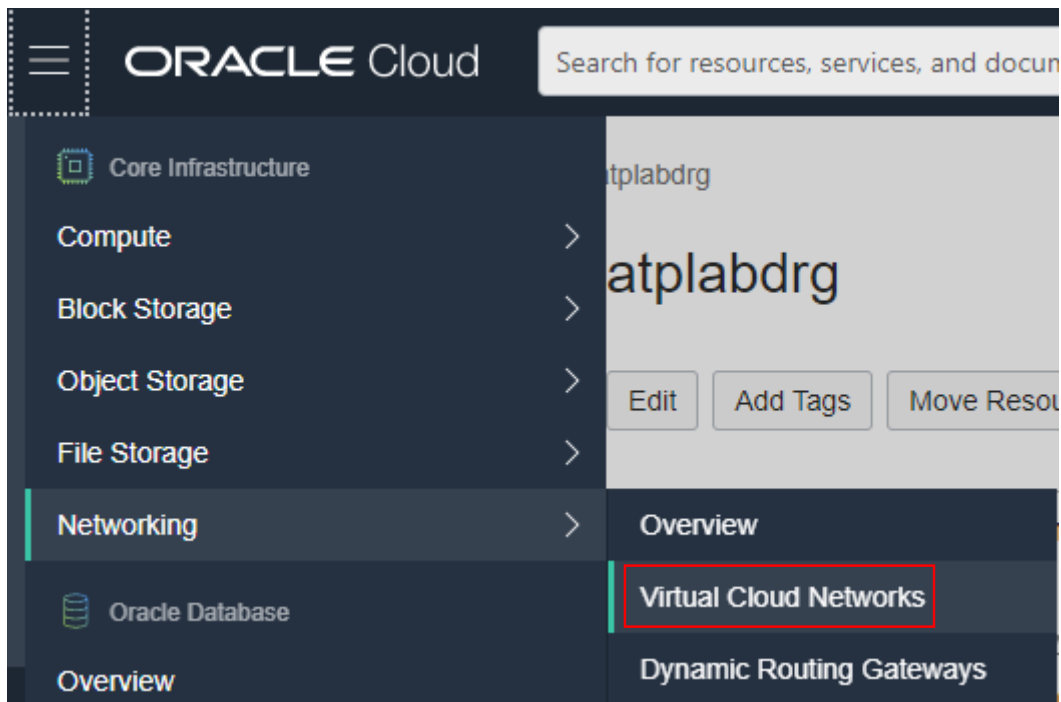
Attach to Virtual Cloud Network

Name	Lifecycle State	CIDR Block	Attachment State	Attachment Route Table
atplabnet	Available	10.10.31.0/24	Attached	—

Showing 1 Item



A continuación, en el menú principal de OCI (icono hamburguer), seleccione **Networking – > Virtual Cloud Networks**



Una vez en la sección de VCNs, seleccione la **red** que ha conectado a la **Dynamic routing Gateway (atplabnet)** y diríjase a la sección **route tables**.

A screenshot of the Oracle Cloud console showing the 'Virtual Cloud Networks in atplab Compartment' page. The left sidebar shows the 'Networking' section with 'Virtual Cloud Networks' selected. The main content area has a title 'Virtual Cloud Networks in atplab Compartment' and a description. Below the description are two buttons: 'Create VCN' and 'Start VCN Wizard'. A table lists the VCNs in the compartment. The first row, 'atplabnet', is highlighted with a red box. The table has columns for Name, State, CIDR Block, Default Route Table, and DNS Domain Name. The second row is 'atplabdmznet'. At the bottom right of the table, it says 'Showing 2 Items' and a pagination arrow pointing to '1'.

Name	State	CIDR Block	Default Route Table	DNS Domain Name
atplabnet	Available	10.10.31.0/24	Default Route Table for atplabnet	atplabnet.oraclevcn.com
atplabdmznet	Available	192.168.1.0/24	Default Route Table for atplabdmznet	atplabdmznet.oraclevcn.com



Resources

Subnets (1)
Route Tables (1)
Internet Gateways (0)
Dynamic Routing Gateways (1)
Network Security Groups (1)

Route Tables in atplab Compartment

Create Route Table

Name	State	Number of Rules	Created
Default Route Table for atplab	Available	3	Mon, Oct 26, 2020, 09:42:18 UTC

Showing 1 item < 1 of 1 >

Pulse en el botón **Create Route Table**. En este caso va a crear una ruta desde la red atplab hacia otras nubes.

Crear los campos según la siguiente tabla:

Name	routetablefordrg
Create In Compartment	atplab

Create Route Table
[Help](#)
[Cancel](#)

NAME

CREATE IN COMPARTMENT

workshop2020101401 (root)/atplab

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.

+ Additional Route Rule

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE

TAG KEY

VALUE

X

+ Additional Tag

Pulsar el botón **+ Additional Route Rule**, e informamos los siguientes campos:

Target Type	Dynamic routing Gateway
--------------------	-------------------------



Destination CIDR BLOCK	10.10.33.0/24
Description	To GCP

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.

TARGET TYPE

Dynamic Routing Gateway

DESTINATION CIDR BLOCK

10.10.33.0/24

Provide IPv4 or IPv6 address.

TARGET DYNAMIC ROUTING GATEWAY

Name: atplabdrg

Compartment: atplab

DESCRIPTION OPTIONAL

To GCP

Maximum 255 characters

+ Additional Route Rule



Pulsar nuevamente el botón **+ Additional Route Rule**, e informamos los siguientes campos:

Target Type	Dynamic routing Gateway
Destination CIDR BLOCK	10.10.32.0/24
Description	To AWS

TARGET TYPE

Dynamic Routing Gateway

DESTINATION CIDR BLOCK

10.10.32.0/24

Provide IPv4 or IPv6 address.

TARGET DYNAMIC ROUTING GATEWAY

Name: atplabdrg

Compartment: atplab

DESCRIPTION OPTIONAL

To AWS

Maximum 255 characters

+ Additional Route Rule

Pulsar nuevamente el botón **+ Additional Route Rule**, e informamos los siguientes campos:

Target Type	Dynamic routing Gateway
Destination CIDR BLOCK	10.10.34.0/24
Description	To AZURE



TARGET TYPE

Dynamic Routing Gateway

DESTINATION CIDR BLOCK

10.10.34.0/24

Provide IPv4 or IPv6 address.

TARGET DYNAMIC ROUTING GATEWAY

Name: atplabdrg

Compartment: atplab

DESCRIPTION OPTIONAL

To Azure

Maximum 255 characters

+ Additional Route Rule

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE	TAG KEY	VALUE
None (add a free-f...		

+ Additional Tag

Create Route Table Cancel

Y por último click en el botón Create Route Table.

Pulse sobre el nombre **routetablefordrg** para revisar las rutas recién creadas.





routetablefordrg

[Move Resource](#) [Add Tags](#) [Terminate](#)

Route Table Information

Tags

OCID: ...756pxq [Show](#) [Copy](#)

Compartment: atplab

Created: Mon, Jan 25, 2021, 18:07:06 UTC

Resources

Route Rules (3)

Route Rules

[Add Route Rules](#) [Edit](#) [Remove](#)

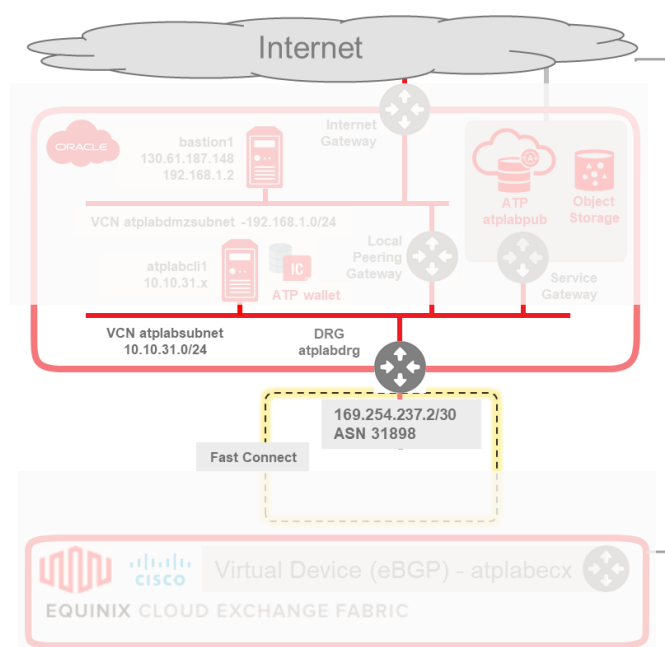
<input type="checkbox"/>	Destination	Target Type	Target	Description	
<input type="checkbox"/>	10.10.32.0/24	Dynamic Routing Gateways	atplabdr	To AWS	⋮
<input type="checkbox"/>	10.10.33.0/24	Dynamic Routing Gateways	atplabdr	to GCP	⋮
<input type="checkbox"/>	10.10.34.0/24	Dynamic Routing Gateways	atplabdr	to azure	⋮
0 Selected					Showing 3 Items < 1 of 1 >



Conexión Fast Connect

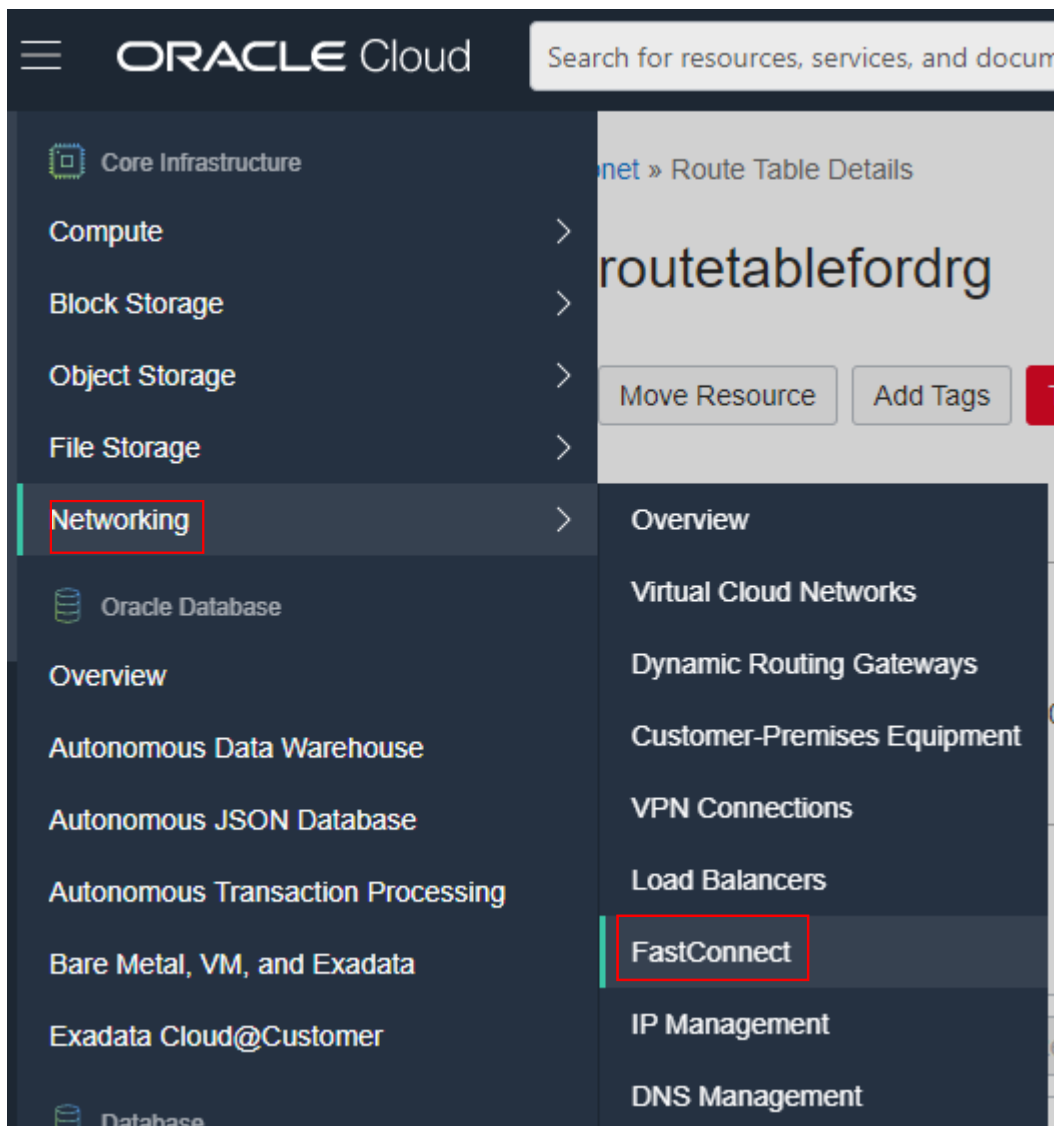
¿Qué voy a hacer?

Va a crear una conexión fast connect desde OCI a Equinix ECX para poder interconectar en los siguientes laboratorios con el resto de clouds.

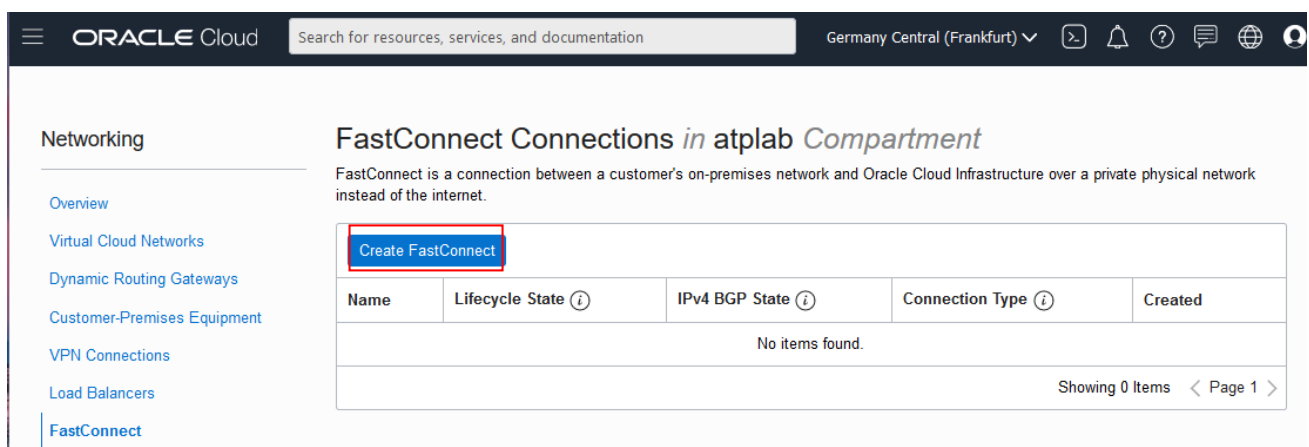


Una vez creadas las tablas de rutas hacia las nubes de Google, Amazon y Azure vaya al menú principal de OCI (icono hamburguer), y dentro de Networking, acceda a la sección Fast Connect





Pulse el botón para crear una nueva **Fast Connect** con Nombre del FastConnect: **atplabfc**



Seleccione el uso de un partner de Oracle y, después, seleccione Equinix.



Create Connection

[Help](#)

1 Connection Type

2 Configuration

Connection Type

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

CONNECTION TYPE

FastConnect Partner

Use this option if you have a relationship with a FastConnect partner. Here you set up the Oracle side of a virtual circuit that runs on the partner's connection. See the topics to the right.

FastConnect Direct

Use this option if you want a dedicated connection by the way of a third-party network partner or by colocating in a FastConnect POP. Here you request a cross-connect and receive the Letter of Authorization (LOA). After cabling is complete at the POP, you return here to activate the cross-connect and set up at least one virtual circuit. See the topics to the right.

Documentation

[List of FastConnect Partners](#)

[FastConnect Partner](#) (Setup steps)

[FastConnect Direct: Third-Party Partner](#) (Setup steps)

[FastConnect Direct: Colocate with Oracle](#) (Setup steps)

PARTNER

Equinix: Fabric

X

⌵

Next

Cancel

En el siguiente menú, introduzca los siguientes datos:

Name (optional)	atplabfc
Dynamic Routing Gateway	atplabdrg
Virtual Circuit Type	Private Virtual Circuit
Bandwith	1 GBPS
Customer BGP IP Address	169.254.237.1/30
Oracle BGP IP Address	169.254.237.2/30
Customer BGP ASN	64513



ORACLE Cloud

Germany Central (Frankfurt)

Create Connection

1 Connection Type
2 Configuration

NAME OPTIONAL

COMPARTMENT

workshop2020101401 (root)/atplab

VIRTUAL CIRCUIT TYPE

Private Virtual Circuit
Private IP addresses are advertised (typically RFC 1918). The connection uses a dynamic routing gateway that you attach to our VCN.

Public Virtual Circuit
Oracle Cloud Infrastructure public IP addresses are advertised (for example, for Object Storage). You also provide the public IP prefixes that you want to advertise.

DYNAMIC ROUTING GATEWAY IN **ATPLAB** (CHANGE COMPARTMENT)

PROVISIONED BANDWIDTH

BGP IP Addresses

CUSTOMER BGP IPV4 ADDRESS

Provide IPv4 Address: Example: 10.0.0.22/30

ORACLE BGP IPV4 ADDRESS OPTIONAL

Provide IPv4 Address: Example: 10.0.0.21/30

CUSTOMER BGP ASN

☐ USE A BGP MD5 AUTHENTICATION KEY OPTIONAL
Provide a key only if your system requires MD5 authentication.

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE	TAG KEY	VALUE
None (add a free-form tag)	<input type="text"/>	<input type="text"/>

+ Additional Tag

Previous

Create


Cancel

Espere que se provisione su **Fast Connect** unos minutos hasta que aparezca el estado **Pending Partner**



ORACLE Cloud Search for resources, services, and documentation Germany Central (Frankfurt)

Networking » FastConnect » Connection Detail



PENDING PARTNER

Connection Created

What's next?

Copy the OCID and give it to the partner to provision the virtual circuit from their end. When BGP State changes to UP, the virtual circuit is ready to test.

OCID: ...47ph5a [Show](#) [Copy](#)

Partner Portal: [Equinix](#)

[Close](#)

atplabfc

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Virtual Circuit Information BGP Information Tags

Lifecycle State: Pending Partner

IPv4 BGP State: Down

Partner Name: Equinix

Connection Type: Partner

Virtual Circuit Type: Private

Provisioned Bandwidth: 1 Gbps

Created: Mon, Jan 25, 2021, 18:18:40 UTC

BGP MD5 Authentication: Not Enabled

OCID: ...47ph5a [Show](#) [Copy](#)

Dynamic Routing Gateway: [atplabdrq](#)

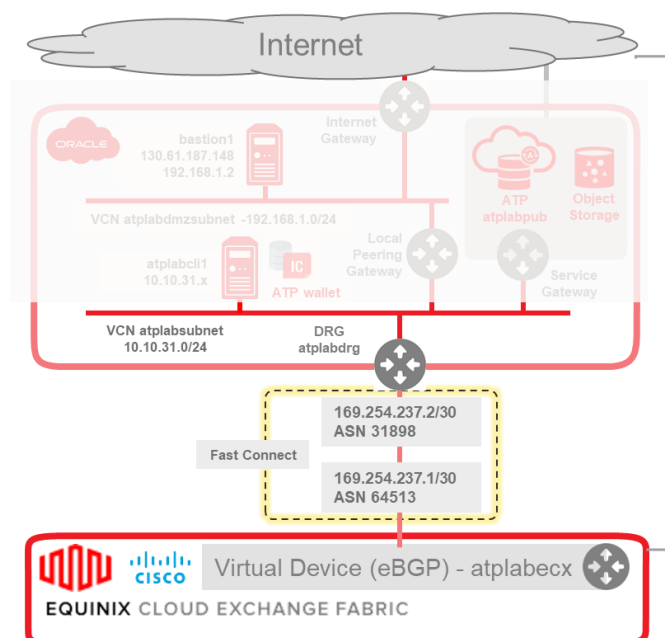
La conexión de FastConnect de OCI **no estará activa** hasta que no se haya configurado desde el lado de Equinix en el virtual Router.



Configuración desde Equinix para conectar Oracle Cloud

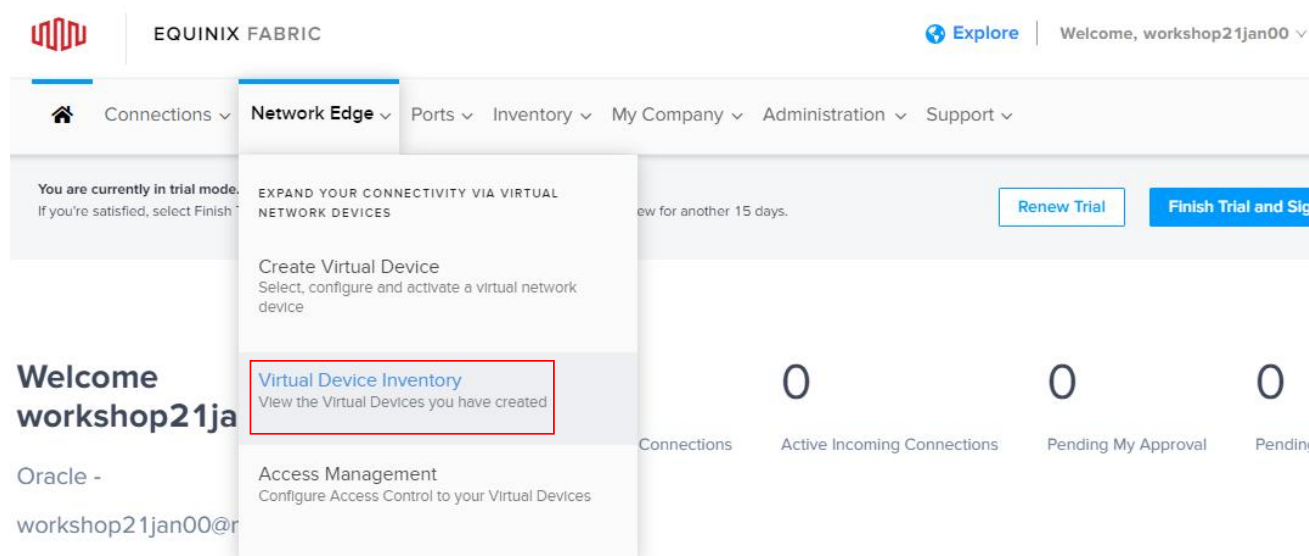
¿Qué voy a hacer?

Va a crear la conexión entre Equinix ECX y OCI fast connect que creó en el apartado anterior.



Vuelva a la consola de Equinix para comprobar que el Router que se ha creado al principio de este laboratorio ha sido **provisionado** correctamente.

En la consola Principal de Equinix debe seleccionar **Network Edge** y **Virtual Device Inventory** en el menú.



A continuación, seleccione su virtual router creado previamente [atpblabecx]

Inventory 0 Active Connections

Set Port Bandwidth Threshold Alert Create Connection

Connections Ports **Virtual Devices** Routing Instances Connectors Subscriptions IP Blocks

Virtual Devices Create Virtual Device

Filter by: Enter a virtual device name Location Virtual Device Status Hide Draft Devices

Cisco Juniper Networks Palo Alto Networks Fortinet Reset Filters

Viewing 1 of 1 Learn More

Device Status	Device Type	Virtual Device Name	License Status	Vendor	Model	Location	Last Modified
Up	Router	Atpblabecx	Registered	Cisco	CSR 1000V	Frankfurt	Oct 26 2020 13:50 GMT

Seleccione el botón **Crear conexión** y, en la sección de conexiones frecuentes, seleccione la conexión de Oracle Cloud.

Equinix FABRIC Explore Welcome, workshop21jan00

Connections Network Edge Ports Inventory My Company Administration Support

You are currently in trial mode. If you're satisfied, select Finish Trial and Sign Up. If you still need some more time, you can renew for another 15 days. Renew Trial Finish Trial and Sign Up

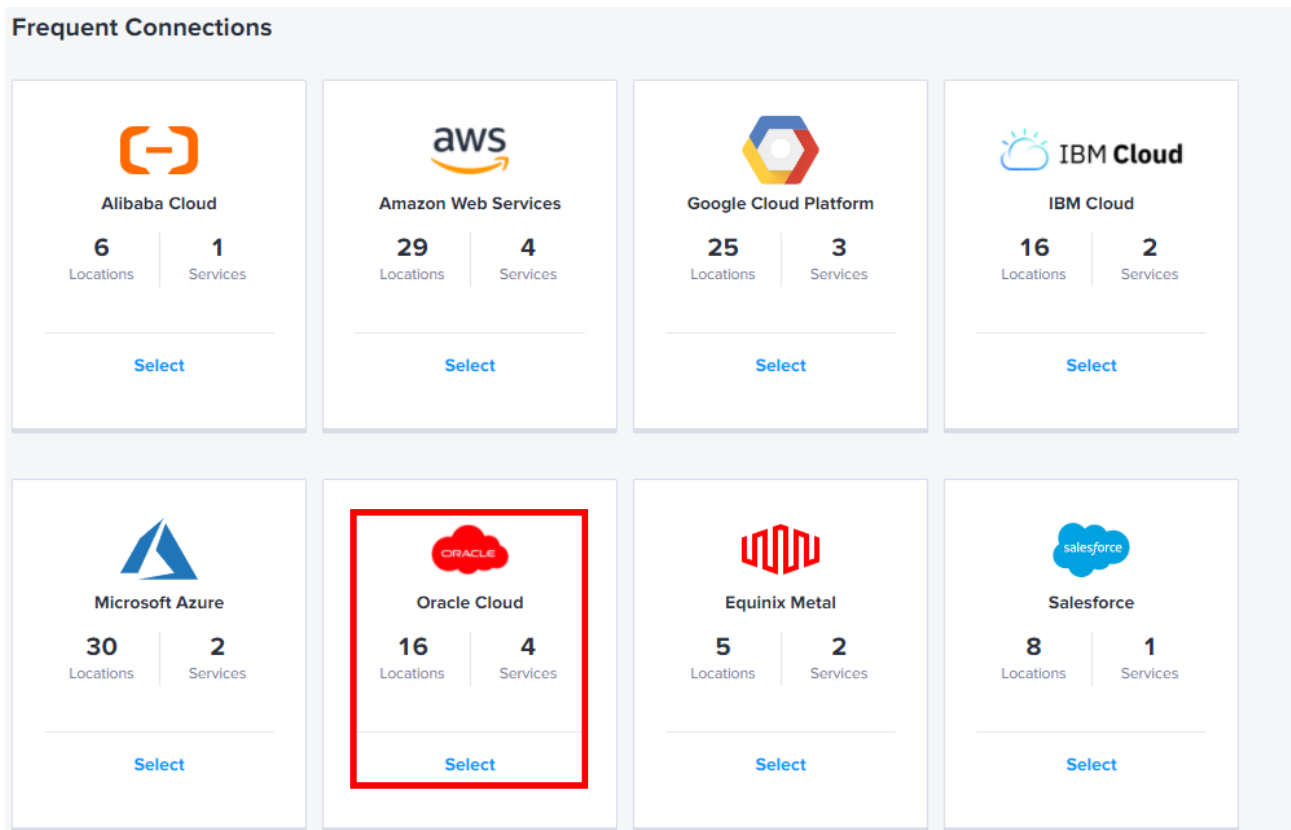
Your Virtual Device

Atpblabecx
Frankfurt | Zone 1
Cisco | CSR 1000V | Router

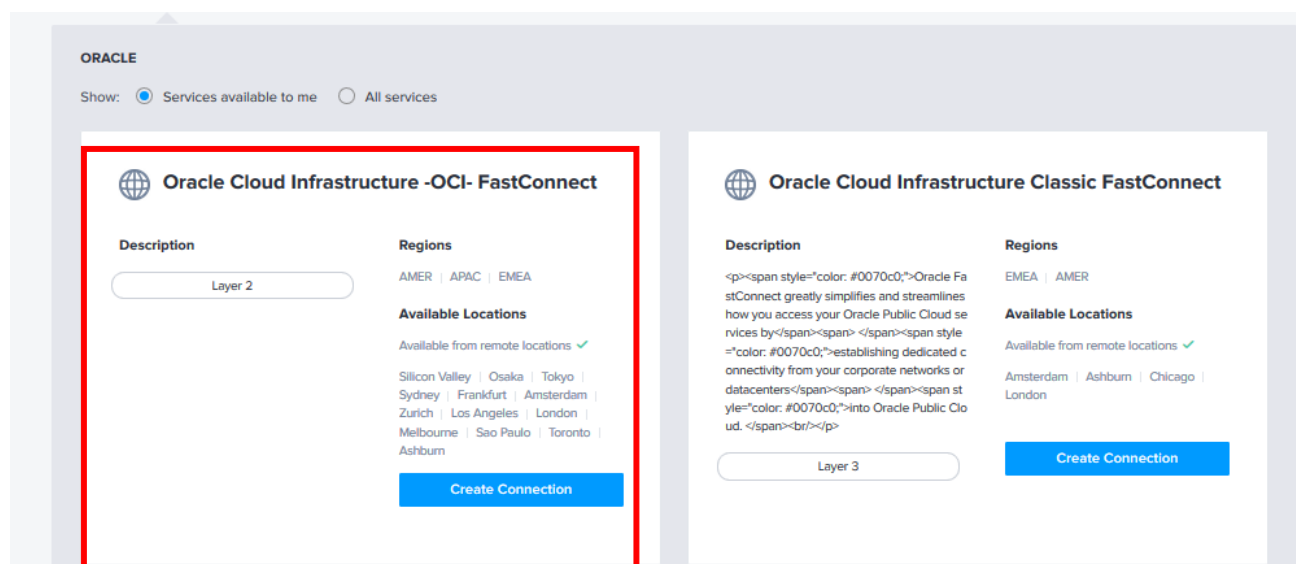
Learn More Connect to a Network Service **Create Connection**

Seleccione la **conexión de Oracle Cloud**





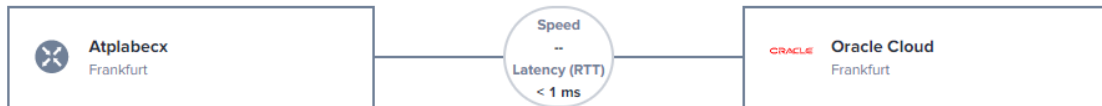
Seleccione el tipo de conexión asociado a **Oracle Cloud Infrastructure -OCI- FastConnect**, la primera.



A continuación, seleccione la región de Frankfurt tanto en el origen como en el destino, seleccione también el dispositivo virtual que ha creado



Preview



Origin

Locations with ports or Virtual Devices

Connect Using

Port

Service Token

Virtual Device

EMEA 1

Select Location

Frankfurt
1 Virtual Devices

Select Virtual Device Type

Virtual Devices
Total: 1

Redundant Devices
Total: 0

Clusters
Total: 0

Virtual Devices in Frankfurt:

Atplabecx
Frankfurt | Zone 1
Cisco I CSR1000V__TRIA...

Destination

Oracle Public Cloud Group (SE3 Cage 60210) locations you can connect with

AMER 5 EMEA 3 APAC 5

Suggested:

Frankfurt
Frankfurt region obmc
Latency (RTT) < 1 ms

Remote:

Amsterdam (↔)
EU-Amsterdam-1
Latency (RTT) 8 ms

Zurich (↔)
Zurich region obmc
Latency (RTT) 6 ms

Dubai
Middle East - Dubai
OBMC
Latency (RTT)


London (↔)
London region obmc
Latency (RTT) 15 ms

Pulse en el botón **Next** e introduzca el **OCID del FastConnect de Oracle Cloud Infrastructure**, lo puede obtener desde la pantalla principal de **virtual cloud networks dentro de FastConnect** en la consola de OCI.



ORACLE Cloud Search for resources, services, and documentation Germany Central (Frankfurt) > > >

Networking » FastConnect » Connection Detail



PENDING PARTNER

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Edit Move Resource Add Tags Delete

Virtual Circuit Information BGP Information Tags

Lifecycle State: Pending Partner **IPv4 BGP State:** Down

Partner Name: Equinix **Connection Type:** Partner

Virtual Circuit Type: Private **Provisioned Bandwidth:** 1 Gbps

Created: Mon, Oct 26, 2020, 13:58:43 UTC **BGP MD5 Authentication:** Not Enabled

OCID: ocid1.virtualcircuit.oc1.eu-frankfurt-1.aaaaaaafxhe3gbqjdnzbr74lczrpegsg6rxeggczeiw2xdlrpy2po5q [Hide](#) [Copy](#) **Dynamic Routing Gateway:** [atplabdr](#)

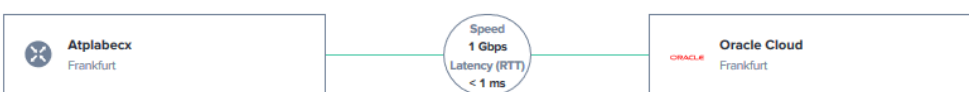
A continuación, en la pantalla de Equinix, en el paso a paso para crear una conexión con OCI, introduzca lo siguiente:

Fast Connect Virtual Circuit	Atplab-toOCI
Virtual Circuit OCID	OCID of your FastConnect

Select Locations Connection Details Review

Connection Details

Preview



Connection Information

FastConnect Virtual Circuit

Atplab-toOCI

Virtual Circuit OCID

ilcircuit.oc1.eu-frankfurt-1.aaaaaaafxhe3gbqjdnzbr74lczrpegsg6rxeggczeiw2xdlrpy2po5q ✓

Interface Selection

This interface will be reserved for all incoming Connections to this device. It will not be available to create Connections to any other service provider.

☒ Automatically select the next available interface on my device(s)

☐ I will select the interface on my device

Purchase Order Number Optional

The purchase order number will be included in the order confirmation email

e.g. PO1544555



No hace falta introducir **Purchase Order**. Pase a la siguiente pantalla pulsando el botón **Next**, seleccione el ancho de banda contratado, continúe

Connection Speed

Billing Tier
Up to 1 Gbps

1 Gbps

Speed Selected

Monthly Charge
150.00 EUR

Pricing Overview

Local Connection: 150.00 EUR
Remote Surcharge: 0.00 EUR

Total: 150.00 EUR

Additional taxes and/or fees may apply, depending on the Metro.

[Design Summary](#)

[Previous](#) [Next](#)

Finalmente repase todos los datos introducidos, introduzca un correo para recibir notificaciones y confirme.

Preview

Atplabex Frankfurt — Speed 1 Gbps, Latency (RTT) < 1 ms — Oracle Cloud Frankfurt

Connection Summary	
Connection Name	Atplab-to-OCI
Virtual Device Name	Atplabex
Speed	1 Gbps
Billing Tier	Up to 1 Gbps
Purchase Order Number	-
Virtual Circuit OCID	ocid1.virtualcircuit.oc1.eu-frankfurt-1.aaaaaaaoby6qcatlfmqwg77m6hj7pnzhu6qsnz3dn6i2a2gg7wluf47ph5a
Average last month latency	< 1 ms

Pricing Overview	
Local Connection	150.00 EUR
Remote Connection	0.00 EUR
Total	150.00 EUR
<small>Additional taxes and/or fees may apply.</small>	

Notifications 1 Recipient(s)

Enter email address(es) that will receive notifications about this connection:

[Add Another Email](#)

[Design Summary](#)

[Previous](#) [Submit Order](#)



Puede ver en la consola principal la nueva conexión recién creada.

The screenshot shows the Oracle Cloud console interface. At the top, there's a navigation bar with 'Connections' selected. Below it, the 'Inventory' section is displayed, showing '0 Active Connections'. A 'Create Connection' button is visible. The 'Connections' section is expanded, showing a list of connections. A red box highlights a connection named 'Atplab-toOCI' with a green checkmark. The connection details show 'Frankfurt Origin' and 'Oracle Cloud Infrastructure -OCI- FastConnect (eu-frankfurt-1) Destination'.

Vuelva a seleccionar Network Edge, View Virtual Device y seleccione su virtual device. A continuación, seleccione Connections para ver la conexión con OCI y poder configurarla desde el lado de Equinix.

This screenshot is a closer view of the 'Connections' section. It shows the same 'atplab-toOCI' connection highlighted with a red box. The connection is marked with a green checkmark, indicating it is provisioned. The details show 'Frankfurt Origin' and 'Oracle Cloud Infrastructure -OCI- FastConnect (Frankfurt region obmcj) Destination'.

Si **selecciona la conexión al cloud de Oracle**, puede ver los detalles, y puede ver que la conexión esta provisionada.



Atlab-toOCI

×

CLOSE

Atlab-toOCI

Frankfurt Atlabex Origin

Oracle Cloud Infrastructure -OCI- FastConnect (eu-frankfurt-1) Destination

Atlabex Virtual Device

Oracle Cloud Infrastructure -OCI- FastConnect

Oracle Public Cloud Group (SE3 Cage 60210) | eu-frankfurt-1

Refresh Connection Status

Primary Connection Overview

Edit

Name	Atlab-toOCI
Unique ID	bdb461e1-da67-4ae2-bba4-c5c53c45c86d
Virtual Device Name	Atlabex
Virtual Device UUID	c16fc455-50f5-4862-9f49-9a24c1ebf5b4
Status	Provisioned
Provider Status	Provisioning
Seller-Side Port Name	ORACLE-DEUTSCHLAND-BV-FR4-ECX-PRI-01
Seller-Side VLAN ID	528
Authentication Key	ocid1.virtualcircuit.oc1.eu-frankfurt-1.aaaaaaafxhe3gbqjdnzbnkr74lxzrpegs6rxeggczeiw2xdrfrrpys2po5q
Average Last Month Latency	< 1 ms
Seller-Side Region	eu-frankfurt-1

Bandwidth Details

Connection Speed	1 Gbps
Billing Tier	Up to 1 G

Ahora quedaría hacer efectiva la conexión punto a punto entre Oracle Cloud Infrastructure y Equinix.

Para ello hay que proporcionar los siguientes detalles dentro de Equinix, que se pueden obtener desde el Cloud de Oracle.

Los campos están disponibles al final del formulario de la consola de Equinix, seguramente tendrá que hacer un *scroll-down* de la pantalla hasta que aparezca dicho formulario.



Primary BGP Information [Learn More](#)


Local ASN	Enter Local ASN
Local IP Address	Enter the local IP address
Remote ASN i	Enter Remote ASN
Remote IP address	Enter Remote IP Address
BGP Authentication Key	Enter the BGP Authentication Key

Accept

Sitúese **dentro del FastConnect** que hemos creado dentro **de Oracle Cloud Infrastructure**, y vaya a la pestaña **BGP Information**. Ahí puede ver los parámetros requeridos desde Equinix.

ORACLE Cloud Search for resources, services, and documentation Germany Central (Frankfurt) [-]

Networking » [FastConnect](#) » Connection Detail



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Edit Move Resource Add Tags Delete

Virtual Circuit Information BGP Information Tags


Customer BGP ASN: 64513
Oracle BGP ASN: 31898

Customer BGP IPv4 Address: 169.254.237.1/30
Oracle BGP IPv4 Address: 169.254.237.2/30

Introduzca estos datos en la conexión de Oracle dentro de Equinix. Hay que tener en cuenta que la introducir *Remote IP address* solo hay que poner la IP sin la máscara de red.




Primary BGP Information [Learn More](#)

Local ASN	64513	✓
Local IP Address	169.254.237.1/30	✓
Remote ASN 	31898	✓
Remote IP address	169.254.237.2	✓
BGP Authentication Key	Enter the BGP Authentication Key	

[Accept](#)

Una vez introducidos los datos, compruebe si la conexión se realiza desde el lado de Oracle, inicialmente estará en estado del ciclo de vida “provisioning” y BGP state “Down”



PROVISIONED

atplabfc

[Edit](#) [Move Resource](#) [Add Tags](#) [Delete](#)

Virtual Circuit Information **BGP Information** **Tags**

Lifecycle State: ● Provisioned

Partner Name: Equinix

Virtual Circuit Type: Private

Created: Mon, Oct 26, 2020, 13:58:43 UTC

OCID: ocid1.virtualcircuit.oc1.eu-frankfurt-1.aaaaaaafxhe3gbqjd nzbkr74lxzrpegsg6rxeggczeiw2xdlrpys2po5q [Hide](#)
[Copy](#)

Pv4 BGP State: Down

Connection Type: Partner


Provisioned Bandwidth: 1 Gbps

BGP MD5 Authentication: Not Enabled

Dynamic Routing Gateway: [atplabdrq](#)

Desde el lado de Equinix, el estado de aprovisionamiento aparecerá como “PROVISIONING”, espere unos minutos.

Primary BGP Information [Learn More](#) [Edit](#)

Local ASN	64513
Local IP Address	169.254.237.1/30
Remote ASN 	31898
Remote IP address	169.254.237.2
BGP Authentication Key	-
Provisioning Status	Provisioning



Espere a que el estado cambie a “PROVISIONED”

Primary BGP Information Learn More		Edit
Local ASN	64513	
Local IP Address	169.254.237.1/30	
Remote ASN i	31898	
Remote IP address	169.254.237.2	
BGP Authentication Key	-	
Provisioning Status	Provisioned	

Ahora puede ir al cloud de Oracle y ver que el estado del ciclo de vida es **provisioned** también


Espere hasta que el **Estado de BGP** sea “UP”

ORACLE Cloud

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Germany Central (Frankfurt)

Networking » [FastConnect](#) » Connection Detail



PROVISIONED

Warning: This FastConnect has only a single virtual circuit. Oracle recommends having redundant connections for high availability. [Learn how to fix the problem](#)

atplabfc

[Edit](#) [Move Resource](#) [Add Tags](#) [Delete](#)

Virtual Circuit Information

BGP Information

Tags

Lifecycle State: Provisioned

IPv4 BGP State: Up

Partner Name: Equinix

Connection Type: Partner

Virtual Circuit Type: Private

Provisioned Bandwidth: 1 Gbps

Created: Mon, Jan 25, 2021, 18:18:40 UTC

BGP MD5 Authentication: Not Enabled

OCID: ...47ph5a [Show](#) [Copy](#)


Dynamic Routing Gateway: [atplabdr](#)

Una vez esto ocurra, podrá ver en **Equinix** también los estados de provisionamiento y BGP como “PROVISIONED” y “Established”



Primary BGP Information [Learn More](#)

[Edit](#)

Local ASN	64513
Local IP Address	169.254.237.1/30
Remote ASN 	31898
Remote IP address	169.254.237.2
BGP Authentication Key	-
Provisioning Status	Provisioned
BGP State	Established



Resumen del Lab.

1. Ha configurado el dispositivo **Cisco en Equinix** para poder configurar la conexión con OCI.
2. Ha configurado rutas de acceso en el **DRG de OCI**
3. Ha creado y configurado una conexión **Fast Connect en OCI**
4. Ha creado la conexión desde **OCI a Equinix**

