

HOL1 - ECX and OCI Fast Connect



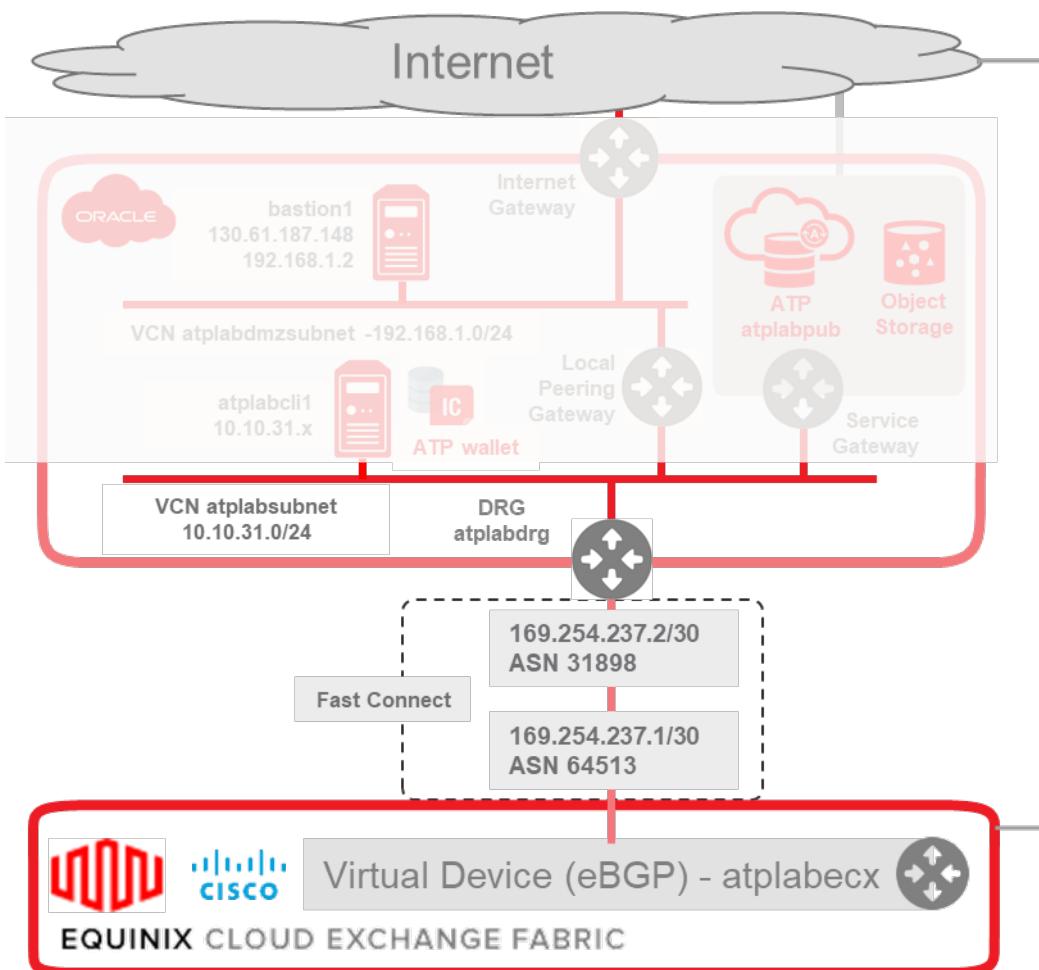
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Objetivo del Laboratorio

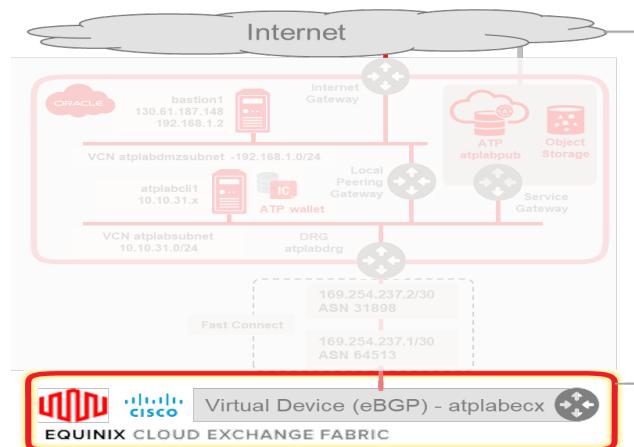
El objetivo de este laboratorio es crear la red de comunicaciones entre Oracle Cloud Infrastructure (OCI) y el proveedor de conexión de Data Center Equinix a través de Fastro Connect y Equinix Cloud Exchange Fabric. También dejará preparado el Dinamy Route Gateway (DRG) en OCI para conectar en los siguientes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



Configuración desde la parte de Equinix:

¿Qué voy a hacer?

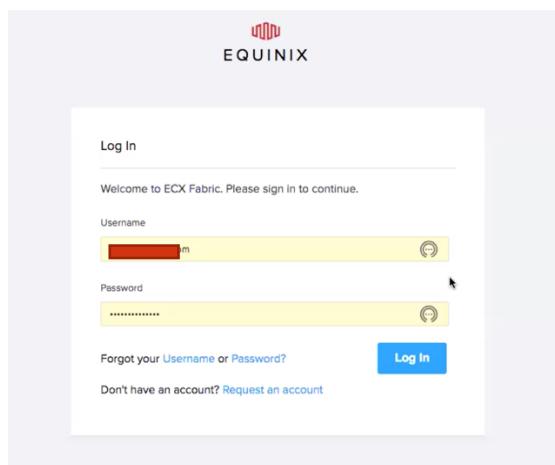
Va a crear el router virtual de Equinix cloud Exchange fabric para poder realizar más adelante la configuración eBGP con OCI.



Conexiones:

Consola Equinix	https://ecxfabric.equinix.com
Usuario	gbest@yahoo.com
Clave	Autonomous#2020

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



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.

The screenshot shows the Equinix Cloud Exchange Fabric homepage. At the top, there's a navigation bar with 'Connections', 'Network Edge', 'Ports', 'Inventory', 'My Company', and 'Support'. A 'Create Connection' button is also present. Below the navigation, a message says 'You are currently in trial mode.' with options to 'Renew Trial' or 'Finish Trial & Signup'. A prominent red box highlights the 'Create a Virtual Device' button under the 'Network Edge' dropdown. The main area displays 'Welcome Willy' and statistics: 0 Active Outgoing Connections, 0 Active Incoming Connections, 0 Pending My Approval, and 0 Pending Approval. A 'Create Connection' button is located at the bottom right.

Una vez en el inventario, pulse el botón para crear un nuevo dispositivo Virtual

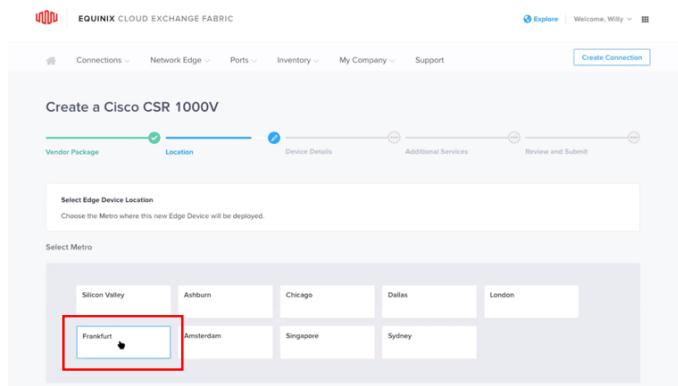
The screenshot shows the Equinix Cloud Exchange Fabric Inventory page. The top navigation is identical to the previous screen. The main area is titled 'Inventory' and shows '0 Active Connections'. Below this, there are tabs for 'Connections', 'Ports', 'Virtual Devices' (which is selected), 'Routing Instances', 'Connectors', 'Subscriptions', and 'IP Blocks'. A 'Set Port Bandwidth Threshold Alert' button and a 'Create Connection' button are at the bottom. A 'Filter by:' section includes fields for 'Enter a virtual device name', 'Location', 'Virtual Device Status', 'Date', and 'Hide Draft Devices'. Underneath, there are vendor filters for 'cisco' and 'juniper'. A message 'Viewing 0 of 0' is followed by a red box highlighting the 'Add New Virtual Device' button.

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

The screenshot shows the 'Add New Edge Device' configuration page. The top navigation is consistent. The main title is 'Add New Edge Device' with a progress bar showing five steps: 'Vendor Package' (selected), 'Location', 'Device Details', 'Additional Services', and 'Review and Submit'. Below the progress bar, a section titled 'Select Vendor Packages for your Devices' shows two options: 'Cisco CSR 1000V' and 'Juniper Networks vSRX'. A red box highlights the 'Cisco CSR 1000V' option. Each option has a 'See Description' button.



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 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

Edge Device Details

Device Name <small>i</small>	atplabecx
Host Name Prefix <small>i</small>	atplabecx

Optional Details

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

Reference i

Device Status Notifications
Enter up to 5 email address(es) that will receive device status notifications.

oracle.com

Select License Throughput

50 Mbps



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

Vendor Package Location Device Details Additional Services Review and Submit

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

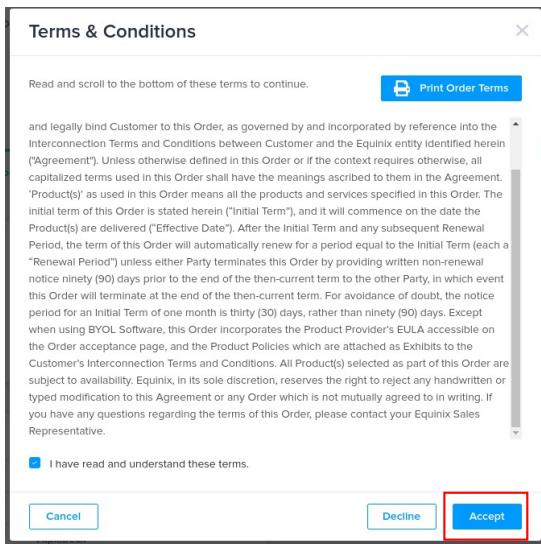
Define one or more IP address subnets that will be loaded as an access control list for users accessing your virtual device.

Primary Device

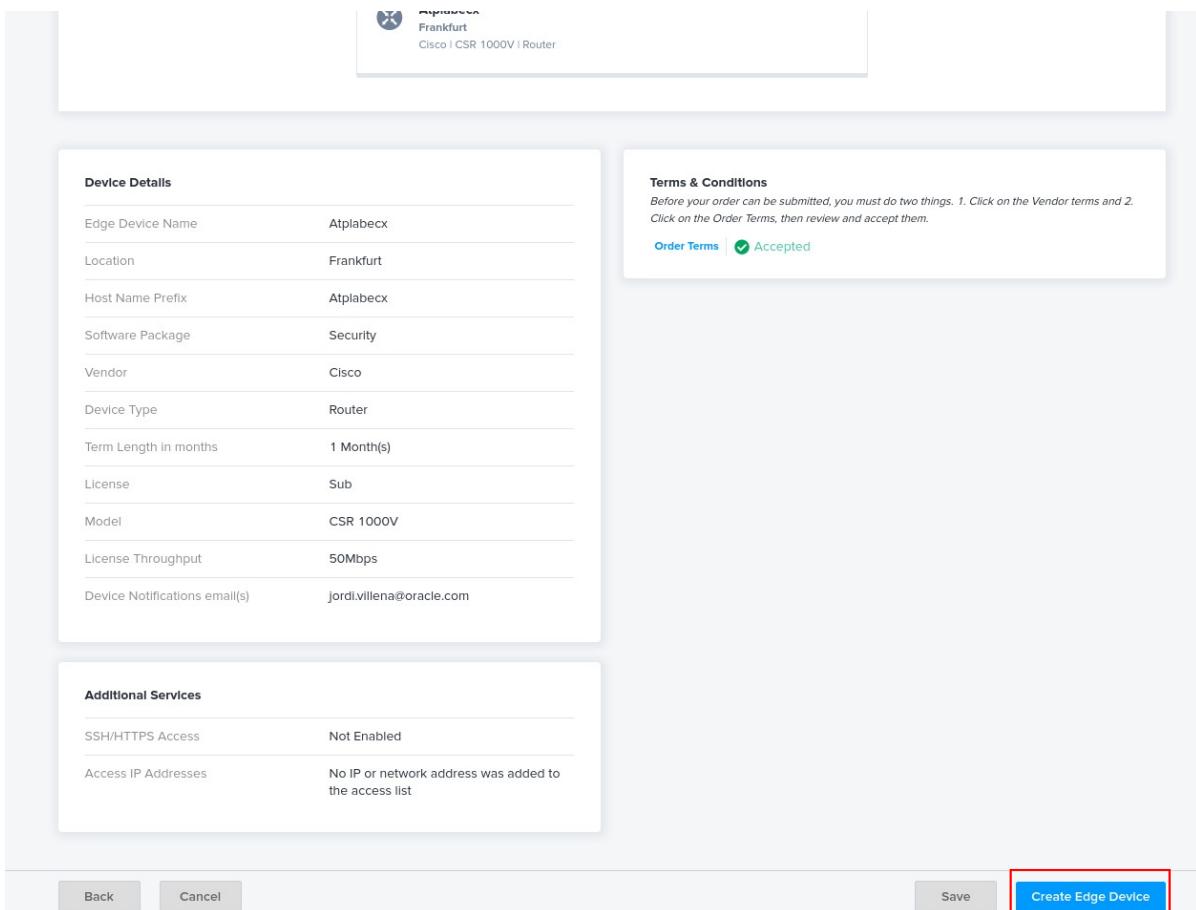
Back Cancel Save **Next: Review**



A continuación, aceptar los términos y condiciones.



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



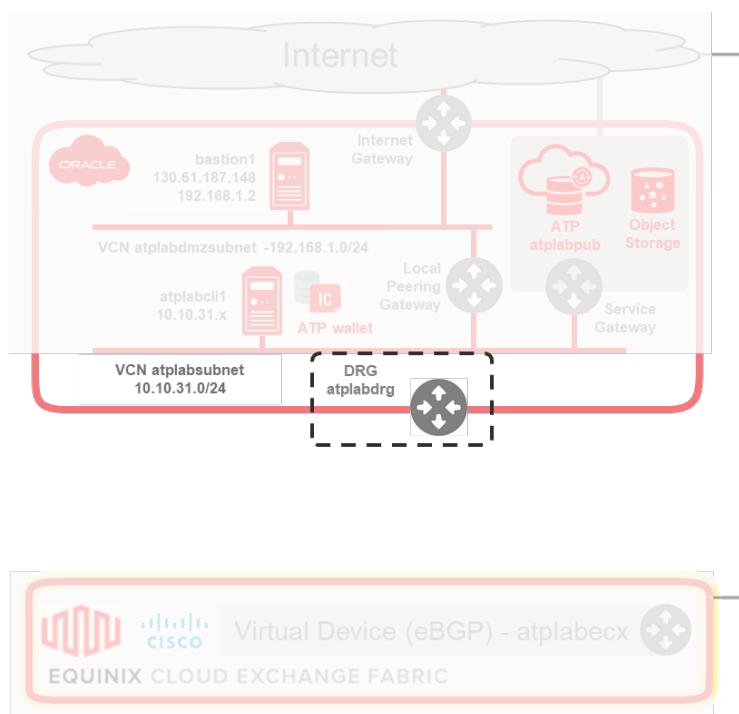
El dispositivo tardará unos minutos en ser provisionado. Durante este tiempo, puede continuar con el workshop.



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.

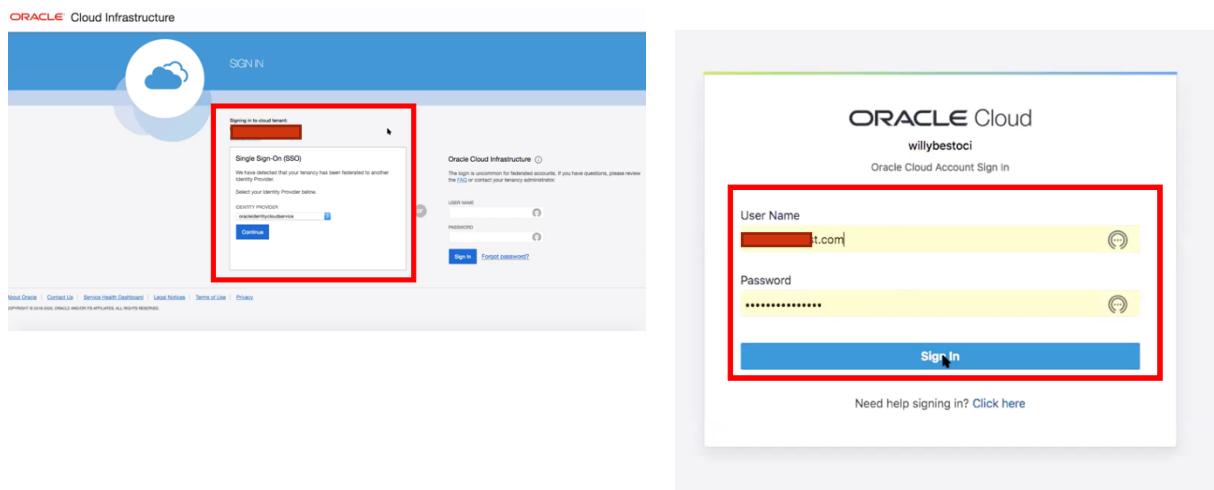


En primer lugar, debe ir a la pantalla de log-in, introducir el nombre de tenant de nuestra cuenta de cloud de Oracle.

OCI URL	https://console.eu-frankfurt-1.oraclecloud.com/
Tenant	workshop20200505a
User name	workshop20200505a@yahoo.com
Password	Autonomous#2020



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 mas 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 (ícono hamburguer), en la **sección de networking**, debe seleccionar la **opción Dynamic routing gateways**.

The image shows the Oracle Cloud Infrastructure dashboard. The left sidebar is open, revealing various service categories. The 'Networking' category is highlighted with a red box. The main content area displays the 'Virtual Cloud Networks' page for the compartment 'atplab'. It features a table with two rows of network entries, each with a green 'Available' status indicator and a CIDR block. Below the table, there is a list of networking-related services and features, including Customer-Premises Equipment, IPsec Connections, Load Balancers, FastConnect, Public IPs, DNS Zone Management, TSIG Keys, Traffic Management Steering Policies, and HTTP Redirects.



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

The screenshot shows the Oracle Cloud Infrastructure Networking dashboard. On the left, there is a sidebar with various networking options: Virtual Cloud Networks, Dynamic Routing Gateways (which is selected and highlighted in blue), Customer-Premises Equipment, IPSec Connections, Load Balancers, FastConnect, Public IPs, and DNS Zone Management. The main area is titled "Dynamic Routing Gateways" and contains a table with one row. The first column is labeled "Name" and the second column is labeled "Lifecycle State". A red box highlights the "Create Dynamic Routing Gateway" button at the top of the table. The table also displays the message "No items in the selected compartment".

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

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

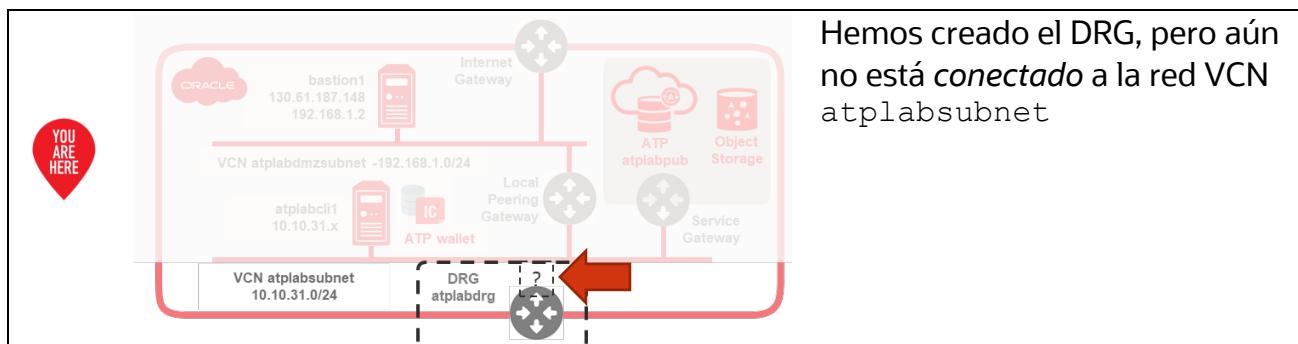
En este caso se introducirán los siguientes datos:

Compartiment	Atplab
Name	atplabdrg

The screenshot shows the "Create Dynamic Routing Gateway" dialog box. It has several input fields and sections. The "CREATE IN COMPARTMENT" dropdown is set to "atplab" and is highlighted with a red box. The "NAME" field contains "atplabdrg" and is also highlighted with a red box. Below these fields, there is a note about tagging: "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." There is a link "Learn more about tagging". At the bottom of the dialog, there is a "Create Dynamic Routing Gateway" button, which is highlighted with a red box, and a "Cancel" button.



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 > atplabdrbg

atplabdrbg

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

Dynamic Routing Gateway Information		Tags
OCID: ...Inqoce-4jaq	Show Copy	Oracle Redundancy Status: —
Created: Tue, Mar 31, 2020, 3:27:57 PM UTC		

Resources

IPSec Connections (0)

- Virtual Cloud Networks (0)
- Virtual Circuits (0)
- Remote Peering Connections (0)

List Scope: COMPARTMENT: atplab

willyDestac (root)@atplab

No items found in this compartment.
To create an IPSec connection for this dynamic routing gateway, go to [IPSec Connections](#).

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

Virtual Cloud Networks

[Attach to Virtual Cloud Network](#)

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

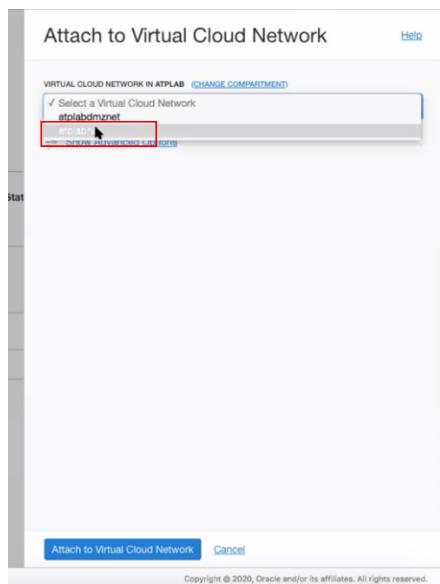
Attach to Virtual Cloud Network

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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**

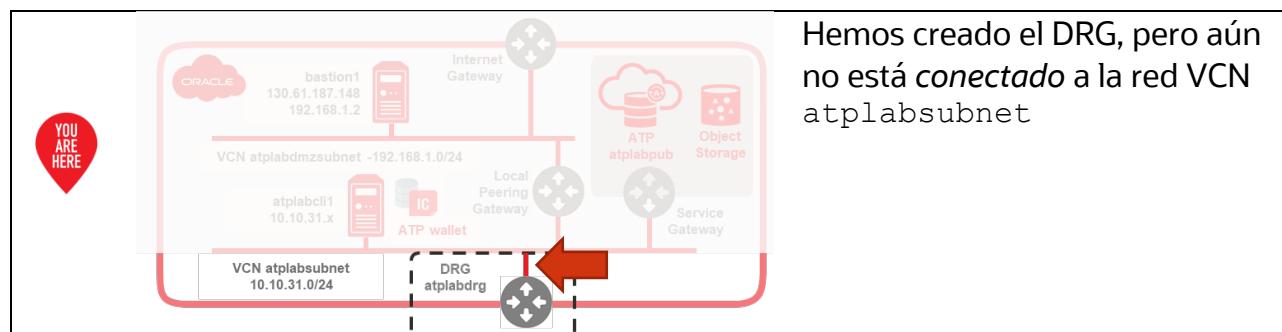


Pulse El botón **Attach to Virtual Cloud Network** para continuar.

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

Virtual Cloud Networks

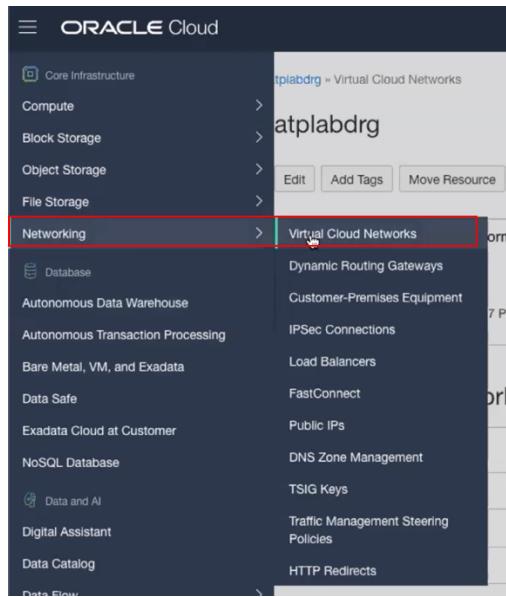
Name	Lifecycle State	CIDR Block	Attachment State	Attachment Route Table
atplabnet	Available	10.10.31.0/24	Attached	—



Hemos creado el DRG, pero aún no está **conectado** a la red VCN atplabsubnet



A continuación, en el menú principal de OCI (ícono 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**.

Name	State	CIDR Block	Default Route Table	DNS Domain Name	Created
atplabdmznet	Available	192.168.1.0/24	Default Route Table for atplabdmznet	atplabdmznet.oraclevcn.com	Wed, Mar 11, 2020, 14:13:38 UTC
atplabnet	Available	10.10.31.0/24	Default Route Table for atplabnet	atplabnet.oraclevcn.com	Wed, Mar 11, 2020, 14:00:15 UTC

Route Tables in atplab Compartiment				
Create Route Table				
Name	State	Number of Rules	Created	Actions
Default Route Table for atplabnet	Available	2	Wed, Mar 11, 2020, 14:00:15 UTC	⋮

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
routetablefordrg|

CREATE IN COMPARTMENT
atplab
workshop20200505a (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
None (add a free-form tag)			+ Additional Tag

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

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
Specified IP addresses: 10.10.33.0-10.10.33.255 (256 IP addresses)

TARGET DYNAMIC ROUTING GATEWAY
Name: atplabdrg X
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
Specified IP addresses: 10.10.32.0-10.10.32.255 (256 IP addresses)

TARGET DYNAMIC ROUTING GATEWAY
Name: atplabdrg
Compartment: atplab

DESCRIPTION OPTIONAL
to AWS
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
None (add a free-form tag) TAG KEY VALUE + Additional Tag

Create Route Table Cancel

Pulse sobre el nombre **routetabledrg** para revisar las conexiones recién creadas.

Networking > Virtual Cloud Networks > atplabnet > Route Table Details

routetablefordrg

Move Resource Add Tags Terminate

Route Table Information Tags
OCID: ...xwfrfq Show Copy Compartment: atplab
Created: Wed, Apr 29, 2020, 14:56:27 UTC

Resources

Route Rules (2)

Add Route Rules Edit Remove

Destination	Target Type	Target	Description
10.10.32.0/24	Dynamic Routing Gateways	atplabdrg	toAWS
10.10.33.0/24	Dynamic Routing Gateways	atplabdrg	toGCP

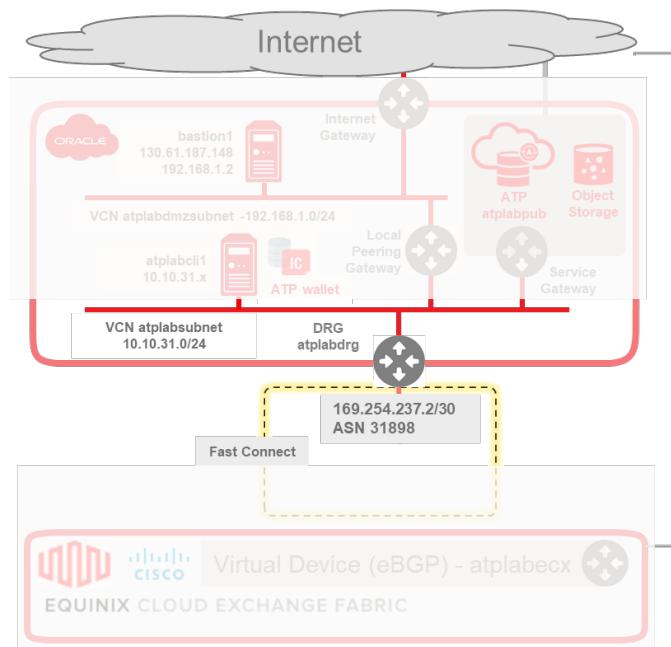
Showing 2 items < Page 1 >



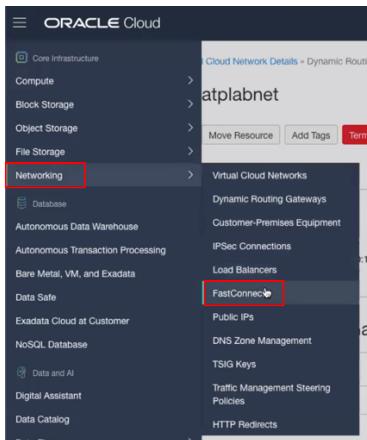
Conexión Fast Connect

¿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 Amazon y Google, vaya al menú principal de OCI (ícono hamburguesa), y dentro de Networking, acceda a la sección Fast Connect



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

The screenshot shows the 'FastConnect Connections in atplab Compartment' page. The 'Create FastConnect' button is highlighted with a red box. The table below shows no items found, indicating the connection has not yet been created.

Name	Lifecycle State	BGP State	Connection Type	Created
No items found.				



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

The screenshot shows the Oracle Cloud interface for creating a connection. The top navigation bar includes the Oracle Cloud logo, a search bar, and account information for 'Germany Central (Frankfurt)'. Below the header, the page title is 'Create Connection'. On the left, there's a sidebar with two options: 'Connection Type' (selected) and 'Configuration'. The main content area is titled 'CONNECTION TYPE' and contains two choices: 'Colocate with Oracle or Use Third-Party Provider' and 'Use Oracle Provider'. The 'Use Oracle Provider' section is highlighted with a red box. It describes setting up a virtual circuit on the Oracle provider's connection. Below this, a 'PROVIDER' section shows 'Equinix: CloudExchange' selected, also highlighted with a red box. At the bottom left, there are 'Next' and 'Cancel' buttons, with 'Next' being highlighted by a red box.

En el siguiente menú, introduzca los siguientes datos:

Name (optional)	atplabfc
Dynamic Routing Gateway	atplabdrg
Virtual Circuit Type	Private Virtual Circuit
Bandwidth	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 Search for resources and services ID: 280 238 3146 Stop Share Germany Central (Frankfurt) Help

Create Connection

1 Connection Type

2 Configuration

NAME OPTIONAL atplabfc

CCompartment atplab workshop:20200505a (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 your 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) atplabdrg

PROVISIONED BANDWIDTH 1 Gbps

CUSTOMER BGP IP ADDRESS 169.254.237.1/30

ORACLE BGP IP ADDRESS OPTIONAL 169.254.237.2/30

CUSTOMER BGP ASN 64513

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

Previous **Create** Cancel

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

ORACLE Cloud Germany Central (Frankfurt) Networking > FastConnect > Connection Detail

VC Pending Provider

Connection Created
What's next? Copy the OCID and give it to the provider to provision the virtual circuit from their end. When BGP State changes to UP, the virtual circuit is ready to test.
OCID: ocid1.virtualcircuit.oc1.eu-frankfurt-1.aaaaaaaaaaaaax57j2fsi4hqbgng7gf6ej7sj2ldctiu6sv5crcgtmr2a2xqoa [Hide](#) [Copy](#)
Provider Portal: Equinix [Close](#)

atplabfc

Edit Move Resource Add Tags Delete

Virtual Circuit Information Lifecycle State: Pending Provider Provider Name: Equinix Virtual Circuit Type: Private Created: Tue, Mar 31, 2020, 15:35:59 UTC OCID: ...a2xqoa Show Copy **BGP Information** BGP State: Down Connection Type: Provider Provisioned Bandwidth: 1 Gbps BGP MD5 Authentication: Not Enabled Dynamic Routing Gateway: atplabdrg **Tags**

Resources Metrics

START TIME END TIME

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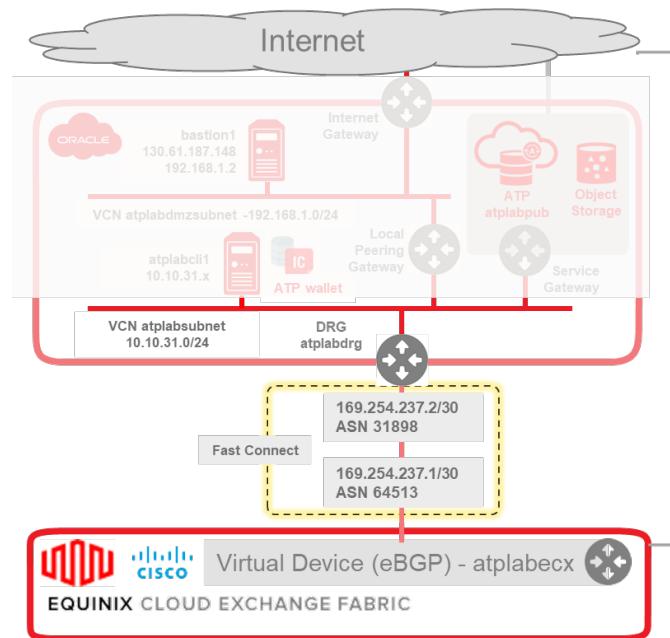
La conexión de FastConnect de OCI **no estará arriba** hasta que no se haya configurado desde el lado de Equinix en el virtual Router.



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 **View Virtual Device** en el menú.

The screenshot shows the Equinix Cloud Exchange Fabric Network Edge interface. Key elements include:

- Header:** EQUINIX CLOUD EXCHANGE FABRIC, Welcome, Willy.
- Menu:** Connections, Network Edge (highlighted), Ports, Inventory, My Company, Support, Create Connection.
- Message:** You are currently in trial mode. If you're satisfied, select Finish Trial and Renew Trial.
- Buttons:** View Virtual Devices (highlighted with a red box), Renew Trial, Finish Trial & Signup.
- Metrics:** Active Outgoing Connections (0), Active Incoming Connections (0), Pending My Approval (0), Pending Approval (0).
- Footer:** Create Connection button.



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

The screenshot shows the Equinix Cloud Exchange Fabric interface. At the top, there's a navigation bar with links for Connections, Network Edge, Ports, Inventory, My Company, and Support, along with a 'Create Connection' button. Below the navigation is a dark header with the word 'Inventory' and a large '0' indicating no active connections. Underneath is a sub-header with buttons for Set Port Bandwidth Threshold Alert and Create Connection. A main search bar allows filtering by virtual device name, location, status, date, and draft devices. Below the search bar, there are two tabs: 'Virtual Devices' (which is selected) and 'Virtual Instances'. The main content area displays a list of virtual devices. One device, 'Atplabecx' (Cisco CSR 1000V Router, located in Frankfurt), is highlighted with a red box. To its left is a blue-bordered box with a plus sign and the text 'Add New Virtual Device'. Other devices listed include 'Cisco' and 'Juniper Juniper Networks'.

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

This screenshot shows the 'Virtual Device Details' page for 'atplabecx'. At the top, it says 'Your Virtual Device'. Below that is a summary card for 'atplabecx' (Cisco CSR 1000V Router, Frankfurt). To the right of the card is a 'Create Connection' button, which is also highlighted with a red box. Below the summary card, there are tabs for Details, Connections, Interfaces, and Additional Services. The 'Connections' tab is currently selected. Under the 'Virtual Connections' section, it says 'Viewing 0 of 0'. At the bottom left is a small Oracle logo, and at the bottom right are copyright and confidentiality notices.

Seleccione la **conexión de Oracle Cloud**



Frequent Connections

aws Amazon Web Services 25 Locations 4 Services Select	Google Cloud Platform 23 Locations 3 Services Select	Microsoft Azure 24 Locations 2 Services Select	Oracle Cloud 13 Locations 4 Services Select	Salesforce 6 Locations 1 Services Select
--	---	---	--	---

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

ORACLE

Oracle Cloud Infrastructure -OCI- FastConnect

Description	Regions
Layer 2	APAC AMER EMEA
Available Locations	Available from remote locations ✓
Osaka Los Angeles Tokyo Sydney London Melbourne Frankfurt Amsterdam Sao Paulo Toronto Zurich Ashburn	
Create Connection	

Oracle Cloud Infrastructure Classic FastConnect

Description	Regions
Oracle FastConnect greatly simplifies and streamlines how you access your Oracle Public Cloud services by establishing dedicated connectivity from your corporate networks or datacenters into Oracle Public Cloud.	EMEA AMER
Available Locations	Available from remote locations ✓
Amsterdam Ashburn Chicago London	
Create Connection	

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

Origin
Locations with ports or Virtual Devices

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

EMEA [1]

Select Location

Frankfurt
0 ports | 1 Virtual Devices

No ports found

Virtual Devices in Frankfurt:

- atplabecx**
Frankfurt
Cisco CSR1000V_TRIAL | ROUTER

AMER [4] EMEA [1] APAC [4]

Suggested:

Frankfurt
Frankfurt region obmc
Latency (RTT) < 1 ms

Remote:

- London**
London region obmc
Latency (RTT) 22 ms
- Amsterdam**
EU-Amsterdam-1
Latency (RTT) 19 ms
- Zurich**
Zurich region obmc
Latency (RTT) 6 ms

[Next](#)



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.

Networking » FastConnect » Connection Detail

virtualcircuit20200423152012

Edit Move Resource Add Tags Delete

VIRTUAL CIRCUIT INFORMATION	BGP INFORMATION	TAGS
Lifecycle State: ● Pending Provider	BGP State: ✘ Down	
Provider Name: Equinix	Connection Type: Provider	
Virtual Circuit Type: Private	Provisioned Bandwidth: 1 Gbps	
Created: Thu, Apr 23, 2020, 15:20:12 UTC	BGP MD5 Authentication: Not Enabled	
OCID: ...adr7va Show Copy	Dynamic Routing Gateway: atplabdrg	

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

Connection Information

FastConnect Virtual Circuit
atplab-toOCI

Virtual Circuit OCID
jalcircuit.oc1.eu-frankfurt-1.aaaaaaaaagrx57j2fsl4hbqng7gf6ej7sj2ldctiu6sv5crcgtmf2a2xqoa

Purchase Order Number
Optional
The purchase order number will be included in the order confirmation email
e.g. PO1544555

Design Summary

Previous Next

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.

Connection Summary		Pricing Overview	
Connection Name	atplab-toOCI	Local Connection	150.00 EUR
Virtual Device Name	atplabecx	Remote Connection	0.00 EUR
Speed	1 Gbps	Total	150.00 EUR
Billing Tier	Up to 1 Gbps	Additional taxes and/or fees may apply.	
Purchase Order Number	-		
Virtual Circuit OCID	ocid1.virtualcircuit.oc1.eu-frankfurt-1.aaaaaaaagrx57j2fsl4hqbqng7gf6ej7sj2ldctiu6sv5crcgtmf2a2xqoa		
Average last month latency	< 1 ms		
Billed to			

Notifications 1 Recipient(s)

Enter email address(es) that will receive notifications about this connection:
[REDACTED]@oracle.com

Add another email

Design Summary

Previous Submit your Order

Puede ver en la consola principal su nueva conexión.

View your connection in your Inventory

Go to your Inventory to see your connection details and your connection status at any time.

[Go to My Inventory](#)

atplab-toOCI	
Frankfurt atplabecx Origin	Oracle Cloud Infrastructure - OCI FastConnect (Frankfurt region obmc) 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.



The screenshot shows the 'Connections' page in the Oracle Cloud Infrastructure console. A single connection, 'atplab-toOCI', is listed. The connection details are as follows:

- Name:** atplab-toOCI
- Origin:** Frankfurt
- Destination:** Oracle Cloud Infrastructure - OCI FastConnect (Frankfurt region obmc)
- Status:** Provisioned (indicated by a green checkmark icon)

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

This screenshot shows a detailed view of the 'atplab-toOCI' connection. The connection is labeled 'Provisioned'. The connection details are as follows:

- Name:** atplab-toOCI
- Origin:** Frankfurt
- Virtual Device:** atplabecx
- Destination:** Oracle Cloud Infrastructure - OCI FastConnect (Oracle OCI (SY4 cage 210) | Frankfurt region obmc)
- Status:** Provisioned

Below the connection details, there are two sections: 'Primary Connection Overview' and 'Bandwidth Details'.

Primary Connection Overview		Bandwidth Details	
Name	atplab-toOCI	Connection Speed	1 Gbps
Unique ID	94befb68-cbcc-4581-8ad3-2da7d624b007	Billing Tier	Up to 1 G
Virtual Device Name	atplabecx		
Virtual Device UUID	8f9ee551-284e-4514-80a5-df606a2e3e22		
Status	Provisioned		
Provider Status	Not Available		
Seller-Side Port Name	ORACLE-DEUTSCHLAND-BV-FR4-ECX-PRI-01		

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.



ⓘ Your local ASN will be your device ASN. The ASN cannot be edited.

Primary BGP Information	
Local ASN	<input type="text" value="Enter Local ASN"/>
Local IP Address	<input type="text" value="Enter the local IP address"/>
Remote ASN ⓘ	<input type="text" value="Enter Remote ASN"/>
Remote IP address	<input type="text" value="Enter Remote IP Address"/>
BGP Authentication Key	<input type="text" value="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.

Networking > FastConnect > Connection Detail

VC

PROVISIONING

Connection Created

What's next?
Copy the OCID and give it to the provider to provision the virtual circuit from their end. When BGP State changes to UP, the virtual circuit is ready to test.

OCID: ocid1.virtualcircuit.oc1.eu-frankfurt-1.aaaaaaaaagrx572f54hqbpqng7g6ej7s2idctctut6sv5crogtnmza2xqpa [Hide](#) [Copy](#)

Provider Portal: [Equinix](#)

BGP Information

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.

ⓘ Your local ASN will be your device ASN. The ASN cannot be edited.

Primary BGP Information	
Local ASN	64513
Local IP Address	169.254.237.1/30
Remote ASN ⓘ	31898
Remote IP address	169.254.237.2
BGP Authentication Key	<input type="text" value="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**”



atplabfc

Virtual Circuit Information BGP Information Tags

Lifecycle State: Provisioning

Provider Name: Equinix

Virtual Circuit Type: Private

Created: Tue, Mar 31, 2020, 15:35:59 UTC

OCID: ...a2xqo Show Copy

BGP State: Down

Connection Type: Provider

Provisioned Bandwidth: 1 Gbps

BGP MD5 Authentication: Not Enabled

Dynamic Routing Gateway: atplabdr

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

Your local ASN will be your device ASN. The ASN cannot be edited.

Primary BGP Information [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

Espera a que el estado cambie a “**PROVISIONED**”

Your local ASN will be your device ASN. The ASN cannot be edited.

Primary BGP Information [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

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



The screenshot shows a connection named "atplabfc" in the "PROVISIONED" state. The "Virtual Circuit Information" tab is selected, displaying details such as Lifecycle State (Provisioned), Provider Name (Equinix), Virtual Circuit Type (Private), and BGP State (Down). The BGP State is highlighted with a red box.

Espere hasta que el Estado de BGP sea “UP”

The screenshot shows the same connection "atplabfc". The BGP State has changed to "Up", which is highlighted with a red box. Other details like Lifecycle State, Provider Name, and Virtual Circuit Type remain the same.

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

A table titled "Primary BGP Information" is shown. It includes fields for 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), and BGP State (Established). The Provisioning Status and BGP State fields are highlighted with red boxes.

Primary BGP Information	
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 de 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

