OVHcloud
Documentation

OVHcloud Connect

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Contents

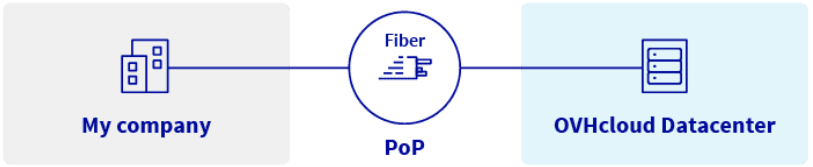
Key Concepts

Concepts overview

Concepts overview - OVHcloud Connect

What is OVHcloud Connect?

OVHcloud Connect is a private, dedicated connection between your on-premises network and your OVHcloud vRack. It is designed to extend your network and securely connect to your cloud resources, bypassing the public internet.



Benefits of OVHcloud Connect

Dedicated service

Dedicated Mode is a direct connection with OVHcloud devices. You can manage different configurations, from a single connection to a multiple one using LACP (Layer 2) or BGP-ECMP (Layer 3) with port speed at 1Gb or 10Gb. Interface and bandwidth are not shared with other customers.

Private connection

Your traffic is isolated from the Internet. You manage your own VLANs (Layer 2) and/or your own IP addresses (Layer 3). BGP instances are private, and you can configure the ASN you want.

OVHcloud Connect is connected to your vRack with all compatible services.

Network extension

OVHcloud Connect can be connected either to your WAN or your data centre network, allowing seamless extension to the cloud. This eases hybrid cloud strategies and migrations by keeping your existing VLAN topology or IP addresses.

High availability

Using BGP, you can interconnect your network through multiple Points-of-Presence (PoPs) and reach several OVHcloud data centres. From your vRack, you can configure BGP to enable maximum resiliency with distributed services.

Components of OVHcloud Connect

PoP - EntryPoint

Points of Presence are facilities like Equinix, InterXion, Telehouse or Global Switch. The OVHcloud Connect service entry PoP is called *EntryPoint*.

DC - EndPoint

The OVHcloud data centre is the service *EndPoint* of OVHcloud Connect.

Cross-connect

A cross-connection is a physical link (monomode fiber) managed by the local facility team in the PoP. The cross-connection is established in the MMR (Meet-Me Room) between the position given by OVHcloud and the position owned by the customer. The customer must order and manage the cross-connect for OVHcloud Connect Direct.

vRack

The OVHcloud Private Network, available on compute resources between all OVHcloud data centres. It allows you to connect compatible services into a single private network.

BGP

BGP (Border Gateway Protocol) is the routing protocol used in Layer 3 mode to manage routes between your network and the OVHcloud vRack.

Principles of OVHcloud Connect

OVHcloud Connect is based on a virtual link between an *EntryPoint* and an *EndPoint*. The *EntryPoint* is where you want to make the interconnection with OVHcloud. The *EndPoint* is the OVHcloud data centre with your services. You can choose any data centre in the same region as the PoP.

Layer 2 Mode (L2)

The virtual link is a L2 tunnel for OVHcloud Connect L2. Only one PoP/*EntryPoint* with one DC/*EndPoint* can be configured.

Layer 3 Mode (L3)

The virtual link is a full mesh IP network between any PoP/*EntryPoint* and any DC/*EndPoint* of the same region.

Accessible PoPs per provider

The OVHcloud Points of Presence (PoPs) available through each of our cloud service provider partners are outlined in the list present at this link on our website.

Accessible Regions per PoP

When you establish a connection to OVHcloud Connect, your traffic enters the OVHcloud network through a specific PoP. Each PoP is associated with a geographic zone, and the OVHcloud regions that can be reached from that PoP are limited to the zone in which it is located. Depending on the PoP you select, only a defined set of regions will be available for interconnection.

The following table lists regions that can be accessed from each PoP location:

Zone	OVHcloud Connect PoPs	Accessible OVHcloud Regions
Europe	•Paris: Equinix - PA3, GlobalSwitch, Telehouse - TH2 •Frankfurt: Equinix - FR5 •London: Equinix - LD5, Telehouse - West •Madrid: Digital Realty - MAD2 •Warsaw: Equinix - WA2 •Lille: ETIX - ETX2	•Strasbourg (`eu-west-sbg`), •Gravelines (`eu-west-gra`), •Roubaix (`eu-west-rbx`), •Paris (`eu-west-par`), •Limburg (`eu-west-lim`), •Warsaw (`eu-central-waw`), •Erith (`eu-west-eri`)
North America	•Montreal: Cologix - MTL3 •Toronto: Equinix - TR1	•Beauharnois (`ca-east-bhs`), •Toronto (`ca-east-tor`)
Asia-Pacific	•Singapore: Equinix - SG1 •Mumbai: Equinix - MB2	•Singapore (`ap-southeast-sgp`), •Mumbai (`ap-south-mum`)

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Layer 2 mode

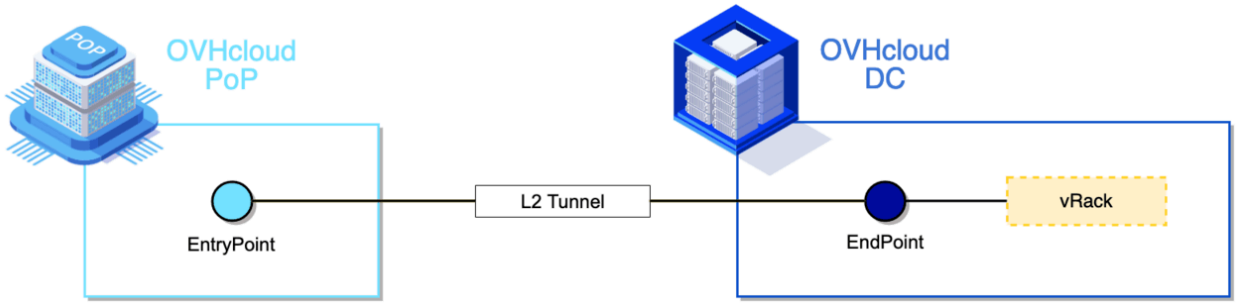
Details about using Layer 2 (L2) with OVHcloud Connect

Objective

Learn more about Layer 2 implementation and connection for the OVHcloud Connect solution.

Instructions

Layer 2 implementation

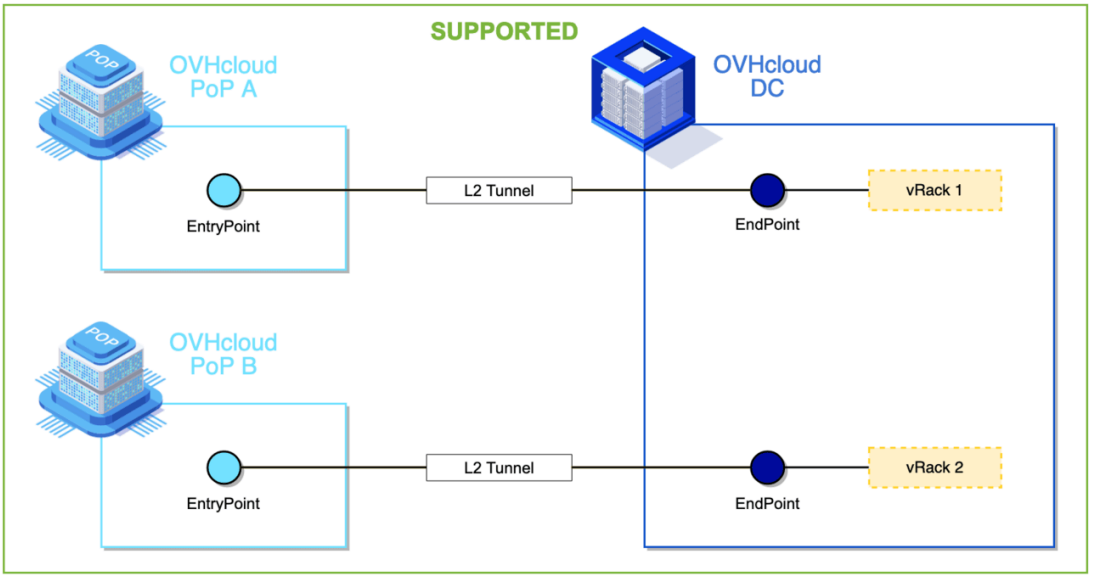


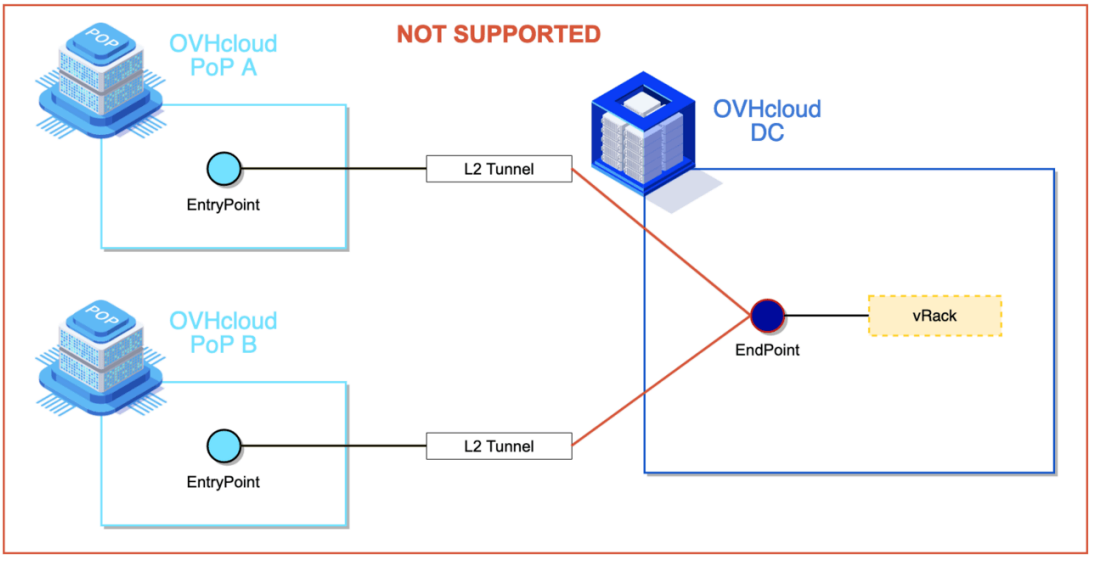
The L2 tunnel is forwarded directly to/from the vRack, so all L2 traffic is forwarded to/from the customer inter-connection.

L2 traffic refers to Ethernet frames, with an 802.1q header, if applicable:

- Ethernet broadcast is forwarded.
- Unknown Ethernet unicast is forwarded.
- Multicast is forwarded (considered broadcast, limited to 20pps).
- Specific point-to-point Ethernet frames (like LLDP or LACP) are not forwarded

Only one OVHcloud Connect L2 is supported per vRack: each PoP/EntryPoint can only be associated with one DC/EndPoint.

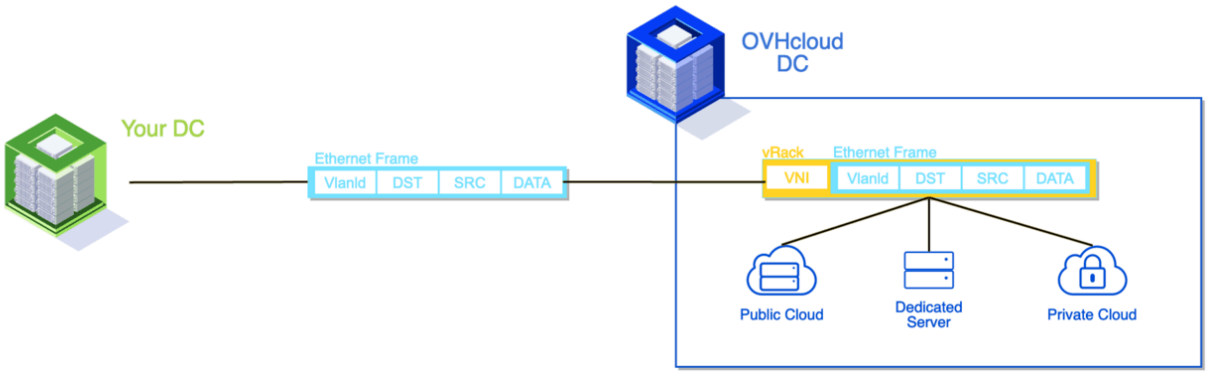




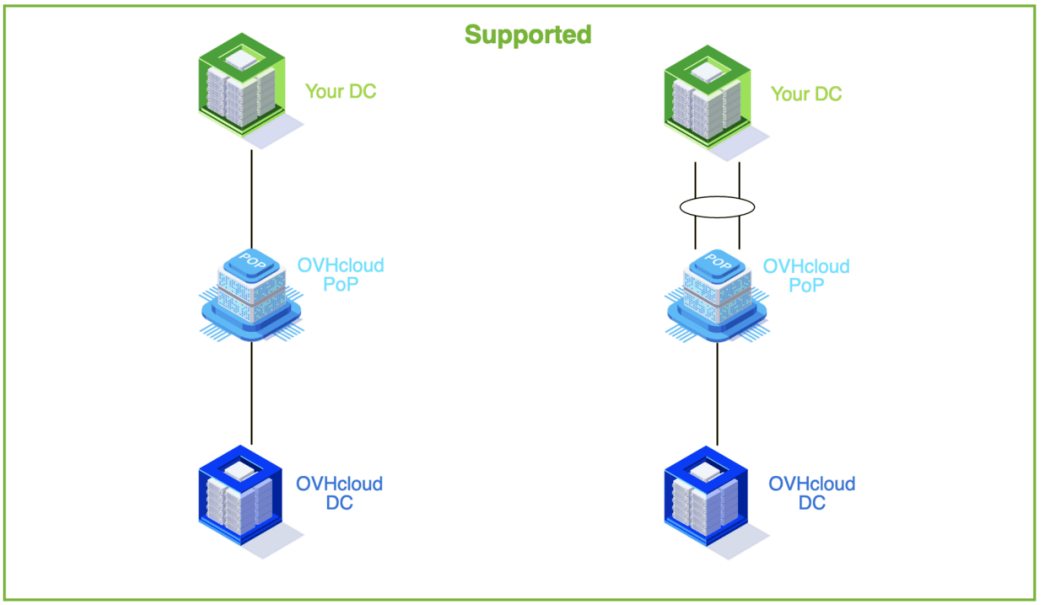
With L2 mode, redundancy cannot be exploited between two PoP/EntryPoint. The only solution is to use a LAG on a PoP/EntryPoint.

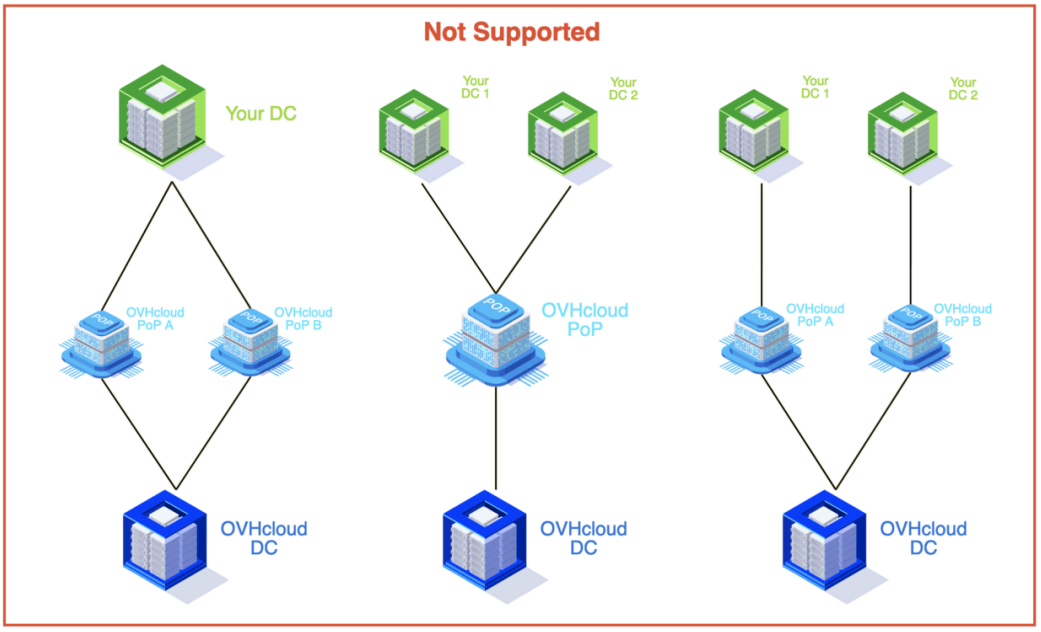
Connection mode details

L2 operates at the Ethernet level. The customer's vRack is extended "as-is" from OVHcloud and forwarded to the customer link. Transparent to VLANs, this mode is the best way to inter-connect the customer's legacy network with an OVHcloud vRack.



The L2 mode is limited to a point-to-point topology: a backup link through a second PoP is not supported.





LACP is mandatory for aggregation when 2 links are configured with PoP.

Jumbo frames up to 9000 bytes are supported.

Connections between a PoP and a DC benefit from the OVHcloud backbone. An internal link failure is therefore supported and will not impact customer traffic.

Go further

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Layer 3 mode

Details about using Layer 3 (L3) with OVHcloud Connect

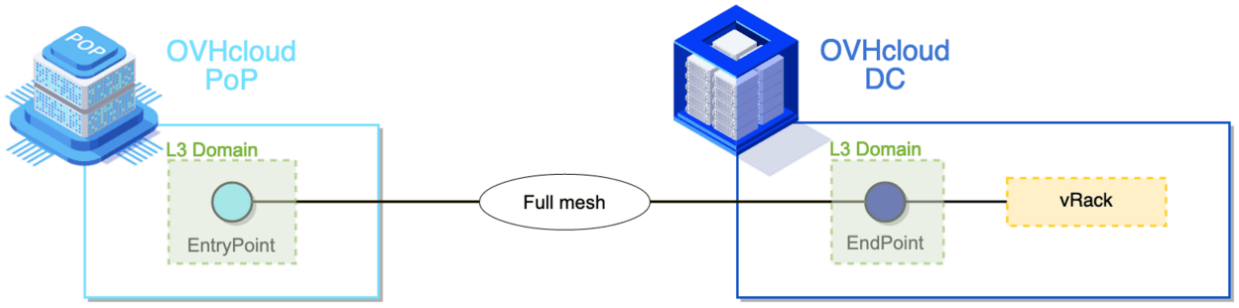
Objective

Learn more about Layer 3 implementation and connection for the OVHcloud Connect solution.

Instructions

Layer 3 implementation

OVHcloud Connect configured in Layer 3 differs from Layer 2 as you have to configure the L3 domain on each PoP/EntryPoint and DC/EndPoint.

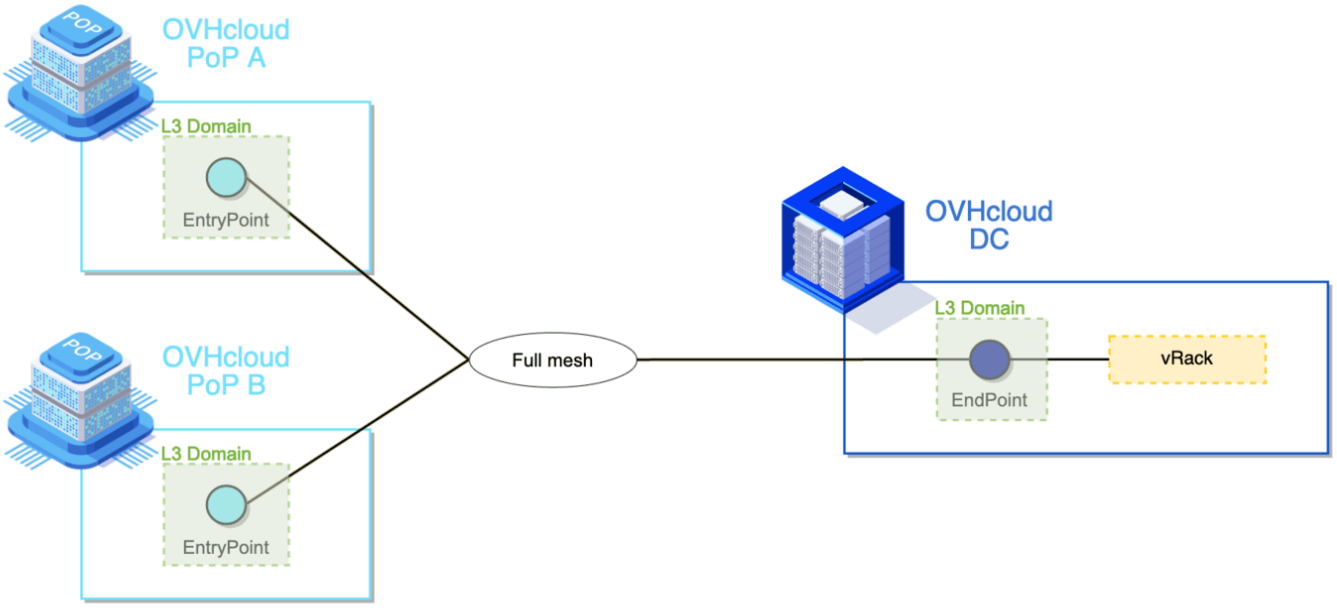


A Layer 3 domain is composed of:

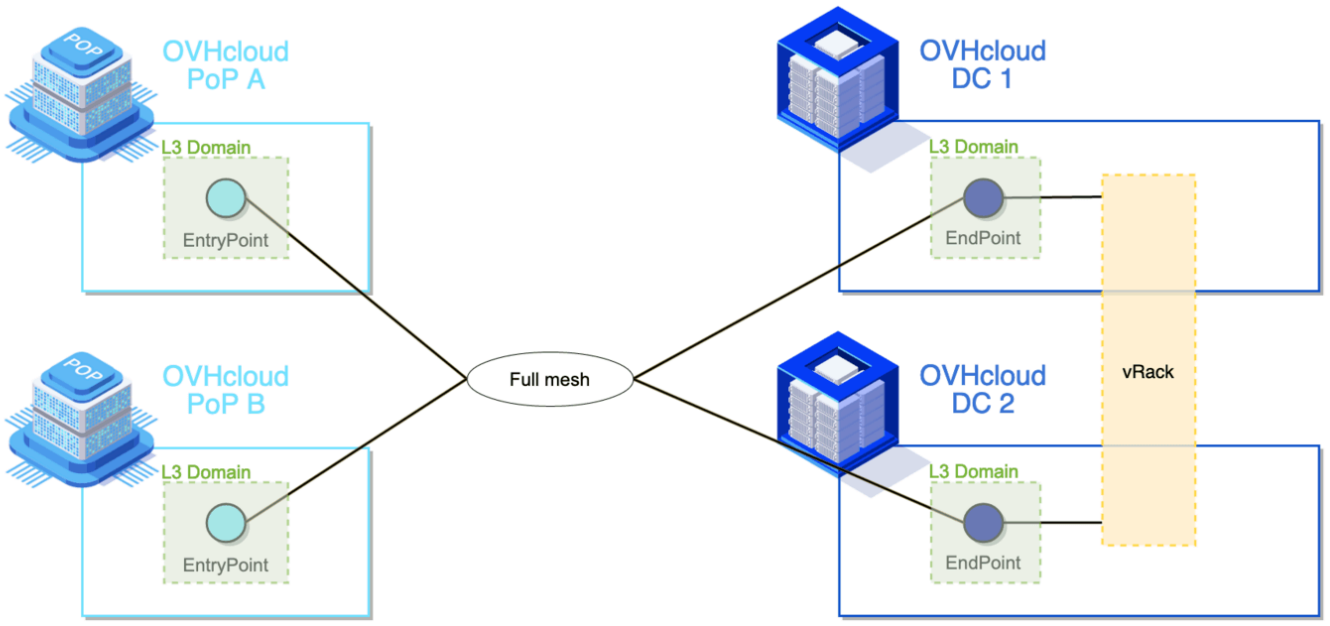
- A subnet
- A BGP ASN

The L3 domain is an IP routing instance provided by OVHcloud. Traffic is forwarded between PoP/EntryPoint and DC/Endpoint, not between two PoPs/EntryPoints. There is no need for internal IP addressing between PoP/EntryPoint and DC/EndPoint. In the data centre, the routing instance inside the L3 domain is composed of two devices, labelled ‘A’ and ‘B’.

Based on this principle it is possible to manage several OVHcloud Connect services.



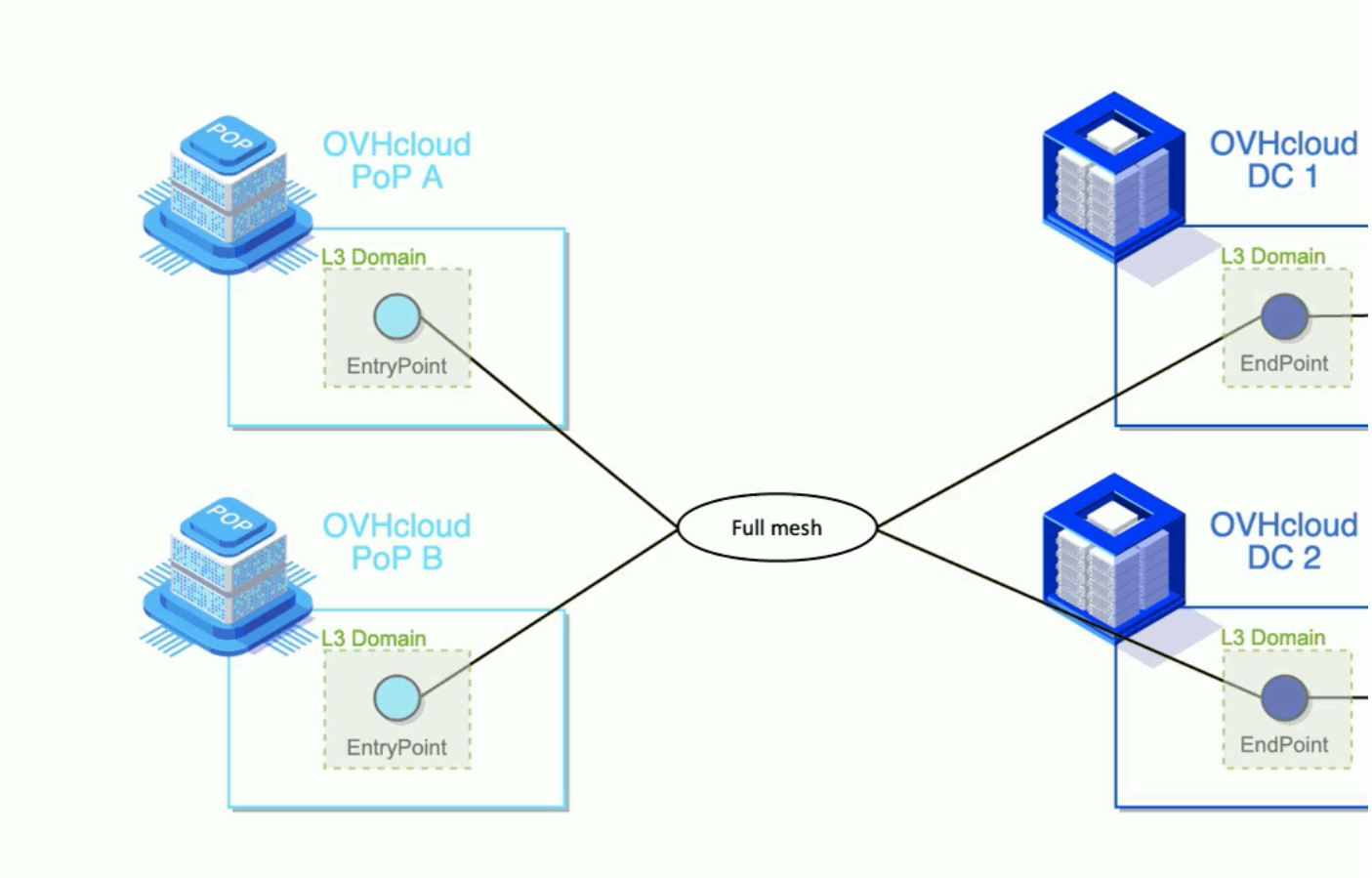
As a result, L3 makes it compatible with a multi-DC configuration.



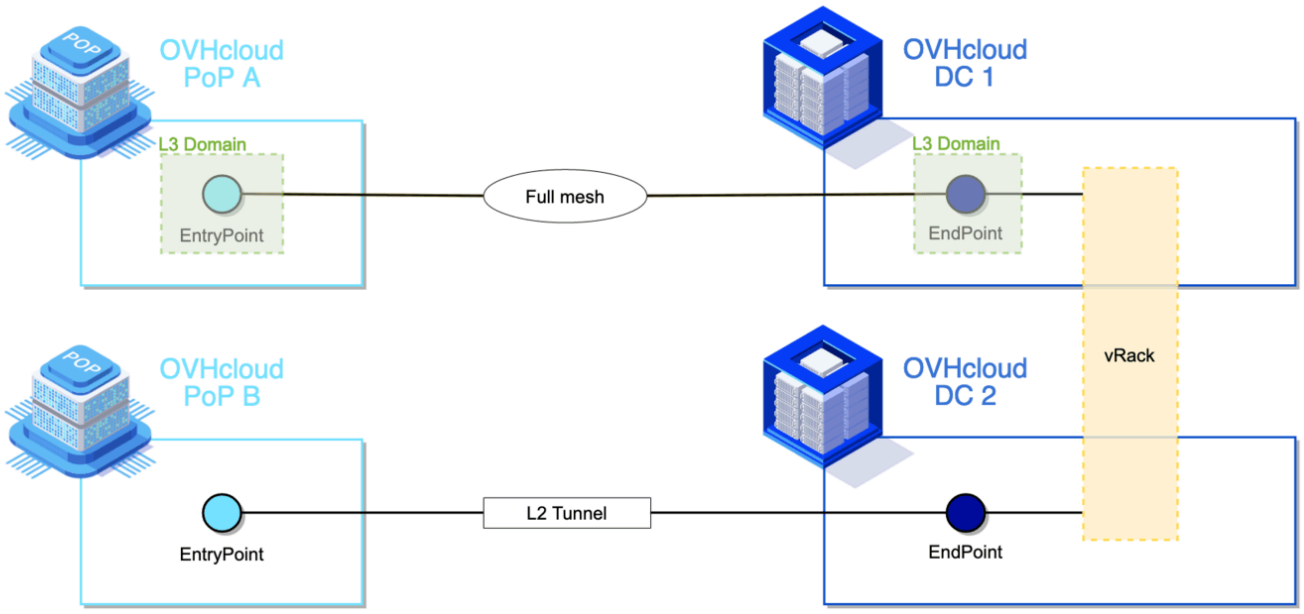
The two examples above illustrate the configuration of two OVHcloud Connect services, as one OVHcloud Connect equals one PoP/EntryPoint.

Rules:

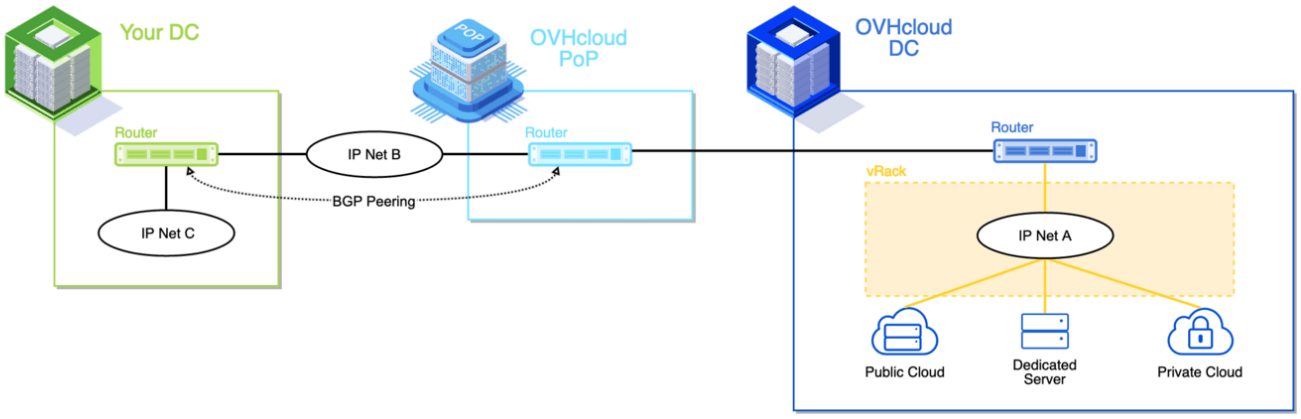
- You can have as many OVHcloud Connect L3 as you want in the same vRack.
- You can associate several PoPs/EntryPoints with one DC/EndPoint.
- You can associate several DCs/EndPoints with one PoP/EntryPoint.
- You cannot associate two PoPs/EntryPoints (i.e. you cannot forward traffic between them).
- One L3 domain can only be associated with one DC/EndPoint.
- One L3 domain (i.e. subnet) cannot be stretched between two DCs or two PoPs.
- An OVHcloud Connect L2 can be mixed with several OVHcloud Connect L3 in the same vRack.



The following schema shows the mix of L2 and L3. They can end in the same OVHcloud data centre or not.



Connection mode details



On such an architecture, two L3 domains are needed: PoP/EntryPoint and DC/EndPoint.

"IP Net A" is part of the L3 Domain in the DC. The following rules apply:

- IP addressing plan (subnet and netmask) with a minimum netmask of /29.
- The first IP address is reserved for the virtual gateway (if running VRRP).
- The two following IP addresses are reserved for the OVHcloud routing instance.
- All other IP addresses are available to the customer.

IP address	Role
A.B.C.0	Subnet
A.B.C.1	OVHcloud virtual router address (if enabled)
A.B.C.2	OVHcloud router A
A.B.C.3	OVHcloud router B

"IP Net B" is part of the L3 Domain in the PoP. The following rules apply:

- Supported netmask: /30 (CIDR notation).
- The first IP address is reserved for the OVHcloud routing instance.
- The second IP address is used for customer equipment.

IP address	Role
A.B.C.0	Subnet
A.B.C.1	OVHcloud router
A.B.C.2	Customer router
A.B.C.3	Subnet broadcast

VRRP configuration in the DC/EndPoint

VRRP allows router redundancy on OVHcloud devices.

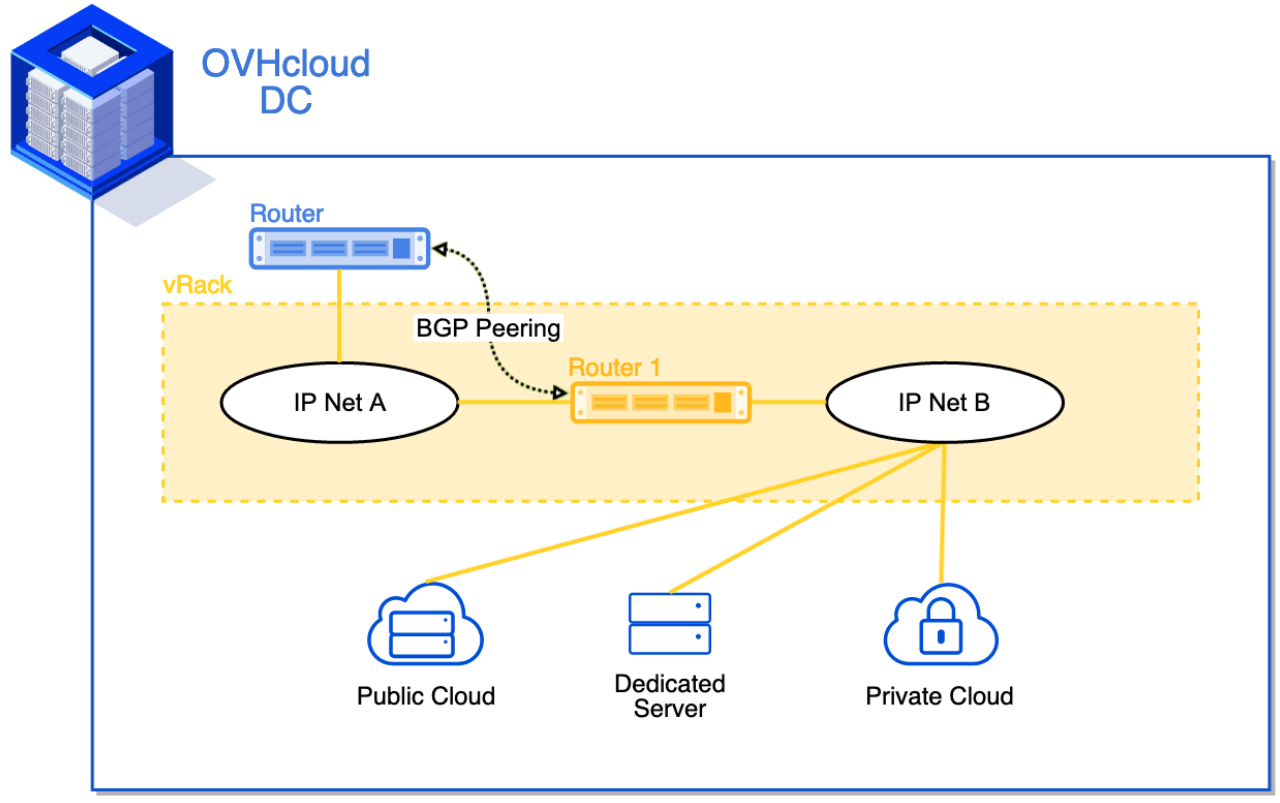
- Each DC/EndPoint supports only one VRRP instance.
- The VRRP VRID value is provided by OVHcloud.
- By default, VRRP is master on ‘A’ device.
- Static routes can be configured.

BGP configuration

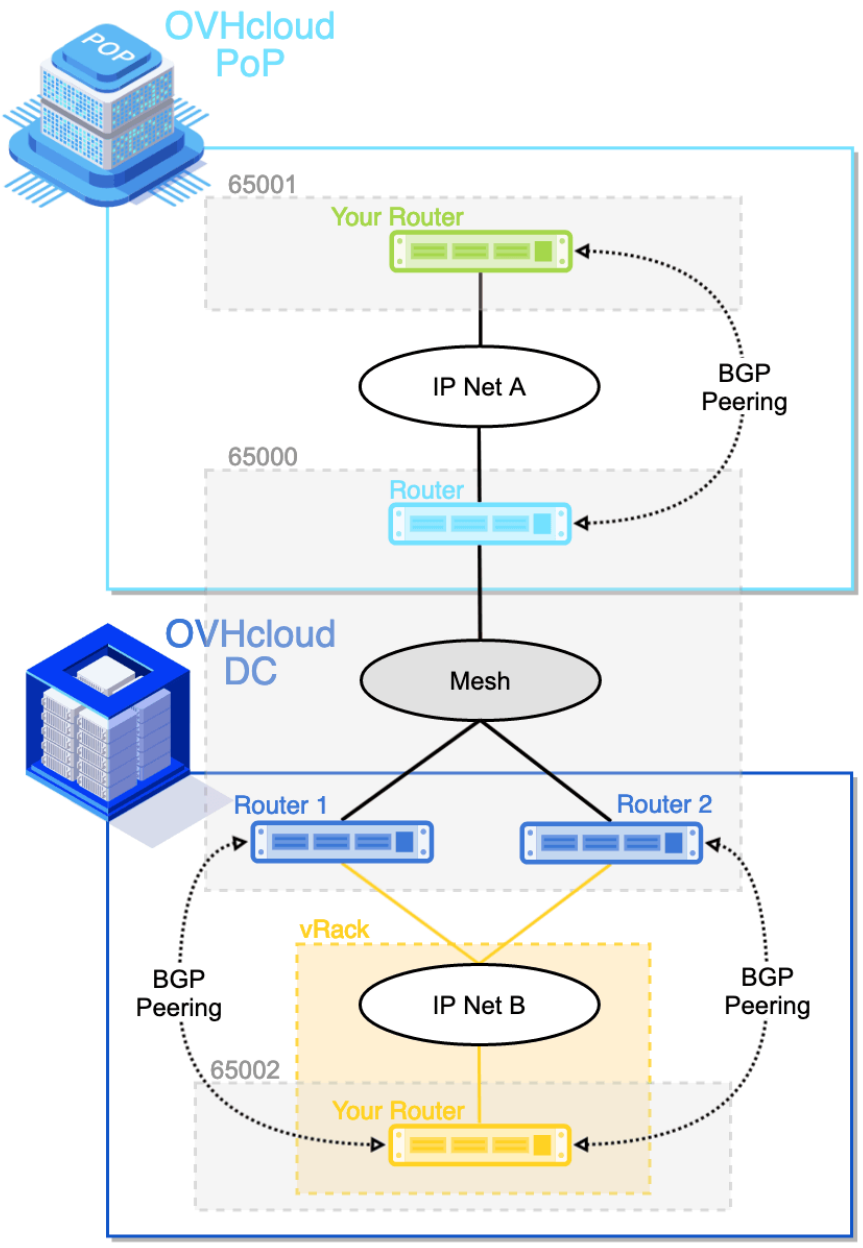
BGP is mandatory in a PoP/EntryPoint and optional in a DC/EndPoint. Enabling BGP in a DC/EndPoint disables VRRP configuration.

- Each PoP/EntryPoint and DC/EndPoint needs an AS. This AS must be independent from the customer BGP AS to form an eBGP relation. The recommended value is in the range 64512-65534.
- Each PoP/EntryPoint supports only one BGP session (no eBGP Multihop).
- With two or more PoPs/EntryPoints, ECMP is automatically enabled. MED and/or AS-PATH must be tuned to have path selection.
- Each DC/EndPoint supports up to 4 BGP peers.
- Up to 100 prefixes can be announced per BGP session.
- For each DC/EndPoint you must establish a BGP session with ‘A’ device and ‘B’ device.
- By default, BFD is activated on all BGP sessions. This protocol is higly recommended on the DC side as well to have a faster convergence.

For example, IP network 'B' will be announced to the OVHcloud router through BGP session.



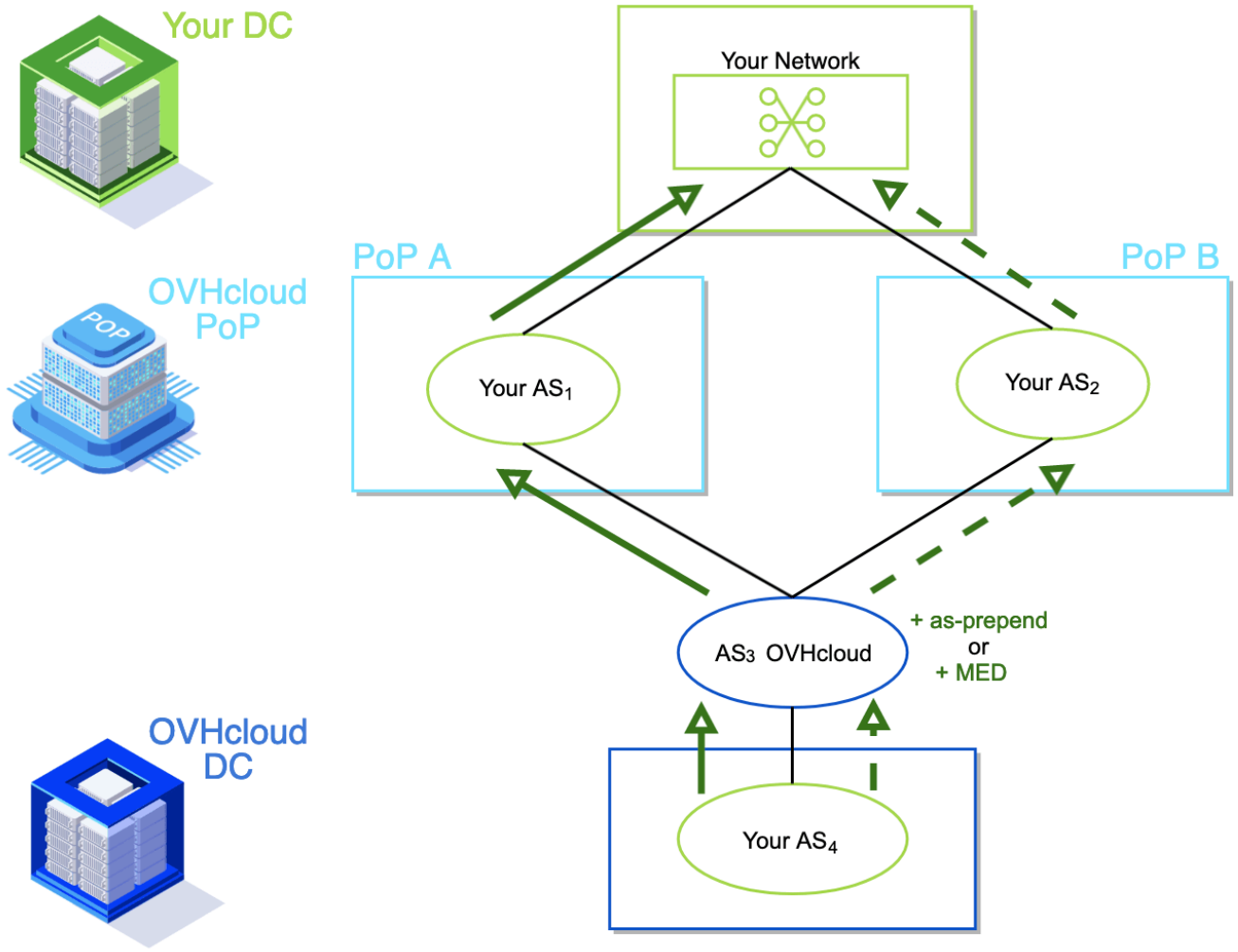
At a more global level, BGP topology will look like this:



BGP path selection

By default, all available paths are enabled using ECMP, with up to 4 paths supported. To have an active/passive topology with two PoPs/EntryPoints, you can use AS path prepending or MED.

If AS path prepending is configured on the customer's devices in PoP2, the topology will look like this:



Note: AS path prepending is not configurable on OVHcloud devices.

Using MED is an alternative to achieve the same topology.

Go further

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Getting started

Installation of OVHcloud Connect Direct from the OVHcloud Control Panel

Find out how to set up your OVHcloud Connect Direct solution via the OVHcloud Control Panel

Objective

With OVHcloud Connect, you can link your company network to your private OVHcloud vRack network, without creating a VPN tunnel through the internet. This will give you a quicker, more stable connection with guaranteed bandwidth.

This guide will show you how to set up the OVHcloud Connect Direct solution via the OVHcloud Control Panel.

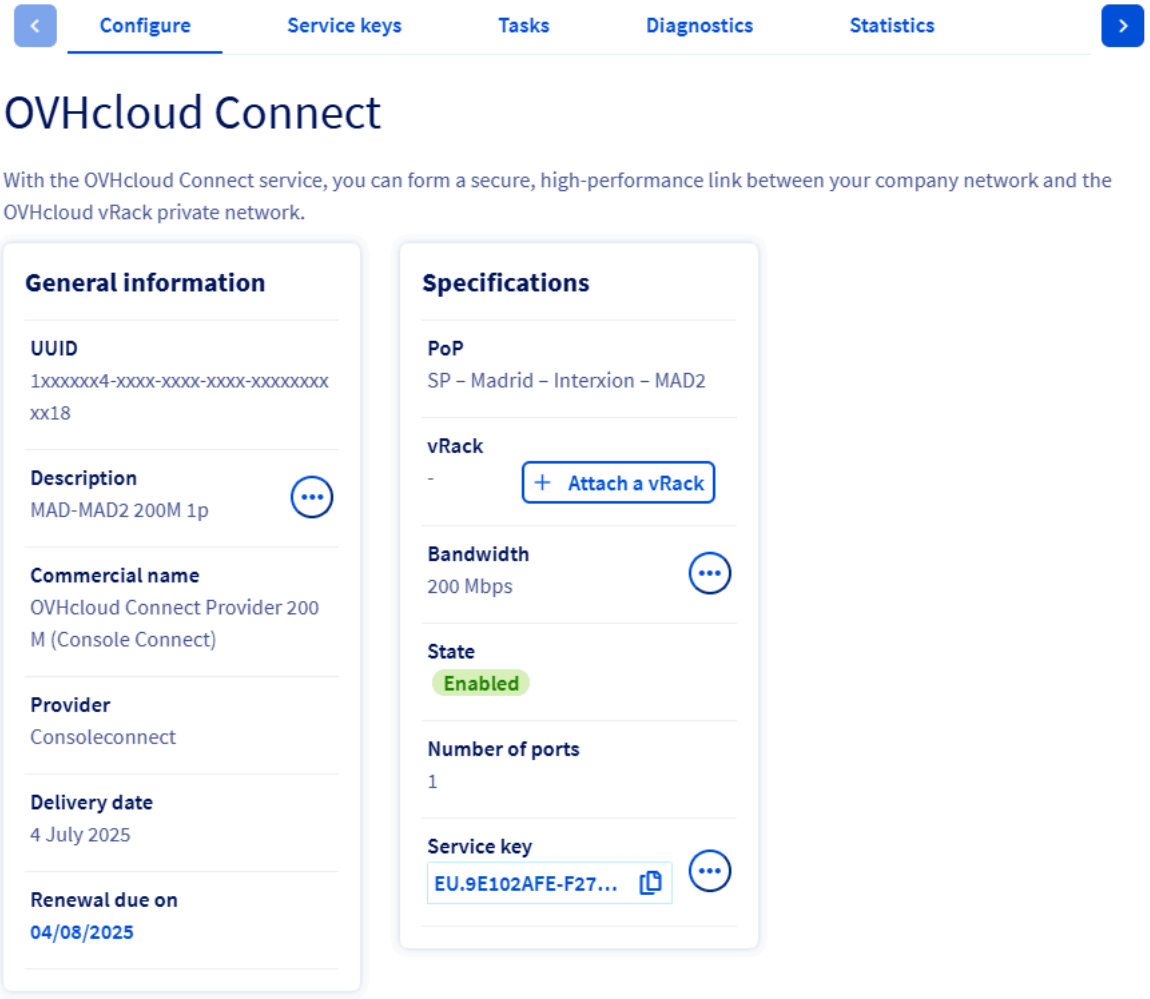
Requirements

> **Warning**
> To ensure correct operation of this service, you must be aware of the technical capabilities and limitations of the OVHcloud Connect solution and configure your network devices accordingly.

- An OVHcloud Connect Direct solution
- An OVHcloud vRack
- Access to the `OVHcloud Control Panel`

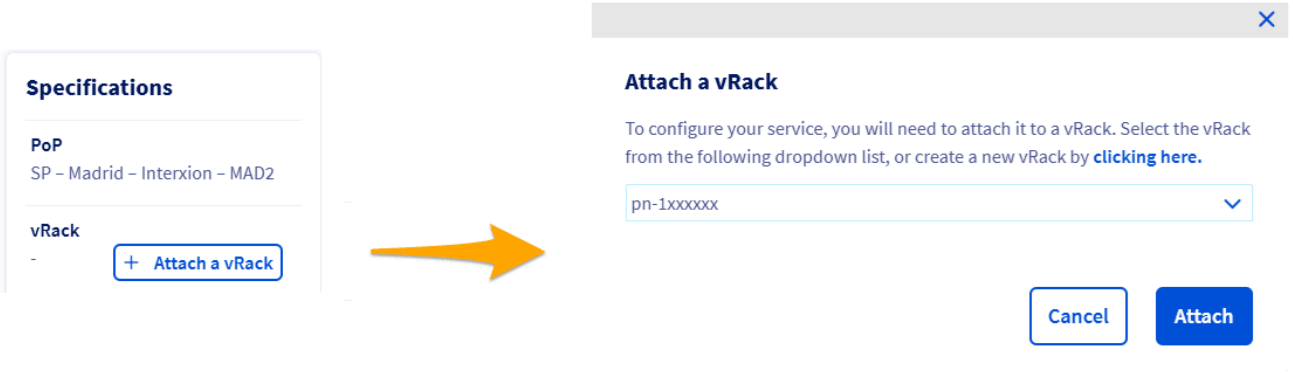
Instructions

Log in to the `OVHcloud Control Panel`, go to the **Bare Metal Cloud** section and click on **Network**. Next, open **OVHcloud Connect** and click on your solution.

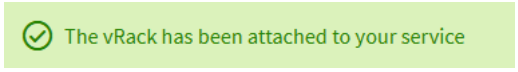


Step 1: Associating a vRack

You will need to link a vRack to your solution first. Click the **Attach a vRack** button and select an existing vRack from the drop-down menu.



A message will confirm the vRack association.



Step 2: Adding a PoP configuration

Warning

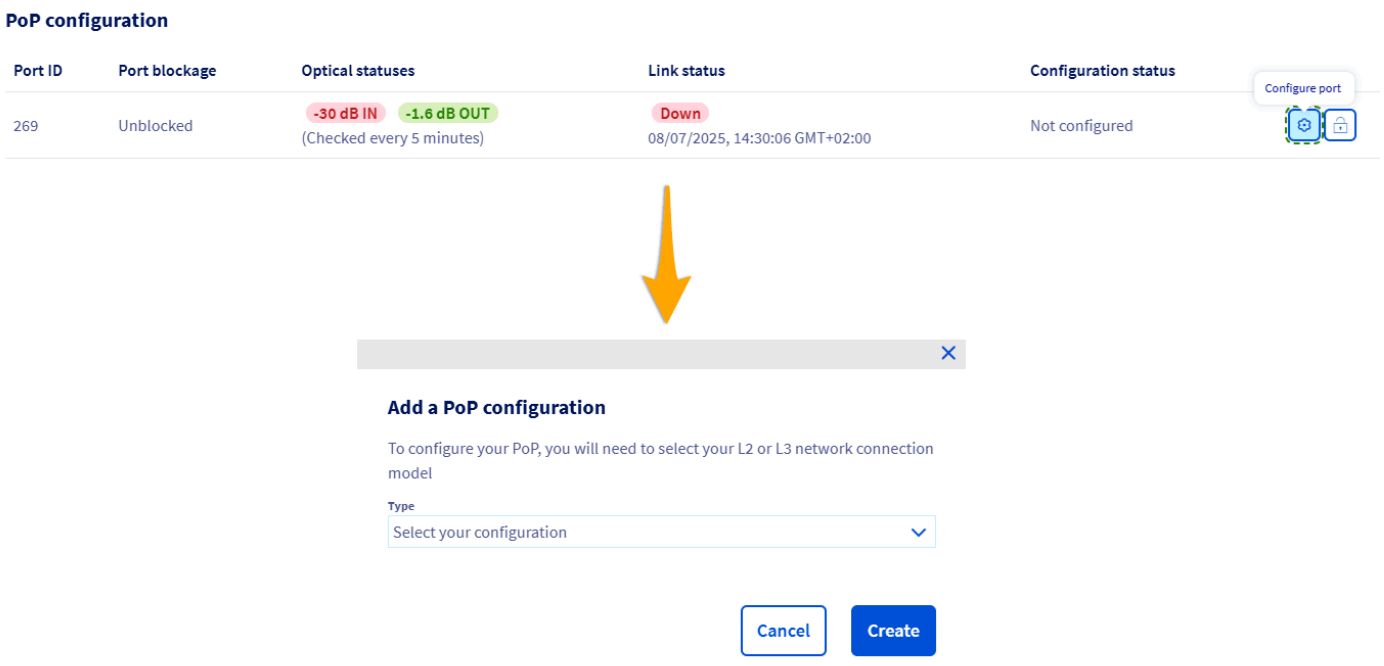
Changing the PoP configuration from L2 to L3, or vice versa, would require deleting the entire configuration. We advise you to think carefully about your configuration choice before going any further.

Info

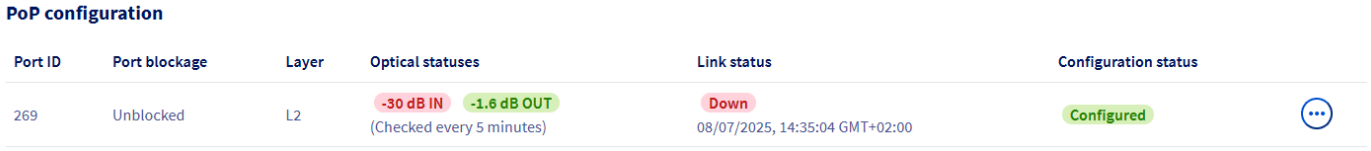
For more details on the differences between levels L2 and L3, see our FAQ.

Configuration

Once you have linked your vRack, two `PoP configuration` menus will appear. Click the **Add a PoP configuration** button in the first menu, select L2 from the drop-down menu, then confirm.

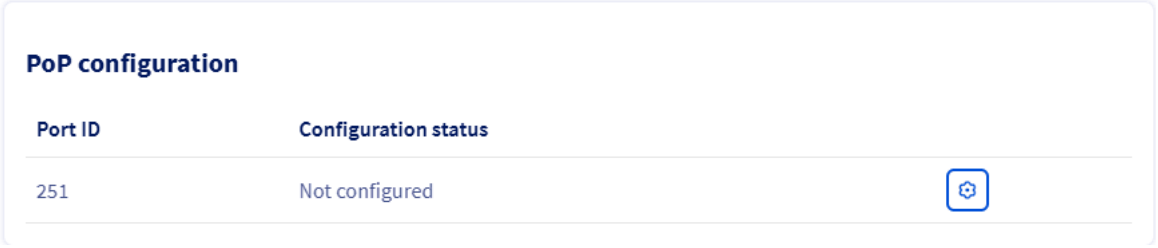


The L2 configuration will then be enabled in the `PoP configuration` menu.



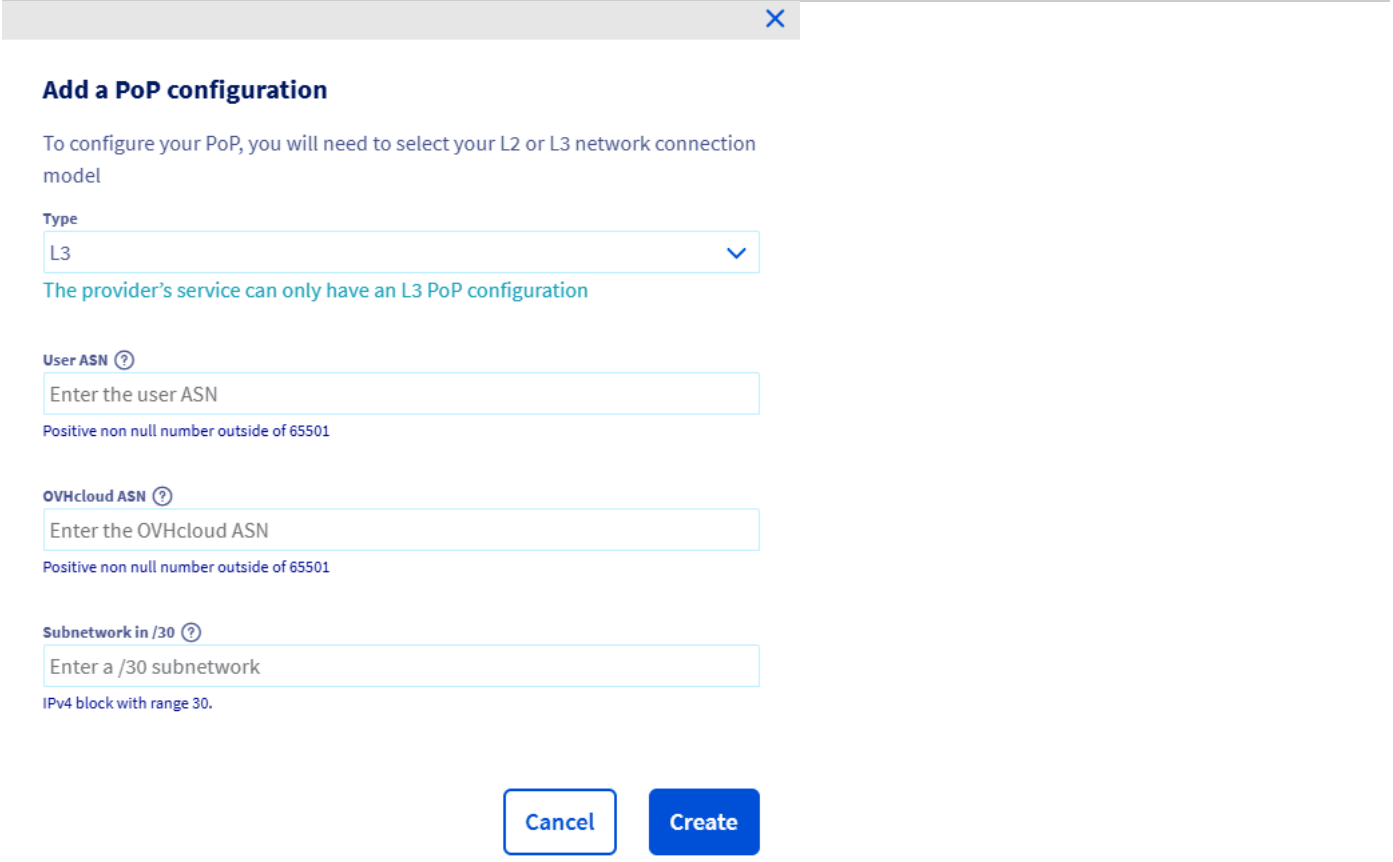
Configuration L3

Once you have connected your vRack, click **Add a PoP configuration** and select the L3 configuration from the drop-down menu.

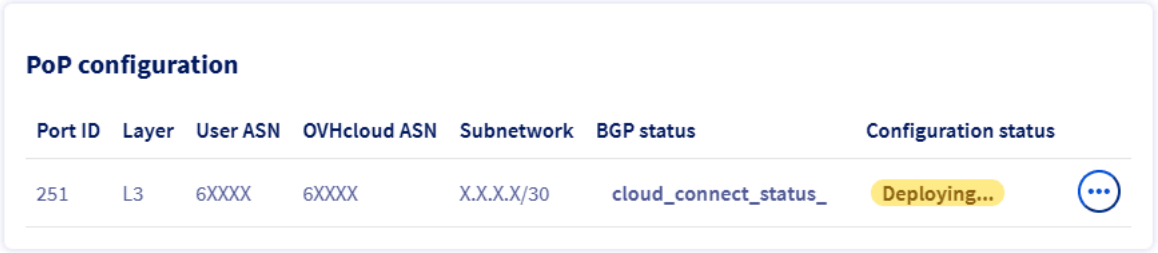


You will then need to enter the following:

Information	Description
Customer ASN	Your AS BGP number, which is configured on your router located in the PoP
OVHcloud ASN	The OVHcloud AS number that will be configured on the OVHcloud Connect routers located in the PoP
Subnetwork in /30	A size /30 IPv4 block, used for the link between your router and the OVHcloud Connect router located in the PoP



The `PoP configuration` menu will then appear.

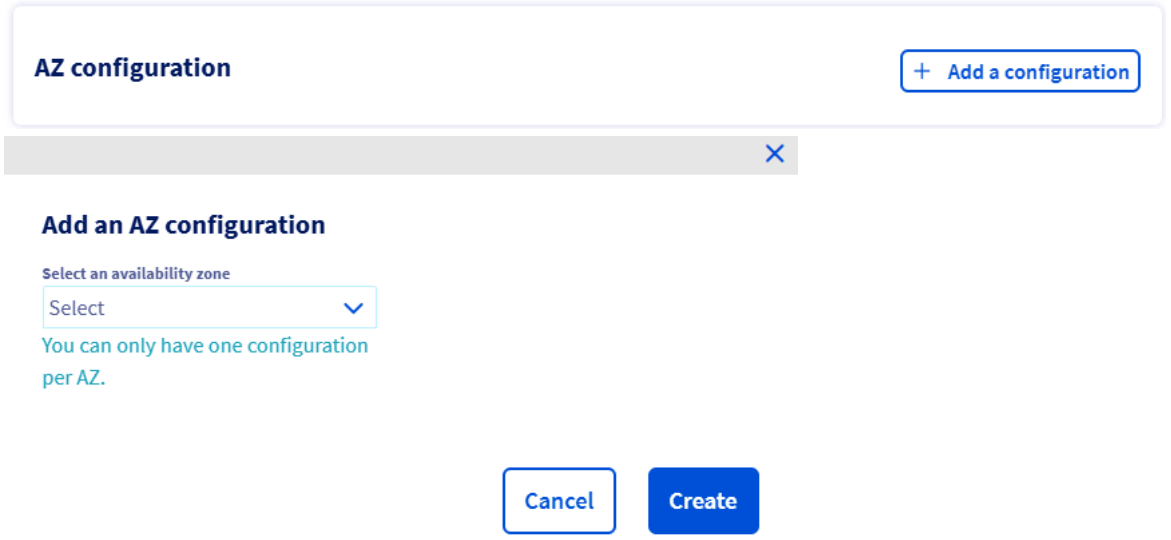


You can also add a second PoP L3 configuration via the second `PoP configuration` menu.

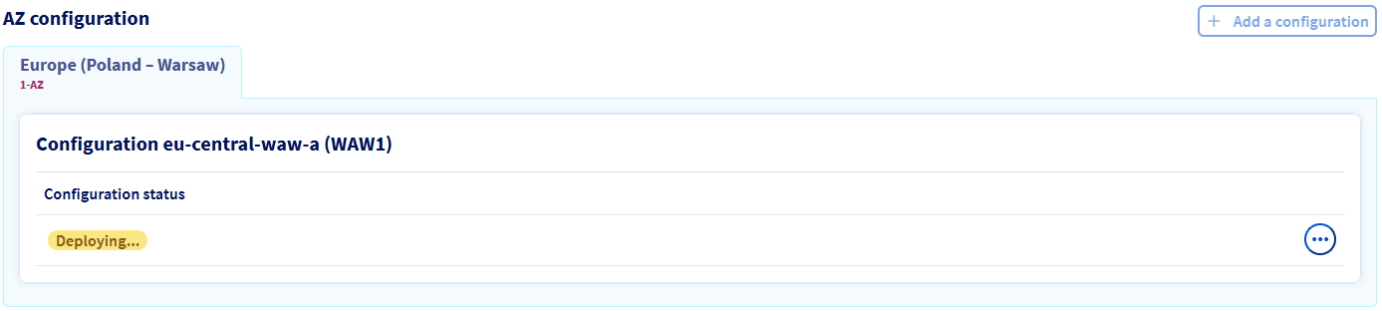
Step 3: Adding an availability zone configuration

Configuration

When your PoP configuration is active, click **Add a configuration** under the `AZ configuration` menu. Select an availability zone from the drop-down menu and confirm.

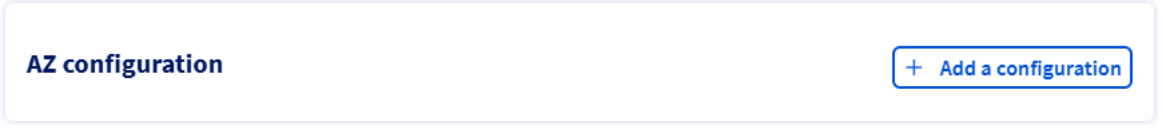


The AZ configuration will then begin.



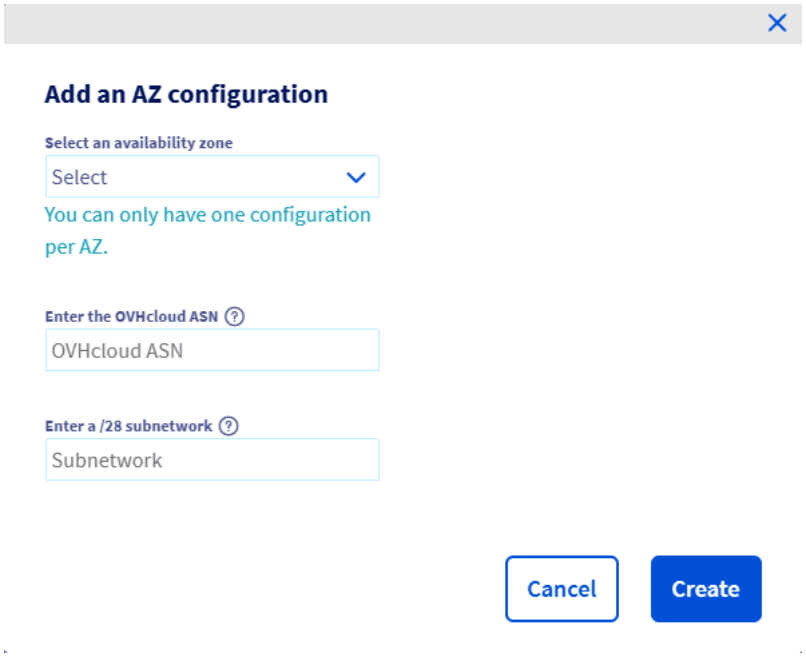
Configuration L3

When your PoP configuration has been set, click **Add a configuration** under the `AZ configuration` menu.

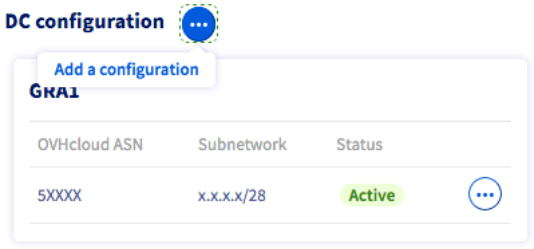


Select an availability zone from the drop-down menu, then enter the information required.

Information	Description
OVHcloud ASN	The OVHcloud AS number that will be configured on the OVHcloud Connect routers located in the AZ. This number may be different from the ASN chosen for the PoP
A /28 subnetwork	A private subnetwork configured in your vRack in the selected AZ. This can be an IPv4 block of size /28 or higher



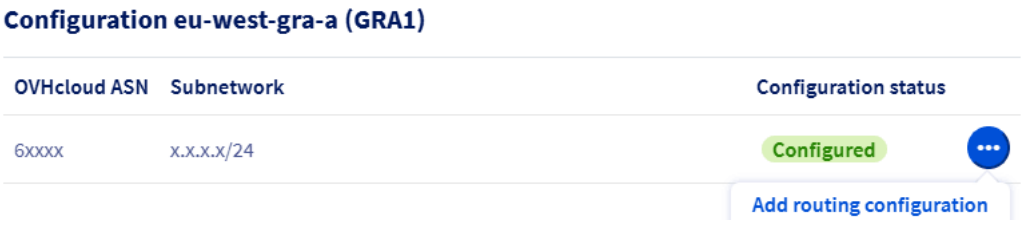
You can add additional availability zone configurations by clicking on the **+ Add a configuration** button.



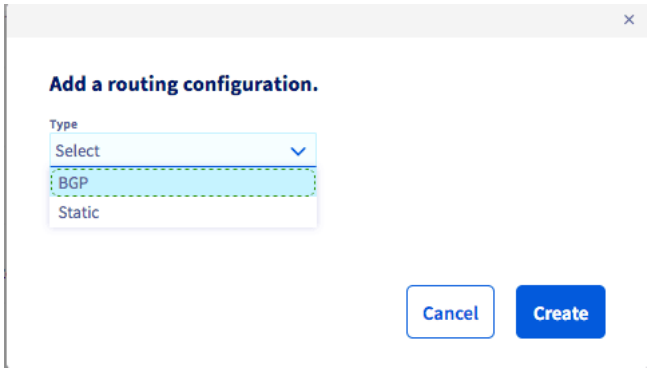
You must also add a routing configuration.

Adding a routing configuration

Click on the **(...)** button on the desired availability zone then on **Add routing configuration** .

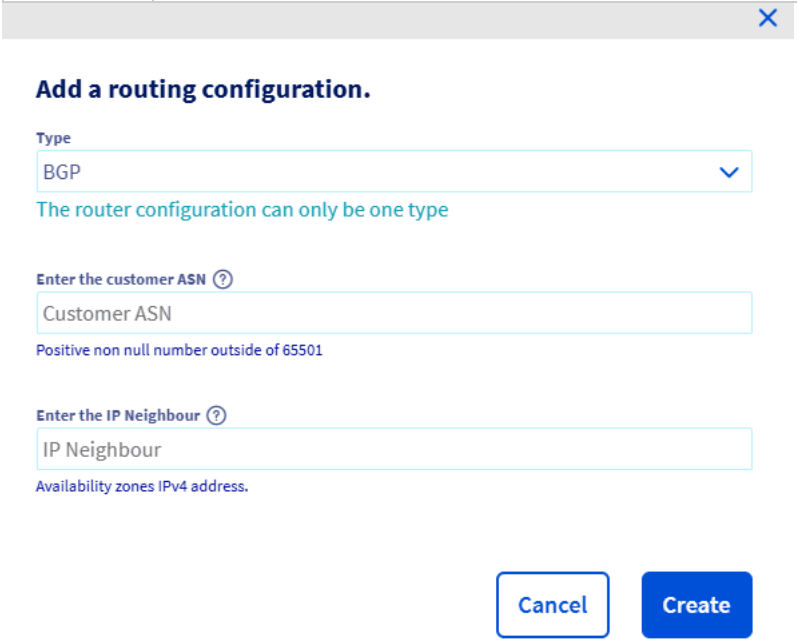


Then choose the routing type between Static and BGP.



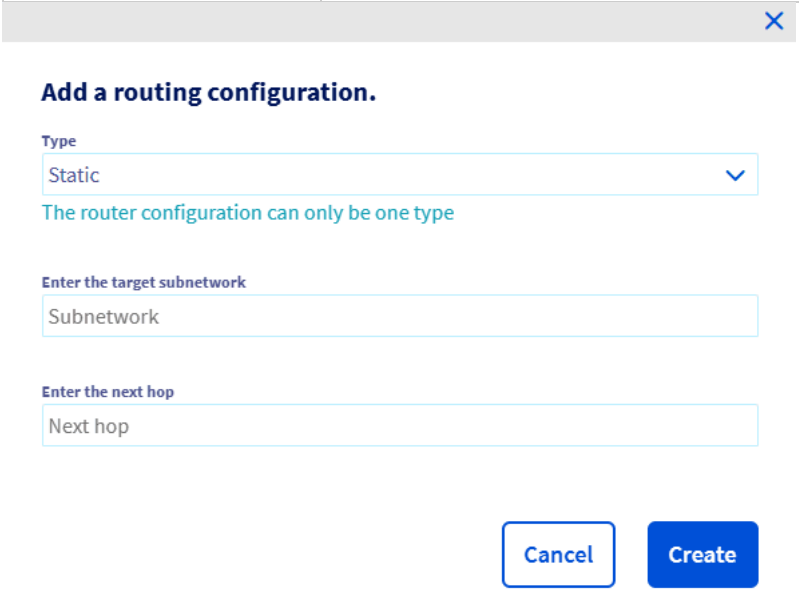
If you choose the type BGP, then enter the required information.

Information	Description
Customer ASN	Your AS BGP number, which is configured on your router located in the AZ
IP Neighbour	IP address of the BGP neighbour of your router in the AZ. This address must be part of the subnetwork specified in the `AZ Configuration` section



If you choose the Static type, enter the required information:

Information	Description
Network Focus	A prefix using CIDR notation
Next hop	An IP address acting as gateway in the subnetwork range



You can add multiple routing configurations within the same availability zone. The configuration type (BGP or Static) chosen for your first routing configuration will then apply to the next configuration on the same availability zone.

Deletion of vCenter resources

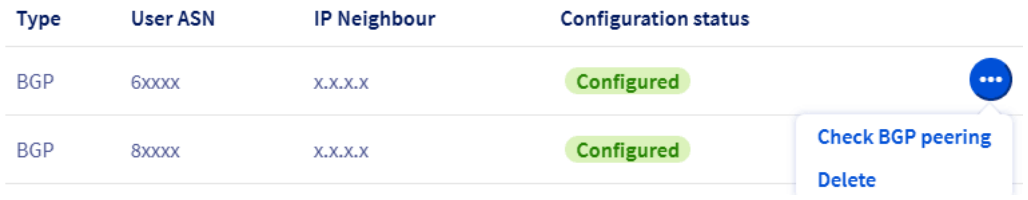
Each resource (PoP or AZ) can be deleted individually, but deleting a parent resource such as AZ or PoP will automatically delete all the subresources.

Recursive removal is slower than sequential removal of each resource.

> **Info**
> If a AZ configuration is shared between two or more OVHcloud Connect services, removing the PoP configuration from a single OVHcloud Connect service will not affect the AZ resource.

Deleting a routing Configuration

To delete a routing configuration, click the `...` button on the routing configuration to delete, then click **Delete**.



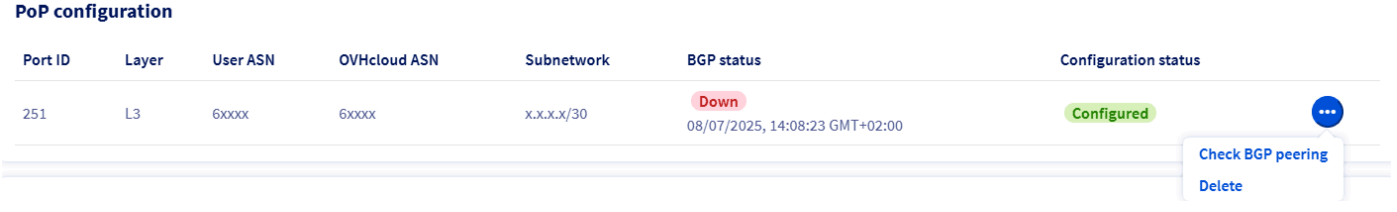
Deleting a AZ configuration

To delete a AZ configuration, click the `...` button on the AZ configuration to delete, then click **Delete**.

> **Info**
> Deleting a AZ configuration will delete the related routing configurations.

Deleting a PoP configuration

To delete a PoP configuration, click the `...` button on the PoP configuration to delete, then click **Delete configuration**.



> **Info**
> Deleting a PoP configuration will delete the related AZ and routing configurations.

Go further

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Installation of OVHcloud Connect Provider from the OVHcloud Control Panel

Find out how to set up your OVHcloud Connect Provider solution via the OVHcloud Control Panel

Objective

With OVHcloud Connect, you can link your company network to your private OVHcloud vRack network, without creating a VPN tunnel through the internet. This will give you a quicker, more stable connection with guaranteed bandwidth.

This guide will show you how to set up the OVHcloud Connect Provider solution via the OVHcloud Control Panel

Requirements

> **Warning**
> To ensure correct operation of this service, you must be aware of the technical capabilities and limitations of the OVHcloud Connect solution and configure your network devices accordingly.

- An OVHcloud Connect Provider solution
- An OVHcloud vRack
- Access to the OVHcloud Control Panel

Instructions

Step 1: Ordering your solution

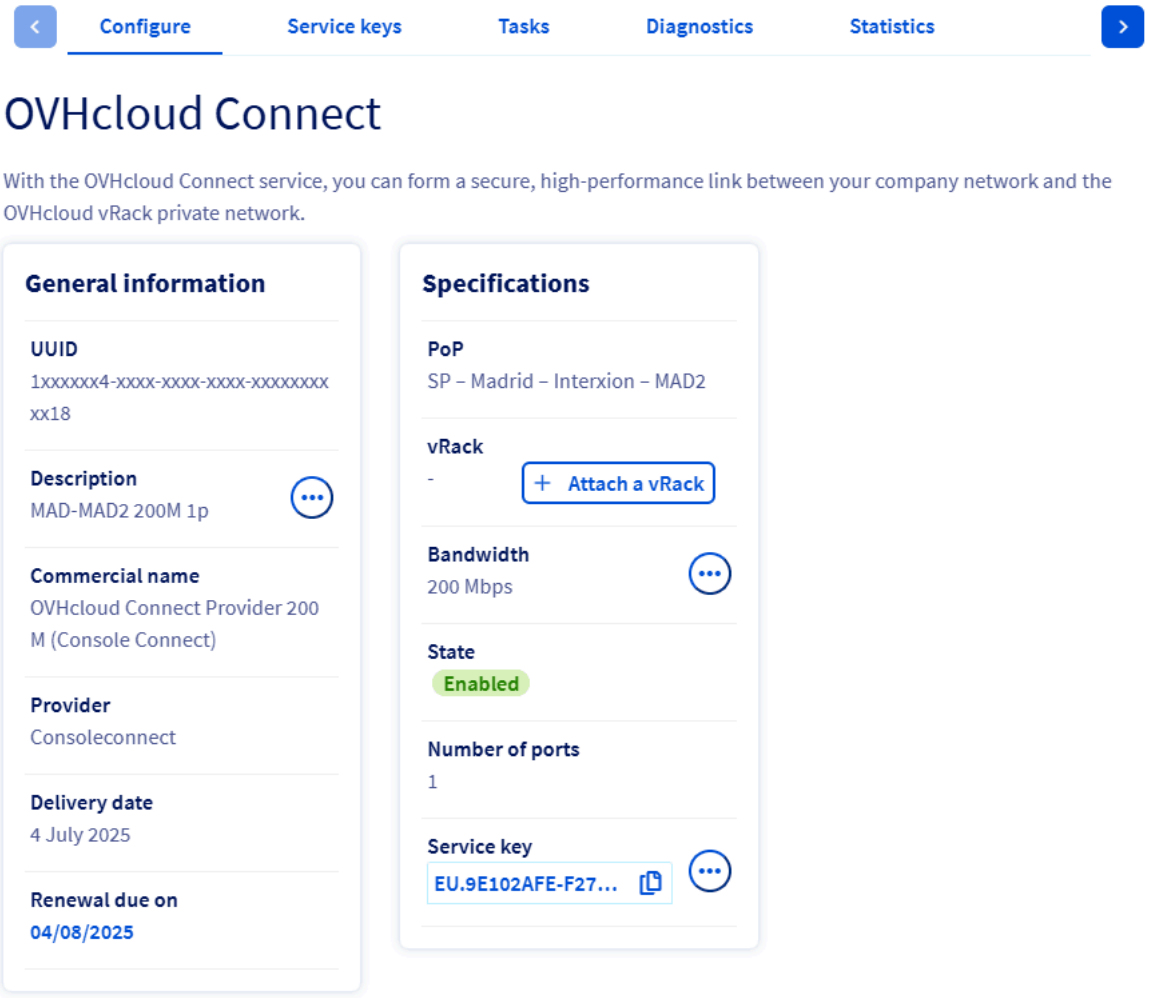
Once you have ordered your OVHcloud Connect Provider solution, you will receive an order confirmation via email, along with a service key.

Depending on the provider you have chosen, go to their portal to log in via the link provided in the order confirmation email. Then enter your service key and confirm the order presented to you.

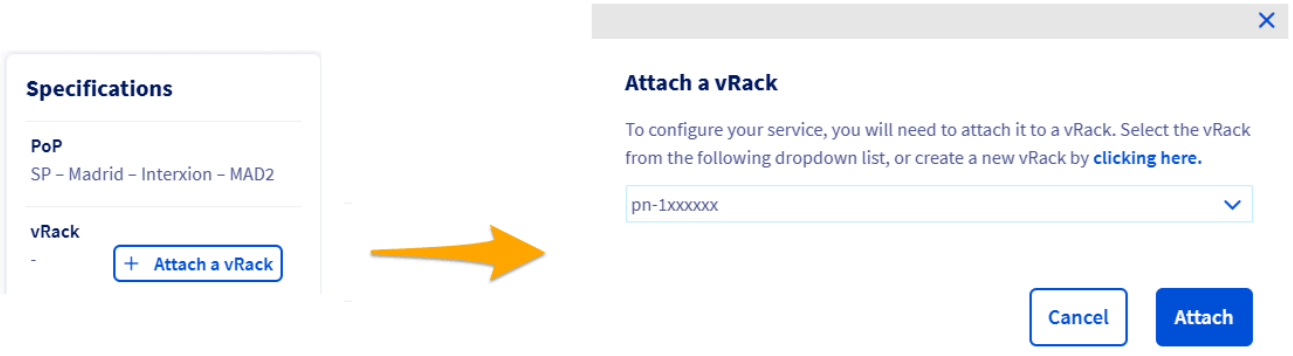
Next, check the activation status of your solution in the OVHcloud Control Panel. To do this, go to the **Bare Metal Cloud** section and click on **Network**. Next, open **OVHcloud Connect** and click on your solution. Your solution's status should have changed to “Active”.

Step 2: Associating a vRack

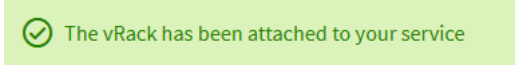
Log in to the OVHcloud Control Panel, go to the **Bare Metal Cloud** section and click on **Network**. Next, open **OVHcloud Connect** and click on your solution.



You will need to link a vRack to your solution first. Click the **Attach a vRack** button and select an existing vRack from the drop-down menu.



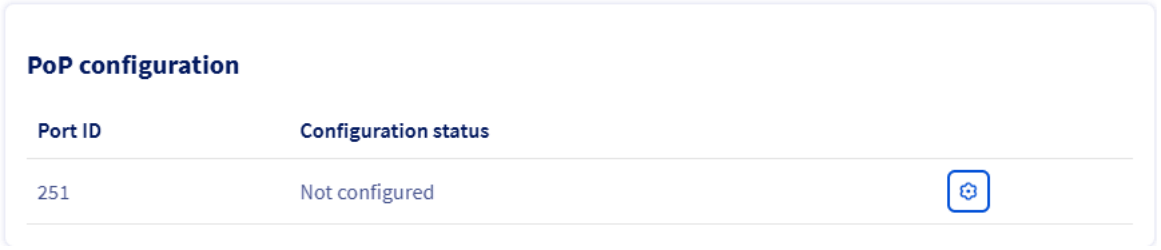
A message will confirm the vRack association.



Step 3: Adding a PoP configuration

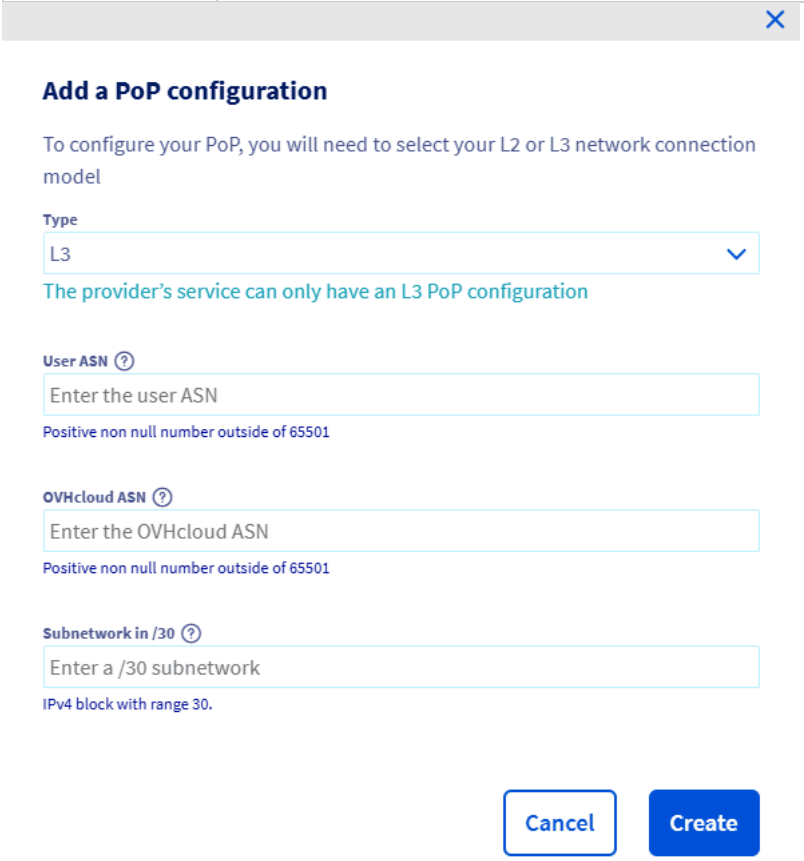
> **Warning**
> The OVHcloud Connect Provider solution requires an L3 level configuration.

Once you have connected your vRack, click the cogwheel button in the **PoP configuration** section and select the L3 configuration from the drop-down menu.

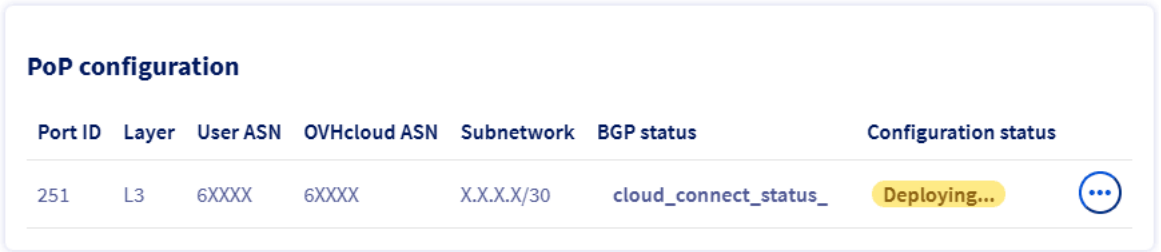


You will then need to enter the following:

Information	Description
Customer ASN	Your AS BGP number, which is configured on your router located in the PoP
OVHcloud ASN	The OVHcloud AS number that will be configured on the OVHcloud Connect routers located in the PoP
Subnetwork in /30	A size /30 IPv4 block, used for the link between your router and the OVHcloud Connect router located in the PoP

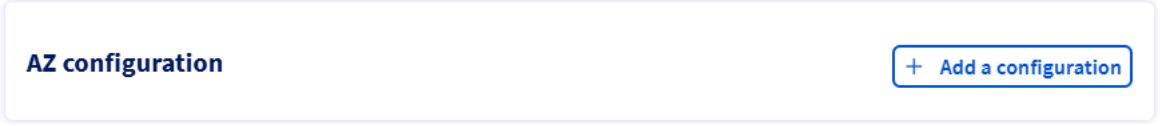


The `PoP configuration` menu will then appear.



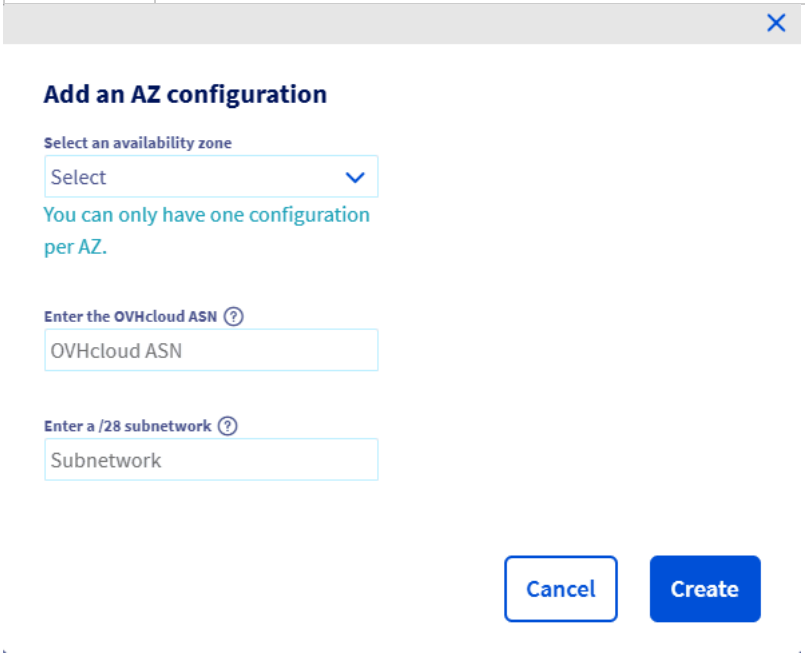
Step 4: Adding an availability zone configuration

When your PoP configuration has been set, click **Add a configuration** under the `AZ configuration` menu.

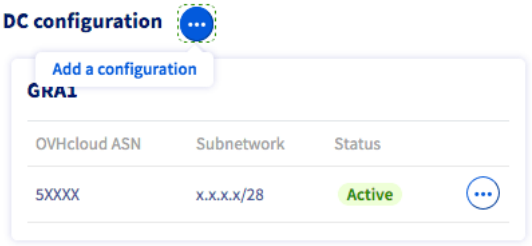


Select an availability zone from the dropdown menu, then enter the information required.

Information	Description
OVHcloud ASN	The OVHcloud AS number that will be configured on the OVHcloud Connect routers located in the AZ. This number may be different from the ASN chosen for the PoP
A /28 subnetwork	A private subnetwork configured in your vRack in the selected AZ. This can be an IPv4 block of size /28 or higher



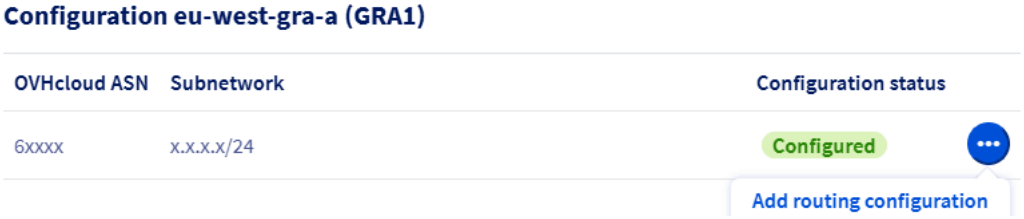
You can add additional availability zone configurations by clicking on the **+ Add a configuration** button.



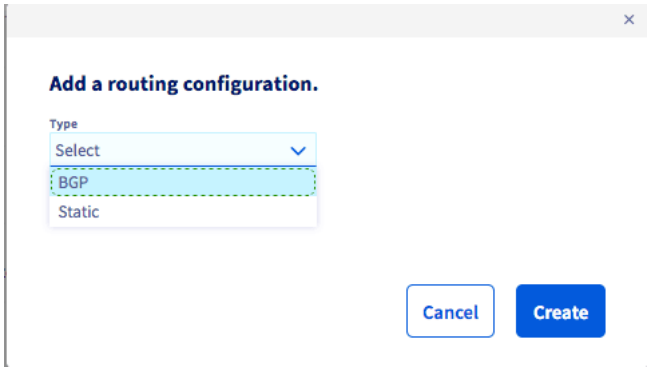
You must also add a routing configuration.

Adding a routing configuration

Click on the **...** button on the desired availability zone then on **Add routing configuration** .

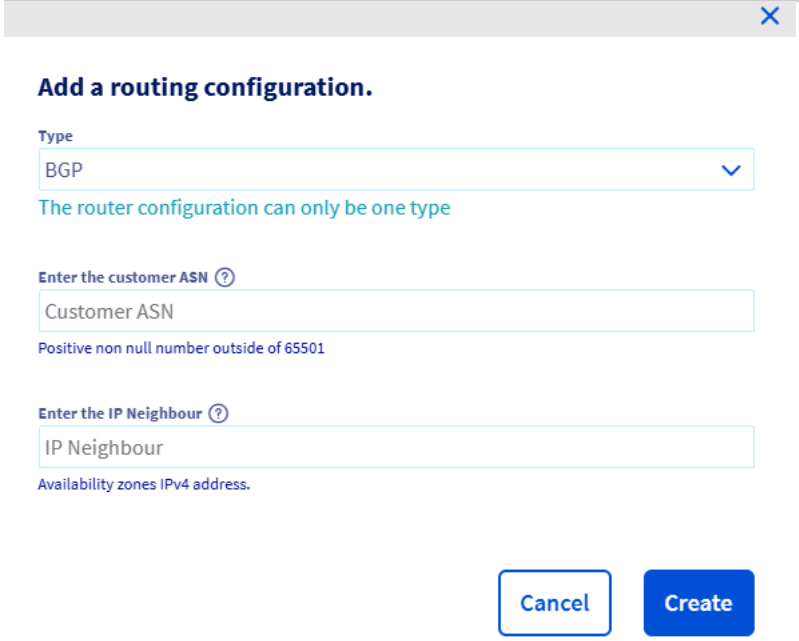


Then choose the routing type between Static and BGP.



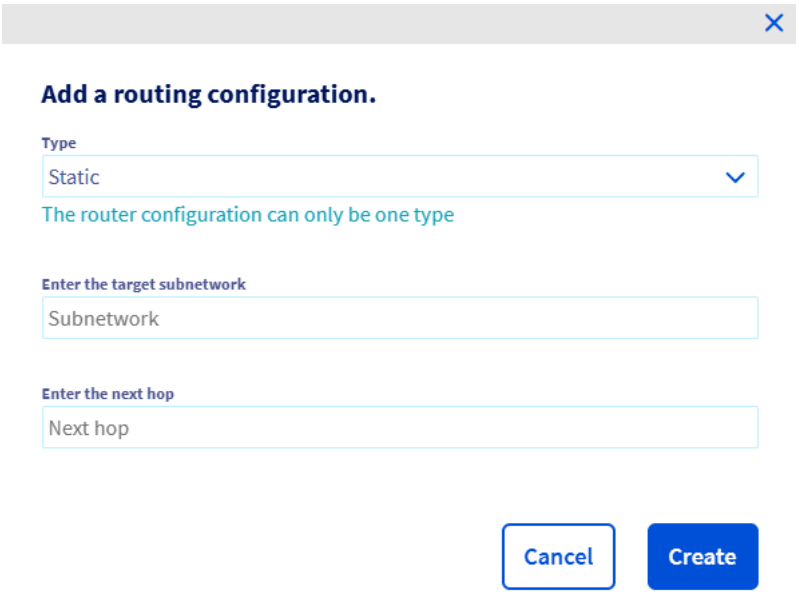
If you choose the BGP type, then enter the required information:

Information	Description
Customer ASN	Your AS BGP number, which is configured on your router located in the AZ
IP Neighbour	IP address of the BGP neighbour of your router in the AZ. This address must be part of the subnet specified in the `AZ Configuration` menu



If you choose the Static type, enter the required information:

Information	Description
Subnetwork	A prefix using CIDR notation
Next hop	IP address acting as gateway in the subnet range



You can add multiple routing configurations within the same availability zone. The configuration type (BGP or Static) chosen for your first configuration will then apply to the next configuration in the same availability zone.

Deletion of vCenter resources

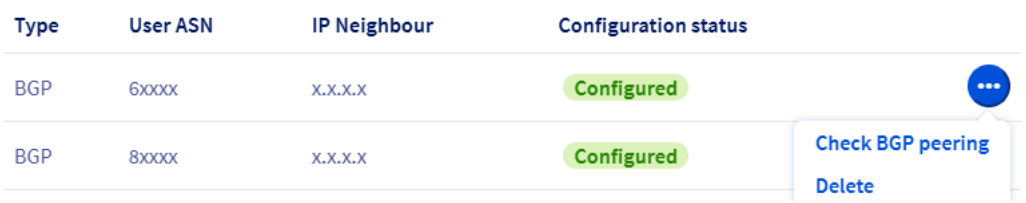
Each resource (PoP or AZ) can be deleted individually, but deleting a parent resource such as AZ or POP will automatically delete all the subresources.

Recursive removal is slower than sequential removal of each resource.

> **Info**
> If a AZ configuration is shared between two or more OVHcloud Connect services, removing the PoP configuration from a single OVHcloud Connect service will not affect the AZ resource.

Deleting a Routing Configuration

To delete a routing configuration, click the `...` button on the routing configuration to delete, then click `Delete`.



Deleting a AZ configuration

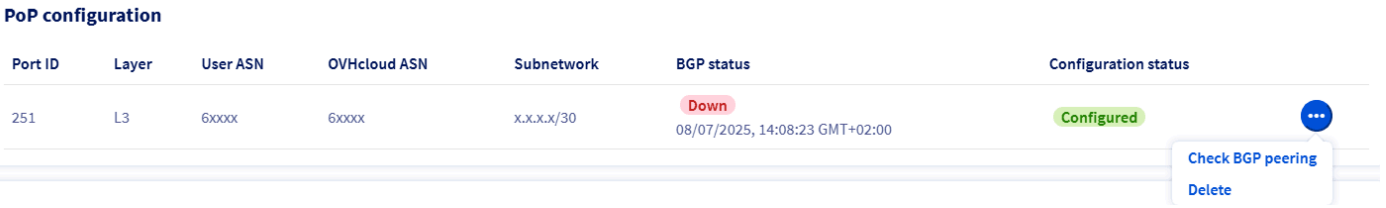
To delete a AZ configuration, click the `...` button on the AZ configuration to delete, then click `Delete`.

Info

Deleting an AZ configuration will delete the related routing configurations.

Deleting a PoP configuration

To delete a PoP configuration, click the `...` button on the PoP configuration, then click **Delete configuration**.



Info

Deleting a PoP configuration will delete the AZ and routing configurations.

Go further

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How to initiate a diagnostic for OVHcloud Connect from the OVHcloud Control Panel

Find out how to get a status report of your OVHcloud Connect services

Objective

With OVHcloud Connect, you can link your company network to your private OVHcloud vRack network, without creating a VPN tunnel through the internet. This will give you a quicker, more stable connection with guaranteed bandwidth.

This guide will show you how to get a status report of your OVHcloud Connect services via the OVHcloud Control Panel.

Requirements

- An OVHcloud Connect solution with a valid POP configuration.
- Access to the OVHcloud Control Panel.

List of available diagnostics

Layer 3 mode

- **Default**: Fetches the BGP session states and all related information.
- **Routes**: Fetches the routing table learned by OVHcloud via BGP.
- **Advertised-Routes**: Fetches the routing table advertised by OVHcloud via BGP.

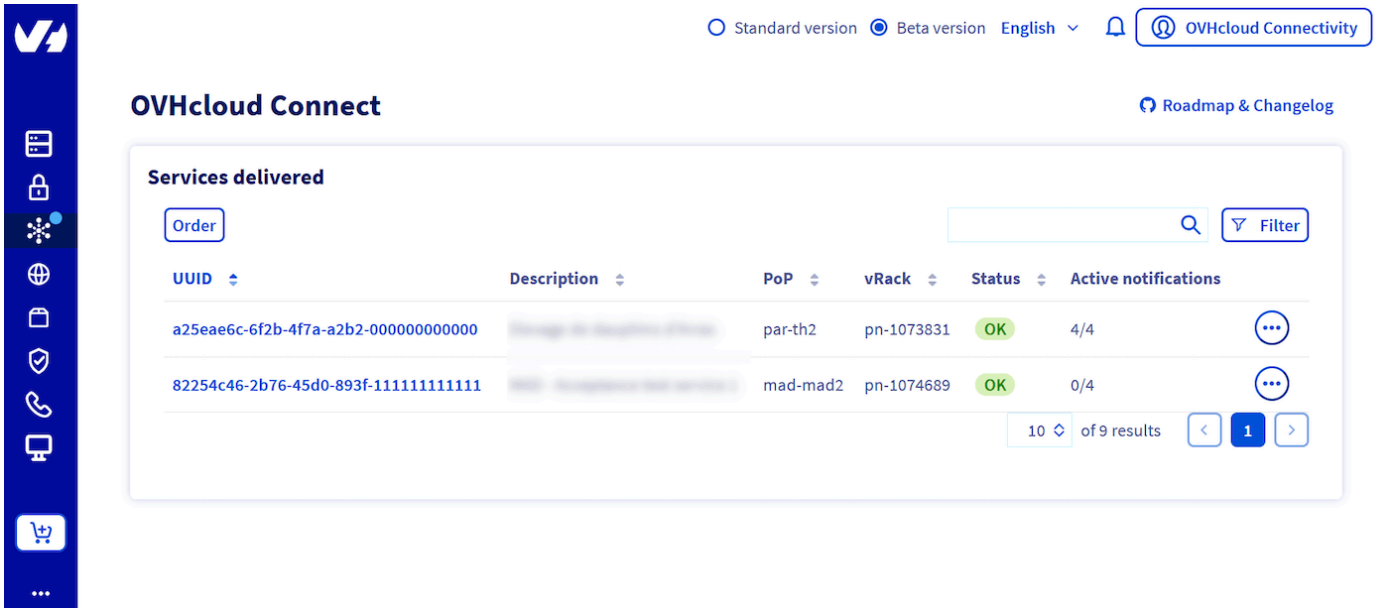
Layer 2 mode

- **MAC Address**: Fetches the list of MAC addresses of network devices and vRack.

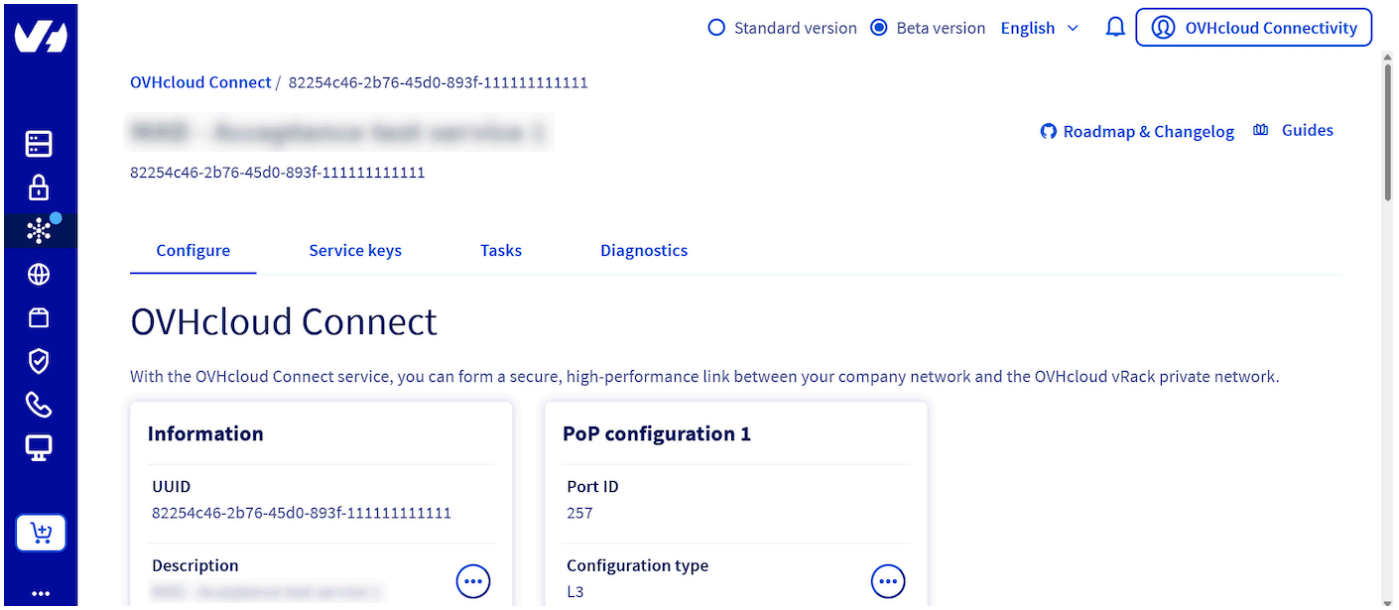
Instructions

Layer 3 mode

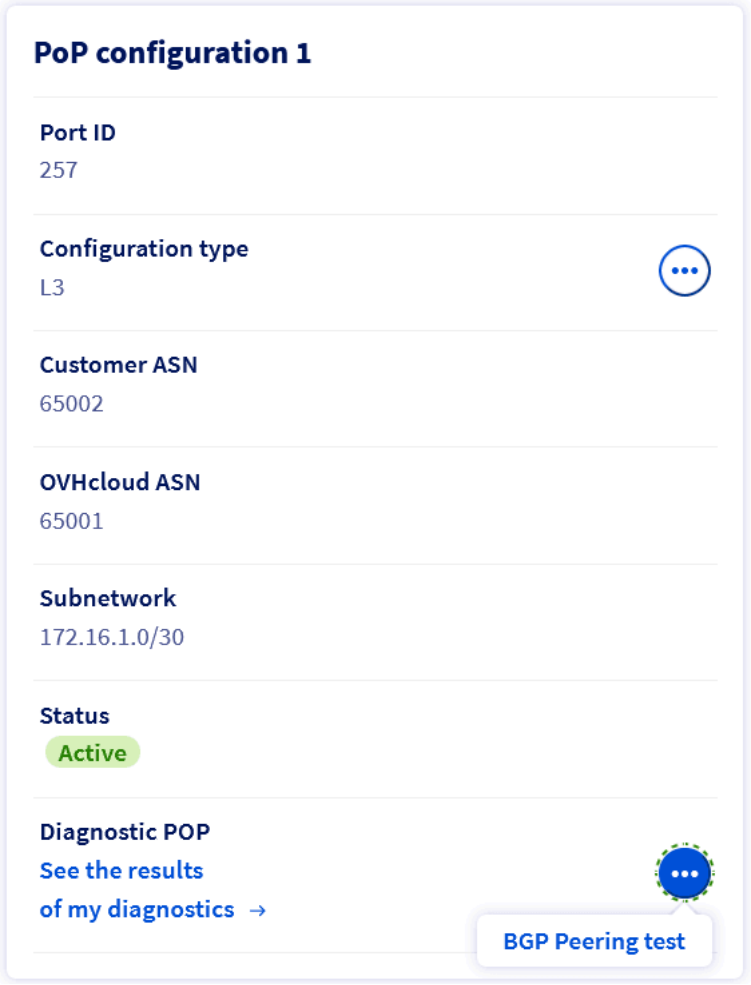
You can find the list of your **OVHcloud Connect** services in the **Network** section of your OVHcloud Control Panel.



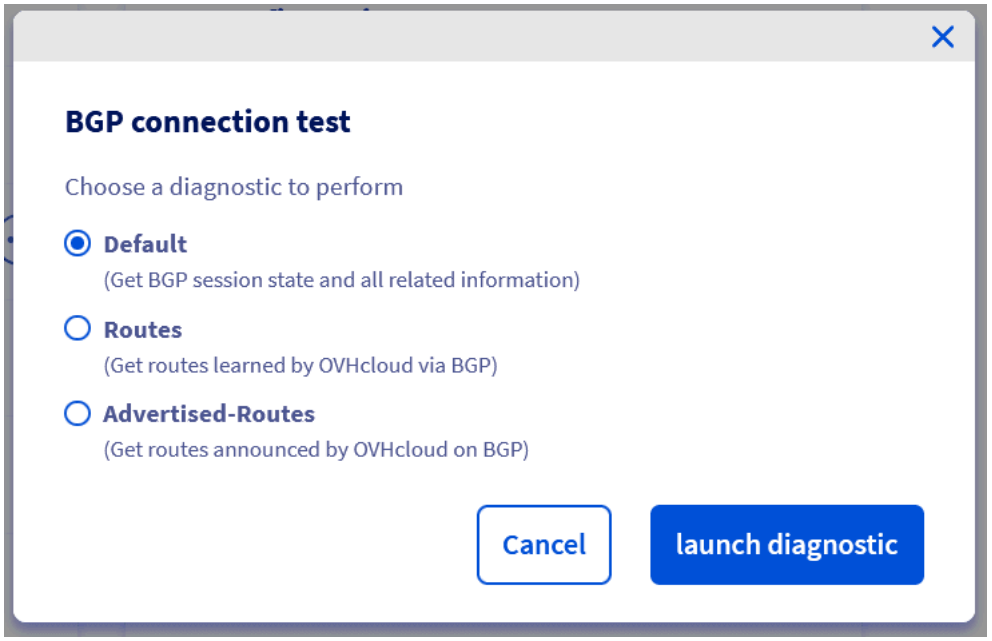
Open the service for which you want to get a diagnosis:



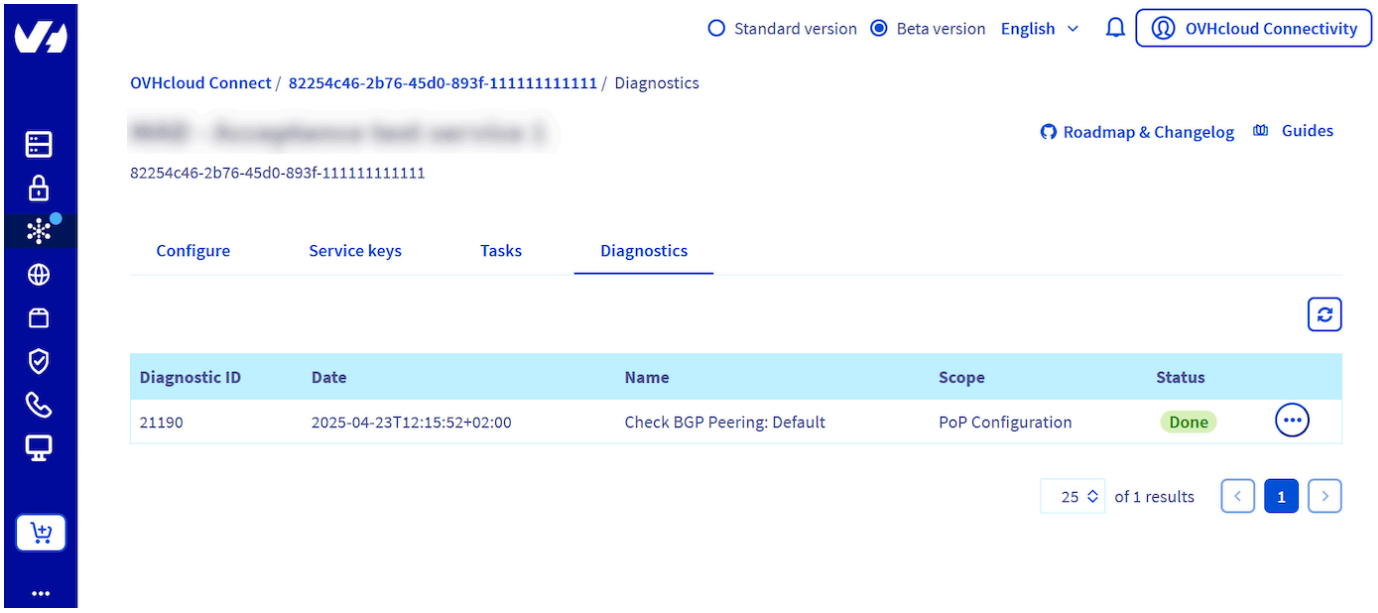
At the bottom of the "POP Configuration" panel, you will find a segment named "Diagnostic POP", and an ellipsis button ... . Click it, and then select "BGP Peering Test":



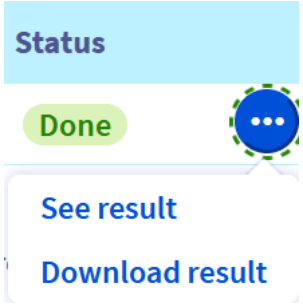
A window will open. Select the type of diagnostics you wish to use, and click "launch diagnostic":



You can now access the list of your diagnostics by opening the "Diagnostics" tab.

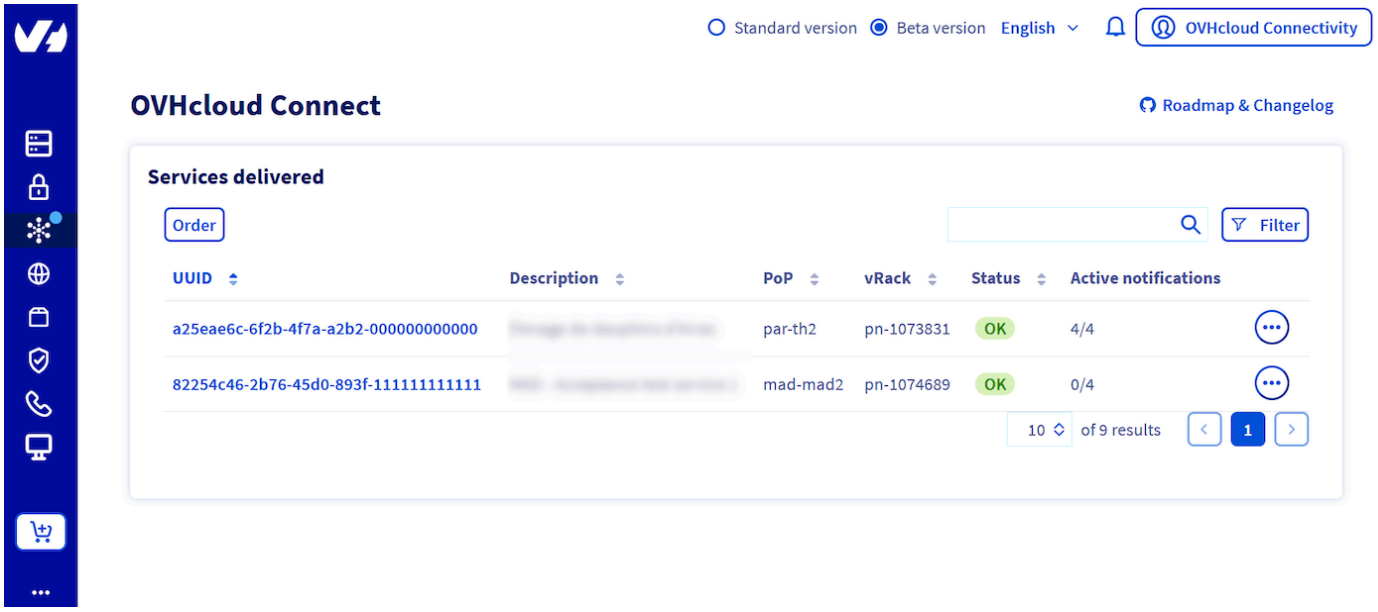


Each diagnostic is referred to using an ID and a timestamp. To access the diagnostics content, click the ellipsis button `...` located to the right of each one listed. You can select either "See result" to have a window open with the content of the desired diagnostic, or "Download result" to get a *.txt* file with the same content.

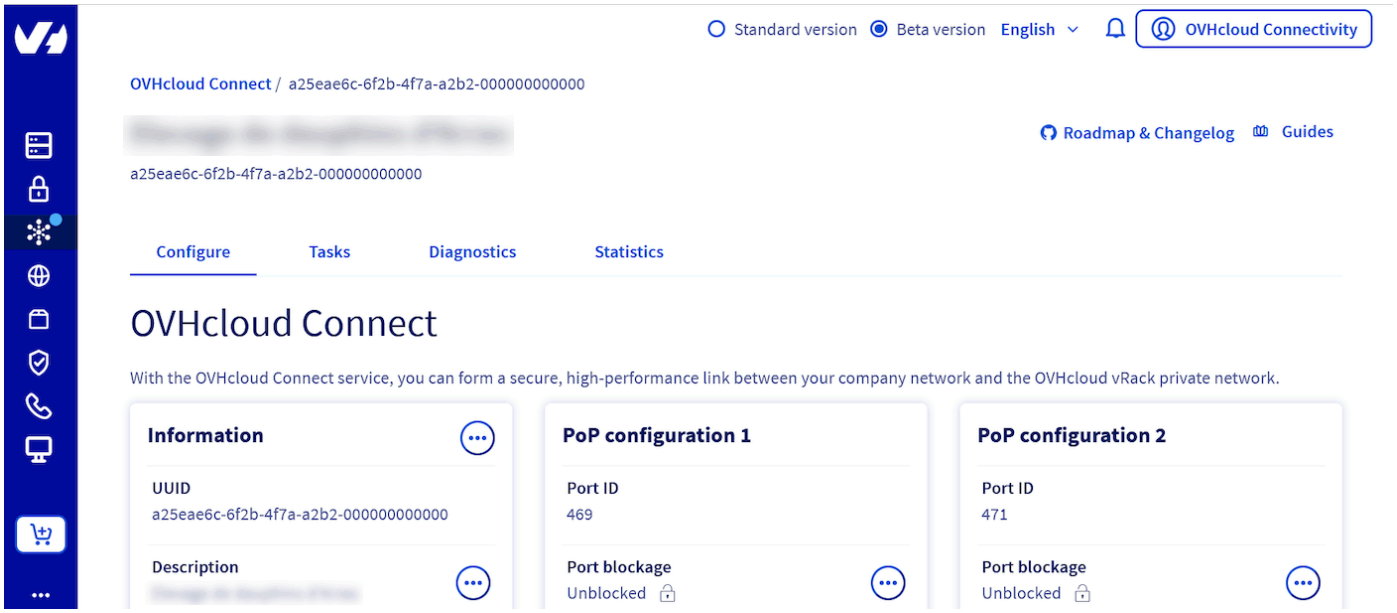


Layer 2 mode

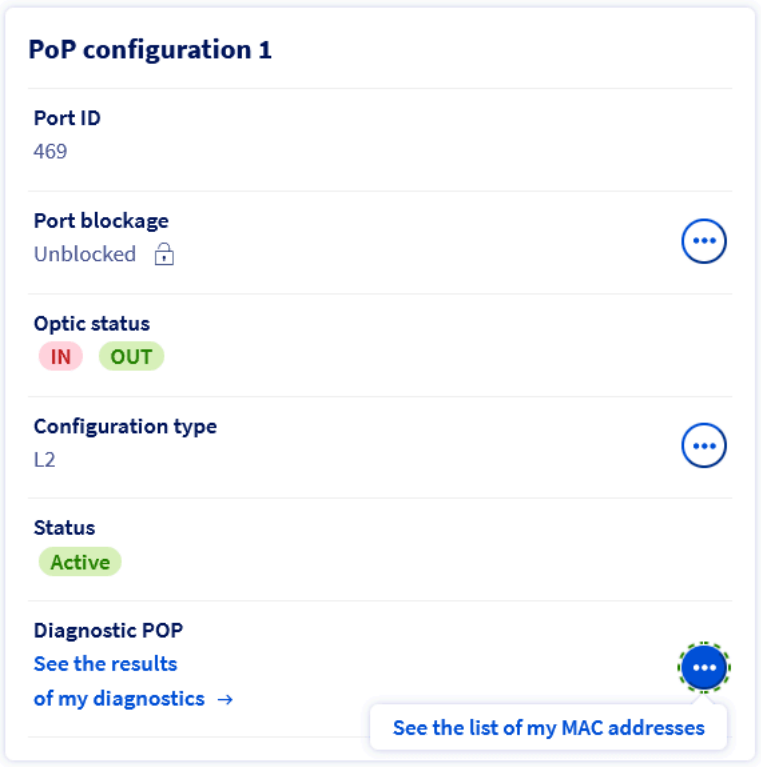
You can find the list of your **OVHcloud Connect** services in the **Network** section of your OVHcloud Control Panel.



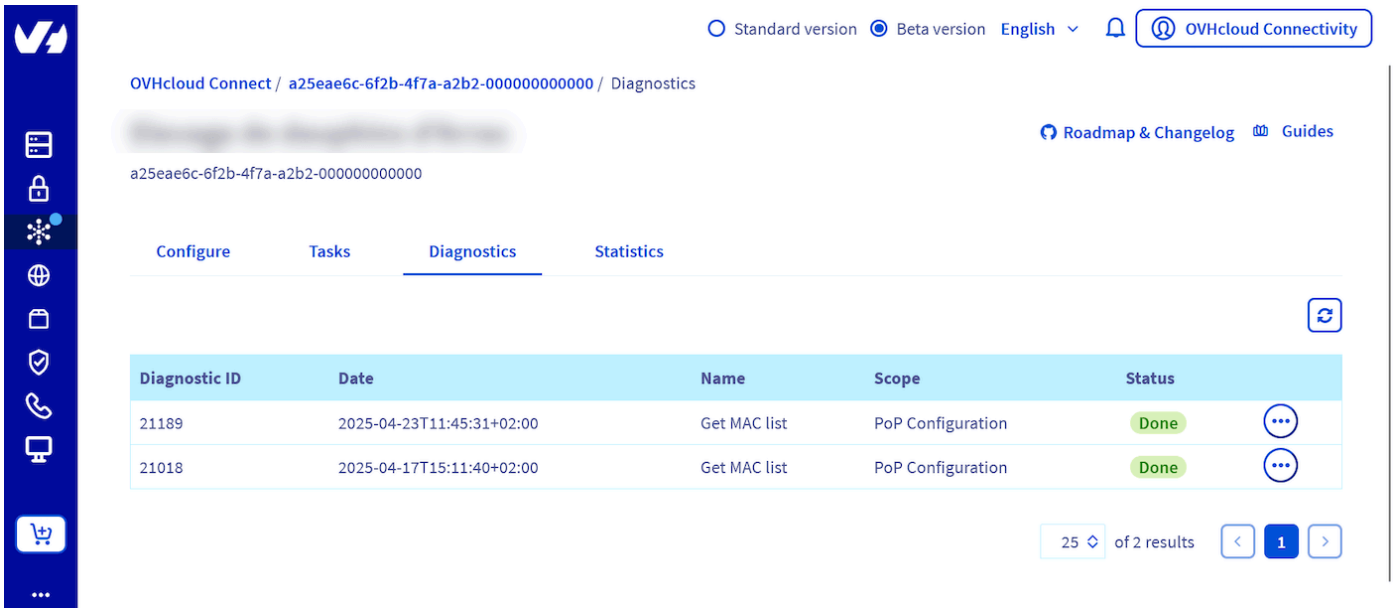
Open the service for which you want to get a diagnosis:



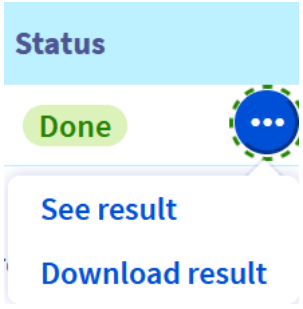
At the bottom of the "POP Configuration" panel, you will find a segment named "Diagnostic POP", and an ellipsis button ... . Click it, and then select "Get the list of my MAC addresses":



You can now access the list of your diagnostics by opening the "Diagnostics" tab.



Each diagnostic is referred to using an ID and a timestamp. To access the diagnostics content, click the ellipsis button `...` located to the right of each one listed. You can select either "See result" to have a window open with the content of the desired diagnostic, or "Download result" to get a *.txt* file with the same content.



Limits

- **Retention time of diagnostics**: Only diagnostics initiated **within the last seven days** are accessible. We recommend you download them and properly archive them, in case you need future access.
- **Maximum number of diagnostics**: On a 24 hour period, you can initiate a maximum of 10 diagnostics per type of diagnostic, and per service. For example, if you have two OVHcloud Connect services configured on your OVHcloud Control Panel, both configured in Layer 3 mode, you can theoretically launch 10 of each diagnostic type per service, for a total of 60.
  This limit has been set in order to restrict the amount of resources used by the OVHcloud infrastructures, as the diagnostics are launched in real-time.

Go further

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OVHcloud Connect Logs Forwarding

Find out how to forward your logs from an OCC service to Logs Data Platform

Objective

The purpose of this guide is to show you how to enable the forwarding of logs from your OVHcloud Connect to Logs Data Platform (LDP), a platform that helps you store, archive, query and visualize your logs. If you would like to find out more about Logs Data Platform before reading this guide, please refer to the Logs Data Platform introduction guide.

Glossary

- **Logs Data Platform:** a fully managed and secured log management platform by OVHcloud. For more information, consult the Logs Data Platform service page.
- **Data Stream:** a logical partition of logs which you create in an LDP account and which you will use when ingesting, viewing or querying your logs. Multiple sources can be stored in the same data stream, and it is the unit that can be used to define a log pipeline (retention policy, archiving, live streaming, etc.), access rights and alert policies.
- **Logs forwarding:** a feature integrated into an OVHcloud product to ingest the logs of its services into a *Data Stream* of an LDP account in the same OVHcloud account. This feature must be activated by the customer and per service.
- **Logs forwarding Subscription:** when enabling the logs forwarding for a given OVHcloud service to a given LDP *Data Stream*, a *Subscription* is created and attached to the *Data Stream* for further management by the customer.

Requirements

- A Logs Data Platform (LDP) account with at least one active *Stream* configured. This guide will walk you through all the necessary steps: Quick start for Logs Data Platform.
  - If you are not familiar with all the LDP *Stream* configuration possibilities, simply create a new one with the default options (indexing & websocket enabled, long-term storage disabled) for the purpose of this guide.
- An up-and-running OVHcloud Connect service.
- Both the LDP account and the OVHcloud Connect account must belong to the same OVHcloud account.

Concepts & limits

What are the logs of an OVHcloud Connect?

Log kinds

There are four different kinds of logs which can be forwarded:

- **service** : Events related to the service's lifecycle (suspended, delivered, etc).
- **service_configuration** : Events related to the service configuration, including adding or deleting DC/POP configurations.
- **bgp** : Status of the BGP session.
- **interface** : Events related to the optic fiber interface, including incoming and outgoing light.

Log contents

Field name	Description	Type
kind	The kind of log forwarded	String
message	An explicit description of the logged event	String
neighbor	The remote address in the subnet established between the OVHcloud Connect service and the PoP	IP
service_uuid	The UUID of the OVHcloud Connect service concerned by the event	String
timestamp	The timestamp at which the event was logged	datetime (with millisecond resolution) e.g. 25/Mar/2024:14:07:19.536

Instructions

Note that the forwarding activation is free of charge, but you will be charged for the usage of the Logs Data Platform service as per the standard price plan. For LDP pricing, refer to this page.

Enabling OVHcloud Connect Log Forwarding using APIs

You will have to define the targeted *Stream* of one of your LDP accounts to which you want your logs forwarded. The enablement of the forwarding will create a subscription for this stream id.

You can retrieve the API specifications in the OVHcloud API Portal:

EU

POST/dbaas/logs/{serviceName}/output/graylog/stream

Step 1 - Retrieve your target Stream (and ID)

List data streams of your Logs Data Platform account (enter your LDP ID in the form ldp-xx-xxxx into the field "serviceName"):

🇪🇺EU▾
GET/dbaas/logs/{serviceName}/output/graylog/stream

Get the details of a data stream:

🇪🇺EU▾
GET/dbaas/logs/{serviceName}/output/graylog/stream/{streamId}

Step 2 - Create your subscription

Use the following API call to create a subscription:

🇪🇺EU▾
POST/ovhCloudConnect/{serviceName}/log/subscription

> **Info**
>
> You will need to replace:
>
> - **serviceName**: this is the internal name of your OVHcloud Connect service, you can find it in the OVHcloud Connect management page in the OVHcloud Control Panel or using the following API call:
>
> 🇪🇺EU▾
> GET/ovhCloudConnect

The POST request has a payload that requires:

- `kind` : the kind of log you want to forward, among "service", "service_configuration", "bgp" and "interface".
- `streamId` : the target data stream of your LDP account where you want your OVHcloud Connect logs to be forwarded to.

> **Info**
>
> You can find the available kinds using the following API call:
>
> 🇪🇺EU▾
> GET/ovhCloudConnect/{serviceName}/log/kind

```
POST /ovhCloudConnect/{serviceName}/log/subscription
{
  "kind": "string", // "service", "service_configuration", "bgp" or "interface"
  "streamId": "198ef9d5-c320-4000-8bee-236623da5b80" // The streamID of the targeted Stream.
}
```

You will get in response an `operationId`:

```
{
  "operationId": "f550aa1c-89ab-4b1a-81ae-4fba4959966f",
  "serviceName": "occ-xxxxx"
}
```

You can use the `operationId` to retrieve the `subscriptionId` for further management purposes using the following API call:

🇪🇺EU▾
GET/dbaas/logs/{serviceName}/operation/{operationId}

Alternatively, once the operation is finished, the subscriptions can be retrieved using the following API call:

🇪🇺EU▾
GET/ovhCloudConnect/{serviceName}/log/subscription

Once you have the `subscriptionId`, you can get the details using the following API call:

🇪🇺EU▾
GET/ovhCloudConnect/{serviceName}/log/subscription/{subscriptionId}

```
GET /ovhCloudConnect/{serviceName}/log/subscription/{subscriptionId}

{
"createdAt": "2025-08-28T07:42:50.645Z",
"kind": "string",
"resource": {
  "name": "string",
  "type": "string"
},
"serviceName": "string",
"streamId": "string",
"subscriptionId": "198efa11-f150-4000-8e8d-871b1e482b80",
"updatedAt": "2025-08-28T07:42:50.645Z"
}
```

How to use OVHcloud Connect logs?

Now that your logs are ingested and stored in your Logs Data Platform data stream, you can query your logs and build dashboards to have a graphical representation of your logs using the web-based UI of Graylog.

- In the OVHcloud Control Panel, retrieve the LDP username (ex: logs-xxxx) and its password in your Logs Data Platform account home page. You can refer to the Quick start guide for Logs Data Platform.
- Open the Graylog web-ui. You can retrieve the link in your account home page or using your Access point depending on your account region (for example: Gravelines region is https://gra1.logs.ovh.com/).
- Log into Graylog using your Logs Data Platform Username and Password.
- Search through your logs across the data stream of your Logs Data Platform account. You can refer to Graylog writing search queriesdocumentation for details on search syntax.

Refer to the following documentation: Logs Data Platform - Visualizing, querying and exploiting your logs for more details about how to use your logs with Logs Data Platform, including how to:

- setup alerts
- view the logs in real time through a WebSocket
- build visualization with OpenSearch Dashboards
- integrate with OpenSearch API
- connect with Grafana

How to manage your subscriptions?

At any time, you can retrieve the subscriptions attached to your Logs Data Platform data stream and choose to disable the forwarding by cancelling your subscription on your stream, so that your Logs Data Platform stream no longer receives your audit logs.

Note that this does not delete the logs stored before the subscription was cancelled, as the data stored in a log stream is immutable unless you delete the entire stream.

To delete your subscription you can use the following API call:

EU▾
DELETE/ovhCloudConnect/{serviceName}/log/subscription/{subscriptionId}

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FAQ OVHcloud Connect

OVHcloud Connect FAQ

What is the OVHcloud Connect solution designed for?

With OVHcloud Connect, you can link your company network to your private OVHcloud vRack network, without creating a VPN tunnel through the internet. This will give you a quicker, more stable connection with guaranteed bandwidth.

Which products are compatible with OVHcloud Connect?

OVHcloud Connect is an extension of your OVHcloud vRack private network, so all products with the vRack feature enabled will be compatible.

How do I choose between a Layer 2 or Layer 3 cross-connection for the OSI model?

You will need to keep in mind the features associated with Layer 2 and Layer 3 networks as you build your infrastructure, in order to select the best cross-connection for your hybrid cloud requirements.

Layer 2 OSI

The OVHcloud Connect solution dedicated to Layer 2 means that the connection is transparent to the Ethernet protocol.

The advantage of a Layer 2 connection is that it simplifies the way you connect your data centre's campus network to your OVHcloud vRack private network.

You will need basic knowledge of how to use LAN networks.

Redundancy can be local within the same point of presence (PoP), using LACP 802.3ad protocol.

The virtual local area networks (VLANs) are the same in your data centre and within OVHcloud data centres.

Layer 3 OSI

The OVHcloud Connect solution dedicated to Layer 3 is a connection managed by routers.

The advantage of a Layer 3 cross-connection is that you can connect your company's WAN network to your OVHcloud vRack private network, so that it is considered as a site within your WAN network.

You will need an advanced understanding of MAN and WAN networks, as well as knowledge of how to manage inter-network routing.

Layer 3 networks require one or more private external BGP sessions to be established between the company and OVHcloud.

Redundancy can be local within the same PoP, and geographical between two PoPs using BGP redundancy mechanisms.

The VLANs are **not** the same in your data centre and within OVHcloud data centres.

Can OVHcloud host my routers?

OVHcloud does not host network hardware for customers in data centres and PoPs. Customers need to have their hardware hosted by an operator or by a third party, then request a connection to OVHcloud hardware in the MMR (meet-me room) of the PoP. Instructions on how to do this are provided in the Letter of Authorisation (LOA).

What connections are supported for OVHcloud Connect?

We support single-mode fibre optic. Your SFP/SFP+ must support either 1000LX/LH or 10G-LR.

When will my OVHcloud Connect service be delivered and available for configuration?

An OVHcloud Connect service has to be delivered first before it can be configured.

OVHcloud Connect Provider solutions will be delivered as soon as the *service key* is sent to the customer by email. This happens a few minutes after subscribing to the corresponding service.

OVHcloud Connect Direct solutions are considered delivered in the following cases:

- The light indicating the connection to the customer's equipment is visible on OVHcloud's side.
- 60 days have passed since the subscription.
- The customer has explicitly arranged a manual delivery with their OVHcloud agent.

After having subscribed, the customer will receive a Letter of Authorization (LOA) from OVHcloud to allow the customer to perform the cross-connection with OVHcloud's infrastructure. This cross-connection will then trigger the delivery based on the above mentioned cases.

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Configuration

Configuration of OVHcloud Connect using OVHcloud APIv6

Find out how to set up OVHcloud Connect using OVHcloud APIv6

Objective

Configuring the OVHcloud Connect solution can be done via API.

Find out how to set up OVHcloud Connect using OVHcloud APIv6.

Requirements

> **Warning**
> To ensure correct operation of this service, you must be aware of the technical capabilities and limitations of the OVHcloud Connect solution and configure your network devices accordingly.

- an OVHcloud Connect service
- access to the `OVHcloud APIv6` (create your credentials by consulting this guide)

Instructions

Step 1: Configuring vRack

As a mandatory first step, the service must be interconnected with a vRack to enable the configuration.

Verify that the service is available with the following call:

🇪🇺EU▾
GET/vrack/{serviceName}/ovhCloudConnect

It will return UUIDs of eligible services. Then you can link OVHcloud Connect with the vRack:

🇪🇺EU▾
POST/vrack/{serviceName}/ovhCloudConnect

Enter the vRack name as well as the UUID of OVHcloud Connect.

Step 2: Configuring the PoP

This step is important because you have to choose between L2 and L3.

> **Warning**
> Please be aware of the ramifications of this decision. To switch between L2 and L3 later, you will have to delete the whole configuration.

Obtaining the interface ID

Your service is attached to an interface with an ID. Use this call to obtain the ID:

🇪🇺EU▾
GET/ovhCloudConnect/{serviceName}/interface

It will return the ID of the interface dedicated to your service.

The following call provides more service details:

🇪🇺EU▾
GET/ovhCloudConnect/{serviceName}/interface/{id}

The LightStatus parameter is refreshed every 5 minutes for monitoring purposes.

Configuration with Layer 2 (L2)

This is the simplest configuration. Use this call:

🇪🇺EU▾
POST/ovhCloudConnect/{serviceName}/config/pop

- interface ID: enter the ID previously obtained.
- type: select L2.

Configuration with Layer 3 (L3)

This configuration is more complex because of the required BGP settings:

EU
POST/ovhCloudConnect/{serviceName}/config/pop

- interface ID: enter the ID previously obtained.
- type: select L3.
- customerBgpArea: your BGP ASN, configured on your device which will be used for peering.
- ovhBgpArea: BGP ASN to be configured on the OVHcloud routing instance, pertaining to BGP session and AS path.
- subnet: a /30 IPv4 block.

Step 3: Data centre (DC) configuration

> **Info**
> If an OVHcloud Connect service is already configured in the vRack, the second service will inherit the data centre configuration.

Obtaining available data centres

You can list available data centres for configuration using the following calls:

EU
GET/ovhCloudConnect/{serviceName}/datacenter
EU
GET/ovhCloudConnect/{serviceName}/datacenter/{id}

Configuration with Layer 2 (L2)

Only the ID of the data centre is needed for the L2 configuration:

EU
POST/ovhCloudConnect/{serviceName}/config/pop/{popId}/datacenter

- datacenterId: enter the DC ID previously obtained.

Configuration with Layer 3 (L3)

More parameters have to be provided for the L3 configuration:

EU
POST/ovhCloudConnect/{serviceName}/config/pop/{popId}/datacenter

- datacenterId: enter the DC ID previously obtained.
- ovhBgpArea: as with the PoP, you need to assign an ASN for the OVHcloud routing instance. It will appear in AS path. (It can be different from the PoP ASN.)
- subnet: an IPv4 block, any size is accepted from /28.

By default, the data centre will be configured with a VRRP instance. You have to proceed with the next steps for static routing or dynamic routing using BGP.

Layer 3 option: static route

A static route is needed when you have one or more subnets behind a gateway. This may be Linux gateway (with IP forwarding enabled), a NSX edge or any instance capable of routing.

EU
POST/ovhCloudConnect/{serviceName}/config/pop/{popId}/datacenter/{datacenterId}/extra

- nextHop: IP address in the subnet range acting as gateway.
- subnet: a prefix using the CIDR notation.
- type: 'network'

Layer 3 option: BGP session

A BGP session enables dynamic routing from your routing instance with OVHcloud Connect. Announcements are dynamically managed using the BGP protocol. Enabling a BGP session disables the VRRP configuration. You cannot have a BGP session and a static route in the same DC configuration.

EU
POST/ovhCloudConnect/{serviceName}/config/pop/{popId}/datacenter/{datacenterId}/extra

- bgpNeighborArea: your BGP ASN.
- bgpNeighborIp: your IP address in the subnet range.
- type: 'bgp'

Removing resources

Each resource can be deleted individually, but deleting a parent resource like DC or PoP will automatically delete all sub-resources. However, recursive deletion is slower than a sequential deletion of each resource.

Global deletion

The following call recursively deletes the entire configuration of an OVHcloud Connect service:

EU
DELETE/ovhCloudConnect/{serviceName}/config/pop/{popId}

Each sub-resource's status will change from 'active' to 'toDelete' but it takes some time to see the status change.

Only one task ID is created.

Deleting by resource

Each resource can be deleted individually using the following call that will delete the smallest resource (extra):

EU
DELETE/ovhCloudConnect/{serviceName}/config/pop/{popId}/datacenter/{datacenterId}/extra/{extraId}

The following call removes the DC configuration and recursively deletes any additional sub-resources:

EU
DELETE/ovhCloudConnect/{serviceName}/config/pop/{popId}/datacenter/{datacenterId}

When all sub-resources have been deleted, the PoP configuration can be safely removed:

EU
DELETE/ovhCloudConnect/{serviceName}/config/pop/{popId}

> **Info**
> If a DC configuration is shared between two or more OVHcloud Connect services, deleting the PoP configuration of only one will not affect the DC ressource.

Go further

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Troubleshooting

Troubleshooting common errors setting up OVHcloud Connect

Find out how to resolve the most common errors associated with setting up OVHcloud Connect

Objective

Find out how to resolve the most common errors associated with setting up OVHcloud Connect

Requirements

- an OVHcloud Connect solution

Instructions

An OVHcloud Connect service will appear in your OVHcloud Control Panel, and can only be configured when it is considered **delivered**.

For the **OVHcloud Connect Direct** offer, the service is **delivered** in the following situations:

- When OVHcloud detects light at the position indicated in the LOA. This detection suggests that the cross-connect was performed by the client.
- 60 days after the order if no light has been detected.

LOA verification

A misinterpretation of the position on the Cross-Connect by the PoP can result in a lack of light on the OVHcloud Connect link. For example, the PoP may indicate that there is no interconnection at the position mentioned on the LOA.

How to read LOA information?

Here is an example of information on the LOA:

```
Equipment: 103 PA3:OG:00GMC3:OVH Patch Panel: PP:0103:1132697
Port: P16/FO31-32/BCK Fiber Termination: SC/PC
```

This information is interpreted as follows:

- Cabinet (position of the bay where the RACK is located): **103**
- Cage (RACK): **PA3:OG:00GMC3:OVH**
- PatchPanel Z-side (switch position): **PP:0103:1132697**
- Position (on switch): **16**
- FiberOptic / Port A: **31**
- FiberOptic / Port B: **32**
- Side (front or back): **BACK**
- Fiber Termination: **SC/PC**

OVHcloud Connect Direct (only): checking for light on the link

> **Warning**
> - As a reminder, Cross-Connect is contractually your responsibility.
> - Before contacting the OVHcloud teams, you will need to open a ticket to the PoP concerned by the LOA.

Before service delivery

When you order an OVHcloud Connect link, the IN/OUT optical values can be checked on the OVHcloud side. You can request information about this from your support team.

If the service has not yet been delivered, our support teams will be able to check the status of the IN and OUT optical values on the OVHcloud infrastructure side.

After service delivery

In the OVHcloud Control Panel, check the IN/OUT optical values:

- If the **OUT** value is **DOWN**, , the following reasons may be the cause:
  - the port on the OVHcloud side does not emit light
  - the service is being cancelled
  - the port is locked in your OVHcloud Control Panel
  - there is an SFP issue
- If **IN** is **DOWN**, the following reasons may be the cause:
  - your equipment is not yet connected
  - the port can be disabled or has a defect that prevents it from emitting light
  - there is a Cross-Connect issue

Tx/Rx Fiber inversion

If there is a fiber inversion between Port A and Port B, the light is not received in the right place and the **IN (Rx)** port will display **DOWN**. If your service has not yet been delivered, contact the support teams so that the link status is checked.

Contact the PoP concerned by the LOA to check that there is no Tx/Rx inversion on the Cross-Connect.

Peering verification

The peering should be checked once the light is **UP** on both sides.

If peering cannot be established (DOWN) on one or both sides, there may be several reasons:

- An SFP issue
- Auto-negotiation is not disabled on the customer side
- IP address conflict
- BGP link misconfiguration

SFP Configuration

Optical values **UP** but no Ethernet link (interface **DOWN**) are a symptom of a misconfigured SFP.

The SFP to use on the client device on an OVHcloud Connect link depends on the link you ordered. You must use an SFP that conforms to the ordered bandwidth.

If you have ordered a 1 Gbps link, the SFP will be: 1000Base-LX/LH.

```
speed 1000
```

If you have ordered a 10 Gbps link, the SFP will be: 10GBase-LR.

```
speed 10000
```

For more information, please read the technical capabilities and limitations of the OVHcloud Connect solution

Disabling auto-negotiation

Auto-negotiation is not supported in the OVHcloud Connect solution. This setting must be disabled.

To disable auto-negotiation on a Cisco device, use the following command:

```
no negotiate auto
```

or

```
no speed negotiate
```

On Cisco IOS, use the following command:

```
speed nonegotiate
```

On Cisco NX-OS, use the following command:

```
speed 1000
no negotiate auto
```

PoP/DC configuration

An IP address conflict may occur if you are using an IP address(es) normally reserved for OVHcloud.

The rules for assigning IP addresses according to the subnet are as follows:

- DC-side subnet: /28 (minimum value) - The first three IP addresses are reserved for OVHcloud - Vlan fixed to 0 (untagged).
- PoP-side subnet: /30 (fixed value) - The first IP address is reserved for OVHcloud, the second IP address for the customer.

Configuring the BGP link

The BGP Area on the customer side must be different from the OVHcloud side.

- Range Area = AS BGP
- AS number: We recommend ASNs between 64512 and 65534. The choice is your, with the exception of the following numbers, which are reserved for OVHcloud.
  - 65501 if the PoP is in Europe
  - 65502 if the PoP is in Canada
  - 65519 if the PoP is in Asia
- The OVHcloud BGP AS zone and your BGP AS number (on the PoP side) must be different.
- The OVHcloud BGP AS zone: can be the same between the DC side and the PoP side configuration (recommended)

Go further

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Additional resources

Technical capabilities and limitations

Learn the technical capabilities and limitations of the OVHcloud Connect solution

Objective

This page provides an overview of the technical capabilities and limitations of the OVHcloud Connect solution.

Instructions

Link capabilities

- 1000Base-LX/LH for 1Gb
- 10GBase-LR for 10Gb
- 100GBase-LR4 for 100Gb
- Jumbo frame up to 9000 bytes
- Autonegotiation not supported

Technical limitations

Layer 2 mode

- The number of client-side MAC addresses is limited to 512 per port
- The maximum bandwidth is 10Gb per port

Layer 3 mode

- Each EntryPoint/POP supports only one BGP session (no eBGP Multihop)
- Each EndPoint/DC supports up to 4 BGP peers
- Up to 100 prefixes can be announced per BGP session

Unsupported features

Layer 2 mode

- 802.1p CoS-based
- DCBX and related protocols (802.1Qbb, 802.1Qaz, 802.1Qau)
- TRILL, SPF and FabricPath
- FCoE
- Spannning-tree
- IGMP and Multicast
- EtherChannel, PaGP for aggregation

Layer 3 mode

- IPv6
- Any QoS mechanism
- 802.1q tag
- Multi-VRF
- eBGP Multi-Hop
- iBGP
- Static routing in EntryPoint/PoP

Known issues

Description	Detail	Cause	Workaround	Affected sites
DC routes not propagated to PoP	When using AS65501, routes announced using BGP in vRack are not propagated to PoP	OVHcloud internal configuration	Do not use AS65501	ALL
Light received but port is down	Device fails to change interface status to UP despite optical levels on RX are correct	Autonegotiation is configured	Unconfigure autonegotiation	ALL PoPs

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