consoleconnect

Connect to **AWS**

Purpose

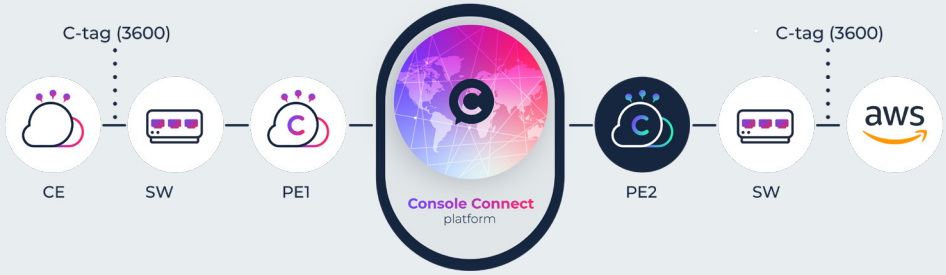
This document describes the prerequisites and procedure needed to create a L2 Connection to AWS through the Console Connect web portal.

Who is it for

- Network Admins
- Network Engineers
- System Admins
- IT Managers

Introduction

The following diagram shows the network architecture that we will create using Console Connect and AWS:



CE: customer edge device

SW: access layer switch on the Console Connect network. The CE has a physical port onto this device. Once AWS Direct Connect is created, one C-tag will be presented on this port that defines the Direct Connect circuit

PE1: provider edge device. This is the entry point into the PCCW Global MPLS network

PE2: provider edge device. This is the entry point into the PCCW Global MPLS network

Amazon Web Services Region: region in which the direct connect isterminated

This document will guide you step-by-step to:

1. Provision L2 Connect on Console Connect: **https://app.consoleconnect.com**

2. Accept the direct connect in the AWS Portal: **https://aws.amazon.com**

3. Create a virtual interface: **https://aws.amazon.com**

4. Configure BGP from your router to the AWS virtual interface

The main focus will be on steps 1 and 2. This document will also provide references to completing steps 3 and 4.

Prerequisites

An Amazon Web Services account. If you do not have one, apply here: **https://aws.amazon.com**

A Console Connect account. If you do not have one, apply here: **https://app.consoleconnect.com**

At least one active Console Connect port

Procedure

Step 1

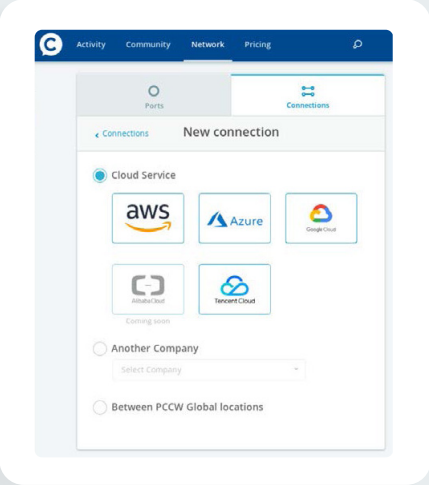
Provision Direct Connect on Console Connect.

Log-on to **https://app.consoleconnect.com/**.

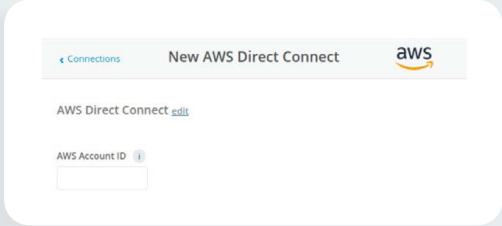
1. Go to the 'Connections' tab by clicking '**Network**' -> '**Connections**'.

2. Click the large '**+**' sign to begin the connection creation flow.

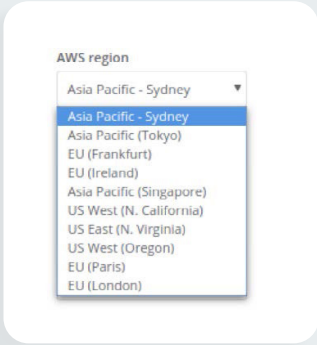
3. Click on '**AWS**' from the '**Cloud Service**' group.



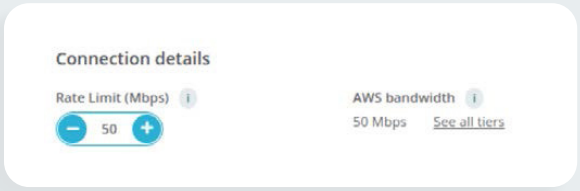
4. Enter the Amazon Web Services Account ID.



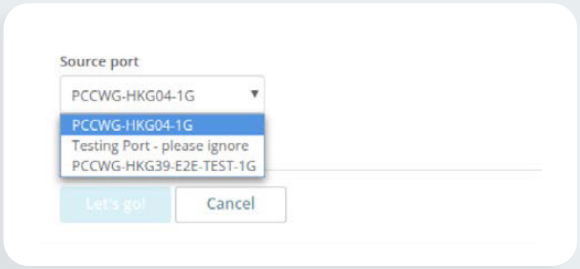
5. Select the desired AWS Region.



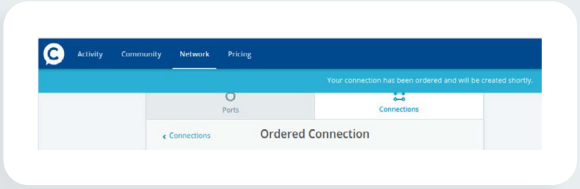
6 Select the desired '**Rate Limit**'.



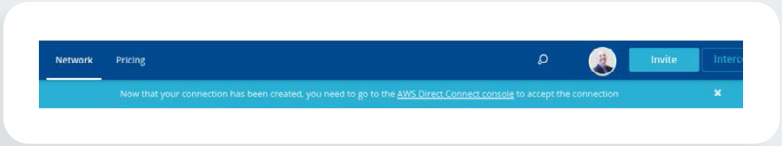
7 Select the desired '**Source port**' and click '**Let's go!**'.



8 Console Connect will start provisioning the Direct Connect circuit from the source port to the selected AWS region. This may take a few minutes. A message at the top of the page will indicate the connection has been ordered and will be created shortly.



9 Once the circuit is created, a message at the top of the page will reflect that the circuit has been created, and to utilise the AWS Direct Connect console in order to accept the connection.

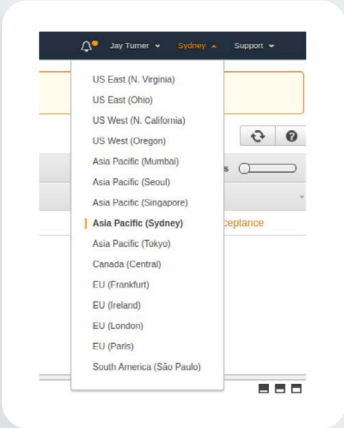


Step 2

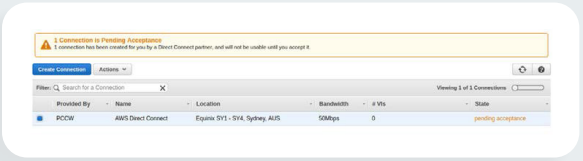
A. Accept the AWS Direct Connect on the AWS Management Console.

Navigate to the **https://console.aws.amazon.com/directconnect/**.

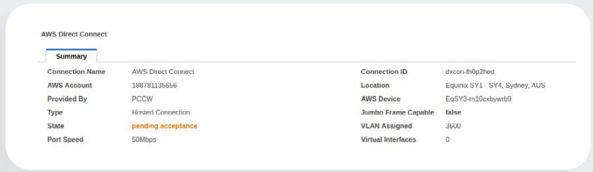
1. Confirm the region selection in the top right of the portal.



2. Click on the checkbox for the Direct Connect to be accepted.



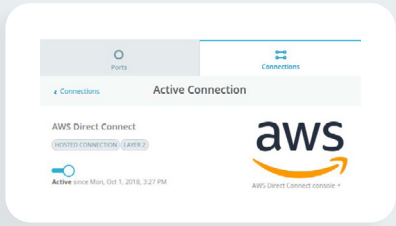
3. This will open a new information page at the bottom of the page showing various piece of information about the Direct Connect request, including the name, AWS Account used for provisioning, provider name (PCCW), port speed, and assigned VLAN.



4. Click the checkbox accepting the terms, then click 'Accept Connection' to complete the provisioning process.

B. View Active Direct Connect on Console Connect.

5. After a few minutes, the connection will update in Console Connect to 'Active' status.



At the completion of step 2, the Direct Connect is complete from the source port to the AWS region. To complete L3 configuration follow these steps.

Step 3

Create a virtual interface associated with the Direct Connect circuit just provisioned on the AWS Management Console.

See https://docs.aws.amazon.com/directconnect/latest/UserGuide/WorkingWithVirtualInterfaces.html.

Configure BGP from your router to the AWS

Step 4

Direct Connect virtual interface created in step 3.

See https://docs.aws.amazon.com/directconnect/latest/UserGuide/add-peer-to-vif.html.

FAQ

How does Console Connect integrate with AWS Direct Connect?
Console Connect utilises Application Programming Interfaces (APIs) with AWS Direct Connect, in order to provision the L2 connection to AWS.

Does the bandwidth (rate limit) of the L2 Connections need to match the AWS Direct Connect tier?
No, they may differ. The Console Connect platform gives you the option to use the same bandwidth as the AWS Direct Connect or lower.

If I select a rate limit of 10Mbps to AWS Direct Connect, how is it provisioned?
If 10Mbps was input as the rate limit then Console Connect will provision a 10Mbps L2 circuit from the source port.

What charges can I expect?
In addition to the Console Connect charges for the L2 Connection, you will also be charged by Amazon Web Services for the AWS Direct Connect. Please refer to **https://aws.amazon.com/directconnect/pricing/** for details.

References

1. **AWS Direct Connect overview**: https://aws.amazon.com/directconnect/

2. **AWS Direct Connect provisioning states**: https://aws.amazon.com/premiumsupport/knowledge-center/provision-direct-connection/

3. **Create or modify peering for an AWS Direct Connect circuit**: https://docs.aws.amazon.com/directconnect/latest/UserGuide/add-peer-to-vif.html

4. **Link a virtual network to an AWS Direct Connect circuit**: https://docs.aws.amazon.com/directconnect/latest/UserGuide/WorkingWithVirtualInterfaces.html

5. **Troubleshooting**: https://docs.aws.amazon.com/directconnect/latest/UserGuide/Troubleshooting.html

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Have other questions we didn't cover?

Join our community of experts.

www.consoleconnect.com
Talk to us: sales@consoleconnect.com