Cloudflare + Console Connect: Reducing latency and reliance on the public Internet

A more private and secure connectivity experience from Console Connect and Cloudflare

Challenge

Enterprises increasingly need to store more regulated and sensitive data at the network edge. This trends is increasing the urgency of connecting edge networks to data centers both privately and securely — but available options (physical cable management) can still generate significant overhead and data center dependencies.

Exposing network traffic and virtual links to the public Internet introduces additional risks and congestion. It can also lead to difficult-to-forecast bandwidth costs, since the major cloud providers typically have different pricing for egressing data to the Internet compared to an Interconnection platform.

Solution

As one of the world's premier interconnection platforms, Console Connect by PCCW has partnered with Cloudflare to allow interconnections privately at Layer 2, without requiring any additional physical cabling.

Cloudflare's extensive peering infrastructure and private links to thousands of other networks make this a convenient method to establish private connectivity, since many large customers are already connected to these fabrics for their connections to traditional cloud providers.

Customers simply order a port and virtual connection through the Console Connect portal, and the Console Connect platform establishes the connection to all Cloudflare's services while maintaining connectivity to customers' traditional cloud provider. All Layer 2 virtual connections are delivered across PCCW Global's MPLS network, delivering higher levels of network performance, speed, and security, as well as lower latency.

Combining Cloudflare One — the Enterprise network-as-a-service offering from Cloudflare — with Console Connect's SDN capabilities and high-performance global network, customers receive a more secure, lower cost connection between your network and Cloudflare's network.

Availability

Our network interconnection partnership is powered by Cloudflare's global network of 270+ cities in over 100 countries and a network capacity of 142 Tbps.

This offering is currently live in 14 markets worldwide in the following locations:

Americas — Ashburn, Chicago, Dallas, New York, San Jose, Seattle, and Toronto
Europe — Frankfurt, London, and Milan
Asia — Singapore, Tokyo, and Sydney
Africa — Johannesburg

For additional locations, please contact your Console Connect or Cloudflare Account Manager.

Benefits

Variable speeds: With Console Connect, select speeds from 1Mbps to 10,000Mbps in over 500 data centers.

Reliable and Consistent: Dedicated, high capacity link ensures the performance is reliable and consistent when compared to the public Internet.

Private and Secure: The highest level of protection with private, secure layer 2 links into the Cloudflare network.

Software Defined: On-demand provisioning with user controlled scalability. Flex bandwidth on-demand to meet business needs, avoiding idle capacity and wasted costs.

Network Interconnection Partnership

Cloudflare Magic Transit, our network-layer DDoS protection solution, provides a faster, safer, and more reliable way to reach your IP destinations over the Internet. The diagram below illustrates the process: Cloudflare announces IP subnets of the customer to the Internet via BGP, and then receives all the traffic destined for that network.

The traffic is then scrubbed using DDoS protection rules, and only the clean traffic is delivered to the customer's origins via Cloudflare Network Interconnect (CNI), and the customer receives that clean traffic through Console Connect provisioning and connectivity. There are a number of key benefits to this partnership:

- Cloudflare is accessible from every Console Connect location
- DDoS mitigation from every Cloudflare data center
- Every server in every data center runs the full stack of services including DDoS mitigation, CDN, WAF, etc.
- Cloudflare network capacity = DDoS mitigation capacity = **142 Tbps**
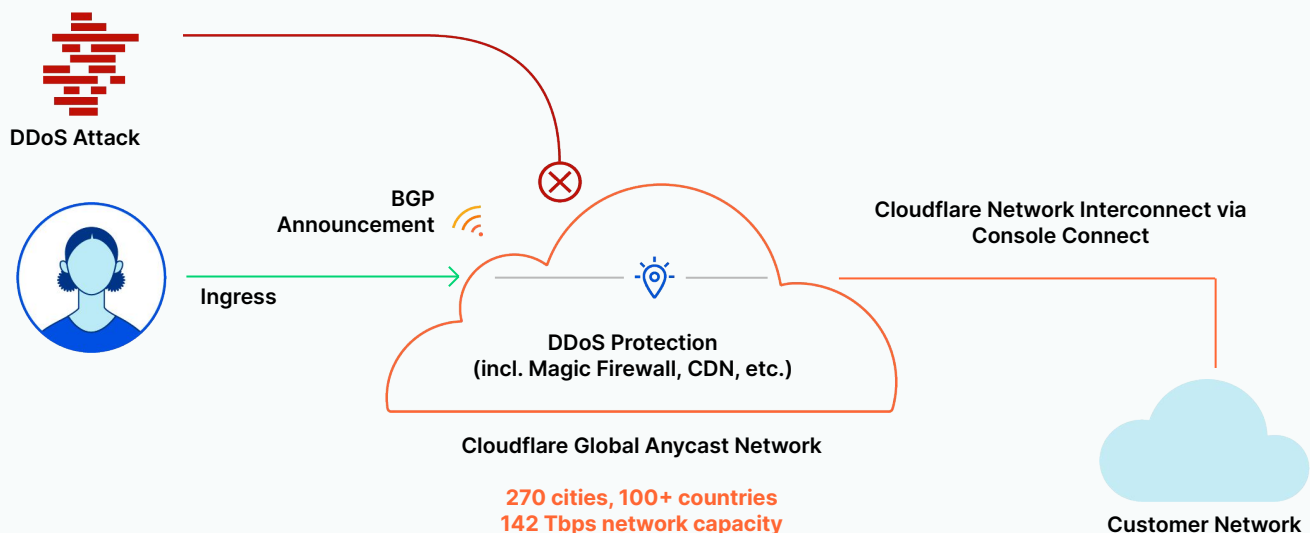
About Console Connect

Console Connect by PCCW Global is the world's first global software-defined interconnection platform, born out of the belief that business connectivity should be simpler and more accessible for all. Console Connect enables users to efficiently manage their private connections via a user-friendly interface, regardless of their level of technical expertise. Backed by PCCW Global, one of the world's leading telecommunications groups with a tier 1 global IP network, Console Connect is completely scalable and offers maximum resilience and reliability, leaving you confident and secure in your cloud connections.

About Cloudflare

Cloudflare, Inc. is on a mission to help build a better Internet. Cloudflare's platform protects and accelerates any Internet application online without adding hardware, installing software, or changing a line of code. Internet properties powered by Cloudflare have all web traffic routed through its intelligent global network, which gets smarter with every request. As a result, they see significant improvement in performance and a decrease in spam and other attacks.