Is Your Cloud China-Ready?

Across the globe, companies are increasing the pace of innovation and driving digital transformation by implementing a cloud-first transformation strategy.

In fact, spending on cloud-based infrastructure across all enterprises is expected to grow exponentially year-on-year (YoY)*. Cloud computing, especially with public cloud services, helps companies boost productivity and performance, and is an effective means of scaling the business into new markets.

But for global enterprises seeking to establish a digital presence in China, investing in cloud computing infrastructure can be a challenging proposition.

Erratic and unpredictable Internet connectivity are frequent events in the world's second largest economy. Traditionally, all public cloud connections were via the Internet. But the Chinese Internet infrastructure is prone to many failures that can 'isolate' data centers and public cloud services from global networks. The result is slow and unstable connections that can completely disrupt the network connection to your business cloud.

Even if you could overcome these limitations, your company will have to grapple with myriad of new and rapidly changing regulatory and security concerns to setup a modern IT and integrated cloud computing infrastructure.

*Gartner.com https://www.gartner.com/en/newsroom/press-releases/2021-04-21-gartner-forecasts-worldwide-public-cloud-end-user-spending-to-grow-23-percent-in-2021

Despite these issues, using the cloud remains a cost-effective way to scale operations and increase productivity in China. To ensure maximum value from your cloud investment, enterprises can opt for a direct cloud connectivity solution such as the habitual CBC Cloud Connect to access data in the public cloud from a private, dedicated network.

Alternatively, organisations can deploy CBC eNet Connect -- a cloud-based SD-WAN solution that will auto route network traffic via CBC optimised IP backbone, delivering 90% coverage in China cities and business regions with well-peered connections across all tier 1 China carriers and additional, dedicated links to tier-1 international telcos.

CBC Cloud Connect

A direct cloud connection is faster and more reliable since only you have access to the private network, which decreases the risk of anything going wrong and ensuring more predictable and stable cloud performance. A direct cloud connection adds an extra level of safety to your data—your data in the cloud no longer poses a security risk as it would on the Internet. Bypassing the Internet to access your cloud directly not only increases reliability but also increases security and network access speed.

CBC Cloud Connect is a direct cloud connectivity solution that establishes a private connection between public clouds (AWS, Azure, Tencent and Alibaba Cloud, etc) and your offices and data centers by leveraging on CBC award-winning Ethernet and MPLS network. It not only provides users with more secure and efficient networking services, but delivers a cost-effective and consistent network experience with secure and private connectivity, bypassing unpredictable and erratic Internet-based connections in many cities in China.

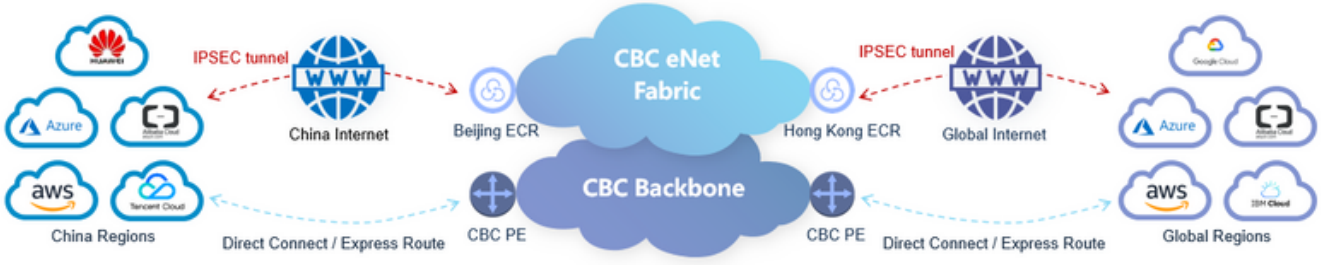

Figure 1 Overview of CBC cloud connect

CBC eNet Connect

As your company grows, your business depends on mission critical applications which in turn, depend on your WAN's stability and performance. This frequently entails relying on cloud-based software available over the Internet to complete tasks, resulting in multi-cloud setups.

CBC eNet Connect is an agile cloud-based SD-WAN solution that leverages CBC congestion-free eNet Fabric to achieve premium quality connectivity when accessing global locations, global public clouds or websites from China sites. It allows IT professionals to easily deploy Internet-based connectivity to provide a secured and reliable connection for the business, with better bandwidth and lower costs.

Defining your path to Cloud Connectivity

Today, almost all businesses expect 24 x 7 WAN availability. Together with high availability, ensuring a best-case customer experience requires consistent and deterministic level of network performance metrics, for example, predictable jitter, packet delay/loss and established quality of service amongst others.

Taking into account the different WAN models and the size, type and scale of cloud deployed, deciding on what type of connectivity (Cloud Connect vs eNet Connect) delivers the best cost/performance for your enterprise need not be a challenging proposition. We list some options below:

Let's compare

CBC Cloud Connect & CBC eNet Connect

CBC Cloud Connect

What is it?

This is a high-bandwidth secure private connection connecting an enterprise network directly to the Cloud Service Provider (CSP) network. Multiple VLAN connections can be made over a single connection using these services, usually at 1 Gbps or 10 Gbps for a dedication connection and below 1 Gbps for hosted connections. Examples include Microsoft Azure ExpressRoute and AWS Direct Connect.

When is this used?

- Used when enterprises require high capacity connections with high volume data transfer for storage, such as during a cloud migration.
- Used when enterprises require a hybrid cloud network architecture, connecting the on-premise data center with the cloud data centers.
- Used when more predictable connection for better application performance is required.
- Used to move data more securely between cloud data centers without it being exposed to the public internet.

CBC eNet Connect

A cloud on ramp connection to the cloud service providers (CSP) stitched to CBC eNet Fabric using the internet as a medium, comes with a guaranteed service level agreement (SLA). It offers flexible bandwidth options, creating virtual circuits across CBC eNet Fabric. This fabric is integrated with CBC IP backbone on IPv4 and IPv6 technologies, security, and traditional MPLS network. The backbone consists of multiple incumbent domestic and Tier 1 international carriers.

- Used when enterprises need access to establish multi cloud connectivity.
- Used when quick turn-on and fast provisioning is required.
- Used when enterprises are still transferring data primarily through the Internet but desire optimised performance.
- Used when enterprises require a cost-effective option to a private connection to the cloud.

Let's compare

CBC Cloud Connect & CBC eNet Connect

CBC Cloud Connect

Why use this?

Pro:

- Compared to the Internet, allows for higher throughput, lower latency, better performance, and a more secure connection.
- Allows multiple connections to both public and private (hybrid) environments.
- Conforms to China's strict regulatory requirements

Con:

- Private connection costs more than Internet or peering connections.

CBC eNet Connect

Pro:

- Zero-touch provisioning and quick turn-on
- Strong security via network security services and as-a-service cloud based firewalls, Unified Threat Management solutions.
- Leverages the congestion-free CBC eNet fabric to achieve premium quality connectivity when accessing global locations.
- More cost effective compared to Cloud Connect and makes for ideal backup option.

Con:

- The Internet is the primary platform for data transfers to and from the cloud.

Benefits of various CBC Cloud Connectivity solution

Multi-cloud networking

Connect seamlessly between your workloads from different public clouds in different regions, including China. Enhance your multi-cloud infrastructure effortlessly with quick and easy access to leading public cloud service providers over pre-established connections. CBC Tech is a technology partner for major cloud providers and one of the foremost experts in AWS Direct Connect solutions both in China and globally.

Secure

Integrating the cloud into your operations means extending a larger infrastructure fabric but also increases the number of possible security breaches. Connecting to the cloud directly via direct connection such as CBC Cloud Connect limits the points of network access by offering a dedicated Ethernet point to point connectivity and Layer 3 extension of your IP VPN private network into the public cloud. CBC eNet Connect cloud-based SD-WAN leverages network and as-a-service security options integrated into its eNet Fabric including firewalls and Unified Threat Management solutions.

Optimal network experience

With CBC Cloud Connect, you choose how and which data is routed directly to the cloud guaranteeing a better end-to-end user experience by relying on the deterministic nature of an MPLS physical underlay to deliver on QoS.

eNet Connect exploits the deterministic intelligent traffic routing capabilities of a secure SD-WAN connection to deliver near-MPLS performance, with hardened last-mile Internet connectivity leveraging the best local Internet service providers (ISPs) and technologies to eliminate packet loss while minimizing latency and jitter.

Proactive Network Management & Monitoring

Receive proactive alerts from CBC eNet Connect Portal and view your network performance from a single dashboard managed by CBC Tech's dedicated 24x7 service center.

Cost Effectiveness

Save on lower connectivity, equipment and network administration costs by up to 30%# when migrating to CBC eNet Connect SD-WAN by leveraging lower-cost Internet bandwidth. Alternatively, CBC Cloud Connect, though costlier than Internet or peering connections, but delivers lower data transfer prices than via the public Internet.

Ease of business

With a managed cloud connection, your business no longer depends on ISPs for connections to each cloud provider. Network resources are easily centralized to support a quick activation of public cloud access when you need it. Visibility into operations and applications will also improve with a single pain of glass. Connecting directly can even help improve unified communication and collaboration services, which are increasingly critical to productivity for enterprises.

#subject to network assessment

About CBC Tech

Established in 2008, CBC Tech is the next-gen Network-as-a-Service (NaaS) provider with our own patented SD-WAN fabrics across twenty-five (25) markets in China and internationally. CBC Tech enables cloud-native network and security for enterprises over our SD-WAN fabrics, integrated with our congestion-free IP and networks, mobile access, network appliance, multi-cloud connects and cloud-based security to deliver the best application performance with excellent customer experience. With more than 20 patents, CBC Tech's R&D unit continues to develop innovative next generation networking solutions to enable enterprise networks for digital transformation.

CBC Tech is certified by TL9000, ISO9001, ISO20000 and ISO27001, to provide reliable and secure services internationally. CBC Tech has offices in Beijing (HQ), Shanghai, Suzhou, Guangzhou, Shenzhen, Hong Kong and Singapore (International HQ).

Powered by CBC NaaS – More Than A Telco Service Provider

No matter where you are on your network transformation roadmap, CBC NaaS portfolio of solutions can help accelerate your time to market while ensuring business continuity and security. Our broad applications catalogue, goto-market services, and flexible business models are here to assist you. For more information, to get started with CBC eNet Connect, scan the QR code.

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