Zenlayer
Cloud Networking Brief

zenlayer

Zenlayer Private Global Network on Demand

Traditional private and dedicated connections can no longer support the needs of today's enterprises. Many organizations are experiencing this firsthand while expanding globally and transforming digitally. Thriving in the cloud requires an agile, secure, efficient, and cost-effective approach to global networking.

Zenlayer offers Cloud Networking — a private, on-demand and full-mesh network built on a global backbone spanning across six continents and 45 countries. Cloud Networking provides instant connectivity to leading global public clouds, private clouds, and data centers, while minimizing latency and data transmission times for applications and platforms.

Product Highlights

Global Connectivity

Zenlayer's 270+ edge nodes are close to data centers in key markets, including emerging economies in China, India, Southeast Asia, South America, and the Middle East. Zenlayer also connects to leading cloud services like AWS, Google Cloud, Alibaba Cloud, Tencent Cloud, Huawei, and IBM Cloud.

Full-Mesh Networks

Every node or PoP can get interconnected within Zenlayer's high performance, full-mesh L3 network. These connections make the network highly flexible when routing data, lowering latency and costs while boosting data transmission speeds.

Ultra-low Latency

Zenlayer strategically avoids public internet congestion, offering instant, on-demand networking while reducing latency by 30-80% during peak periods. In addition, all routes come with full redundancy and failover protection and high availability with a 99.99% SLA.

Segment Routing Technology

Zenlayer offers the global backbones at more than 60 global PoPs with segment routing technology. Segment routing provides operator-level availability, enhanced operational efficiency, and guaranteed bandwidth for customers over a flexible interface.

Greater Agility

Customers with office server addresses outside of a Zenlayer PoP don't need to deploy a local loop. Zenlayer provides instant last-mile-access for small bandwidth customers through MCE (Multi-Customer-Equipment), for quick, low-cost access.

Quality of Service

Zenlayer's industry leading Quality of Service (QoS) allows businesses to prioritize different traffic according to custom rules. High-priority applications and VIP user connections guarantee higher levels of service beyond Zenlayer's fast standard speeds. QoS rules can be set based on application, region, IP address, and/or network status to provide the best digital experience possible.

Use Cases

Hybrid/Multi Cloud
Private and public clouds inter-connection

Data Centers
Inter-data center connectivity

Content
Dynamic content acceleration

Gaming
Immersive Gaming

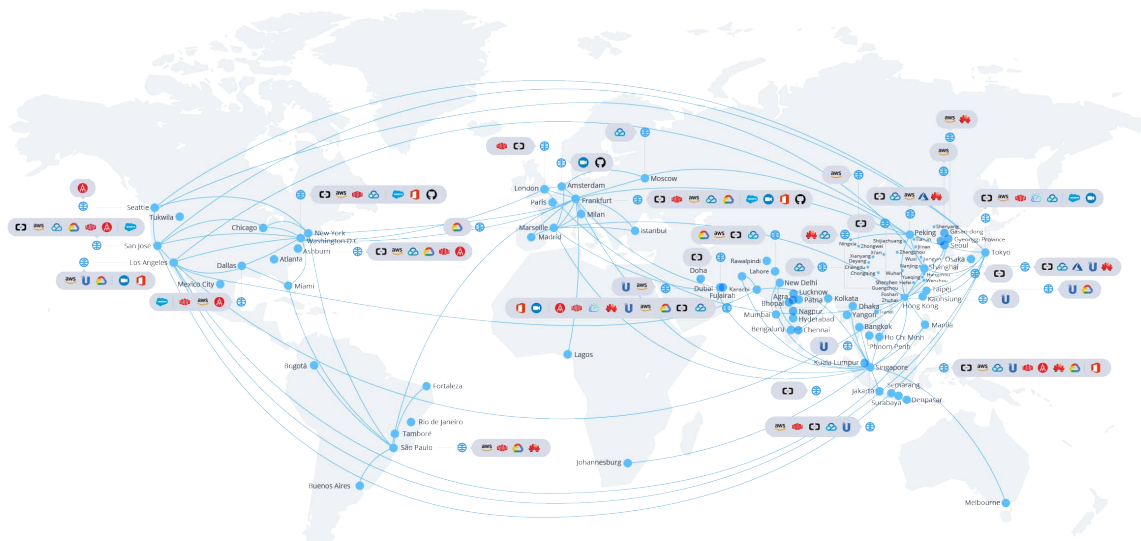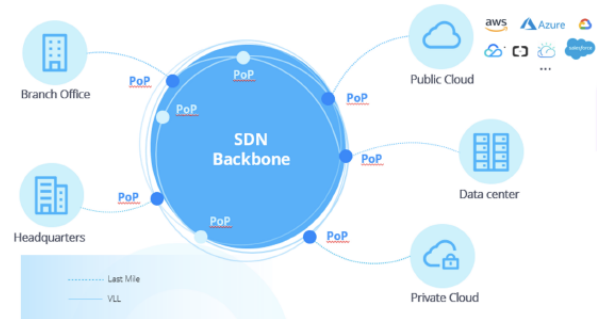**Streaming**
Interruption-free live streaming and VOD

Conferencing/ E-learning
No audio/video lag

How it Works

Zenlayer's Cloud Networking solution is supported by the latest advancements in software-defined networking. The service is based on SDN 2.0, a cutting-edge methodology offering 99.99% carrier-grade network service and highly scalable, predictable network infrastructure.

Early SDN deployments were based around the OpenFlow protocol. Zenlayer goes beyond OpenFlow, providing a comprehensive framework based around technologies like segment routing, EVPN, and VxLAN — offering superior resilience and flexibility, while providing path selection and network telemetry for advanced traffic engineering.

SDN 2.0 also treats the network as a separate domain, reducing operational difficulties and costs and improving performance.

Infrastructure
- Data Center

Services
- Cloud Networking
- Bare Metal Cloud

Public Clouds
- AWS
- Microsoft Azure
- Google Cloud
- Alibaba Cloud
- Tencent Cloud
- UCloud
- Equinix Cloud Exchange
- Coresite Open Cloud Exchange
- Megaport
- IBM
- Huawei Cloud

SaaS
- Salesforce
- Office365
- Github
- Zoom

About Zenlayer

Zenlayer (www.zenlayer.com) offers on-demand edge cloud services in over **270** PoPs around the world, with expertise in fast-growing emerging markets like Southeast Asia, India, China, and South America. Businesses utilize Zenlayer's global edge cloud platform to instantly improve digital experiences for their users with ultra-low latency and worldwide connectivity on demand.