

Internet Data Center Cloud Interconnection



Overview

This white paper explains the need for multi-layer data center interconnection networks and how they need to support dynamic access to cloud applications and services. Today's multiple, costly, static networks require manual provisioning and intervention across multiple layers and domains. They. Cloud on-ramps are dedicated, private-path connections from a colocation facility to a major cloud provider's network edge. AWS Direct Connect, Microsoft Azure ExpressRoute, and Google Cloud Interconnect are the major examples. Interconnection in colocation data centers are vital for fast. Equinix's most recent Global Interconnection Index3 and TeleGeography's Internet Map forecast a compound annual growth rate of 44% for global data center interconnection and predict that interconnection bandwidth will be 15x larger than internet bandwidth by 2024.



Article Content

What Is Data Center Interconnection

Understand what data center interconnection means — cross connects, internet exchanges, cloud on-ramps, and why the ecosystem matters.

Biznet Data Center | Connect to Indonesia's Leading Digital ...

Connect to Indonesia's Leading Digital Interconnection Ecosystem Empowering businesses with secure, scalable, and high-performance

Press Releases | Equinix

Equinix Expands Investments in Global Data Center Workforce Development Mar 24, 2026

Data Center Interconnect: A Guide to DCI and Connectivity

Explore how data center interconnect works, and what to consider when connecting facilities, clouds, carriers, and network partners.

What is Colocation? Data Center Comparison & FAQs | Equinix

Learn what colocation is. Compare colocation to data centers, the cloud, and other interconnection services. FAQs on security, infrastructure, and support.

Canada Data Centers, Colocation & AI-Ready Infrastructure

Equinix's Canada data centers offer colocation and interconnection with AI-ready infrastructure and low latency access to clouds and networks.

Data center interconnection for the cloud era

This white paper explains the need for multi-layer data center interconnection networks and how they need to support dynamic access to cloud applications and services. Today's multiple, costly, static

Data center interconnection for the cloud era

The data centers that make up the cloud form an ecosystem that enables digital transformation and the digital economy. This cloud ecosystem requires a highly interconnected data center infrastructure to

AI-First Hyperscalers: 2026's Sprint Meets the Power

Hyperscalers in 2026: What's Next for the World's Biggest Data Center Operators? In 2026, hyperscalers will accelerate AI-first buildouts while

Cloud Interconnect overview | Google Cloud

Provides connectivity between your network in another cloud and VPC networks through a direct physical connection between the Google network and that of

Data Center Investment in 2026: AI Demand, Power Constraints, and ...

Ropes & Gray recently attended IMN's Data Centers Private Equity conference in New York. Consistent with our own practice experiences, attendees and presenters confirmed that,

Digital Realty Trust highlights its global data center scale as demand ...

Digital Realty Trust typically serves a mix of enterprise, cloud, and network provider customers, reflecting the broad demand for third-party data center infrastructure.

Data Center Company & Enterprise Network

Equinix is the largest global data center and colocation provider for enterprise network and cloud computing. Secure datacenter management technologies and

A Complete Guide to Data Center Network Architecture

What this boils down to is an interconnection architecture that features technologies including Internet Service Providers, dark fiber, internet exchanges (IXs), and cloud providers to provide both a local

Data center interconnection for the cloud era

The cloud era demands a new network architecture that interconnects edge and core cloud data centers, many of which are already home to the network, cloud and business ecosystems that

Digital Realty Trust highlights global data center role as investors ...

Digital Realty Trust remains a key global data center operator, with investors focusing on its long-term positioning in cloud, colocation, and interconnection services rather than short-term price ...

15 Largest Data Centers in the World

Explore the 15 largest data centers in the world, highlighting their impressive size, power capacity, and role in global data storage.

Interconnection services in hybrid IT data centers:

What are interconnection services in hybrid IT data centers? Interconnection services are the physical and virtual network connections that link different

US Utilities Plan \$1.4T for AI Data Centers: 27% Capex

US utilities plan \$1.4 trillion in spending through 2030 for AI data centers. Duke Energy leads at \$102.2B as power demand hits 9% of US electricity.

Data Center Statistics in US 2026 | Data Center Facts

A data center, at its most basic, is a physical facility housing the servers, networking equipment, storage systems, and power and cooling

Europe, Middle East and Africa Data Center Colocation and ...

Unmatched interconnection, scalable colocation and infrastructure across Europe, Middle East and Africa Equinix has 101 data centers in Europe, Middle East and Africa, strategically located in key

Public Peering Remains Important in the Hyperscale Era

This highlights the increasing convergence between data center ecosystems and Internet exchange infrastructure. Large CDNs increasingly optimize deployment by colocating peering,

Understanding Interconnection in Colocation Data Centers

Explore key interconnection approaches in colocation data centers to boost connectivity, agility, and business performance with real-world examples.

AI to drive 165% increase in data center power demand

The explosion in interest in generative artificial intelligence has resulted in an arms race to develop the technology, which will require many high

Interconnection 101: A Complete Guide [What Is, Types ...

Cloud interconnection: Cloud interconnection refers to establishing connections between data centers and cloud service providers. It enables organizations to access and transfer data to and

Contact Us

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