The Bare Essentials to Bare-Metal Cloud

Bare-metal cloud is dedicated, physical server infrastructure deployed with cloud-like ease and speed — offering flexible commercial options. In bare-metal environments, customers have full access to key hardware resources including CPU, storage, GPU, and networking infrastructure.

These resources enable greater customization and agility to support a variety of applications including container orchestration platforms like Docker and Kubernetes, or to install a hypervisor such as VMware to support virtualized private cloud environments.

BENEFITS

The primary benefits of dedicated bare-metal infrastructure compared to multi-tenant IaaS solutions:

ENHANCED SECURITY

Physical resource separation enables you to meet strict compliance and regulatory requirements

IMPROVED AGILITY

Pre-deployed, scalable infrastructure configurations can be spun up on-demand

PREDICTABLE PERFORMANCE

Dedicated hardware offers optimal performance and eliminates resource conflicts caused by noisy neighbors

INCREASED CONTROL

Root access to key server resources enables highly customizable solutions

WHAT ARE THE DIFFERENCES BETWEEN BARE-METAL PROVIDERS?

Bare-metal solutions range in services hosted by public cloud providers along with colocation-based infrastructure providers. Each offers unique benefits including customization, management simplicity, performance and scalability. Bare-metal providers also offer flexible commercial options including usage-based and monthly billing with no long-term commitments.

For low latency applications requiring the highest level of performance and security such as artificial intelligence, machine learning, blockchain, data analytics and HPC environments, it is best to select a bare-metal provider with edge infrastructure nearest to applications, networks, and users. In solutions requiring rapid scalability and increased customization such as gaming, streaming, and ecommerce applications, it is best to select a provider that offers a wide range of pre-deployed hardware configurations and enables programmable burst capabilities.

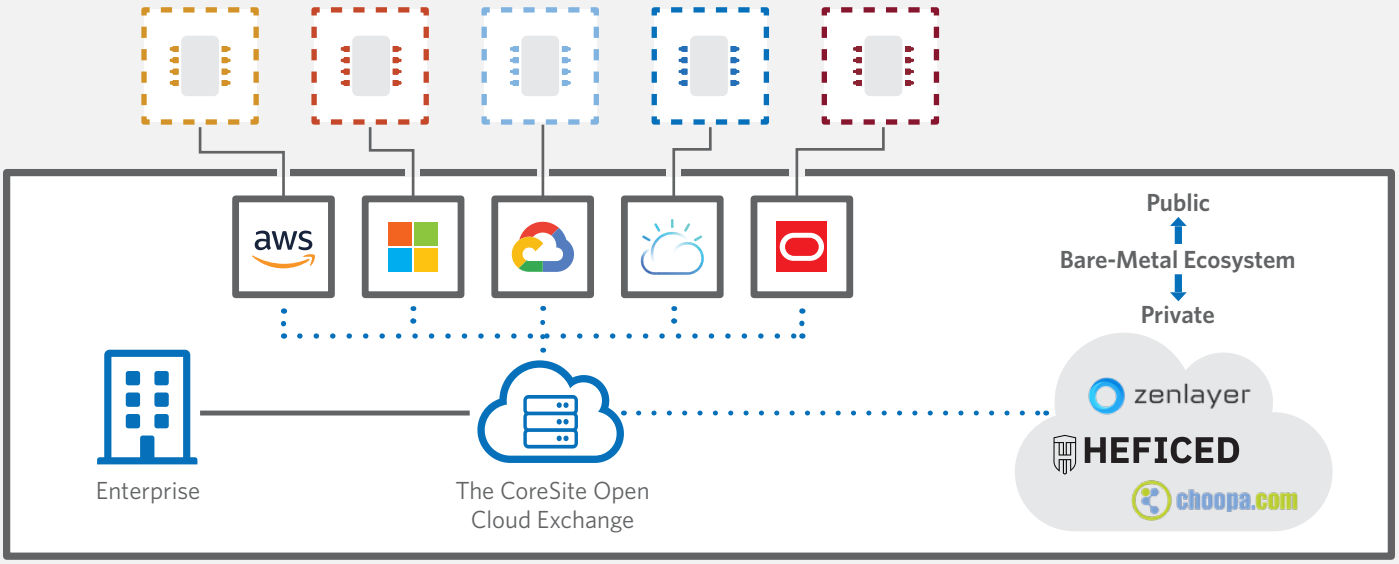
CoreSite **+ Bare-Metal Cloud**

CoreSite's high-performance interconnected data center campuses are located in key edge markets across the U.S. and provide the best environment for deploying scalable, hybrid architectures. Additionally, the CoreSite Open Cloud Exchange™ offers a one-to-many SDN connection to the cloud, purpose-built for the delivery of cloud-based IT resources and applications. When you deploy within CoreSite's data center campuses and utilize the CoreSite Open Cloud Exchange, you will benefit from direct, low latency interconnection between your critical applications, public clouds, WAN / SD-WAN services and bare-metal providers to support your digital business now and into the future.

HOW IT WORKS

CoreSite supports an ecosystem of leading bare-metal providers. This ecosystem approach offers unique advantages to customers evaluating a variety of solutions for their digital strategy while being mindful of future optionality. At CoreSite, customers have direct access to a broad ecosystem of dedicated, bare-metal services including:

- AWS EC2 Metal
- Azure Dedicated Host
- Google Bare Metal Solution
- IBM Bare Metal
- Oracle Bare Metal Instance
- Zenlayer Bare Metal Cloud
- Heficed Proto Compute
- Choopa Dedicated Servers



THE CORESITE OPEN CLOUD EXCHANGE

One Connection. Countless Opportunities.

The CoreSite Open Cloud Exchange provides a single port into our layer 2 Ethernet switching product, enabling private virtual connections to a robust ecosystem of network, cloud and IT service providers. The online portal allows on-demand access for CoreSite customers to interface directly to virtual cloud environments. Through individualized portals, customers maintain control of data in real time, providing the scalability and elasticity essential for cloud applications.