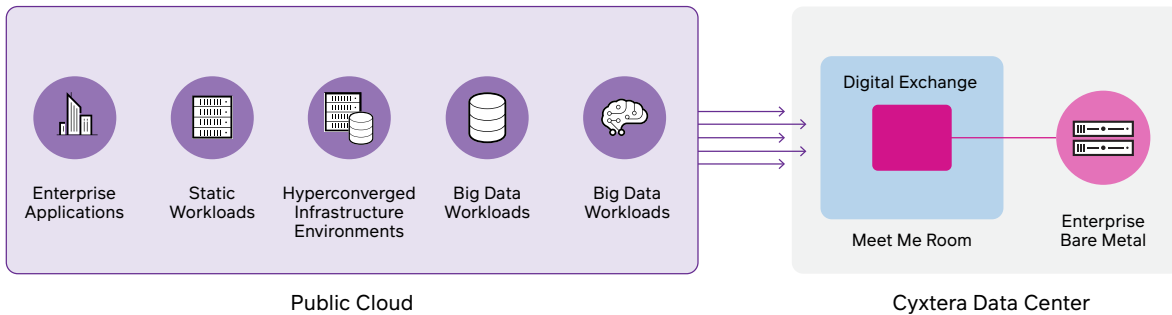


Cloud Repatriation with Enterprise Bare Metal

In recent years, a common approach to cloud adoption has been “lift and shift”—a wholesale migration of workloads and data to the cloud with little or no changes to take advantage of cloud-native features.



Today, this has fallen out of favor, with many organizations finding that while cloud migration may have provided near-term relief of capital expenses, it has also created higher-than-expected recurring operational expenses. As a result, businesses are looking to take workloads that don't specifically require cloud functionality and find them new, more affordable homes.

Cloud repatriation – the rehosting of data, applications, and workloads from the cloud back to on-premises data centers – has become a popular strategy for businesses concerned about an over-reliance on public clouds.

For businesses like yours, who are considering a move back from the cloud, Cyxtera Enterprise Bare Metal allows for the movement of critical workloads to a dedicated, single-tenant infrastructure that allows for increased control, reduced costs, and limited uptime risk.

Why Consider Cloud Repatriation?

- High cloud costs
- Data security concerns
- Inconsistent performance
- Issues with service reliability
- Trouble with regulatory compliance
- Forecasting challenges
- Need to reduce vendor lock-in
- Lack of control

What workloads are customers repatriating?

Enterprise Applications

Enterprise applications such as customer relationship management (CRM), enterprise resource planning (ERP), and supply chain management (SCM) are mission-critical, sit at the core of businesses, and connect to many other applications throughout the enterprise. There are many reasons why enterprises are finding that these workloads are a better fit for the data center, including reduced costs, improved performance, superior network latency, and more control over scheduled maintenance and updates.



Cyxtera Enterprise Bare Metal (EBM) features a rich catalog of servers from top-tier brands, including HPE, Dell and Fujitsu, located in physically secure, compliant, and fully controlled Cyxtera data centers. By deploying critical enterprise applications in Cyxtera data centers, enterprises can manage and control access to sensitive data, move data between systems and locations without added costs, and eliminate disruptions. With EBM, customers have system-level control and visibility over their environment so that they can control updates, backups, and security checks. Cyxtera EBM systems include a connection to Cyxtera's Digital Exchange, which offers on-demand provisioning of infrastructure, networks, and services.

Static Workloads

One of the key benefits of leveraging cloud infrastructure is elasticity—the ability to rapidly deploy additional resources in response to sudden or high spikes in usage. This elasticity is essential for dynamic workloads but not needed for static ones. And, given the high cost of hosting workloads in the cloud, it makes sense to find new, more affordable homes for those workloads that don't require cloud functionality. Static workloads – workloads that are always on, change little over time, and have well-understood resource requirements and usage patterns – are good candidates for cloud repatriation because they rarely experience sudden spikes in usage or resource needs.

With EBM, IT organizations gain the benefits of the cloud that drove a migration in the first place—scalable on-demand provisioning, service costs recognized as operating expenses, updated, high-performance hardware, and access to a broad networking infrastructure. EBM also delivers the best of traditional colocation, including predictable costs, direct control over applications and data, and service reliability.



Hyperconverged Infrastructure environments (HCI)

Businesses have turned to hyperconverged infrastructure (HCI) to reduce data center complexity, increase scalability, improve reliability, and, most importantly, gain agility.

But as HCI environments have migrated to public clouds, performance, cost, data regulation, and security concerns have grown. With Cyxtera's Enterprise Bare Metal, IT organizations gain on-demand access to enterprise-grade servers to repatriate their HCI environments back from the cloud in minutes while eliminating many of the challenges they are facing in the cloud.

Cyxtera EBM includes servers from Nutanix, HPE, Dell and Fujitsu that are HCI-ready and available on demand. With varying core counts, amount of RAM, and size and type of storage drives, Cyxtera EBM for hyperconverged infrastructure can run a variety of workloads, including business-critical applications, database software, virtual desktop infrastructure, collaboration applications, analytics, remote management, and testing environments.



Big Data Workloads

Storing data-intensive workloads in the cloud can quickly become challenging. Whether it is the hidden costs of accessing or moving cloud data, performance issues related to latency or outages, or regulatory concerns around privacy and regulation, companies are deciding to move data back on-premises.

Cyxtera's Storage-optimized EBM configurations with large storage capacity and high I/O and memory bandwidth are an excellent fit for data-intensive workloads like DBMS and software-defined storage. With predictable transparent pricing, direct control over the physical location of data, and high-performance, low-latency interconnection, Cyxtera's EBM solution addresses the enterprise's most pressing cost, performance, and security concerns.





AI/ML Systems

While it is easy to start with AI/ML in the cloud, large-scale production AI/ML introduces costs and complexities that make on-premises solutions an attractive alternative. Businesses are moving their AI/ML workloads away from the cloud for a myriad of reasons, including excessive costs related to continuous large model training, privacy and security concerns around sensitive data, and performance slowdowns or increased network latency that can arise because of sharing resources in the cloud.

Cyxtera AI/ML Compute as a Service featuring NVIDIA DGX™A100 systems allows businesses to move AI training and inference workloads away from the cloud and into a unified AI infrastructure that offers lower costs and superior performance. Cyxtera has partnered with NVIDIA® to provide dedicated systems optimized to run resource-intensive AI workloads directly within the data center. With NVIDIA DGX systems available in an as-a-Service model, enterprises can avoid the significant capital expenses and long lead times associated with deploying AI infrastructure.

Cyxtera EBM and Digital Exchange for cloud repatriation

Cyxtera's EBM solution offers enterprise buyers looking to repatriate their workloads the best of all worlds – the on-demand scalability of the cloud combined with the performance, cost-effectiveness, reliability, and security associated with enterprise-grade infrastructure.

With Cyxtera's Enterprise Bare Metal, organizations gain:

- Data center space and power
- Core network and top-of-rack switches
- Access to the Cyxtera Digital Exchange
- OEM hardware repair, maintenance, and support
- 24/7/365 data center operations

About Cyxtera

Cyxtera is a global leader in colocation and interconnection services, with a footprint of more than 60 data centers in over 30 markets. With IT infrastructure becoming increasingly hybrid, complex, and distributed, we continue to expand our portfolio beyond space and power to deliver more cloud-like and flexible infrastructure solutions across its global data center platform and robust partner ecosystem. Today, we provide more than 2,300 enterprise and government customers with the technology solutions they need to scale faster, achieve financial goals, and gain a competitive advantage. For more information, please visit www.cyxtera.com.

To learn more about moving your workloads and data back from the cloud onto Enterprise Bare Metal — without compromising performance, control, or cost, Contact sales@cyxtera.com or call 1-855-699-8372.