

CXD Compute Nodes

Need to deploy and scale IT infrastructure faster? Successful enterprises must have IT infrastructure that can respond quickly to changes in demand if they wish to remain competitive.

BENEFITS

Speeds time to market for new workloads with infrastructure deployment in a single business day

Retain full control of your collocated infrastructure, from the hardware through to the workloads it supports

Lowers dedicated IT infrastructure cost 25-50% and shifts from Capex to Opex

Increases IT staff productivity with powerful automated remote configuration and deployment tools

Reduces operations cost with no on-site staff required to rack, stack, configure, or support hardware

Adapt to market and demand changes quickly by scaling capacity as needed

Yet traditional deployments can take three to six months to complete. Hardware sizing and design, through equipment procurement, racking and stacking, configuration and turn-up, can take months. And that assumes there is sufficient data center space and power to accommodate it. This approach lacks the speed and agility a modern enterprise needs to fuel innovation and growth.

The Solution: Colocation On-Demand

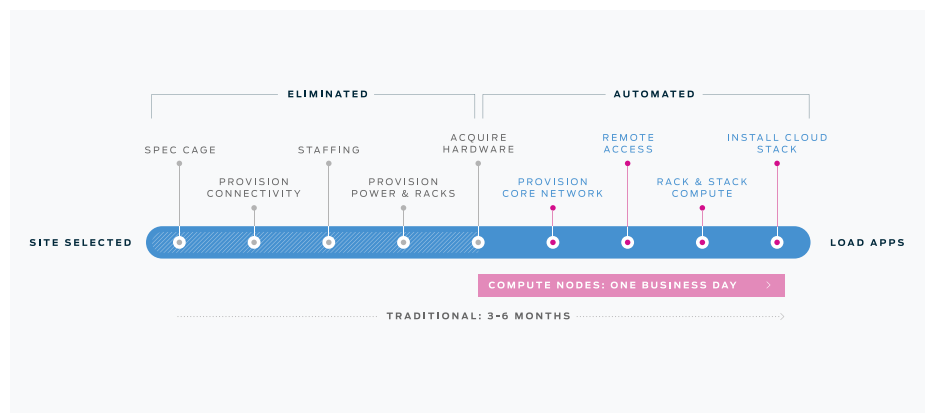
Cyxtera provides an on-demand IT infrastructure built on the CXD Compute Nodes. The Compute Nodes provide all the benefits of traditional infrastructure deployed in colocation—dedicated hardware and control of the entire stack, plus no large capital outlay or long-term leases—in an on-demand consumption model, previously only offered in the cloud.

What are Compute Nodes?

Compute Nodes are a cornerstone offering on the Cyxtera Extensible Data Center platform (CXD). CXD is a software defined network fabric and service provisioning system that provides a revolutionary way to easily purchase and consume data center services.

Compute Nodes include:

- Colocated compute and storage capacity delivered in an on-demand model
- Physically isolated on-demand hyperconverged infrastructure (HCI)
- Seamless extension of customer colocation cabinet or cage
- Connectivity via secure layer 2 network throughout the data center over the CXD platform
- Access to CXD enabled network providers with direct connections to private or public cloud



How It Works

Through the CXD API or web console customers configure and deploy nodes, inclusive of compute, memory, storage, and network resources. Cyxtera has partnered with best of breed hyperconverged infrastructure technology providers to create Compute Nodes. Nodes provide dedicated hardware for each customer upon which they can deploy their hypervisor of choice. They can then configure and manage the resources and virtual machines (VMs) needed to run their mission critical workloads.

Technical Specifications

Compute Nodes are sold and delivered by the node with a minimum of three nodes for the initial cluster. A node is a dedicated self-contained HCI unit that combines compute (CPU cores), memory (RAM), and storage (hard disk drive and solid-state disk) into a pre-configured integrated appliance. Seven different node configurations are available to tailor the infrastructure capacity to specific workload needs. A group of nodes forms a cluster. Each customer has one or more dedicated clusters¹.

Sample Node Configurations ²		Capacities				
Nodes	Description	No. Cores	CPU Speed (GHz)	RAM (GB)	HDD(TB) Storage	SDD(TB) Storage
NTX1	NX-3060-G6 (Hybrid)	24	2.1	256	8.0	3.8
NTX2	NX-3060-G5 (Hybrid)	24	2.2	384	8.0	3.8
NTX3	NX-3060-G5 (All Flash)	28	2.4	512	—	11.5
NTX4	NX-8150-G5 (Hybrid)	28	2.4	768	32.0	7.7
NTX5	NX-8035-G5 (Hybrid)	24	2.2	512	32.0	3.8

Configuration Highlights

- Minimum of 3 nodes for a new cluster²
- Additional nodes may be added individually
- Minimum contract term: 12 months
- Monthly contract term to follow mid 2018

Monthly Service Includes

- Data center space and power
- Compute and storage hardware
- Core network and top of rack switches
- Nutanix Acropolis Pro and Prism Starter software licenses
- Hardware and software maintenance
- 24x7 data center operations

Supported Hypervisors

- Nutanix Acropolis
- VMware ESXi
- Microsoft Hyper-V³
- OpenStack
- None – bare metal
- After initial deployment customers may install the hypervisor of their choice

¹ Individual nodes may be purchased if the customer has an existing Nutanix environment already deployed and they wish to add capacity utilizing Compute Nodes.

² Specific node configurations may vary. Additional options may be available.

³ Microsoft Hyper-V support will not be offered in the initial release. Microsoft Hyper-V support is expected in the near future.