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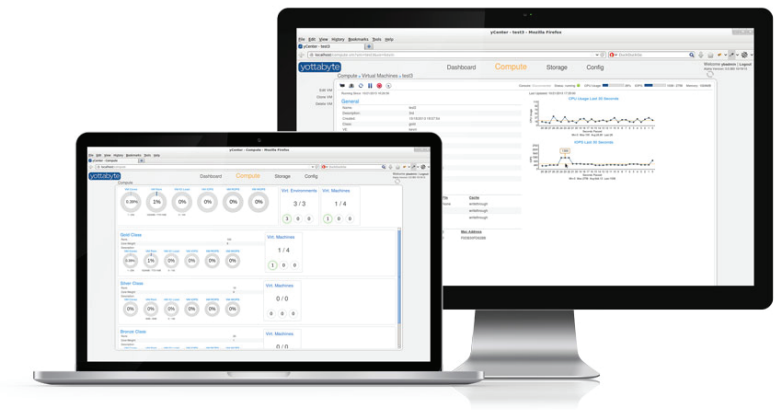
Cloud Blox
Product Data Sheet

Business Class Hyperconverged Cloud Blox

Scale-out, building block approach to IT infrastructure

Does your datacenter support your business, or is it an obstacle to actually getting things done? Traditional datacenter design can result in complex tangles of equipment that never seem to do what you need, no matter how much money or time you pour into them. Troubleshooting a single problem can involve ~~waiting on hold~~ support calls with multiple vendors, and upgrading always seems to come with a catch: "Before you can have X, you need to buy 3 more of Y."



Yottabyte's Cloud Composer and Cloud Blox appliances eliminate these obstacles. When you combine them, you get a software-defined infrastructure platform running on top of simple, versatile hardware appliances. Whether you are a business or service provider, this includes everything you need - storage, compute, virtualization and networking – all from one vendor. When you need some support, it's just a single call. And when you need to make a change to your data center, you can buy just the parts you need.

Building Blocks

Yottabyte and Intel technologies combine in a range of scale-out infrastructure appliances called Cloud Blox. These appliances may be mixed and matched to create a flexible Cloud Composer infrastructure platform, containing the right mix of hyperconverged, storage, computing and network resources to meet your current needs. As your needs change, simply add additional Cloud Blox - no re-design or forklift upgrades are required. Need storage? Add a storage block. Need compute? Add some Cloud Blox specifically tailored for compute. This is what scalability should be: pain-free growth when you need it.

Simplified Management

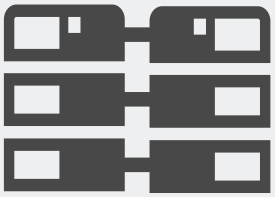
Because Yottabyte Cloud Composer clouds are defined by software, the infrastructure itself can be reconfigured on the fly. New storage volumes, virtual networks, virtual machines or entire virtual datacenter tenants can be spun up with just a few clicks, at a moment's notice, securely via browser on any connected device.

Key Benefits

Virtual Datacenter

Yottabyte Cloud Composer is virtualization and management software that makes a hybrid cloud possible. Cloud Composer combines storage, compute and network resources from multiple servers into a single virtual resource pool. Resources can be divided up into tenant virtual datacenters as required, and you can nest multiple tenants deep; multi-multi-tenancy.

Cloud Composer features an easy to use browser-based management interface and a developer-friendly API, is fully multitenant and has integrated role-based administration allowing individual clients to control their virtual datacenter and only their virtual datacenter. Cloud Composer also features integrated instant cloning, snapshots and disaster recovery, making data protection a core feature.



Scale-out Architecture

A Cloud Composer datacenter is built upon a scalable architecture of modular Cloud Blox appliances. You are free from burdensome pre-planning and the massive initial expense of traditional storage and compute systems. You can start small, and evolve when you are ready. The datacenter you create for a proof-of-concept can be easily scaled for pilot testing and production use simply by adding additional Cloud Blox.

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Hyperconverged Infrastructure Appliance Bundles

HCI Cloud Blox deliver CPU and RAM to run VMs and primary attached storage on the same device

H1500i-E3-HDD

This cluster consists of two (2) entry level systems. Each node is configured with 4 hard drives and 1 NVMe SSD. This combination of high capacity storage with a caching performance tier is ideal for SMB, ROBO and archive workloads.

Compute:
Yottabyte Cloud Composer 4.0 OS
Intel Xeon E3-1240v5
Clock Speed: 3.5GHz
8 CPU Cores / 16 Threads

RAM:
112GB total RAM available
56GB RAM available for HA workloads

Storage:
Yottabyte vSAN
Seagate Enterprise 7.2K SATA HDD
16TB usable before deduplication
800GB Intel PCIe NVMe SSD (Cache)
Avg R/W Rate: ~64MB/s / ~200MB/s

Network:
4x1GbE (VM), 4x10GbE (SAN) (SFP+)

Physical:
2x1U: 17.24" x 21.8" x 1.75"
2x450W Redundant Power Supply
Power cables (120V, NEMA 5-15R)
Premium rail kits

2-node cluster: $15,000

H1400i-E5-BCMS

This cluster consists of two (2) business class nodes. Each node is configured with 8 enterprise class SSDs. This all flash cluster focuses on performance and is an ideal choice for standard workloads that require fast storage and/or many CPU cores.

Compute:
Yottabyte Cloud Composer 4.0 OS
Intel Xeon: E5-2620v4
Clock Speed: 2.1GHz
32 CPU Cores / 64 Threads

RAM:
256GB total available RAM
128GB RAM available for HA workloads

Storage:
Yottabyte vSAN
Samsung Enterprise SATA SSD
7.6TB usable before deduplication
Avg R/W Rate: ~800MB/s / ~300MB/s

Network:
4x1GbE (VM), 8x10GbE (SAN) (SFP+)

Physical:
2x1U: 16.93" x 27.95" x 1.72"
2x750W Redundant Power Supply
Power cables (120V, NEMA 5-15R)
Premium rail kits

2-node cluster: $30,000

H1400i-E5-BCMS + 10G Switch

This cluster includes four (4) business class nodes and one (1) 48 Port 10GbE SDN Fabric Switch. This all flash cluster focuses on performance and is an ideal choice for standard workloads that require fast storage and/or many CPU cores.

Compute:
Yottabyte Cloud Composer 4.0 OS
Intel Xeon: E5-2620v4
Clock Speed: 2.1GHz
64 CPU Cores / 128 Threads

RAM:
512GB total available RAM
256GB RAM available for HA workloads

Storage:
Yottabyte vSAN
Samsung Enterprise SATA SSD
15.3TB usable before deduplication
Avg R/W Rate: ~800MB/s / ~300MB/s

Network:
8x1GbE (VM), 16x10GbE (SAN) (SFP+)
1U: 48x10G SFP+ w/4x40G QSFP Switch

Physical:
4x1U: 16.93" x 27.95" x 1.72"
4x750W Redundant Power Supply
Power cables (120V, NEMA 5-15R)
Premium rail kits

4-node cluster: $65,500

** Cloud Blox clusters must be purchased in a minimum 2-node configuration; for individual scale-out node prices, please contact Yottabyte. All prices in US Dollars.*

Cloud Composer - *Software Defined Infrastructure Platform*

Composer SDI Software

Complete software defined infrastructure platform that abstracts virtual datacenter environments from the underlying hardware. Fully automated orchestration enables secure provisioning of storage, compute & networking in seconds.

Storage:
Built-in Yottabyte vSAN included. Scale-out, distributed architecture; add Cloud Blox for performance or capacity as needed. Global deduplication, mirrored and striped data protection. On-the-fly corruption detection & repair. Configurable encryption at rest and in flight.

Compute:
Built-in Hypervisor included. Guest OS support for WIndows and most major Linux distributions that run on x86 platforms. Automatic VM failover and live migration between nodes.

Network:
Built-in virtual switching. Public/Private IP address, L2/L3, BGP, firewall, NAT/PAT, DNS, DHCP & MAC address management.

Scalable:
This is a multi-cluster/site/cloud aware platform. There is no single cluster node limit, however, practical impementations are goverened by network uplink and datacenter power limits.

Management:
Single pane of glass, secure web-browser based interface for managing, monitoring, alerting and notification.

NEXT STEP: visit us at www.yottabyte.com to request a demo and try out a live virtual datacenter