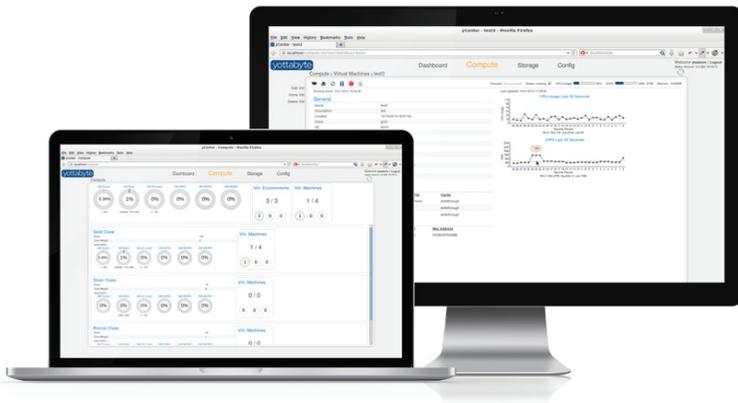# Upgrade your datacenter with Cloud Composer

Cloud Composer is a complete platform for server and desktop virtualization, coupling a highly scalable software defined infrastructure suite with the proven KVM hypervisor.

Cloud Composer converges storage, computing, and network resources to create a high-performance virtual datacenter, all while lowering cost and complexity. Additionally, since Cloud Composer is a complete software-defined platform, you won't need expensive, complex SANs or additional software or platform licenses.

Purpose Built For Virtual Computing

Cloud Composer provides a complete platform for server and desktop virtualization, coupling a highly scalable software-based infrastructure with the proven KVM hypervisor. This convergence of infrastructure and hypervisor enables incredibly rapid deployment of server virtualization projects, VDI infrastructures, and private and hybrid clouds – all by one administrator from the same console.

• **A Software Defined Infrastructure**– Cloud Composer's intelligence lies in the software, meaning you are not locked into proprietary hardware components, and scale the infrastructureat any time without affecting your virtual environments. Because the infrastructure is defined by software, you can create and reconfigure virtual datacenter environments at will.

• **Elastic Scalability** – Because of the low cost and simplified provisioning, virtual machines proliferate at a rate unmatched in physical computing. Cloud Composer provides modular scalability, meaning capacity can be added to the pool simply by plugging in another Cloud Blox node. No migrations or reconfigurations.
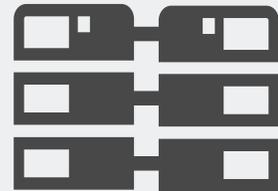
Key Benefits

Complete
Cloud Composer is delivered as a complete virtual datacenter solution designed with everything you need out of the box to build a cloud and we don't upsell you to get the features you really want. Everything you need, from hypervisor to data protection to management is included and managed through one console.

Integrated
With Cloud Composer, provisioning, data protection, and management functions are integrated into the fabric of your software defined infrastructure - no additional servers or licenses are required and platform compatibility is guaranteed.

Scalable
Cloud Composer creates an elastic, distributed, scale-out platform that automatically adjusts when new resources are added. Because your infrastructure is integrated into the software, your entire datacenter scales as one unit.

SAN-Free Storage

At the core of the Cloud Composer is Yottabyte's vSAN, a state-of-the-art software defined storage platform. Leveraging Cloud Composer's software-based architecture, the vSAN connects virtually any type and size of server or disk into a unified storage fabric, allowing you to build a storage platform that extends beyond the boundaries of traditional array enclosures. Because Cloud Composer abstracts resources from the underlying hardware, it supports virtually any type and size of server or disk – from consumer grade SATA drives to enterprise-class NVMe devices. Cloud Composer will automatically allocate workloads to those devices, based on your configurable storage classes, to meet your specified QoS settings.

Software Defined Networking

Cloud Composer includes full-featured L2/L3 virtual networking capabilities that allow you to quickly configure and reconfigure VX and VLANS to meet business demand. Each tenant virtual datacenter includes BGP support, DNS and DHCP servers, Network Address Translation (NAT) and a firewall, allowing the LAN to be fully isolated from the rest of your network, or configured to allow external access. Cloud Composer can connect geographically disparate locations using a "virtual wire" through the public network, ensuring security without a VPN and with minimal configuration.

Simplified Management

Cloud Composer greatly simplifies your organization's data management processes, guiding you to the right decision, enabling quick and efficient actions, and eliminating conflicts and other errors. Simplicity reduces the amount of time and effort required for administration, and reduces the risk of errors introduced by complex management and administration.

Improved Performance

Cloud Composer supports caching to high-performance storage, allowing for significantly faster read/write performance while still leveraging lower cost devices for long term storage. In a virtual environment, common OS and kernel files can be cached and deduplicated on high-speed flash storage, substantially improving VM performance.

General System Features:

- Multi-tenant/cluster/site platform
- Create multiple virtual datacenters
- Web-browser based GUI
- Single pane of glass management
- Dashboards
- Monitoring, manage & alerting
- Statistics & accounting
- Rest-like API

Storage Features:

- Yottabyte vSAN
- Scale-out, distributed architecture
- Live global deduplication
- Mirrored & striped data protection
- Live corruption detection & repair
- Encryption at rest / in flight
- Zero impact maintenance mode

Compute Features:

- Built-in hypervisor (QEMU / KVM)
- VDC QoS / isolation
- Automatic VDC/VM HA failover
- VDC/VM live migration
- VDC/VM site to site replication
- VDC/VM recipe creator (cloning)
- VDC/VM auto-snaphot w/retention
- Windows guest OS support
- x86-based Linux guest OS support

Network Features:

- Built-in virtual switching
- Public/private IP address mgmnt
- L2/L3 support
- BGP support
- Built-in firewall
- NAT/PAT
- DNS & DHCP
- MAC address management

Next Steps

Visit us at *www.yottabyte.com* for more information about Cloud Composer or to request a demonstration or evaluation today.