Maxta Product Brief for Red Hat Environments

Hyperconvergence Your Way

- Eliminate Storage Arrays and Storage Networking
- Dramatically Simplify IT by Eliminating Storage Management
- Provide Application-centric Enterprise-class Data Services
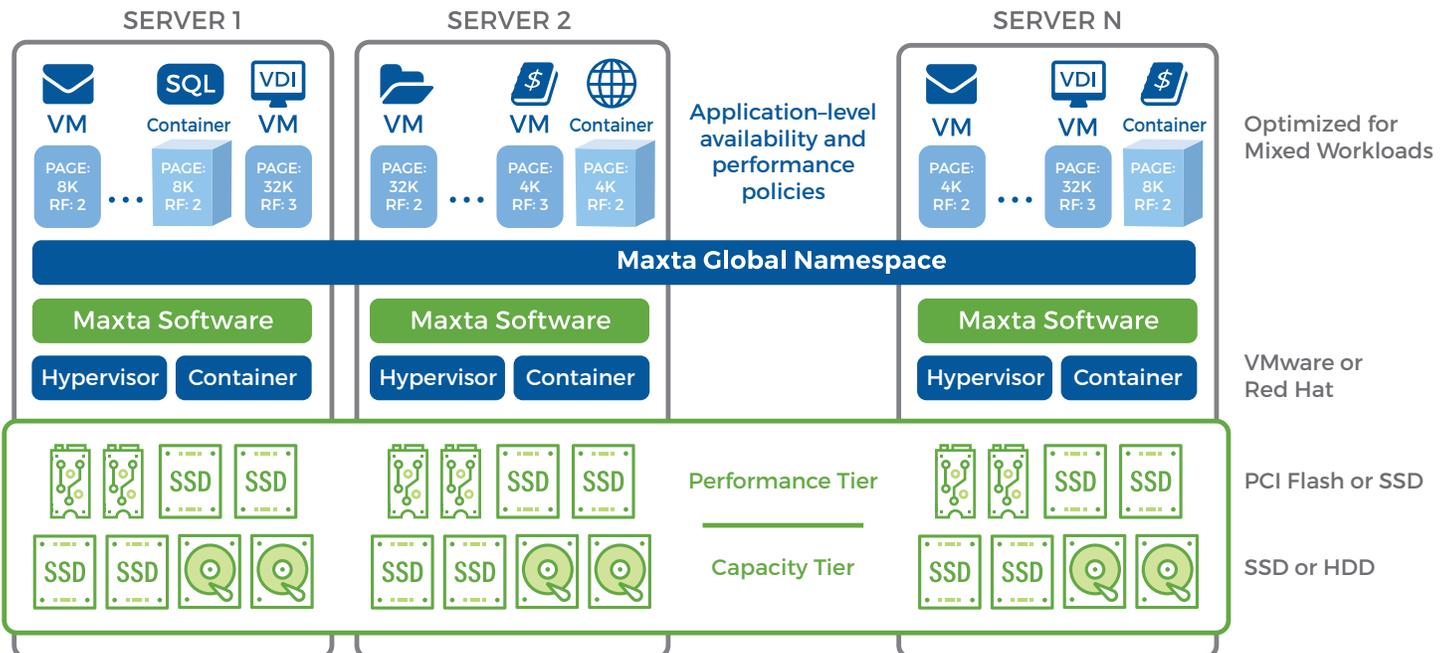- Hardware, Virtualization, Containerization Independent

Maxta is software-only hyperconvergence that delivers a choice of hardware, virtualization, and containerization. Maxta supports VMware vSphere and Red Hat Virtualization platforms, and OpenShift Container Platform as well as works with most major server vendors, including Lenovo, Dell EMC, Super Micro, Cisco, Huawei, Hewlett Packard Enterprise, and more.

The combination of Red Hat and Maxta provides a cost-effective, powerful solution that supports a range of virtualized and containerized workloads, is easy to manage, and scales flexibly to meet current and future requirements.

Simplicity is in the DNA

Maxta Hyperconvergence Software dramatically simplifies IT by eliminating the need for storage provisioning and storage management. With Maxta Hyperconvergence Software all data services, such as replication factor, snapshots and zero-copy clones, are configured and managed at VM level granularity. This simplification eliminates the day-to-day tasks of storage management and enables administrators to focus on managing applications and VMs.

Maxta Hyperconvergence Software eliminates single point of failure by delivering best-in-class data resiliency and high availability leveraging strong checksums and data replication for all stored data. The Maxta platform seamlessly supports Red Hat Virtualization and Red Hat OpenShift Container Platform features like high availability and live migration of VMs and containers. Maxta software's highly efficient snapshots improve data protection and data recoverability. VMs and containers can be instantly provisioned by utilizing Maxta software's Zero-Copy Clones and leveraging templates, thus improving agility.

Cost-efficiency without Compromises

Maxta Hyperconvergence Software enables significant capital savings by converging compute and storage resources on standard x86 servers, without compromising features, performance or scalability. This provides considerable up-front savings and even greater savings on upgrades. In addition, Maxta Hyperconvergence Software leverages capacity optimization technologies to increase storage efficiency and reduce storage expenses. Maxta software provides the ability to manage infrastructure growth and cost more effectively with the ability to add capacity to existing servers instead of adding a complete appliance. By significantly simplifying IT, increasing IT efficiency, and enabling administrators to focus on managing applications, VMs, and containers, Maxta enables dramatic reduction in operating expenses.

Linear Scalability

The versatile architecture of the Maxta platform provides the ability to scale capacity and compute independently and on-demand without having to over-provision resources. This flexibility enables the servers to either have access to the Maxta platform and contribute storage to it ("Converged Compute/Storage Servers") or have access to the Maxta platform without contributing storage to it ("Compute Only Servers"). A Compute-Only Server can be upgraded to a Converged Compute/ Storage Server by:

a) Changing the server role definition (if the Compute-Only Server meets the hardware requirements of a Converged Compute/Storage Server) or

b) Changing the server role definition and upgrading the server (if the Compute-Only Server does not meet the hardware requirements of a Converged Compute/Storage Server)

Product Specifications

Components	Configuration
Minimum Number of Servers	3
Minimum Number of Converged Compute/Storage Servers[1]	2
Minimum Server[2] specification	
Processors per Server	2xQuad-Core 2.00 GHz or faster
Memory (RAM) per Server	64GB or higher
Disk Drives / Capacity	7.2K RPM SATA Drives or higher / 300GB or higher
Solid State Drives / Capacity	Enterprise grade (eMLC) or better / 480GB or higher
Network Connections per Server	Dedicated or Shared – 10 GigE port or higher
Hypervisor	
Red Hat Virtualization	4.2.x or higher
Red Hat Virtualization Manager	4.2.x or higher
Container Platform	
OpenShift Container Platform	3.9 or higher
Maxta Software	3.4.x or higher
Networking	
Private Local Area Network between the nodes	VLAN or Switch

1. A minimum of two Converged Compute/Storage Servers is required for high availability.
2. Hardware has to be listed in Maxta's Hardware Compatibility List (HCL).