TRUE HYPERCONVERGENCE CHECKLIST

Confused about hyperconvergence?

What if you could eliminate the rigidity of server, storage and network switching silos, and the operational headaches that accompany them? **What if** you had ease of scale and you could move at start-up speed? And **what if** you drove so much data efficiency that no one would believe the performance rates and capacity savings you were achieving? These are just some of the promises of hyperconvergence. But, with so many vendors using the term, how do you determine what is **TRUE hyperconvergence**? Here's a handy checklist.

1 Single Vendor Solution

Developed, delivered and supported by a single vendor to streamline acquisition, deployment, management and support; and reduce complexity, interoperability issues and OpEx.

2 Single Shared Pool of x86 Resources

Single pool of shared x86 resources that seamlessly combines all IT/services "below the hypervisor" to:

- Process data with a single policy engine versus simply run disparate services on the same system;
- Eliminate infrastructure silos and the need for discrete components, such as data protection;
- Create a virtualization-ready environment optimized for virtual workloads;
- Reduce costs to enable "cloud economics."

3 Ease of Scale

Easily scales by adding x86 building blocks to provide elasticity to meet changing business demands.

4 Centralized Management

Centrally manage virtual environments globally via a single interface, including multi-site management and backup, to minimize training and create OpEx savings.

5 Hyper-Efficient Use of Resources

- Data center components are not idle resources, contributing to a reduction in discrete infrastructure components and capital costs.
- Deduplicates, compresses, and optimizes data before it's written to disk to reduce capacity, lower bandwidth costs, and ensure that IOPS are available for application requirements.
- Offload intensive processing from x86 processors to ensure that maximum CPU resources are available for application requirements.

6 VM-Centricity

The management paradigm shifts from a hardware approach to an application one, with policies, management and mobility at the virtual machine level, which eliminates the need for infrastructure specialists and provides greater flexibility.

7 Native Data Protection

Meet SLAs with native data protection (backup, recovery and disaster recovery) that eliminates the need for third-party backup and replication software and hardware, and backup specialists.

8 Software-Centric Design

Meet software-defined data center requirements, enabling automation and on-demand deployment to improve operational efficiency.

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SIMPLIVITY TRUTHS

SimpliVity provides the best of both worlds: cloud economics with enterprise performance, protection and functionality. SimpliVity offers true hyperconverged infrastructure and a data architecture that simplifies IT, operations and data—delivering 3x TCO savings.

Single Vendor Solution

SimpliVity delivers hyperconverged infrastructure based on its own IP.

Single Shared Pool of x86 Resources

SimpliVity assimilates 8 to 12 data center components in an x86 form factor to create a single, scalable resource pool and central processing engine, SimpliVity's Data Virtualization Platform.

Ease of Scale

SimpliVity hyperconverged infrastructure starts at two nodes and can be augmented with additional nodes as needed.

Centralized Management

SimpliVity Global Unified Management provides centralized management of all SimpliVity-powered hyperconverged infrastructure resources and workloads intuitively via the virtualization framework (vCenter).

Hyper-Efficient Use of Resources

SimpliVity employs several efficiency techniques:

- By hyperconverging all components and services "below the hypervisor," there are no duplicate devices or services operating part-time and remaining otherwise idle.
- SimpliVity's Accelerated Data Efficiency deduplicates, compresses, and optimizes data at inception, once and forever to deliver 100:1 efficiency ratios.
- SimpliVity's OmniStack Accelerator Card is a specially-architected PCIe module that offloads processing of HDD writes in real time.

VM-Centricity

SimpliVity decouples workloads from the physical infrastructure to enable greater mobility, and offers VM-centric policies and management.

Native Data Protection

SimpliVity includes native full backup/ recovery of VMs and replication of backups between hyperconverged infrastructure nodes in the federation to improve RPOs and RTOs.

Software-Centric Design

SimpliVity OmniStack is a software solution enabled to run on x86 systems that meet minimum requirements and is designed to be hypervisor agnostic.

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