

10 WAYS HYPERCONVERGED INFRASTRUCTURE SOLVES YOUR DATA CENTER CHALLENGES

Hyperconvergence brings simplicity to increasingly complex data centers. Hyperconverged solutions enable cloud-like economics and critical enterprise capabilities including: performance, data protection, data efficiency, and global unified management.

HOW DOES HYPERCONVERGENCE DELIVER THE BEST OF BOTH WORLDS?

ENTERPRISE CAPABILITIES



CLOUD-LIKE ECONOMICS



Providing performance, data protection, data efficiency, and global unified management



The economic and business agility of the cloud, whether on the premise or off, built on commodity x86 hardware

HYPERCONVERGENCE | TOP 10

1



SCALABILITY

Hyperconvergence is a scalable, modular, building block approach, enabling pay-as-you-grow

All components are combined in a single-shared resource pool across not just servers and storage, but the entire legacy stack

53% of IT professionals cite 'ease of scaling capacity and performance' as top selection criteria for infrastructure

2



PERFORMANCE

The data efficiency for the shared resource pool should not only eliminate redundancy to optimize capacity, but also eliminate unnecessary writes to HDD and reduce IOPS - improving performance

It should be designed to support the performance requirements of all enterprise applications

Improving 'ongoing performance issues' is a **top-10** driver for those seeking hyperconverged infrastructure

3



DATA PROTECTION

Backup, recovery, and off-site replication to support disaster recovery are integrated features

Data protection operates at the VM level, enabling RTOs and RPOs without any third-party hardware or software

The **#1 priority** for IT professionals in the next 12-18 months is to 'improve data backup, recovery, and disaster recovery'

4



GLOBAL UNIFIED MANAGEMENT

All data center resources are managed from a single pane of glass by a single admin

Hyperconvergence should take a VM-centric approach to policies and management, and leverage in-place management tools

Streamlining operational tasks is key since IT professionals spend **70%** of their time 'keeping the lights on,' which leaves only **30%** for innovative projects

5



DATA EFFICIENCY

Deduplication, compression, and optimization inline, in real-time, at inception, once and forever

Deduplication addresses another issue in today's modern data center: IOPS requirements have increased 10x in post-virtualization environments. Inline dedup eliminates IOs before they ever happen

Among both current and planned users of hyperconverged infrastructure, 'data efficiency via deduplication and compression' is a **top-10** selection criteria

6



VM-CENTRICITY AND MOBILITY

Hyperconvergence should enable one-click operations at the VM level, including backup, restore, and migrations

Hyperconvergence uses VMs as the basic building block for data management; no more need to manage LUNs, shares, or other storage mechanisms of the past

Policy management at the VM level and automation features to eliminate manual processes are **key considerations** in selecting infrastructure

7



LOWER TCO

Hyperconvergence provides 3x total TCO savings compared to legacy infrastructure across CAPEX and OPEX

Hyperconvergence matches low upfront capital investment with actual IT needs, enabling IT to scale to match business requirements

Reducing costs is the **#1 driver** for current users' adoption of hyperconverged infrastructure

8



OPERATIONAL EFFICIENCY

Hyperconvergence maximizes employee productivity by automating standard tasks

Hyperconvergence reduces OPEX, including maintenance, power/cooling, bandwidth, and labor

At **48%**, 'improving operational efficiency' is the **#1** expected benefit for those seeking hyperconvergence, and the **#2** benefit actually realized by users of hyperconverged infrastructure

9



ENHANCED AGILITY

Hyperconverged infrastructure allows IT to solve problems with the speed that the business requires

The ability to rapidly provision new infrastructure and deploy new workloads introduces operational efficiency and responsiveness

Agility is a key benefit: **31%** expect to reduce time and resources required for infrastructure tasks and integration; **28%** expect to accelerate deployment time; and **16%** expect to increase agility of VM provisioning with hyperconvergence

10



USE OF COMMODITY X86 HARDWARE

Hyperconverged infrastructure is built on commodity hardware; the intelligence resides in software

Hardware in software-defined data centers (SDDC) differs from hardware in legacy environments. Whereas legacy data centers have proprietary hardware, a SDDC relies on commodity hardware

A 'single vendor purchase and support model' ranked in the **top-10** for both those seeking and currently using hyperconverged infrastructure

FOR MORE ON HYPERCONVERGENCE,
DOWNLOAD THE FULL EBOOK "HYPERCONVERGED INFRASTRUCTURE FOR DUMMIES" AT
SIMPLIVITY.COM/DUMMIES