

Lenovo Client Virtualization Solutions for Scale Computing

End-user computing support and management can be one of the most time and resource intensive IT responsibilities in the modern digital age. As the world becomes ever more reliant on technology for innovation and productivity, information workers in all fields and industries find themselves using desktops, laptops, and various handheld computing systems to accomplish many of their tasks, often from remote locations or while mobile. Providing each worker with their own high-performing computing system can be costly and complex to manage. Virtual desktop infrastructure (VDI) provides an alternative that can be easier to manage, more secure, easier to protect from disaster, and more affordable. As with server virtualization, *desktop* virtualization can consolidate both the hardware and software into a single computing system for greater efficiency.

VDI for All

Together, Lenovo, Scale Computing and Leostream offer a simple, all-in-one VDI solution that provides rapid deployment, ease of management, and high availability. Scale Computing has streamlined VDI for small and medium-sized businesses, state and local government, manufacturing, education, and distributed enterprise for a target of 25-2000 user seats. Through our partnership, we are delivering a simpler and less costly--yet highly secure--solution as an alternative to the complex and expensive VDI solutions of the past.

Innovation in VDI Infrastructure

Complex infrastructure can make VDI inaccessible to many organizations due to over-burdened costs. Innovation in the form of easy-to-use hyperconverged infrastructure replaces both traditionally complex data center infrastructure and also fulfills the needs of edge computing for sites that reach beyond the centralized datacenter and even the cloud.

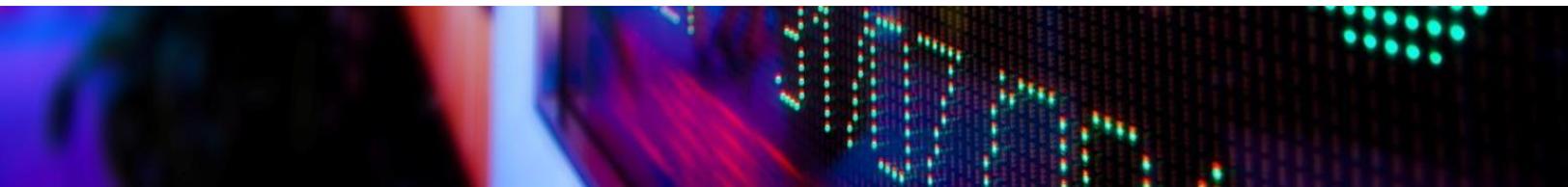
Rather than a mix of separate, multi-vendor devices, Scale Computing HC3 hyperconverged infrastructure is a complete "datacenter in a box" with servers, storage,

and virtualization integrated into a single appliance to deliver simplicity, availability, and scalability at a fraction of the cost.

Using patented HyperCore™ technology, the HC3 self-healing platform, driven by automation and machine intelligence, automatically identifies, mitigates, and corrects problems in the infrastructure in real-time, enabling applications to achieve maximum uptime even when local IT staff and resources are scarce. This innovation makes HC3 simple for IT to manage and administer.

Resource Efficiency

The HC3 platform is very resource efficient when it comes to system overhead compared to other hypervisor options. The primary reason is the storage architecture. HC3 uses a hypervisor-embedded storage architecture that, unlike most virtual storage systems, does not require a virtual storage appliance (VSA). VSAs are required to run as a virtual machine on each host server or cluster node in other virtualization solutions consuming 24 to 150 GB of RAM per node and multiple compute cores.



Key Benefits

Scale Computing is a leader in virtualization, hyperconverged solutions, and edge computing. The simplicity of the self-healing platform allows our customers to focus on other strategic projects rather than infrastructure maintenance. The benefits for VDI environments include easier deployment and management, easier ability to scale out, and easy to backup and recover data.

The heart of the HC3 platform is the HyperCore™ operating system which includes a fully integrated KVM-based hypervisor for virtualizing both Windows and Linux machines. Features such as Live VM Migration, High Availability, Snapshot Scheduling, and VM Backup and Quick Recovery make the HC3 virtualization platform an ideal alternative to traditional VDI software. With ScaleCare support you have a single vendor experience for essential service and support when you need it.

While Scale Computing and Lenovo provide all the necessary hardware and virtualization software, there is still the challenge of day-to-day provisioning, management, and user access of the VDI environment. That's where Leostream comes in. Leostream delivers the ability to manage virtual machines hosted on the Scale Computing HC3 virtualization platform. Leostream also makes it simple to provision pools of Windows and Linux desktops from a single master image designated in your Scale Computing environment. Leostream policies can be configured to manage a wide range of business use cases, including persistent or non-persistent desktops, shared or personal desktops, and everything in between.

Highlights:

- Rapid Deployment and easy to manage
- Single Vendor Support with ScaleCare
- Resource efficiency with just the right amount of IT staff, HW and SW

HC3 Solutions Infrastructure on Lenovo platforms

Scale Computing HC3 is certified on a number of Lenovo platforms. The HC3 series hyperconverged servers include compute, storage and virtualization typically sold in clusters of three or more to provide automatic failover and intelligent storage pooling.

Powered by Lenovo

Reference architectures exist for the following Lenovo ThinkSystem servers:

- [SR630](#) - A 1U, 2-socket server that provides extensive flexibility to fit almost any customer environment
- [SR650](#) - A 2U, 2-socket server that provides extensive flexibility, large memory, and vast storage capacity
- [SR250](#) - A 1U server for small and medium businesses needing optimized performance and flexibility for growth
- [ST250](#) - A 1U server for small and medium businesses needing optimized performance and flexibility for growth



For More Information

To learn more about Lenovo solutions for Scale Computing, contact your Lenovo sales representative or Business Partner or visit: www.lenovo.com/systems/solutions

Other Resources:

White Paper - [Introduction to Scale Computing HC3 Edge](#)

Data Sheet - [Future-Ready Store Infrastructure](#)

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