



HP Virtual Resource Pools: Key Enabler of Converged Infrastructure Architecture

To evolve to a next-generation data center and enable technology to be the driver for innovation in the business, a new approach for deploying servers, storage and networking needs to be adopted. One that does not create individual technology silos, but that integrates resources into a more flexible and responsive state.

[HP Virtual Resource Pools](#), a key enabler of HP Converged Infrastructure Architecture, are virtualized collections of shared server, storage and networking capacity that can be repurposed to meet any application demand faster. As a result, administrators can easily support changing business requirements faster and easier than ever before.

When chief information officers (CIOs) follow the blueprint for the data center laid out by the HP Converged Infrastructure Architecture, they enable a shared-services model of assets that maximizes resource utilization while increasing scalability, flexibility and efficiency of technology across their infrastructures. By dividing or aggregating individual systems to present a large pool of virtual resources, technology can now be called upon to meet the needs of the business dynamically, eliminating hours of administrator time and effort. This enables customers to leverage their technology infrastructure as a strategic asset for the business.

HP Converged Infrastructure calls for the end-to-end virtualization of resources in the data center and unification under common management. With HP Virtual Resource Pools, modular standards-based technology assets can be quickly assigned or repurposed to support any workload or application need from enterprise, to cloud and high performance computing applications.

HP Virtual Resource Pools enable customers to:

- Increase server, storage and networking utilization and repurpose underutilized capacity by allocating virtualized pools of these resources, when required.
- Rapidly respond to changing application or workload needs by virtualizing infrastructure connections, configurations and the unique identities of resources.
- Improve application uptime while increasing productivity with a common interface that automatically diagnoses and measures each resource's physical location, energy use, performance and health status.
- Scale as needed through modular designs built on open standards that quickly integrate with existing systems.

HP StorageWorks technologies provide dynamic capacity for Virtual Resource Pools

To realize the full benefits of a converged infrastructure, customers need storage solutions that accommodate data growth, are aligned to business applications and are built on open standards.

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Leveraging past innovations and new investments, HP StorageWorks enables customers to meet these requirements with a virtualized storage infrastructure that:

- Quickly meets application needs by allocating virtualized storage capacity.
- Reduces management complexities of explosive data growth through efficient data provisioning, data reduction and data placement.
- Responds quickly to changing business needs by freely moving massive data sets across the network.
- Enables customers to lower overall cost of ownership and better leverage investments toward innovation by moving storage onto more common platforms with servers.

HP offers three virtualized storage solutions that support adaptive resource pooling and a converged infrastructure:

HP StorageWorks X9000 Network Storage System family – Allows customers to efficiently manage large amounts of information and quickly respond to new business opportunities. Leveraging technology from the acquisition of IBRIX, the HP X9000 systems enables customers with data-intensive operations to virtualize stored files and create a single pool that is instantly accessible. Starting as low as \$1.50/gigabyte, the system offers an industry-leading 16-petabyte single namespace, or virtual file system capacity.

HP StorageWorks SAN Virtualization Services Platform (SVSP) v3.0 – Enables administrators to meet growing data requirements by doubling the capacity, scalability and performance over previous versions. Customers also can simplify management and increase efficiency with enhancements to the new Command View SVSP management interface. This new product also reduces setup time by up to 80 percent through the back-end logical unit number (LUN) provisioning service.⁽¹⁾ This feature automatically creates SVSP storage pools from capacity provisioned across multiple HP StorageWorks Enterprise Virtual Arrays (EVAs). Customers also can improve capacity utilization by up to 300 percent through the SVSP's ability to configure virtualized pools of storage and thin provisioning capacity.⁽²⁾

HP StorageWorks Cluster Extension EVA software integrated with Microsoft® Hyper-V Live Migration – Support for Microsoft Hyper-V Live Migration enables customers, for the first time, to easily protect data in virtual server and storage environments. This software integration allows customers to dynamically move both applications and storage across the data center to meet changing business demands while providing efficient disaster recovery.

More information about HP Virtual Resource Pools is available at www.hp.com/products/solutions/converged/virtual-resource-pools.html. More information about HP StorageWorks solutions is available at www.hp.com/StorageWorks. Follow us on Twitter at <http://twitter.com/HPStorageGuy>.

⁽¹⁾ Based on internal HP testing.

⁽²⁾ IDC White Paper sponsored by HP, "Business Value of Storage Virtualization: Scaling the Storage Solution; Leveraging the Storage Investment," Document No. 216719, February 2009.



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