

Brochure

Innovate to Drive Agility

HP CloudSystem optimized for VMware



Extending virtualization to the cloud

Simplify cloud adoption

HP CloudSystem unifies the control and delivery of cloud services with a secure, scalable cloud solution that includes:

- Intelligent automation to provision complex services in minutes from infrastructure-to-application
- Complete service lifecycle management from provisioning to monitoring to retirement
- Brokered service delivery across multiple clouds from a single, integrated point of control
- Multi-hypervisor, multi-OS, heterogeneous infrastructures
- Scalability and elasticity
- Pre-packaged service design tools

Across all industries, organizations have introduced virtualization into their IT environment as one of their key strategies to gain efficiency, primarily through reduced physical infrastructure and streamlined management. While significant, as benefits from virtualization alone begin to moderate, the pressure on managers throughout the organization to deliver more—more speed, greater cost savings, and increased flexibility—is increasing.

Cloud computing holds the promise of not only extending the benefits of virtualization, but, over time transforming the IT environment to become a key element of an organization's competitive advantage. HP, together with partners like VMware, has extended our portfolio of solutions that deliver the promise of cloud computing faster, more simply, and with reduced risk.

Delivering business agility

Enterprise customers around the world have selected market leader VMware to underpin their virtualized deployments of popular applications from companies like Microsoft and SAP. And, with more VMware software running on HP than any other platform, it's easy to see that together, we've earned our customer's trust. For over 10 years, HP and VMware have been working with customers to help them realize the primary benefits of virtualization: reduced costs, better service quality, and increased levels of IT responsiveness to the business.

However, as more workloads are virtualized, administration of the virtual environment can become less efficient, conflicting with the ever growing business demand for faster application deployment. Given that IT budgets continue to tighten, it's clear that a new approach is needed to deliver speed and flexibility, but with efficiency and consistently high service quality.

To meet these objectives, many organizations are implementing cloud computing solutions that provide features such as self-service, on-demand access to IT services, as well as automated resource provisioning. These features and others help deliver greater agility to the business. Based on HP CloudSystem and part of the HP Converged Cloud strategy, HP now offers HP CloudSystem optimized for VMware, as well as a set of complementary services and solutions, to help customers with their journey and take advantage of the business agility that cloud computing can provide.

Accelerate

- Innovation
- Agility
- Efficiency

Auto-flex technology for HP CloudSystem cuts administrative time to provision physical infrastructure into vCloud Director from 4 hours to as little as 15 minutes

HP CloudSystem: Simplified, integrated infrastructure

As part of HP Converged Cloud strategy, HP CloudSystem is the most complete, integrated, open platform to build and manage cloud services across private, public, and hybrid environments.

Based on proven, market leading HP Converged Infrastructure and Cloud Service Automation Software, HP CloudSystem integrates server, storage, networking, and software, together with security and management to automate the infrastructure-to-application lifecycle for hybrid service delivery. The result of this integration reduces the time to deploy, provision, and scale cloud infrastructure, delivering both agility and speed to your business.

HP CloudSystem is tailored for various stages of cloud maturity. HP CloudSystem Matrix delivers infrastructure as a service allowing users to provision physical and virtual resources in minutes. More advanced offerings such as HP CloudSystem Enterprise and HP CloudSystem Service Provider provide full lifecycle management to enterprises with self-service applications and facilitate service delivery for cloud service providers.

HP CloudSystem is optimized for HP Converged Infrastructure products and also supports third-party servers, storage, and networking, allowing you to protect your existing investment. Additionally, if you have already invested in HP Converged Infrastructure and HP Software technology, you can expand your current architectures to achieve a private, public, or complete hybrid cloud environment.

Extend the benefits of HP CloudSystem to VMware environments

Building on over 10 years of broad engineering cooperation resulting in the largest number of VMware certified server, storage, and networking platforms in the industry, HP now offers HP CloudSystem optimized for VMware for customers who have chosen to deploy VMware technologies as part of their cloud environment. Based on HP CloudSystem and VMware vCloud Director, this jointly engineered and integrated solution helps you to rapidly transform virtual resources into self-service private and hybrid cloud environments.

HP CloudSystem optimized for VMware provides:

- **Faster deployment and lower risk.** HP CloudSystem is purpose-built, integrating market-leading HP Converged Infrastructure and HP software with software from VMware.
- **Leverage of existing processes.** A cloud management architecture that leverages VMware vCloud Director delivers fast adoption.
- **Improved response time and increased ability to meet SLAs.** Auto-flex technology for HP CloudSystem provides automatic allocation of physical infrastructure to VMware vCloud Director. This capability cuts administrative time from 4 hours to as little as 15 minutes.
- **Simplified on-ramps to cloud.** Existing VMware virtual machines (VMs) can be imported without downtime or reconfiguration.
- **Increased utilization and return on investment.** Double the virtual machine density ensures that capacity is optimally utilized.
- **Reduced complexity and enhanced flexibility.** Reduced network complexity and support for flexible workload configurations.
- **Streamlined management.** Over 1400 data points per HP server are analyzed, with recommendations for action presented through VMware vCenter. HP storage is integrated with VMware vStorage, vCenter Server, and vSphere.



“HP cloud solutions provide the deep integration between hardware and software that enterprises require to deliver optimal cloud benefits. By working with partners like VMware, HP engineers have built multiple integration points into their solutions that reduce time to provision cloud infrastructure, resulting in lower costs and greater business agility.”

— Lynda Stadtmueller
Stratecast | Frost and Sullivan

Maximizing the value of Your HP and VMware Cloud Solution

HP offers a number of complementary solutions and services that can both extend the value and reduce the risk of your HP and VMware cloud technology investments, helping you to overcome common barriers to cloud adoption.

- **HP Cloud Maps for VMware** – Cloud Maps accelerate to less than 1 hour the design and deployment of cloud services in a repeatable, predictable way.
- **HP Cloud Protection Program** – A comprehensive security solution for VMware environments across network, server, and storage virtualization layers that can be designed and implemented in less than 3 weeks.
- **HP Data Protector** – Leveraging patented HP StoreOnce data deduplication technology, this is the only software in the market to provide integrated, automated protection for VMware vCloud Director, virtually eliminating the risk of data loss due to lack of data protection.
- **Integration of VMware vCenter Server with HP Insight Control** – Integration of both physical and virtual management into VMware vCenter Server through HP Insight Control
- **HP CloudSystem Services** – Based on decades of experience in the datacenter and supported by the strength of over 1100 HP VMware Certified Professionals, a complete suite of services are available to help you understand, implement, and manage the technology, people, and process elements of your individual cloud journey. These services span the lifecycle of assessment, planning, design, build, management, and evolution of your complete environment.

In summary

No matter where you are on your journey, HP provides you with a clear and complete path to the cloud. HP CloudSystem is a simplified, integrated solution that is easily managed and provides the flexibility critical to move between cloud models as your needs evolve. We've extended those capabilities for VMware environments through a purpose-built solution which includes integration with VMware vCloud Director as well as unique HP innovations such as auto-flex technology for elastic sharing of resources. Ultimately, the solutions and services from HP provide even greater speed and flexibility as you evolve from virtualization to the cloud.

Contact HP to learn more about HP CloudSystem optimized for VMware. You'll discover how we're delivering meaningful innovation that delivers the agility critical to the success of your business.

For more information about HP CloudSystem optimized for VMware, please visit hp.com/go/cloudsystem.

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