VMware vSphere

Standard Edition

AT A GLANCE

Designed for organizations that want to optimize existing IT assets and delay costly datacenter expansions, VMware® vSphere® Standard edition provides an entry-level solution for basic consolidation of applications to slash hardware costs while accelerating application deployment with no planned downtime.

KEY BENEFITS

- **Efficiency through utilization and automation** – Achieve consolidation ratios of 15:1 or more and improve hardware utilization from 5–15 percent to as much as 80 percent or more—without sacrificing performance.
- **Dramatically lower IT costs** – Reduce capital expenditures by up to 70 percent and operational expenditures by up to 30 percent to achieve 20–30 percent lower IT infrastructure costs for each application running on vSphere.
- **Agility with control** – Respond quickly to changing business needs without sacrificing security or control, and deliver zero-touch infrastructure with built-in availability, scalability and performance guarantees for all business-critical applications running on vSphere.
- **Freedom of choice** – Use a common, standards-based platform to leverage existing IT assets alongside next-generation IT services, and enhance vSphere through open APIs with solutions from a global ecosystem of leading technology providers.

What is VMware vSphere?

VMware vSphere is the industry-leading virtualization platform for building cloud infrastructures. It enables users to run business-critical applications with confidence and respond faster to business needs.

vSphere accelerates the shift to cloud computing for existing datacenters and also underpins compatible public cloud offerings, forming a foundation for the industry's only hybrid cloud model. With more than 250,000 customers worldwide and the support of more than 2,500 applications from more than 1,400 ISV partners, VMware vSphere is the trusted platform for any application.

How Is vSphere Used?

- **Consolidate and optimize IT hardware**—vSphere enables IT organizations to delay costly and disruptive datacenter expansion projects by making it possible to consolidate 15 or more virtual machines on a single physical server without sacrificing performance or throughput.
- **Improve business continuity**—vSphere helps organizations reduce the cost and complexity of business continuity and disaster recovery with always-on IT capabilities and layered protection against service outages and data loss.
- **Streamline IT operations**—vSphere lowers operational overhead and dramatically simplifies the management of large, geographically distributed development, quality assurance, and production IT environments.
- **Deliver IT as a service**—vSphere is the only virtualization platform that gives customers the power to realize the benefits of cloud computing while maintaining security, compliance and complete control over corporate assets.

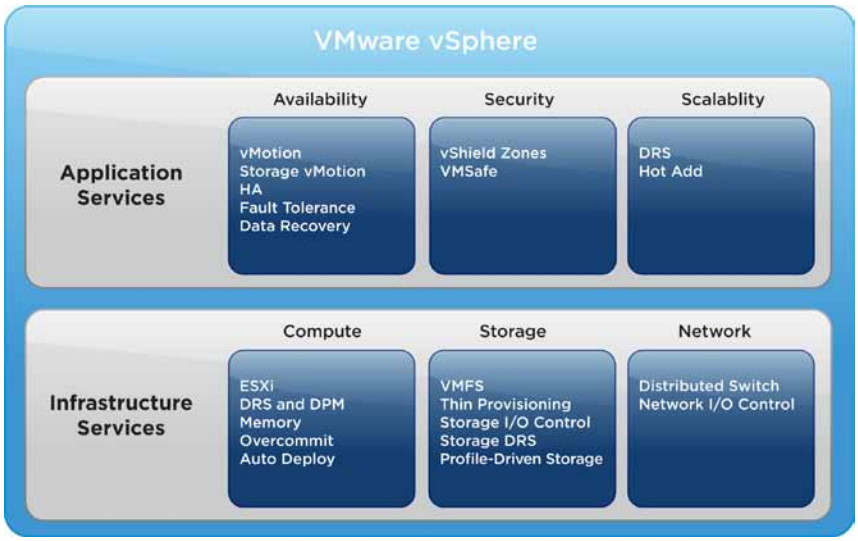
Key Features and Components

Infrastructure Services

- **VMware vSphere ESXi™ hypervisor architecture** provides a robust, production-proven, high-performance virtualization layer. It allows multiple virtual machines to share hardware resources with performance that can match (and in some cases exceed) native throughput.
- **vSphere Virtual Symmetric Multiprocessing (SMP)** enables the use of ultrapowerful virtual machines that possess up to eight virtual CPUs.
- **VMware virtual hardware** can support 1TB RAM, and a variety of next-generation hardware, such as 3D graphics processors and USB 3.0 devices.
- **vSphere Storage Virtual Machine File System (VMFS) 5** allows virtual machines to access shared storage devices (Fibre Channel, iSCSI, etc.) and is a key enabling technology for other VMware vSphere components, such as VMware vSphere Storage vMotion.
- **vSphere Storage APIs** provide integration with supported third-party data-protection solutions.
- **vSphere Storage Thin Provisioning** provides dynamic allocation of shared storage capacity, allowing IT organizations to implement a tiered storage strategy while reducing storage spending by up to 50 percent.

Application Services

- **VMware vSphere vMotion** enables live migration of virtual machines between servers with no disruption to users or loss of service, eliminating the need to schedule application downtime for server maintenance.
- **vSphere High Availability (HA)** provides cost-effective, automated restart within minutes for all applications in the event of hardware or operating-system failures.
- **Hot plug** enables virtual storage and network devices to be connected to or disconnected from virtual machines without disruption or downtime.
- **Hot extend** of virtual disks allows virtual storage to be added to running virtual machines without disruption or downtime.



VMware vSphere provides a complete virtualization platform with a comprehensive set of application and infrastructure services.

Management Services

- **VMware vCenter™ Agent** allows vSphere hosts to connect to VMware vCenter Server for centralized management of all host and virtual machines.
- **vSphere Update Manager** automates tracking, patching and updating for VMware vSphere hosts, as well as applications and operating systems running in VMware virtual machines.
- **VMware vCenter Converter** allows IT administrators to rapidly convert physical servers and third-party virtual machines into VMware virtual machines.
- **vSphere Web Client** enables IT administrators to manage the essential functions of VMware vSphere from any browser anywhere in the world.

Customer Success Stories

Campbell Clinic, one of the leading centers of orthopedic teaching and practice in the United States, uses vSphere to consolidate server hardware, reduce overhead and ensure high availability.

Read the Campbell Clinic success story:

http://www.vmware.com/go/customer_success/campbell_clinic

Financial Technologies India Ltd. (FTIL), owner and operator of 10 international financial exchanges in Africa, India, the Middle East and Southeast Asia, adopted vSphere to maximize its existing real estate and infrastructure, achieving 50:1 consolidation ratios while running SAP and Microsoft applications in production environments.

Read the FTIL success story:

http://www.vmware.com/go/customer_success/ftil

Marshall University, the oldest public institution of higher learning in West Virginia, has leveraged vSphere to extend the life of an overcrowded datacenter while reducing IT expenditures and accelerating server provisioning time.

Read the Marshall University success story:

http://www.vmware.com/go/customer_success/marshall_u

Southwestern/Great American, an employee-owned corporation founded in 1855, relies on vSphere to run a rock-solid SAP enterprise resource planning (ERP) infrastructure.

Read the Southwestern success story:

http://www.vmware.com/go/customer_success/southwestern_great_american

SonicWALL, a leader in unified threat management security, has virtualized 95 percent of its customer-facing applications with vSphere.

Read the SonicWALL success story:

http://www.vmware.com/go/customer_success/sonicwall

Additional vSphere Products and Add-ons

VMware vCenter Server—vCenter Server provides unified management for the entire virtual infrastructure and enables many key vSphere capabilities such as live migration. vCenter Server can manage thousands of virtual machines across multiple locations and streamlines administration with features such as rapid provisioning and automated policy enforcement.

NOTE: vCenter Server is a required element of a complete vSphere implementation and is licensed separately on a per-instance basis.

VMware Data Recovery provides simple, cost-effective, agentless backup and recovery for virtual machines in smaller environments.

Support and Professional Services

VMware offers global subscription and support (SnS) services to all VMware vSphere customers. For customers requiring additional services, VMware also offers professional services engagements on best practices and getting started with your vSphere deployment, both directly and through an extensive network of certified professionals.

http://www.vmware.com/services/

How to Buy

To purchase VMware vSphere, use the online VMware Partner Locator to find an authorized reseller in your area: http://partnerlocator.vmware.com/

You can also visit the online VMware Store to determine which kit or edition of vSphere is right for your organization: http://www.vmware.com/vmwarestore/datacenter-products/

If you are an existing VMware vSphere or VMware Infrastructure 3 customer, visit the vSphere Upgrade Center to determine the appropriate upgrade path for your organization: http://www.vmware.com/products/vsphere/upgrade-center/

For organizations that are new to virtualization, VMware offers solution bundles called vSphere Acceleration Kits that combine a VMware vSphere edition with VMware vCenter Server. They are available for up to 30 percent off the list price: http://www.vmware.com/vmwarestore/buyvsphere-acceleration-kits.html

Learn More

For information or to purchase VMware products, call 877-4- VMWARE (outside of North America dial 650-427-5000), visit http://www.vmware.com/products, or search online for an authorized reseller. For detailed specifications and systems requirements, refer to the VMware vSphere documentation

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