

VMware vSphere

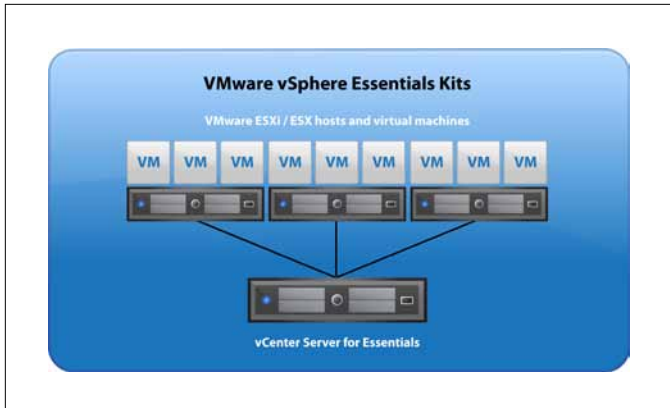
Essentials and Essentials Plus Kits

AT A GLANCE

Designed for IT environments with fewer than 20 server workloads, the VMware® vSphere® Essentials and Essentials Plus Kits deliver enterprise-class IT management with cost-effective server consolidation and business continuity for small organizations—with minimal investment. Use vSphere Essentials Plus with vSphere Storage Appliance software to get business continuity without shared storage hardware.

KEY BENEFITS

- Ensure business continuity and always-available IT.
- Simplify your IT environment.
- Reduce IT hardware and operating costs.
- Improve service levels and application quality.
- Strengthen security and data protection.



VMware vSphere Essentials enable you to virtualize and consolidate many application workloads onto three physical servers running vSphere and centrally manage them with VMware vCenter™ Server for Essentials.

What is VMware vSphere?

VMware vSphere is the industry's leading and most reliable virtualization platform. vSphere simplifies IT by separating applications and operating systems from the underlying hardware. Your existing applications see dedicated resources, but your servers can be managed as a pool of resources. The result is your business running on a simplified yet resilient IT environment.

What are vSphere Essentials and Essentials Plus?

vSphere Essentials and Essentials Plus are designed especially for small organizations just getting started with virtualization. Both provide virtualization and centralized management for up to three server hosts. vSphere Essentials provides server consolidation to help you get the most out of your hardware. Essentials Plus adds features such as vSphere Data Recovery for agent-less backup of your data and virtual machines. It also includes business-continuity features such as vSphere High Availability—for automatic restart of your applications when server failures are detected—and vSphere vMotion, to completely eliminate planned downtime for server maintenance. The result is an always-available IT environment that is more cost-effective, resilient and responsive to changing business needs. For scalable solutions with more-advanced capabilities, upgrade to vSphere Acceleration Kits.

Shared Storage Hardware Not Required

Introducing the vSphere Storage Appliance: The advanced features in vSphere Essentials Plus require shared storage capabilities. This used to mean having shared storage hardware in your environment—but no longer. Now you can turn your servers into shared storage. vSphere Storage Appliance is revolutionary software that delivers shared storage capabilities without the cost and complexity of shared storage hardware. You install it with a few mouse clicks and manage it with vCenter Server—perfect for any small or mid-sized business. Keep your keep IT simple while using the high-availability and automation features of vSphere.

How are vSphere Essentials and Essentials Plus Used?

- **Eliminate downtime and protect data** – Achieve always available IT with live migration for virtual machines and high availability for applications in virtual-machine clusters.

- **Consolidate and optimize IT investments** – Achieve consolidation ratios of 10:1 or higher, and improve hardware utilization from 5–15 percent to as much as 80 percent or more, without sacrificing application performance.
- **Maximize application availability and protect information assets** – Ensure always available continuity of IT operations with the rock-solid reliability of vSphere and integrated backup, recovery and failover features.
- **Simplify management and enhance productivity** – Provision new applications in minutes instead of days or weeks, monitor virtual machine performance, and automate patch and update management.
- **Streamline software development** – Safely test complex multitier configurations in a secure, isolated sandbox environment while allowing test and development teams to share server, network and storage infrastructure.

Key Features and Components

VMware vSphere Essentials and Essentials Plus include the following key features and components:

- **VMware ESXi hypervisor architecture** provides a robust, production-proven, high-performance virtualization layer that allows multiple virtual machines to share hardware resources with performance that can match and in some cases exceed native throughput.
- **VMware vCenter Server for Essentials** provides centralized management and performance monitoring for all virtual machines and vSphere hosts with built-in physical-to-virtual (P2V) machine conversion and rapid provisioning, using virtual-machine templates.
- **vSphere Virtual Symmetric Multiprocessing (SMP)** enables the use of ultra-powerful virtual machines that possess up to four virtual CPUs.
- **vSphere vStorage Virtual Machine File System (VMFS)** allows virtual machines to access shared storage devices (Fibre Channel, iSCSI, etc.), and is a key enabling technology for other vSphere components such as Storage vMotion.
- **vSphere vStorage 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.
- **vSphere vStorage APIs** provide integration with supported third-party data protection.
- **vCenter Update Manager** automates tracking, patching and updating for vSphere hosts as well as applications and operating systems running in VMware virtual machines.

- **vCenter Converter** allows IT administrators to rapidly convert physical servers and third-party virtual machines into VMware virtual machines.
- **vSphere VMsafe APIs** enable the use of security products that work in conjunction with the virtualization layer to provide higher levels of security to virtual machines than are possible even with physical servers.

- **Hardware** compatibility is possible with the broadest range of 32- and 64-bit servers and operating systems, storage and networking equipment, and enterprise management tools.

In addition, VMware vSphere Essentials Plus includes the following business-continuity features and components for always available IT:

- **vSphere vMotion** enables live migration of virtual machines across servers with no disruption to users or loss of service, eliminating the need to schedule application downtime for server maintenance.
- **vSphere High Availability** provides cost-effective, automated restart within minutes for all applications in the event of hardware or operating system failures.
- **vSphere Data Recovery** provides simple, cost-effective, agentless backup and recovery for virtual machines, in smaller environments.

How to Buy

Benefits	VMware Essentials	VMware Essentials Plus
1. Make better use of existing infrastructure	✓	✓
2. Save time in managing infrastructure with vCenter central management	✓	✓
3. Improve application availability with <ul style="list-style-type: none"> • vMotion (no planned downtime) • High Availability (Business continuity) 		✓
4. Protect business data with VMware Data Recovery		✓

Essentials Kits for Smaller Environments

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.

