

# VMware vSphere

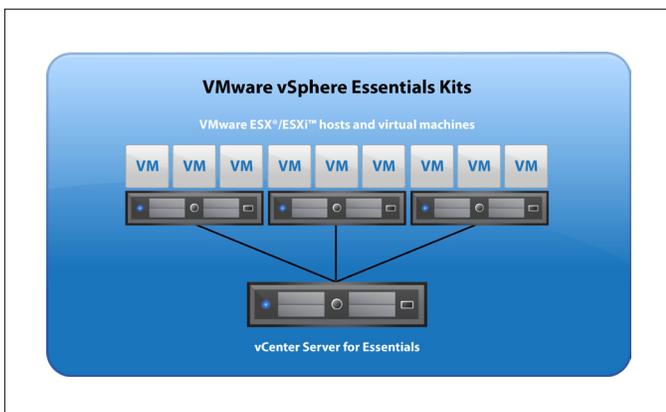
Essentials Kit and Essentials Plus Kit

## AT A GLANCE

VMware vSphere® Essentials Kit and Essentials Plus Kit deliver the industry-leading virtualization platform at an affordable price for IT environments that run 20 or fewer server workloads. With vSphere Essentials Plus Kit, a small business can leverage a comprehensive and cost-effective virtualization solution to protect its business, reduce its IT footprint and save on IT costs.

## KEY BENEFITS

- Provide business continuity and always-available IT
- Reduce IT footprint and simplify management
- Save on IT hardware costs
- Improve service levels and application quality
- Strengthen security and data protection



VMware vSphere Essentials Kit enables you to virtualize and consolidate multiple 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 (OSs) from the underlying hardware. Your existing applications see dedicated resources, but your servers can be managed as a pool of resources. The result is that your business runs on a simplified yet resilient IT environment.

## What Are vSphere Essentials Kit and Essentials Plus Kit?

vSphere Essentials Kit and Essentials Plus Kit are designed for small businesses that are getting started with virtualization. Both provide virtualization and centralized management for up to three server hosts. vSphere Essentials Kit provides server consolidation to help you get the most out of your hardware and reduce hardware costs.

vSphere Essentials Plus Kit provides business continuity with a smaller IT footprint, which reduces overall hardware costs. Small businesses can ensure business continuity without shared storage hardware by using features such as vSphere High Availability (automatic restart of applications when server failures are detected) and vSphere vMotion® (elimination of planned downtime during server maintenance). Protect your business applications and data with features such as VMware vSphere Data Protection™ (agentless backup and recovery of virtual machines) and VMware vShield Endpoint™ (agentless antivirus and antimalware protection for virtual machines). vSphere Replication adds low-cost replication for your virtual machines and provides a foundation for small businesses to leverage a cloud-based disaster-recovery solution from a VMware cloud service provider.

The result is an always-available IT environment that is more cost-effective, resilient and responsive to changing business needs. As small businesses grow and their needs increase, they can easily upgrade to vSphere with Operations Management Acceleration Kits for more-advanced capabilities.

## Smaller IT Footprint: Shared Storage Hardware Not Required

With vSphere Essentials Plus Kit, small businesses can use VMware vSphere Storage Appliance to transform their servers' internal storage into a single shared storage resource that enables continuous application availability. As a result, they can provide business continuity in a smaller footprint, without investing in additional shared-storage hardware. The resiliency of vSphere Storage Appliance eliminates any single point of failure within your IT environment. If a vSphere server within the vSphere Storage Appliance cluster goes down, your data will seamlessly fail over to another vSphere server in the cluster.

## How Are vSphere Essentials Kit and Essentials Plus Kit Used?

- **Maximize application availability and protect information assets** – Achieve always-available IT with live migration for virtual machines and high availability for applications in virtual-machine clusters. Protect your data with the reliability of vSphere and integrated backup, recovery and failover features.
- **Consolidate and optimize IT investments** – Achieve consolidation ratios of 10:1 or higher and improve hardware utilization from 5–15 percent to 80 percent or more without sacrificing application performance.
- **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 enabling test and development teams to share server, network and storage infrastructure.

## Key Features and Components

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

- **VMware ESXi™ hypervisor architecture** provides a robust, production-proven, high-performance virtualization layer that enables multiple virtual machines to share hardware resources with performance that can match or 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.
- **VMware vSphere Virtual Symmetric Multiprocessing** enables the use of ultrapowerful virtual machines that have up to four virtual CPUs.
- **VMware vSphere VMFS** enables virtual machines to access shared storage devices (Fibre Channel, iSCSI, etc.) and is a key enabling technology for other components such as VMware vSphere Storage vMotion®.
- **VMware vSphere Thin Provisioning** provides dynamic allocation of shared storage capacity, enabling IT organizations to implement a tiered storage strategy while reducing storage spending by up to 50 percent.
- **VMware vSphere vStorage APIs** provide integration with supported third-party data protection.
- **VMware vCenter Update Manager™** automates tracking, patching and updating for vSphere hosts and for applications and OSs running in VMware virtual machines.
- **VMware vCenter Converter™** enables IT administrators to rapidly convert physical servers and third-party virtual machines to VMware virtual machines.
- **VMware vCenter Operations Manager Foundation** enables you to leverage comprehensive views into health, risk and efficiency scores of your vSphere environment infrastructure. Quickly drill down to see what's causing current workload conditions, pinpoint potential problems in the future and identify areas with inefficient use of resources.
- **VMware 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 OSs, storage and networking equipment and enterprise management tools.

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

- **vSphere High Availability** provides cost-effective, automated restart within minutes for all applications in the event of hardware or OS failures.
- **vSphere vMotion** enables live migration of virtual machines across servers with no disruption to users or service loss, eliminating the need to schedule application downtime for server maintenance.
- **vSphere Data Protection** provides simple, cost-effective backup and recovery for virtual machines. It is a newly architected solution based on EMC Avamar technology that enables agentless backups with built-in deduplication.
- **vShield Endpoint** provides agentless antivirus and antimalware protection to secure your virtual machines.
- **vSphere Replication** provides low-cost replication for your virtual machine and serves as the foundation for leveraging a cloud-based disaster-recovery solution from a VMware cloud service provider.

**vSphere Storage Appliance** is available for purchase with vSphere Essentials Plus. vSphere Storage Appliance enables business-continuity features (vSphere High Availability and vMotion) by adding shared storage capabilities to servers.

## How to Buy

	VSPHERE ESSENTIALS KIT	VSPHERE ESSENTIALS PLUS KIT	VSPHERE ESSENTIALS PLUS WITH VSA
CapEx Savings	•	•	•
Business Continuity for planned and unplanned downtime vSphere vMotion and High Availability		•	•
Business Data Protection vSphere Data Protection, vShield Endpoint and vSphere Replication		•	•
Enables Business Continuity without Shared Hardware requirements vSphere Storage Appliance			•

## Learn More

For information or to purchase VMware products, call 877-4-VMWARE (outside North America, +1-650-427-5000), visit <http://www.vmware.com/products> or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the vSphere documentation.

