vmware®

VMware Virtual Infrastructure
Solutions for the Responsive Enterprise

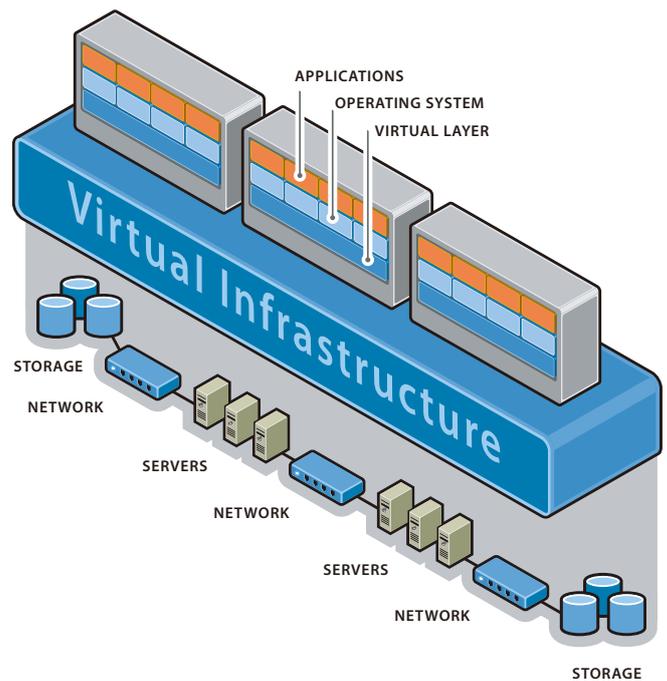**vm**ware
VIRTUAL PARTNER
N E T W O R K

Fast. Flexible. Connected. Changing the Way Your Data Center Conducts Business

What if you could snap your fingers and get the IT services you need right away? And pay only for what you use? VMware® VirtualCenter management software is designed to optimize your data center and pave the way for utility computing on x86–based servers. By providing the ability to view, manage, and quickly deploy enterprise-wide data center resources, VMware VirtualCenter enables IT administrators to respond to immediate business needs.

VMware VirtualCenter software helps administrators manage the many diverse components that make up a virtual infrastructure. VMware's virtual infrastructure approach to IT management creates virtual services out of the physical IT infrastructure, enabling administrators to allocate these virtual resources quickly to the business units that need them most. Administrators can use VMware VirtualCenter software to deploy or reallocate resources without all of the configuration changes normally needed in a physical environment. Having the right IT assets readily at hand can improve business performance and increase competitive advantage.
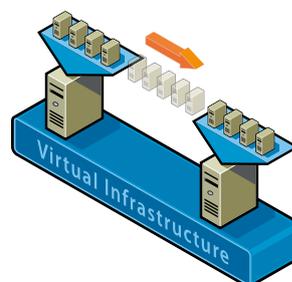
VMware VirtualCenter management software is the vehicle for delivering the business benefits of a virtual infrastructure, including:

- **Instant provisioning.** Reduce server provisioning time from weeks to minutes, allowing administrators to respond immediately to requests for IT services.

- **Zero-downtime maintenance.** Safeguard business continuity 24/7, without service interruptions for system maintenance, deployment, or migration.

- **Intelligent workload management.** Optimize utilization of data center resources to maintain service level agreements during peak loads.

VMware VirtualCenter manages a virtual infrastructure, including virtual machines running on VMware ESX Server, VMware GSX Server, virtual storage, and networking. It provides a central and secure point of control for hundreds of virtual resources.

VMware VirtualCenter Gives You Total Control over a Large-Scale Virtual Infrastructure

VMware VirtualCenter

Virtual Infrastructure Management

- Creates a central point of control by integrating virtual storage, virtual computing, virtual networks, and virtual user interfaces throughout the entire IT infrastructure

- Monitors systems availability and performance and creates a consistent management platform across diverse Linux®, Microsoft® Windows®, and Novell® environments

- Provides mainframe-class security, reliability, and scalability on Intel-based platforms, lowering the cost of computing

VMware VMotion™

Intelligent Workload Management

- Migrates a running virtual machine to a different physical server connected to the same storage area network (SAN) without service interruption

- Allows zero-downtime maintenance by moving servers around so that underlying hardware and storage can be serviced without disrupting user sessions

- Balances workloads across the data center to utilize resources most effectively in response to changing business demands

Server Consolidation

VMware VirtualCenter lets you consolidate applications and infrastructure services onto fewer servers, simplifying systems management and lowering total cost of ownership.
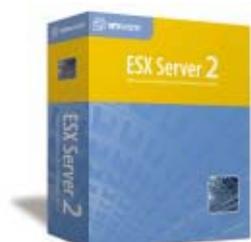
With VirtualCenter, you can:

- Reduce hardware costs as much as 80 percent by increasing server utilization

- Expand capacity to meet requirements quickly by adding applications to a server

- Capture the payback from server consolidation in less than six months based on reduced capital costs, lower operating expenses, and streamlined system administration

Business Continuity and Disaster Recovery

Using VMware VirtualCenter, administrators can leverage the power of a virtual infrastructure to improve business continuity. In addition, the provisioning and intelligent workload management capabilities of VMware VMotion enable a lower-cost, more flexible approach to disaster recovery. Because VMware software clones complete system images, including the operating system, administrators can recover or fail over to a new host server connected to the same SAN within minutes.

With VirtualCenter, you can:

- Repurpose hardware resources to critical business systems instantly using VMware VMotion intelligent workload management

- Recover from a site disaster where source machines and disks are unavailable, simply by copying a clone of the complete system image

- Automate cloning and deployment of critical systems to offices outside the disaster recovery area using VMware VirtualCenter management tools

VMware VirtualCenter Helps Make Your Business More Efficient

- **Exploit the power of the computing resources you have today**

- **Consolidate naturally as a continuous improvement process**

- **Build a framework for Intel processor–based utility computing**

- **Manage and track data center resources throughout your entire organization**

- **Streamline business-process integration with partners, customers, mergers, and acquisitions**

The VMware VirtualCenter Advantage

Consolidate diverse Intel-based environments, simplify systems management, upgrade anytime. VMware VirtualCenter gives IT administrators the flexibility to take advantage of the latest technology to meet changing business demands. By managing a virtual IT infrastructure using VMware VirtualCenter, you can transform the data center into a responsive business asset.

With VirtualCenter, you can:

- Deploy IT assets immediately to the business units that need them most

- Scale servers to flex with business-critical applications on the fly

- Increase disk space and network bandwidth without disrupting operations

- Present virtual IT services transparently, as if they were dedicated to users

Virtual Infrastructure Building Blocks

To operate a virtual infrastructure, you need development tools, a platform, and a consistent way to manage that platform. VMware products provide all three to accomplish that goal:

- **vManage** provides a central control point for the virtual infrastructure. Components include VMware VirtualCenter and VMware VMotion.

- **vPlatform** provides compute virtualization, creating a uniform platform that frees software from hardware dependencies. Components include VMware ESX Server™, VMware GSX Server™, and VMware Workstation.

- **vTools** help you migrate existing servers to and from the virtual infrastructure over your existing SAN. Components include VMware P2V (physical-to-virtual) Assistant and VMware software development kits.

Customers Confirm Benefits of VMware Virtual Infrastructure Management Software

"I expect that VMware VirtualCenterill raise my server utilization rates to 80 percent and give me the ability to allocate exactly the resources needed by each user or piece of software. I can leverage the resources I have, and I don't have to overbuy hardware capacity to ensure peak demands will be met."

Global Chief Technology Officer
Major Financial Services Organization

"Using VMware software, we gained efficiencies on many levels, such as optimizing the utilization of hardware resources, consolidating server platforms, and establishing more effective platforms for testing and business continuity/disaster recovery."

Warren Jones
Vice President of IT Operations, Guardian Life Insurance

"VMware's virtual infrastructure management software was the best mechanism for rapid distribution and deployment of servers across six data centers worldwide."

Chuck Zlamal
Senior Administrator, Conseco

"The Coleman Company's evaluation of VMware VirtualCenter has shown that it truly is possible to improve on an already powerful product such as VMware ESX Server 2With the ability to use VMotion technology to migrate virtual machines between hosts, centrally manage all of our virtual resources from a single location, and gather systems availability and performance data within seconds, VirtualCenter provides the next level of operation and management for Coleman's virtual infrastructure."

Shawn Kaiser
Network Engineer, The Coleman Company, Inc.

"VMware VirtualCenter is one of the few tools in my solution stack that actually performs as the vendor promised. VirtualCenter combined with ESX Server and VMotion technology is the first set of products I've seen that allows me to easily manage workloads across multiple systems without requiring a major investment in staff or training."

Eric Kuzmack, IT Architect
Gannett Co., Inc.

Learn More

The VMware sales team can help your IT organization determine how VMware software can achieve your business goals. VMware will work with you to design and implement specific success criteria so you can evaluate our management software effectively. Visit us on the Web at www.vmware.com, email us at sales@vmware.com, or call us at 877-4VMWARE to get started.

VMware professional services can deliver deployment and implementation of key virtual infrastructure services, including customization, rapid cut-over, and best-practices consulting. In addition, VMware has strong partnerships with OEM vendors including Dell, Fujitsu Siemens, HP, IBM, and NEC; software vendors including BMC Software, Citrix, Computer Associates, Novell, Oracle, Red Hat, SuSE, and VERITAS; and consulting organizations such as IBM Global Services and HP Services.