

VMware Server

Free Virtualization for Windows and Linux Servers

What Is VMware Server?

VMware[®] Server is a free virtualization product for Windows and Linux servers. It enables companies to partition a physical server into multiple virtual machines and to start experiencing the benefits of virtualization. VMware Server is a robust yet easy to use product for users new to server virtualization technology and is based on VMware's proven technology, which has been used by thousands of customer for more than six years.

What Is a Virtual Machine?

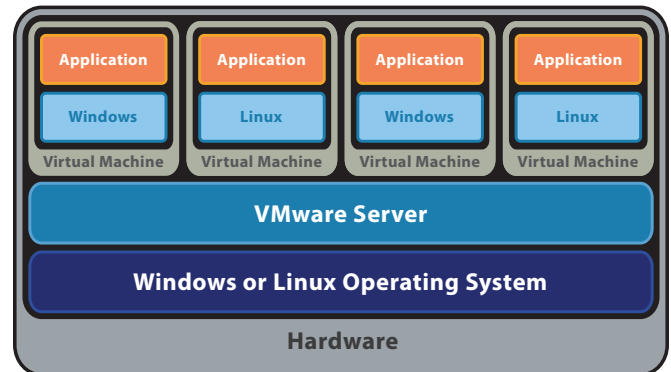
A virtual machine is like a server, but instead of electronics, it's software. A virtual machine runs operating systems and applications just like a physical server. However, they offer users many advantages over physical servers. Virtual machines:

- Run on any x86 physical server.
- Access all physical host hardware resources such as CPU, memory, disk, networking and peripherals.
- Can be provisioned and moved quickly.
- Are completely isolated and secure.
- Can run simultaneously and safely on the same physical server.
- Are portable, so full systems including virtual hardware, operating systems and fully configured applications can be easily moved from one physical server to another, even while in operation.
- Can be built and distributed as plug-and-play virtual appliances that contain the entire stack of virtual hardware, operating system and fully configured software applications.

How Does VMware Server Work?

VMware server installs and runs as an application on top of a host Windows or Linux operating system. A thin virtualization layer **partitions** the physical server so multiple virtual machines can be co-located on a single server.

Existing applications can run alongside virtual machines on the host server. Computing resources of the physical server are treated as a uniform pool of resources that can be allocated to virtual machines in a controlled manner.



VMware Server partitions a physical server into multiple virtual machines.

VMware Server **isolates** each virtual machine from its host and other virtual machines, leaving them unaffected if the virtual machine crashes. Data does not leak across virtual machines and applications can only communicate over configured network connections. VMware Server **encapsulates** a virtual machine environment as a file, which is easy to back-up, move and copy.

What Are the Benefits of VMware Server?

By creating and running virtual machines with VMware Server, users can:

- Provision additional servers in minutes without investing in new hardware.
- Run Windows and Linux operating systems and applications on the same physical server.
- Increase the utilization of a physical server.
- Move virtual machines from one physical server to another without re-configuration.

"Offering VMware Server for free will bring VMware's proven virtualization technology to a wider audience, allowing companies to achieve the benefits of virtualization, such as cost reductions and flexible server provisioning."

Craig Liess
Server Administrator, Central Transport

How Can I Use VMware Server?

With VMware Server you can:

- Streamline software development and testing by allowing developers to create multiple environments with different operating systems on the same server.
- Evaluate software in ready-to-run virtual machines without installation and configuration.
- Re-host legacy operating systems such as Windows NT Server 4.0 and Windows 2000 Server in a virtual machine running on new hardware and operating system.
- Simplify server provisioning by building a virtual machine once and deploying it multiple times.
- Leverage pre-built, ready-to-run virtual appliances that include virtual hardware, operating system and application environments. Virtual appliances for Web, file, print, DNS, email, proxy and other infrastructure services are available for download on VMware's Virtual Machine Center at www.vmware.com/vmtrn/vm.

Get VMware Server Now.

VMware Server is available for immediate download at www.vmware.com/download/server.

KEY FEATURES

- Installs like an application and runs on any standard x86 hardware
- Support for Intel® Virtualization Technology
- Support for 64-bit guest operating systems
- Support for two-way Virtual SMP
- Runs on a wider variety of Windows and Linux host and guest operating systems than any server virtualization product on the market
- Support for any Windows or Linux application, including pre-built virtual appliances from VMware Technology Network (VMTN)
- Quick and easy, wizard-driven installation similar to any desktop software
- Quick and easy, wizard-driven virtual machine creation
- Virtual machine monitoring and management with an intuitive, user friendly remote console
- Support for any VMware or Microsoft virtual machine format and Symantec LiveState Recovery images (with VM Importer)
- Easy upgrade path to VMware ESX Server and other production-proven VMware products

SPECIFICATIONS

Each virtual machine provides a platform that includes:

Processor

- Intel® Pentium® II or later, or AMD Athlon or later, depending on host processor; Intel EMT64T VT (experimental support)
- Single and multiprocessors per virtual machine with Virtual SMP capabilities

Memory

- Up to 3.6GB per virtual machine

IDE Drives

- Up to four devices (including disks, CD-ROM, or DVD-ROM)
- Physical disk devices or file system-based virtual disks up to 128GB
- CD-ROM can be a physical device or an ISO image file

SCSI Devices

- Up to 21 devices (including disks, CD-ROM or DVD-ROM) on 3 virtual SCSI controllers
- SCSI virtual disks up to 256GB
- LSI Logic Ultra160 or Mylex® (BusLogic) BT-958 compatible host bus adapter
- Generic SCSI device support

Graphics

- VGA and SVGA support

Floppy Drives

- Up to two 1.44MB floppy devices
- Floppy drives can be physical drives or floppy images

Serial (COM) Ports

- Up to four serial (COM) ports
- Output to serial ports, named pipes, or files

USB Ports

- Two-port USB 1.1 UHCI controller
- Supports devices including USB printers, scanners, PDAs, hard disk drives, memory card readers and still digital cameras

Printer, Keyboard and Mouse

- Up to two bi-directional printer (LPT) ports
- Output to printer ports or host files
- 104-key Windows enhanced keyboard
- PS/2 mouse

BIOS

- PhoenixBIOS™ 4.0 Release 6-based BIOS
- DMI/SMBIOS compliant for system management agent support

Ethernet Card

- Up to four virtual Ethernet cards
- AMD® PCnet™-PCI II compatible
- PXE ROM version 2.0

- Wireless networking supported with bridged and NAT networking

Virtual Networking and File Sharing

- Nine virtual Ethernet switches (three reserved for bridged, host-only and NAT networking)
- Virtual Ethernet support includes TCP/IP, NetBEUI, Microsoft Networking, Samba, Novell® NetWare® and Network File System
- Built-in NAT supports client software using TCP/IP, FTP, DNS, HTTP and Telnet

Guest Operating Systems

- Windows Server 2003 Web, Standard, and Enterprise Editions
- Windows Server 2003 Small Business Server
- Windows 2000 Professional; Windows 2000 Server and Windows 2000 Advanced Server
- Windows NT Workstation 4.0 and Windows NT Server 4.0
- Windows XP Professional and Windows XP Home Edition
- Windows Me
- Windows 98 and Windows 98 SE
- Windows 95 (all OSR releases)
- Windows 3.1, MS-DOS 6
- Novell NetWare 4.2, 5.1, 6.0 and 6.5
- Red Hat Enterprise Linux 2.1, 3 and 4 (AS, ES and WS)

- Red Hat Linux
- SUSE Linux Enterprise Server 7, 8 and 9
- SUSE Linux
- Turbolinux
- Mandriva Linux
- FreeBSD
- Ubuntu
- Sun Solaris x86 9, 10
- 64-bit Operating Systems: Windows Server 2003 x64 Edition; Windows XP Professional x64 Edition; Windows Vista x64 Edition (experimental); Redhat Enterprise Linux 3, 4; SUSE Linux Enterprise Server 9; SUSE Linux 10; SUSE Linux Pro; Ubuntu 5.10, 5.04 (experimental); Solaris 10 (experimental)

SYSTEM REQUIREMENTS

Host Operating Systems

- Runs on Microsoft Windows 2000 Server and Advanced Server; Windows Server 2003, Web, Standard, Enterprise and x64 Editions, and Linux server host OSes

Go to: www.vmware.com/support/pubs/server_pubs.html for a full list of supported devices