



VMware Player

Using VMware Player

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Work and Play in a Virtual World

VMware® Player makes it easier than ever to take advantage of the security, flexibility, and portability of virtual machines. VMware Player is the only solution on the market that lets you run virtual machines without investing in virtualization software.

What Is VMware Player?

VMware Player is a free desktop application that lets you run a virtual machine on a Windows or Linux PC.

VMware Player provides an intuitive user interface for running preconfigured virtual machines created with VMware Workstation, GSX Server, and ESX Server. VMware Player includes features that let you configure virtual machines for optimal performance and take advantage of host machine devices. On Windows hosts, VMware Player also opens and runs Microsoft® Virtual PC and Virtual Server virtual machines and Symantec® LiveState Recovery system images. VMware Player makes your VMware virtual machines accessible to colleagues, partners, customers, and clients who do not own VMware products. By downloading VMware Player, anyone can open and run compatible virtual machines.

VMware Player is available as a free download for both Windows and Linux PCs.

Note: Use of VMware Player is subject to the VMware Player end user license terms, and VMware provides no support for VMware Player. For self-help resources, see the VMware Player FAQ at

www.vmware.com/products/player/faqs.html. You might also want to check the VMware Player Discussion Forum on the VMware VMTN Web site, at

www.vmware.com/community/forum.jspa?forumID=123. The forum is a site where VMTN members can exchange information, questions, and comments with each other regarding VMware products, services, and product support issues.



Downloading VMware Player and Virtual Machines

You can download VMware Player from the VMware Web site at www.vmware.com/download/player/. See [Installing VMware Player on page 4](#).

You can download a virtual machine to use with VMware Player at www.vmware.com/vmtn/vm/.

What You Can Do with VMware Player

VMware Player gives software developers and vendors great flexibility in marketing and distributing products. You can package complex, sophisticated applications, complete with a full working environment, in a virtual machine that can be used by anyone who downloads VMware Player.

With VMware Player, you can:

- **Collaborate with colleagues**—Download VMware Player to run any virtual machine. VMware Player makes it easy for support, development, and QA to share customer scenarios.
- **Transform software distribution**—Simplify software distribution by shipping preconfigured software in virtual machines. End users can experience the benefits of your products immediately, without setup hassles. VMware Player is ideal for shipping evaluation copies or beta software.
- **Evaluate prebuilt applications easily**—Download and safely run prebuilt application environments in virtual machines that are available from the growing library of virtual machines in the VMTN Virtual Machine Center at www.vmware.com/vmtn/vm/.

This library includes virtual machines from various software vendors, as well as virtual machines that are preconfigured with popular open source software. With VMware Player you can easily get started with applications from leading software vendors, including Oracle, Red Hat, Novell, BEA, SpikeSource, IBM, and MySQL.

Key Features

VMware Player combines powerful virtualization features into an application with an intuitive interface:

- **Virtual machine isolation**—Safely run virtual machines isolated from the host PC by making use of the hardware-level security and fault isolation of virtualization solutions.
- **Access to host PC devices**—Use CD/DVD drives, network adapters, and plug-and-play USB devices.
- **Copy and paste**—Copy text and files between the virtual machine and the host quickly and easily.
- **Adjustable memory**—Tune virtual machine memory for optimal performance.
- **Powerful networking capabilities**—Let the virtual machine share or obtain its own IP address or isolate it from the network and host.
- **Configurable shutdown**—Power off or suspend the virtual machine when exiting VMware Player.



Host System Requirements for VMware Player

The minimum host system requirements for installing and using VMware Player are:

- Processor speed—400MHz or faster (500MHz or faster recommended).
- Memory—128MB minimum, 256MB recommended. You must have enough memory to run the host operating system, plus the memory required for each guest operating system and for applications on the host and guest. See your guest operating system and application documentation for their memory requirements.
- Hard disk—At least 1GB free disk space for each guest operating system. For installation, VMware Player requires approximately 150MB.

Compatible Virtual Machines and System Images

The following virtual machines and system images are compatible with VMware Player.

VMware Virtual Machines

VMware Player runs virtual machines created in VMware Workstation 4 and higher, GSX Server 3.x, VMware Server, and ESX Server 2.x and higher. You must upgrade virtual machines created in versions before Workstation 4 to run them in VMware Player. Workstation 4 virtual machines are run in legacy mode.

Microsoft Virtual PC and Virtual Server Virtual Machines (Windows Hosts Only)

On Windows hosts, VMware Player can run Microsoft Virtual PC and Virtual Server virtual machines. When you open a Virtual PC virtual machine in VMware Player, it automatically creates a VMware-compatible configuration file (.vmtx), and preserves the original Virtual PC (.vmc) configuration file. You can save the VMware-compatible virtual machine.

Symantec LiveState Recovery System Images (Windows Hosts Only)

On Windows hosts, VMware Player can run system images created with Symantec LiveState Recovery. When you open a LiveState Recovery system image in VMware Player, it automatically creates a VMware-compatible configuration file (.vmtx), and preserves the original LiveState Recovery system image file (.sv2i). You can save the VMware-compatible virtual machine.

Virtual SMP

VMware Player does not support Virtual SMP™. You cannot use VMware Player to power on a virtual machine that has more than one virtual processor assigned.



Options and Features in VMware Player

VMware Player is primarily a vehicle for playing virtual machines, and does not contain the full feature set found in other VMware products.

VMware Player does provide the following features:

- You can connect and disconnect any preconfigured devices in the virtual machine.
- You can change the amount of memory allocated to the virtual machine.
- You can set the type of network connection for the virtual machine: bridged, host-only, or NAT.
- You can copy and paste from the virtual machine to the host and vice versa. To use this feature, you must have VMware Tools installed.
- You can drag files between a Windows host and a Windows virtual machine, if the virtual machine was configured with this feature. To use the drag-and-drop feature, you must have VMware Tools installed.
- Virtual machines can be preconfigured to revert automatically to a snapshot of a particular virtual machine state when you power off. This is useful, for example, in a demo that resets itself to a clean state when powered off.
- You can set preferences for how commands are displayed in the VMware Player interface and for how VMware Player closes a virtual machine (by powering it off or by suspending it) when you exit VMware Player.

For instructions on using these features, see the help provided in VMware Player (Choose **Player > Help**).

Note: VMware Player can run only one virtual machine at a time. You must close the virtual machine currently running in VMware Player before you can open another virtual machine.

Installing VMware Player

The following sections give instructions for installing VMware Player.

To install VMware Player on a Windows host

1. Download VMware Player from the VMware Web site at www.vmware.com/download/player/. Right-click the appropriate download link for your host machine (Windows or Linux) and save the application to the hard drive of your host machine.

If you are installing VMware Player from a CD and your host machine has autorun enabled, installation instructions are displayed when you load the CD in your CD-ROM drive.
2. If your host machine does not have autorun enabled, copy the file `VMware-player.exe` from the `Windows` directory on the CD to the hard drive of the host machine.



To install VMware Player on a Linux host

The steps below describe an installation from a CD-ROM disc. If you downloaded the software, the steps are the same except that you start from the directory where you saved the installer file you downloaded, not from the `Linux` directory on the CD.

1. Log on to your Linux host with the user name you plan to use when running VMware Player.
2. In a terminal window, become root so you can perform the initial installation steps.
`su -`
3. Mount the VMware Player CD-ROM.
4. Change to the `Linux` directory on the CD.
5. To use the RPM installer, skip to step 6. To use the tar installer, take the following steps:
 - Note:** You can skip the steps for copying and unpacking the archive and install directly from the `vmware-player-distrib` directory on the CD.
 - a. Copy the tar archive to a temporary directory on your hard drive — for example, `/tmp`.
`cp VMware-<xxxx>.tar.gz /tmp`
 - b. Change to the directory to which you copied the file.
`cd /tmp`
 - c. Unpack the archive.
`tar zxf VMware-<xxxx>.tar.gz`
 - d. Change to the installation directory.
`cd vmware-player-distrib`
 - e. Run the installation program.
`./vmware-install.pl`
 - f. Accept the default directories for the binary files, library files, manual files, documentation files and init script.
 - g. Answer Yes when prompted to run `vmware-config.pl`.
Skip to step 7.
6. To use the RPM installer:
 - a. Run RPM specifying the installation file.
`rpm -Uhv VMware-<xxxx>.rpm`
`VMware-<xxxx>.rpm` is the installation file on the CD-ROM. In place of `<xxxx>`, the filename contains numbers that correspond to the version and build.
 - b. Run the configuration program from the command line.
`vmware-config.pl`
7. Press Enter to read the end user license agreement (EULA). You can page through the EULA faster by pressing the spacebar. If the `Do you accept` prompt doesn't appear, press Q to get to the next prompt.
8. Accept the default values for the remaining prompts.
 - Note:** If you do not enable host-only networking when you install VMware Player, you cannot allow a virtual machine to use both bridged and host-only networking.



The configuration program displays a message saying the configuration completed successfully.

9. If you do not see the configuration complete message, run the configuration program again.
10. When you are done, exit from the root account.
`exit`

Configuring the Installation with `vmware-config.pl`

Use `vmware-config.pl` to configure your installation of VMware Player.

Note: If you run the RPM installer, you must run this program separately from the command line. If you install from the tar archive, the installer offers to launch the configuration program for you. Answer Yes when you see the prompt.

Required Configuration Changes

Configuration with `vmware-config.pl` is required in the following circumstances:

- When you install VMware Player the first time.
- When you upgrade your version of VMware Player.
- When you upgrade your host operating system kernel. (It is not necessary to reinstall VMware Player after you upgrade your kernel.)

Location of `vmware-config.pl`

The installer places `vmware-config.pl` in `/usr/bin`. If `/usr/bin` is not in your default path, run the program with the following command:

```
/usr/bin/vmware-config.pl
```

Running VMware Player

The following sections give instructions for running VMware Player.

To start VMware Player

1. To open VMware Player:
 - Choose **VMware Player** from the **Start > Programs** menu in Windows, or from the corresponding program menu in a Linux X windows session.
 - From a command line, type:
 - In Windows, enter `<path>vmpayer.exe`
 - In Linux, enter `<path>vmpayer`
 where `<path>` is the appropriate path on your system to the application file.

A dialog box is displayed.
2. Enter or browse for the configuration file of the virtual machine you want to play. Use the field **Files of type** to filter the files that are displayed when you browse.

VMware Player can open `.vmx` files, `.vmc` files, and `.sv2i` files.
3. When you have entered or selected a virtual machine configuration file, click **Open**.

VMware Player automatically opens the virtual machine and powers it on.

You can also open a virtual machine by right-clicking its configuration file to display a context menu from which you can open the virtual machine in VMware Player.



Setting Preferences and Options in VMware Player

For instructions on configuring VMware Player, see the online help provided in VMware Player (**Player > Help**). You can set a number of preferences and options, as described in [Options and Features in VMware Player on page 4](#).

To close VMware Player

Take one of the following actions:

- Shut down the guest operating system in the virtual machine.
VMware Player closes automatically after the guest operating system shuts down.
- In VMware Player, choose **Player > Exit** (Windows) or **Player > Quit** (Linux).
VMware Player either suspends or powers off the virtual machine, depending on the preference you have set for exit behavior in **Player > Preferences**.

Uninstalling VMware Player

The following sections give instructions for uninstalling VMware Player on Windows and Linux hosts.

To uninstall VMware Player on a Windows host

1. In the Windows Control Panel, open Add or Remove Programs.
2. In the Add or Remove Programs window, select VMware Player and click Remove. Follow the onscreen instructions.

To uninstall an RPM installation of VMware Player on a Linux host

If you used the RPM installer to install VMware Player, remove the software from your system by entering

```
rpm -e VMware<XXXX>
```

where **<xxxx>** is a series of numbers representing the version and build. If you have VMware Player properly installed, you can find the VMware Player build number by entering

```
rpm -qa | grep VM
```

To uninstall a tar installation of VMware Player on a Linux host

If you used the tar installer to install VMware Player, remove the software from your system by entering

```
vmware-uninstall.pl
```



Supported Host and Guest Operating Systems for VMware Player

As newer Linux kernels and distributions are released, VMware modifies and tests its products for stability and reliability on those host platforms. VMware makes every effort to add support for new kernels and distributions in a timely manner. Until a kernel or distribution is added to the list below, its use with VMware products is not supported. Look for newer prebuilt modules in the download area of the VMware Web site. Go to www.vmware.com/download/.

For the most recent list of supported host operating systems, see the Guest Operating System Installation Guide at <http://pubs.vmware.com/guestnotes>.

Supported Host Operating Systems

VMware Player is available for both Windows and Linux host operating systems.

Windows Host Operating Systems (32-Bit)

Workstation supports the following Windows 32-bit host operating systems.

- Windows Server 2003 Standard Edition, SP1
Windows Server 2003 Web Edition, SP1
Windows Server 2003 Small Business Edition, SP1
Windows Server 2003 Enterprise Edition, SP1
Windows Server 2003 R2
(Listed versions are also supported with no service pack.)
- Windows XP Home Edition, SP1, SP2
Windows XP Professional, SP1, SP2
(Listed versions are also supported with no service pack.)
- Windows 2000 Server SP3, SP4
Windows 2000 Professional, SP3, SP4
Windows 2000 Advanced Server, SP3, SP4

Windows Host Operating Systems (64-Bit)

- Windows Server 2003 x64 Edition SP1
Windows Server 2003 x64 Edition R2
- Windows XP Professional x64 Edition

Internet Explorer 4.0 or higher is required for the Windows online help system.



Linux Host Operating Systems (32-Bit)

- Mandriva Corporate Server 4
Mandriva Linux 2007 (experimental support)
Mandriva Linux 2006
Mandrake Linux 10.1
Mandrake Linux 9.0 — stock 2.4.19
- Red Hat Enterprise Linux 5.0, AS, ES, WS (experimental support)
Red Hat Enterprise Linux 4.0, AS, ES, WS, updates 1, 2, 3, 4
Red Hat Enterprise Linux 3.0, AS, ES, WS, updates 1, 2, 3, 4, 5, 6, 7, 8
Red Hat Enterprise Linux 2.1 — stock 2.4.9-e3

Red Hat Linux 9.0 — stock 2.4.20-8, upgrade 2.4.20-20.9
Red Hat Linux 8.0 — stock 2.4.18
Red Hat Linux 7.3 — stock 2.4.18
Red Hat Linux 7.2 — stock 2.4.7-10, upgrade 2.4.9-7, upgrade 2.4.9-13, upgrade 2.4.9-21, upgrade 2.4.9-31
Red Hat Linux 7.1 — stock 2.4.2-2, upgrade 2.4.3-12
Red Hat Linux 7.0 — stock 2.2.16-22, upgrade 2.2.17-14
- SUSE Linux Enterprise Server 10
SUSE Linux Enterprise Server 9, 9 SP1, 9 SP2, 9 SP3 — stock 2.6.5-797
(Listed versions are also supported with no service pack.)
SUSE Linux Enterprise Server 8, stock 2.4.19

SUSE Linux 10.1
SUSE Linux 10 — stock 2.6.13
SUSE Linux 9.3 — stock 9.3-2.6.11.4
SUSE Linux 9.2, SP1 — stock 9.2-2.6.8-24.11 (Listed versions are also supported with no service pack.)
SUSE Linux 9.1 — stock 2.6.4-52
SUSE Linux 9.0 — stock 2.4.21-99
SUSE Linux 8.2 — stock 2.4.20
- Ubuntu Linux 6.10 (experimental support)
Ubuntu Linux 6.06
Ubuntu Linux 5.10
Ubuntu Linux 5.04

Platforms not listed above are not supported. A Web browser is required to view the VMware Player Help on Windows hosts.

**Linux Host Operating Systems (64-Bit)**

- Mandriva Corporate Server 4
Mandriva Linux 2007 (experimental support)
Mandriva Linux 2006
- Red Hat Enterprise Linux 5.0, AS, ES, WS (experimental support)
Red Hat Enterprise Linux 4.0, AS, ES, WS, updates 1, 2, 3, 4
Red Hat Enterprise Linux 3.0, AS, ES, WS stock 2.4.21, updates 2.4.21-15, 6, 7, 8

SUSE Linux Enterprise Server 10
SUSE Linux Enterprise Server 9, SP1, SP2, SP3 — stock 2.6.5-797
(Listed versions are also supported with no service pack.)

SUSE Linux 10.1
SUSE Linux 10 — stock 2.6.13
SUSE Linux 9.3 — stock 9.3-2.6.11.4
SUSE Linux 9.2, SP1 — stock 9.2-2.6.8-24.11 (Listed versions are also supported with no service pack.)
SUSE Linux 9.1 — stock 2.6.4-52

- Ubuntu Linux 6.10 (experimental support)
Ubuntu Linux 6.06
Ubuntu Linux 5.10
Ubuntu Linux 5.04

Platforms not listed above are not supported. A Web browser is required for the Help system.



Supported Guest Operating Systems

The operating systems listed here have been tested in VMware Player virtual machines and are officially supported. For notes on installing the most common guest operating systems, and the most recent list of supported guest operating systems, see the *VMware Guest Operating System Installation Guide*, available from the VMware web site at <http://pubs.vmware.com/guestnotes/>.

Operating systems that are not listed are not supported for use in a VMware Player virtual machine.

Support for 64-Bit Guest Operating Systems

VMware Player supports virtual machines with 64-bit guest operating systems, running on host machines with the following processors:

- AMD™ Athlon™ 64, revision D or later
- AMD Opteron™, revision E or later
- AMD Turion™ 64, revision E or later
- AMD Sempron™, 64-bit-capable revision D or later (experimental support)
- Intel® EM64T VT-capable processors (experimental support)

VMware Player supports virtual machines with 64-bit guest operating systems only on host machines that have one of the supported 64-bit processors. When you power on a virtual machine with a 64-bit guest operating system, VMware Player performs an internal check: if the host CPU is not a supported 64-bit processor, you cannot power on the virtual machine. VMware also provides a standalone utility that you can use without VMware Player to perform the same check and determine whether your CPU is supported for VMware Player virtual machines with 64-bit guest operating systems. You can download the 64-bit processor check utility from the VMware web site at www.vmware.com/download.

**Microsoft Windows 32-Bit**

- Experimental enhanced support for Microsoft Windows Vista
- Windows Server 2003 Web Edition, Standard Edition, Enterprise Edition, Small Business Server 2003ce Pack 1, R2
- Windows XP Professional and Home Edition Service Pack 1 or 2 (listed versions also supported with no service pack)
- Windows 2000 Professional Service Pack 1, 2, 3, or 4
Windows 2000 Server Service Pack 1, 2, 3, or 4
Windows 2000 Advanced Server Service Pack 3 or 4
- Windows NT® Workstation and Server 4.0—Service Pack 6a required
Windows NT 4.0 Terminal Server Edition—Service Pack 6 required
- Windows Me
- Windows 98 (including all Customer Service Packs) and Windows 98 SE
- Windows 95 (including Service Pack 1 and all OSR releases)
- Windows for Workgroups 3.11
- Windows 3.1

Microsoft Windows 64-Bit

- Experimental enhanced support for Microsoft Windows Vista x64 Edition
- Windows Server 2003 x64 Edition SP1, R2
- Windows XP Professional x64 Edition

Microsoft MS-DOS

- MS-DOS 6.x



Linux 32-Bit

- Mandriva Linux 2006
- Mandrake Linux 8.2, 9.0, 9.2, 10, 10.1
- Mandriva Corporate Server 4
- Experimental support for Mandriva Linux 2007
- Red Hat Linux 7.0, 7.1, 7.1 Upgrade 2.4.3-12, 7.2, 7.2 Upgrade 2.4.9-7, 7.2 Upgrade 2.4.9-13, 7.3, 8.0, 9.0
- Red Hat Enterprise Linux AS/ES/WS 4.0, 4.0 Update 3, 4
- Red Hat Enterprise Linux AS/ES/WS 3.0, 3.0 Update 1, 2, 3, 4, 5, 6, 7, 8
- Red Hat Enterprise Linux AS/ES/WS 2.1
- Experimental support for Red Hat Enterprise Linux AS/ES/WS 5.0
- SUSE Linux 7.3, 8.0, 8.1, 8.2, 9.0, 9.1, 9.2, 9.2 SP1, 9.3, 10, 10.1
- SUSE Linux Enterprise Server 7, 7 patch 2, 8, 9, 9 SP1, 9 SP2, 9 SP3, 10
- Turbolinux Server 7, Enterprise Server 8, Workstation 8, Desktop 10
- Novell Linux Desktop 9, 9 SP2
- Sun Java Desktop System (JDS) 2
- Ubuntu Linux 5.04, 5.10, 6.06
- Experimental support for Ubuntu Linux 6.10

Linux 64-Bit

- Mandriva Linux 2006
- Mandriva Corporate Server 4
- Experimental support for Mandriva Linux 2007
- Red Hat Enterprise Linux AS/ES/WS 4.0, 4.0 Update 3, 4
- Red Hat Enterprise Linux AS/ES/WS 3.0, 3.0 Update 2.4.21-15, 6, 7, 8
- Experimental support for Red Hat Enterprise Linux AS/ES/WS 5.0
- SUSE Linux Enterprise Server 9, 9 SP1, 9 SP2, 9 SP3, 10
- SUSE Linux 9.1, 9.2, 9.2 SP 1, 9.3, 10, 10.1
- Ubuntu Linux 5.04, 5.10, 6.06
- Experimental support for Ubuntu Linux 6.10



Novell NetWare 32-Bit

- NetWare 6.5 SP3
- NetWare 6.0 SP5
- NetWare 5.1 SP8
- NetWare 4.2

Novell Open Enterprise Server 32-Bit

- Open Enterprise Server
- Open Enterprise Server SP1

FreeBSD 32-Bit

- FreeBSD 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6.2, 4.8, 5.0, 5.1, 5.2, 5.3, 5.4
- Experimental support for FreeBSD 6.1
- Experimental support for FreeBSD 6.0

Note: If you use SCSI virtual disks larger than 2GB with FreeBSD 4.0–4.3, there are known problems, and the guest operating system does not boot. To work around this issue, see the *VMware Guest Operating System Installation Guide*, available from the VMware Web site or from the Help menu.

FreeBSD 64-Bit

- FreeBSD 5.3, 5.4
- Experimental support for FreeBSD 6.1
- Experimental support for FreeBSD 6.0

Sun Solaris 32-Bit

- Experimental support for Solaris x86 9
- Experimental support for Solaris x86 10 1/06 (Update 1) and Solaris x86 10 6/06 (Update 2)

Sun Solaris 64-Bit

- Experimental support for Solaris x86 10 1/06 (Update 1) and Solaris x86 10 6/06 (Update 2)

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