Since I used VMware for the first time I have been fascinated about the virtualization technology.

On this page I put up some useful things for use with VMware products. Have fun, but use at your own risk.

If you want to contact me, see the end of the page.

Overview

- (Software) VMRemote
- (Software) Shell extension for VMware DiskMount
- (Software) MS-DOS / Windows 3.1 / Windows for Workgroups 3.11 driver package
- (Article) Logging on to a Windows Server 2003 domain from older DOS/Windows systems
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- (Article) Playing games in virtual machines
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(Software) VMRemote

VMware Workstation 5 includes a very nice tool, vmrun, that allows the user to control some VMware functions via the command line, mostly to start and stop virtual machines.

The tool VMRemote takes this further by exposing vmrun's commands to the network so they can be executed from another computer. VMRemote and its client require the .NET Framework 1.1.

Features of version 1.2:

- Supports all commands of Workstation 5.5:
 - List, start, stop, reset and suspend virtual machines or teams
 - Upgrade file format and virtual hardware
 - Install tools
 - List, revert to, take, delete snapshot(s)
- Client API is a separate class library, which makes it reusable
- Server can log all actions executed

Download VMRemote 1.2 Requires .NET Framework 1.1

Download VMRemote 1.2 Client API docs (for developers, extract into client directory)

VM VMRemote Client - localhos	t	
All available VMs:		
Name	Status	<u>S</u> tart
MS-DOS	Not running	
Red Hat Linux 8.0	Running	Stop
 UnixWare 7 Windows 98 	Running Not running	<u>R</u> eset
		S <u>u</u> spend
		Upgrade
		Inst <u>a</u> ll Tools
		Snaps <u>h</u> ots
		R <u>e</u> fresh list
		<u>N</u> ames only
		Running only
		A <u>b</u> out
E:\VMware\Red Hat Linux 8.0\Red H	tat Linux 8.U. YMX	Quit

Notes:

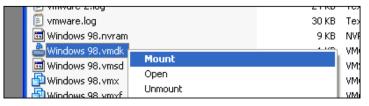
- This software was created before VMware Workstation 6.0 was released. Newer Workstation versions contain features that are similar to what VMRemote provides.
- In VMware Workstation 6.0 and higher, the VIX API is available for developers to manage virtual machines from an application.
- In VMware Workstation 8.0 and higher, a server feature is available that allows users to share virtual machines and manage them remotely from another Workstation instance or the VIX API.

As part of the VMware Virtual Disk Development Kit, the tool DiskMount can be downloaded which allows offline mounting of VMware virtual disks as a drive letter.

The shell extension lets you mount such virtual disks via a Windows Explorer context menu.

Download shell extension (for x86 systems)

Download shell extension (for x64 systems)



Notes:

- This software was created before VMware Workstation 6.0 was released. Newer Workstation versions contain features that are similar to what this shell extension provides.
- In VMware Workstation 6.0 and higher, there is a built-in feature to mount disks offline. This also includes a shell extension.

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(Software) MS-DOS / Windows 3.1 / Windows for Workgroups 3.11 driver package

I've put together a package containing drivers and important updates for using with MS-DOS, Windows 3.1 and Windows for Workgroups 3.11 within VMware products.

I call this collection the "31pack" (pronounced "three-one pack").

The current version is 1.1. The following changes were made from the initial release:

- An older DOSidle version 2.0 was added for the cases where the version 2.10 conflicts with EMM386.
- MSCDEX was added for scenarios where it is not installed as part of MS-DOS.

The 31pack is available as a simple set of files or as an ISO image, ready for mounting in a virtual machine. Enclosed in the ISO image download is also a floppy disk image that contains only the CD-ROM driver and MSCDEX.

Download driver package as a simple set of files

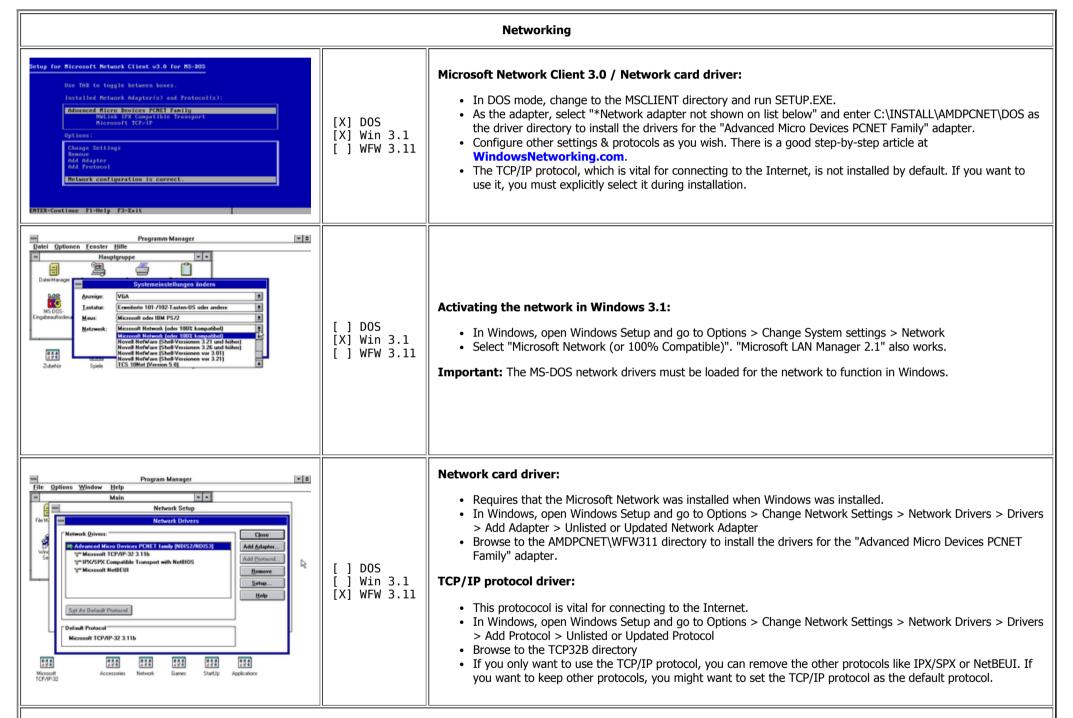
Download driver package as ISO image

The package contains:

- Microsoft Network Client 3.0
- Network card driver for AMD PCNET cards (NDIS2/NDIS3)
- CD-ROM driver
- MSCDEX
- Sound driver for SoundBlaster 16
- Super VGA driver patch
- DOSIdle tool
- WQGHLT tool
- Y2K Update for File Manager
- Euro support

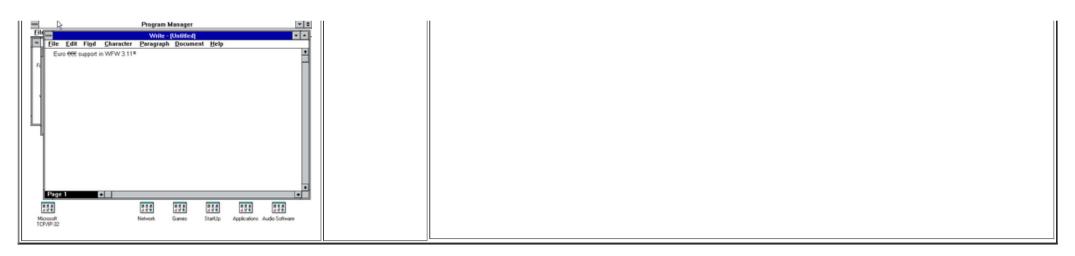
To install the software, either copy all files into an INSTALL directory within the virtual machine, such as C:\INSTALL, or mount the provided ISO image.

Below I'll outline the steps to install each component, along with the systems that the driver or update applies to.



CD-ROM			
Velcome to Device Driver Installation for High-Speed CD-30H Drive! Press ENTER to Easy install. Press ENTER to Easy install. Press EX to Custon Install. Press EX to Quit. Copy files from Installation diskette to barddisk Backup CONFIG.STS and AUTOEXEC.BAT Rodify CONFIG.STS and AUTOEXEC.BAT	[X] DOS [X] Win 3.1 [X] WFW 3.11	 CD-ROM driver: In DOS mode, go into the CDROM directory and run INSTALL.EXE. You should use the "Easy Install" option unless you have problems. MSCDEX: The installer of the CD-ROM driver sets up MSCDEX to launch automatically in AUTOEXEC.BAT. MS-DOS 6.0 and higher include MSCDEX. On these systems there is nothing more to do. For scenarios where MSCDEX is not installed as part of MS-DOS, copy MSCDEX.EXE from the MSCDEX directory into C:\DOS. 	
		Sound	
	[X] DOS [X] Win 3.1 [X] WFW 3.11	 Sound driver: The included drivers are for DOS and Windows. You may have to change a setting in the virtual machine config file first, to get the SB16. This is because some VMware products supply a different type of sound card per default. Power off the VM, open the configuration file (.vmx) in an editor, find the line starting with "sound.virtualDev" and change it to sound.virtualDev = "sb16". If the line is not present, just add it. After the change power on the VM again. 	

Turlio Software. The following settings will be used for installing the Audio Software. Fraceed using the settings shows Base 1/0 address : 220 MIBI Fort address : 330 High 2th address : 5 Low BMA setting : 5 Low BMA setting : 5 I the settings are correct, press INTER. • To change a setting, use 1 or 1 key to select the setting and press INTER for the alternatives. INTER-Continue Fishelp F3-Exit ISC-Previous Screes		In DOS mode, go to the SB16 directory and run INSTALL.EXE. You should accept the defaults unless you have problems.
		Display
	[] DOS [] Win 3.1 [X] WFW 3.11	 Super VGA driver patch: This is a patch Ken Kato wrote to make Super VGA work under WFW 3.11 in a VMware environment. It might also work for Win 3.1, but I did not test that. Note: The web site linked to is no longer active. It has possibly moved to this page. The patch files are in the VGAPATCH directory, be sure to read the included documentation. To test the new graphics mode, I used a colorful LCARS image I found on the net as a wallpaper.
	1	CPU Idling
C::ND015NB051B1E:dosidie FTUIdie for B05 V2.10 (Build 0077) Cogrigit (C) by Barton Balog. 1990. BETECTING Processori: Unknown Intel. Troweryfami: NTR V1.2 (Emahled). Toweryfami: NTR V1.2 (Emahled). C::NTOOLSNB051B1E:- HIREM is testing extended memorydome. Ricrosoft Power Ramager Version 1.0 (C) Coguright Hicrosoft Corporation 1906, 1993 NDR1/IDE CD-BUR device driver version 4.0, Jan 1990 Torber Tower Ramager Version 1.0 (C) Coguright Microsoft Corporation 1906, 1993 NDR1/IDE CD-BUR device driver installed. The command completed successfully. COguright Microsoft Corporation 1907, All rights reserved. Bruce Briver Sci (Corporation) 10 Audio card is configured at A220 15 b1 H5 RDBE prepare code page functions completed COME select code page functions completed C::No.	[X] DOS [] Win 3.1 [] WFW 3.11	 DOSidle tool (v2.10): MS-DOS does not idle the CPU when there's nothing to do. This does not affect the operating system, but when running in virtualized environments, it takes up all the processor power on the host. In DOS mode, start DOSIDLE.EXE from the DOSIDLE[V0210 directory to activate CPU idling. Put it into your AUTOEXEC.BAT to start it automatically when booting. Alternative 1: DOSidle 2.0 The DOSidle version 2.10 can conflict with EMM386 (at least in MS-DOS 7.1): You started your computer with a version of MS-DOS incompatible with this version of Windows. Insert a Startup diskette matching this version of Windows. Insert a Startup diskette matching this version of Windows and then restart. The system has been halted. Press CTRL+ALT+DELETE to restart your computer. If you get the above error, you can use the older DOSidle version 2.0 instead, which does not have this problem. It is in the DOSIDLE[V0200 directory. Alternative 2: Microsoft Power Manager (POWER) Use this if you cannot use DOSidle for any reason. In MS-DOS 6.0 and higher, POWER is part of the operating system. To install POWER with maximum power saving, add the following line to the CONFIG.SYS file: DEVICE=C:\DOS\POWER.EXE ADV:MAX and reboot the system. WQGHLT tool:
Markard Lag (1) Markard Lag (1) <td< th=""><td>[] DOS [X] Win 3.1 [X] WFW 3.11</td><td> Windows 3.x does not idle the CPU when there's nothing to do. This does not affect the operating system, but when running in virtualized environments, it takes up all the processor power on the host. To install WQGHLT, copy WQGHLT.386 from the WQGHLT directory to C:\WINDOWS\SYSTEM, add a line to C:\WINDOWS\SYSTEM.INI's [386Enh] section, like this: [386Enh] device=WQGHLT.386 and restart Windows. </td></td<>	[] DOS [X] Win 3.1 [X] WFW 3.11	 Windows 3.x does not idle the CPU when there's nothing to do. This does not affect the operating system, but when running in virtualized environments, it takes up all the processor power on the host. To install WQGHLT, copy WQGHLT.386 from the WQGHLT directory to C:\WINDOWS\SYSTEM, add a line to C:\WINDOWS\SYSTEM.INI's [386Enh] section, like this: [386Enh] device=WQGHLT.386 and restart Windows.
		Operating System Updates
File Manager - [C:WHNDOWS]**- [MS-005.6] * ** Eile Disk Tee Yew Options Tools Window Help * ** Eile Options Tools Window Help * ** Eile Options Tools Window Help * ** Constant State *	[] DOS [] Win 3.1 [X] WFW 3.11	 Y2K Update for File Manager: The File Manager shows wrong dates for files changed in or after the year 2000. To fix this, go to the WFWY2KUP directory in DOS mode and run INSTALL.BAT with the name of your Windows directory as parameter, for example "INSTALL C:\WINDOWS". The update in the WFWY2KUP directory is for english Windows versions. If you have a german Windows version, you can use the update in the WFWY2KDE directory instead.
	[] DOS [X] Win 3.1 [X] WFW 3.11	 Euro support: This updates the keyboard drivers and fonts to include the Euro (€) symbol. In DOS mode, go into EURO_DEU directory and run W31_EURO.BAT with the name of your Windows directory as parameter, for example "W31_EURO C:\WINDOWS". Note that this install batch is german. The last output of that script should read "Fertig", meaning "Done". Then copy the additional Euro fonts from the EUROFONT directory to C:\WINDOWS\SYSTEM.



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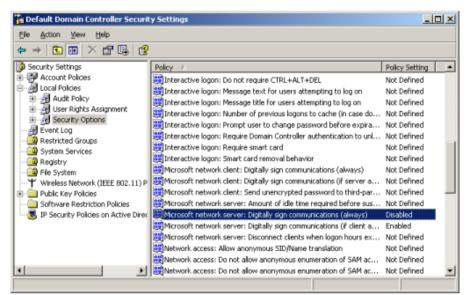
(Article) Logging on to a Windows Server 2003 domain from older DOS/Windows systems

If you have an MS-DOS or older Windows system running (Windows NT 4.0, Windows 98/ME or below), logon attempts from such versions to a Windows Server 2003 domain fail out of the box because Windows Server 2003 domain controllers have communication signing (SMB signing) enabled by default and the old systems do not support it. SMB signing was introduced to prevent malicious users from tampering or intercepting network traffic.

If you need a quick-and-dirty solution for compatibility reasons, simply turn of SMB signing at the domain controller - see below for how to do this. For more details about this issue and ways to resolve it, see Microsoft's KB entries **811497** and **555038**.

How to disable communication signing on Windows Server 2003:

- Open Control Panel > Administrative Tools > Domain Controller Security Policy
- In the tree, open Local Policies > Security Options
- On the right, find "Microsoft network server: Digitally sign communications (always)" and set it to Disabled or remove the check mark in front of "Define this policy setting"



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(Article) Finding the right virtual sound card and driver for your guest operating system

The default sound card emulated in VMware Workstation depends on the program version and the guest operating system:

Program	Guest OS ¹	Sound Card Name
VMware Workstation 8.x and higher	Windows Vista and higher	High Definition Audio
VMware Workstation 8.x and higher	Windows XP and lower	Sound Blaster AudioPCI ²
VMware Workstation 7.x and lower	All Windows versions	Sound Blaster AudioPCI ²
VMware Workstation 10.x and higher ³	MS-DOS or Windows 3.1	Sound Blaster 16

¹For simplicity, the appropriate server versions of Windows were omitted, it applies to them as well. ²May be labeled differently in the guest OS depending on the driver used, e.g. Sound Blaster PCI 128. ³And maybe also in some lower versions, this was not tested.

By modifying the machine configuration file (VMX file), the card can also be changed to a different one that may be more appropriate than the default.

The following table shows which drivers to use for for Windows and DOS operating systems:

Card short name	Card name(s)	Operating systems	VMX file entry ¹	Driver to use ²
HD Audio	Definition Audio	All 32-bit and 64-bit versions of: Windows Vista, Windows Server 2008, Windows 7, Windows Server 2008 R2, Windows 8, Windows Server 2012	sound.virtualDev = "hdaudio"	Driver is provided by the guest operating system. The HD Audio sound card is available in VMware Workstation 8.0 and higher.
ES1371	Blaster AudioPCI, Sound	All 32-bit and 64-bit versions of: Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windows Server 2008 R2	sound.virtualDev = "es1371"	VMware VMaudio driver - included in the VMware Tools of VMware Workstation 6.5 and higher. Windows 7 and Server 2008 R2 support requires VMware Workstation 7.0 or higher.
ES1371	Blaster AudioPCI, Sound Blaster	Windows ME, Windows 2000, Windows XP (32-bit), Windows Server 2003 (32-bit), Windows Vista (32-bit), Windows Server 2008 (32-bit)	sound.virtualDev = "es1371"	Sound Blaster PCI 128 driver for Windows 2000 (SBPCI128Setupus_w2k.exe)
ES1371	Blaster AudioPCI,	Windows 98 SE, Windows ME, Windows 2000, Windows XP (32-bit), Windows Server 2003 (32-bit)	sound.virtualDev = "es1371"	Sound Blaster PCI (WDM) Drivers V 5.12.01.5017 (SBPCI_WebDrvsV5_12_01.exe) 4 Megabyte Waveset for SB PCI 16/64/128 (eapci4m.zip) 8 Megabyte Waveset for SB PCI 16/64/128 (eapci8m.ecw)

				The wavesets are optional since a 2 MB waveset is already included with the driver. Using a larger waveset means better MIDI sound quality, but requires more memory. Use the Device Manager to add new wavesets (*.ecw) to the "SB PCI(WDM)" driver.
ES1371		Windows 95, Windows 98	= "es1371"	Sound Blaster PCI 128 driver for Windows 9x (SBPCI128Setupus_w9x.exe) Beginning with VMware Workstation 6.0, installing this driver causes new Windows 95 and 98 VMs to crash (blue screen) at driver installation. Additionally, Windows 95 VMs where the crash occurred become unbootable and the operating system halts with a Windows Protection Error. Windows 95 and 98 VMs that have been created with previous Workstation versions that have this driver installed crash after upgrading the virtual hardware to Workstation 6.0 or higher. Workarounds: • For new Windows 95 VMs, use Workstation 5 hardware or a SB16 sound card. • For new Windows 98 (first edition) VMs use a SB16 sound card.
				 For new Windows 98 SE VMs, use the WDM driver instead of this driver, it does not have this issue. For existing Windows 9x VMs with this driver, don't upgrade beyond Workstation 5 hardware.
ES1371	Sound Blaster AudioPCI, Sound Blaster PCI 128	Windows NT 4.0	sound.virtualDev = "es1371"	Sound Blaster PCI128 (Drivers Only - Windows NT4.0) (SBPCI128Setupus_wnt.exe)
SB16	Sound Blaster 16	Windows 95, Windows 98	sound.virtualDev = "sb16"	Driver is provided by the guest operating system.
SB16	Sound Blaster 16	Windows 95 MS-DOS mode, Windows 98 MS-DOS mode	sound.virtualDev = "sb16"	Sound Blaster 16 driver for Windows 95 MS-DOS mode (95dosapp.exe)
SB16	Sound Blaster 16	MS-DOS, Windows 3.1	sound.virtualDev = "sb16"	Sound Blaster 16 driver for DOS/Windows 3.1 (sbbasic.exe)

¹The entry is only for selecting the sound card device, not to add a new virtual sound card. It might not be present if the default emulated sound card is in use. ²Some of the systems might already include the necessary drivers and in this case no separate driver needs to be installed.

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(Article) Playing games in virtual machines

I also like playing games, not only current ones, but also older games. The following is a list of operating systems that can or cannot be used for playing games in a virtual machine.

This list is specific to VMware Workstation and is solely based on my own opinion.

Guest OS	Can Play?	Comments
MS-DOS	No	Slow. Problematic hardware setup. Don't use. Use DOSBox instead.
Windows 3.1	Maybe	I only tried small games and no VMware Tools are available, so it may not work for more demanding games.
Windows 95	Yes	Looks ok.
Windows 98	Yes	Looks ok.
Windows ME	Yes	Looks ok.
Windows 2000	Maybe	May work if games don't require graphics hardware features (T&L, shaders, etc.).
Windows XP	Maybe	VMware Workstation 6.5 includes DirectX 9.0c support for Windows XP. You need a decent machine to make this work.
Windows Vista	Maybe	May work if games don't require graphics hardware features (T&L, shaders, etc.).

Experiences with the new Direct3D Support in VMware Workstation 6.5

When I tried out this feature the first time, I set all graphics settings in the games to minimum. It was still too slow for me, not fluid enough. Either my machine was too old for this or there is some improvent potential on VMware's side. On the host, I was able to play all the games in high quality without noticeable problems.

The first lesson I learned, was that upgrading to the Workstation 6.5 hardware version is absolutely necessary, to get something useful regarding 3D performance. Done that, the performance was still unsatisfying. In the end, it turned out that my host machine was underpowered for this task (Intel P4 "Prescott" @ 3 GHz with an ATI Radeon X800 GT).

So a decent machine is required, even for older games. I upgraded the host's hardware and it became better (Intel Core2Duo @ 3,16 GHz with an ATI Radeon HD 3850).

I tested the following games with the new host hardware:

- Max Payne 2 (2003): High quality graphics settings @ 1680x1050x32; Subjective performance: OK
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- No One Lives Forever 2 (2004) High quality graphics settings; Subjective performance: OK Half-Life 2: Episode Two (2007) Moderate graphics settings @ 1680x1050; Subjective performance: Moderate, ~15 fps on average (not calculated, just by looking at the FPS counter from time to time)

Graphics settings for Max Payne 2:

Max Payne 2 - Options				
Video Settings		Content Scalability		
Antialiasing	0#	Character Shadows:	High	Ŧ
Texture Color Depthy	High	Decala	High	*
Texture Resolution:	High	Projectiles:	High	
Texture Filtering	Trinear	Material Variations:	High	*
Trials Course D. Ress.	-	Bast concern Ellector	Martine	-

Tiple Screen parent. 1	Low buccase evenue historiu
Allow Windows Keys:	Cubic Environment Maps: 🔽
	Fogging 🔽
Audio Settings	Flates: 🔽
Sounds: 🖂	Minors: 🔽
EAX Environmental Effects: 😾	High Detail Ragdoliz 🔽
Multi-channel Audio:	High Detail Particles: 🔽
Sound Channels: High	Pixel Shader Skins: 🔽
Reset All Settings To:	OK Cancel

Graphics settings for Half-Life 2: Episode Two: <u>Warning message when launching Half-Life 2: Episode</u> Two about video hardware not meeting the minimum requirements:

	ble from your driver vendor.
Your Driver details	
Windows Version:	Unknown
Description:	VMware SVGA II
Version:	11.6.0.9
Show minimum requi	irements

VEDED - ADVANCED		×
Model detail		
High *	Low	High* •
Water detail		
Reflect world * ·	Medium * ·	Enabled * ·
Antialiasing mode.		
None • VV U •	Trinear *	Disabled * •
Motion Blur		
Disabled * ···	8.00	io.ii
High Dynamic Range		
None *	Use 'bloom' effect wh	
		Diractit v9.0
* Setting recommended for you		
	OK	Cancel

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Links

The page author is not responsible for the contents of the linked pages.

http://www.vmware.com	Official VMware site
http://www.vmaschinen.de	German site about virtual machines
http://boling.us/ebs/apps/vmmaster	"VM Master", a tool to automatically start and stop Workstation 5 virtual machines.
http://www.vmware.com/community	Offical VMware discussion boards
http://chitchat.at.infoseek.co.jp/vmware Site is no longer active. Possibly moved to http://sites.google.com/site/chitchatvmback/	"VM Back", Ken Kato's page with info about VMware internals as well as various tools and drivers.
http://vmware-forum.de	Unofficial german VMware forum
http://www.sanbarrow.com	Homepage of a virtual machine "mad scientist".

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Page history		
January 5, 2015:	 Updated the 31pack to version 1.1: Added DOSidle 2.0 for the cases where DOSidle 2.10 conflicts with EMM386 (thanks to The MAN). Added MSCDEX for scenarios where MSCDEX is not installed as part of MS-DOS (thanks to Jonathan Bandelier). Listed Microsoft Power Manager (POWER) as an alternative to DOSidle (thanks to Al Leween). Updated the sound driver article: Added the information that the SB16 sound card can also be used in Windows 95 and 98 (thanks to ClassicGameVault and Thomas Aitken). Added the information that in VMware Workstation 10 (and maybe in some earlier versions), creating a new MS-DOS or Windows 3.1 VM sets the SB16 sound card as the default (thanks to Kristian Whittick). Added a sound driver for Windows NT 4.0. Updated all driver download links to adapt to the changed structure on the Creative web site. Added information about the HD Audio sound card. Added information about default sound cards in VMware Workstation depending on the program version and guest operating system. Added information about features in VMware Workstation that are similar to what VMRemote provides. 	
September 24, 2011:	 The 31pack is now also available as an ISO image, ready for mounting in a virtual machine. Enclosed in the ISO image download is also a floppy disk image that contains only the CD-ROM driver. Changed links to Ken Kato's original "VM Back" web site, which is long gone, to a new address, which looks like a replacement for the old site. I'm not 100% sure though whether this isn't just one more of the unofficial mirrors that exist. 	
May 21, 2011:	 Added a clarification that the 31pack replaces the older DOS / Win 3.1 and WFW 3.11 driver packages. Re-added also the old anchors for other web pages that still link to the old drivers. 	
May 5, 2011:	 Added a new driver package for MS-DOS, Windows 3.1 and Windows for Workgroups 3.11 systems, called the 31pack. This replaces the former two MS-DOS and WFW 3.11 driver packages. A new software in this package that was not in one of the old packages, is the WQGHLT tool. It idles the CPU when Windows is running and there is nothing to do, similar to what DOSidle does under DOS. Added an x64 version of the shell extension for VMware DiskMount (thanks to Batwings21). 	
May 11, 2009:	 Updated info about Windows 9x sound drivers Changed all outgoing links to open in a new window Added SVGA patch to WFW311 driver package Fixed a number of HTML errors Fixed link to Microsoft Network Client tutorial 	
January 24, 2009:	 Updated sound driver article: Added info about VMware Workstation 6.5 driver problems Changed driver links to link to the one download instead of the product support pages Added new SB WDM driver 	
November 25, 2008:	 Added more guest OSs to the list of OSs that are supported by the VMware VMaudio driver Added experiences with virtual Direct3D support to the virtual gaming article. 	

The link points to **this page.**

October 25, 2008:

- Added VMware VMaudio to sound driver article
 Edited a few articles for clarity
 Added screenshots to the DOS/Win driver package documentation
 Updated shell extension for VMware DiskMount.

October 15, 2008:

- Renamed title of the sound driver article to a more appropriate one
- Added clarification about 32-bit systems
- Added clarification about ES1371 sound card name.

October 9, 2008:

August 23, 2008:

- Added info about games in virtual machines.
- Updated info about getting sound to work:
 Windows 95 MS-DOS mode drivers

 - Windows Vista info
 - Updated links to sound drivers
 - Added VMX file entries.
- Updated entry for the shell extension for VMware DiskMount.

April 4, 2006:

- Added info about sound drivers
- Changed some texts
- Included sound driver in MS-DOS package again.
- November 28, 2005: • Updated VMRemote to version 1.2

October 23, 2005: • Added MS-DOS / Windows 3.1 driver package

October 2, 2005:	•	Updated VMRemote to version 1.1

September 3, 2005: Initial release

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If you have any comments or suggestions, please **contact me via E-Mail**.

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