

ESX Server 2.x Fixed Bugs

VMware® ESX Server

This document lists the issues resolved in ESX Server 2.x for the following releases:

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Bugs Fixed in ESX Server 2.5.5

Table 1. Bugs Fixed in ESX Server 2.5.5

PR Number	Description
59059	A recursion bug in GuestTimerCalibration causes timekeeping to fail in some Linux 2.6 kernels. Linux 2.6 based guest operating systems are out of sync by 50% from the host time regardless of synchronization changes made using tools.
63593	Fixes potential installation issue on IBM x460 Multi-Node systems (example: 16-way, 4-node X460) where the system fails to boot in APIC mode successfully.
91708	vmkpcidivv does not assign drivers based on constraints with specific device class types. This lack of constraints might lead to an incorrect device driver being loaded, rendering ESX Server unbootable.
91780	Fixes an issue where simultaneous reboot of multiple or all virtual machines on an ESX Server might lead to VMkernel heap memory depletion and ESX Server panic.
93921	This fix corrects notes in the patch installation script <code>upgrade.pl</code> output to "boot into linux-up mode" for applying patches.
96227	TSC's in multiprocessor Opteron systems become out of sync due to power management state transition. This fix avoids TSC drift by disabling clock ramping. This is required to support AMD Rev-F systems.
104284	SW_ILS:ELP frame send by the FC-Switch to the HBA causes ESX Server fail. This failure occurs when Emulex HBAs are connected to SAN through a Qlogic switch. The Qlogic switch takes more time to respond to the FLOGI from the driver and the driver times out and sends another FLOGI. The switch responds to both the FLOGIs which results in the corruption of the unmapped list of nodes maintained by the driver.
107863	Fixes a <code>Serverd</code> memory leak issue.
115390	<code>vmware-config.pl</code> has incorrect permissions on SSL key files. This fixes a security flaw in the <code>vmware-config.pl</code> script.
119243	Third-party process logout PRLOs cause Emulex HBAs to disconnect from Symmetrix SAN. The Emulex driver might receive an unsolicited PRLO from the target and fail to reestablish login credentials resulting in the server losing all paths to the target.
125796	This is a security fix for all of the open-SSL RPMs.
131843	Fixes an issue where VMware Tools upgrade for Microsoft Windows guest operating system replaces <code>msvcrt.dll</code> with an older version.
131884	Fixes an issue where the ESX Server panics when system management agent issues an <code>ioctl</code> (input/output control) with user buffer size greater than 128K on the system storage devices (such as local or fibre channel HBA.)
133158	Manually changing the preferred path to a busy LUN fails without errors. This fix adds the message, "Cannot Change preferred path while I/O pending." This will be logged in <code>/var/log/vmkernel</code> if the user tries to change active path while I/O is pending.
133237	Fixes an issue in the consolidated 4G/2G Qlogic driver where the firmware does not perform timeout error recovery if <code>cmd_tov</code> (command timeout value) is set to 0.
133287	IBM x460 fails to boot into linux-up mode after installation.
138443	The Qlogic <code>link_down_timeout</code> value used to stop the loop and fail all outstanding IO is available as a module load time parameter.
139326	IBM LS21 fails to boot in linux smp linux mode.
140998	Fixes an issue where a fresh installation of ESX Server fails with the error: "Argument "" isn't numeric in numeric eq (==) at <code>/usr/lib/vmware/perl5/site_perl/5.005/VMware/HConfig/RawDisk.pm</code> line 2664, <FD> line 6"
144194	This fix changes the boot kernel to address the boot failure on servers with devices that have a PCI bus number higher than 32.
147293	Speed and duplex changes for an NIC device using the e1000 driver might cause ESX Server to fail.
147696	Fixes an issue where the installation of ESX Server on HP systems with iLO2 virtual media might fail with the error: <code>failed to read /modules/module-info</code>
148594	Fixes an issue where migration with VMotion fails when the CD-ROM deviceType is set to equal to <code>cdrom-image</code> , and the filename entry is missing in the virtual machine <code>.vmx</code> configuration file.
149373	This fix includes the Daylight Saving Time change for Western Australia.
150542	Migration with VMotion fails on ESX Server 2.5.4 Patch 2 and later if floppy image is not named <code>*.flp</code> , or the CD-ROM image is not named <code>*.iso</code> .

Table 1. Bugs Fixed in ESX Server 2.5.5 (Continued)

PR Number	Description
151894	Provides time zone rule updates for the following regions: Pulaski County, Indiana, is switching from CST/CDT to EST/EDT on 3/11. Turkey switches at 01:00 standard time, not at 01:00 UTC. Updated Bahamas time zone with 2007 US DST change compliance. Added new zone Australia/Eucla. Atlantic/Faeroe time zone is renamed to Atlantic/Faroe. Latitude/longitude changes for Europe/Jersey and Europe/Podgorica. Europe/Jersey and Europe/Podgorica time zone no longer observe daylight saving. The Daylight Saving Time roll-forward on 3/25 and roll-back on 10/28 rules have been removed. Cubahas ended its three years of permanent Daylight Saving Time.
152535	Fixes an issue where ESX Server might fail when the <code>/proc/vmware/thermmon</code> values are being read or changed. For example, <code>echo disable > /proc/vmware/thermmon</code> .
156726	Fixes an issue where link state change on Broadcom NIC using bnx2 driver might lead to ESX Server failure.
156732	Fixes a race condition in the bnx2 driver that might cause ESX Server to fail when the transmit queue state is changed.
158086	Fixes a memory leak issue in VMware Tools during virtual machine power cycle (power on or off) operations.
161986	Fixes an issue where an IBM multi-node NUMA system is not detected as a system with NUMA architecture.
165089	Samba RPM update fixes security flaw.
122562	Scripted installation fails using USB Floppy and USB CD-ROM on BladeSymphony servers.
64483	Fixes an issue where scripted installation using http server fails because the <code>ks.cfg</code> file is not retrieved from the web server properly. The following error message appears: Error opening kickstart file <code>/tmp/ks.cfg</code> : No such file or directory.
154961	ESX Server might fail if it has both 2G and 4G Fibre Channel HBA, or if the Fibre Channel HBA0 and HBA1 are configured differently. Ensure that both 2G and 4G Fibre Channel HBAs are in Shared mode or both are dedicated to the VMkernel. Make sure both HBAs are in Shared mode for boot-from-SAN installation.
177415	Fixes an issue where ESX Server 2.5.4 and 2.5.5 installation stops on Sun Fire X4200 and X4100 Server systems.
189370	The <code>noreboot</code> option has been added to <code>upgrade.pl</code> script. Users who do not want to answer the <code>yes/no</code> system reboot question after patch installation can use the command <code>upgrade.pl --noreboot</code> to bypass the reboot prompt.
64483	Fixes an issue where scripted installation of ESX Server fails to retrieve the kickstart configuration file <code>ks.cfg</code> from an http server.
70437	Fixes an issue where scripted installation of ESX Server stalls in the process of formatting, if the <code>vmkcore</code> (Vmkernel core dump) partition is not configured to the last partition and the VMFS2 partition is not contiguous.
88922	Fixes an issue where changes to the max percent for the virtual machine VCPU made using the MUI are not populated to the virtual machine <code>.vmx</code> configuration file.
93151	Fixes an issue where new LUN addition or removal is not detected by VirtualCenter™ until the <code>ccagent/serverd</code> process is restarted.
95428	Fixes an issue where ESX Server reboot or shut down incorrectly reports virtual machine shut down failure, if the virtual machine is shut down using the active remote console connection.
95855	Fixes an issue where interrupt sharing between Fibre Channel HBA and USB controller causes I/O timeouts.
102499	Fixes an issue in the Qlogic driver where a bus reset might fail.
103633	The command <code>cmd_tov</code> timeout value is a user configurable option. It can be set by editing <code>/etc/vmware/hwconfig</code> , and adding <code>device.esx.2.12.1.options = "qla_cmd_timeout=20"</code> where the numbers <code>2.12.1</code> are the PCI address for the Qlogic HBA.
106543	The <code>vmkfstools</code> command now has the <code>-W, --writezeros</code> option to initialize the virtual disk with zeros. Any existing data on the virtual disk is lost. A newly created virtual disk might contain stale data as it exists on the physical media. Using this option clears off stale data.
107796	Constant <code>nfs service restart</code> command causes the console operating system to fail.
108085	The <code>patch/esx version</code> upgrade fails. A workaround is documented in KB article 2045 that changes <code>symlink modprobe</code> to <code>modprobe.sh</code> . With this fix the symlink is not reverted if it exists on upgrade.
108480	Fixes an issue where VMFS spanned on aligned volumes can cause the datastore to be unavailable because the MUI creates VMFS volumes based on disk cylinders and not sectors. If the starting sector of the VMFS volume is changed to a nondefault value, any VMFS span of the volume will cause the entire volume to disappear.
116578	This update resolves issues that might be encountered during repeated speed and duplex changes on NICs which use the <code>tg3</code> or <code>bnx2</code> drivers.

Table 1. Bugs Fixed in ESX Server 2.5.5 (Continued)

PR Number	Description
119135	Security update CVE-2005-3055.
124105	gzip rpm security update for CVE-2006-4334, CVE-2006-4335, CVE-2006-4336, CVE-2006-4337, and CVE-2006-4338.
124953	Fixes an issue where the <code>/usr/bin/vmware-config.pl</code> script does not use the <code>safe_chmod()</code> subroutine that reports errors on failure. Instead, it uses the native Perl <code>chmod()</code> function without any return code checking. Because the <code>safe_chmod()</code> subroutine is not used and no return code checks are performed, the user is not alerted if <code>chmod()</code> fails. If <code>umask</code> is used at the time, the result might leave the key file readable to any local user on the system.
130476	This Fix removes system alerts that indicate missing interrupt. Information for SMBus and system peripheral class devices alerts are benign. The alert message is similar to, ALERT: PCI:SetupInterrupt: failed for 000:31.3.
131084	XFree86 security update CVE-2006-3739 and CVE-2006-3740.
132953	Enhances the network watchdog timer to reset properly when a timeout takes place.
134542	Fixes an issue where persistent binding cannot be added using <code>pbind.pl</code> script in a system with 4G HBA driver.
142472	Fixes an issue where access to RDM disappears for up to 5 minutes after SP failover on an HP MSA array running active/active firmware. This is caused by the storage array SPs not returning a unique LUN serial number from the VPD-83 inquiry. In the event of an SP failover, the newly active SP might return a different LUN serial number. As a result, the Windows guest operating system that uses the LUN in RDM mode might temporarily lose visibility.
147498	Updates "info" RPM to address security update CVE-2006-4810 and CVE-2005-3011.
149501	Resolves an issue where the Emulex HBA driver sometimes fails to discover all of the paths to CX3-40 Fibre Channel SANs due to a failure in the login to the Storage Processor. The issue can be encountered when the driver loads and tries to establish connections or whenever new targets are presented and the driver tries to establish a connection. This update provides code that instructs the driver to repeat the attempt to establish a connection until all paths to connected storage targets are discovered.
48721	Fixes an issue where benign floppy error is logged and displayed after login. See KB 2053.
164124	Fixes the <code>vmware-cmd -H remote-host</code> command issue. See KB 1001054.
161765	Fixes an issue where installation of ESX Server 2.x over the network using FTP halts with the message: Failed to login into X.X.X.X: Failed to connect to FTP server. Click OK to allow the installer to continue, and connect to the FTP server properly. With the fix, no manual intervention is required to perform kickstart installation using FTP server.
176429	Fixes an error message during tools installation. See KB 1001642.
177716	Fixes an issue where a virtual machine running Red Hat guest operating system RHEL4U4 or RHEL4U5 with <code>vmxnet</code> driver fails to obtain DHCP address.
181220	Fixes an issue where changing the security setting for ESX Server using the VMware Management Interface might cause the <code>httpd.vmware</code> service to stop. See KB 5443122.
126226	Fixes an issue where virtual machines experience I/O failures on a server with RAM exceeding 4GB, with Emulex HBA connected to SAN. The server with multiple virtual machines configured with memory allocated equal to or greater than the amount of total memory installed on the server, or when <code>EnableHighDMA?</code> is turned on.

Bugs Fixed in ESX Server 2.5.4

Table 2. Bugs Fixed in ESX Server 2.5.4

PR Number	Description
39530	Fixes <code>vmware-cmd</code> commit command errors.
53480	Fixes a problem that caused HP BL20p G3 servers to fail during ESX Server installation.
56869	Enables the use of non-alphanumeric characters in passwords in the VMware Management Interface without generating an error message.
57142	Fixes a problem that produced an error message after users attempted to remove a raw device mapping after the associated raw LUN was removed.
58215	Fixes the problem with Gigabit Ethernet adapter links documented in KB 1564, available at http://www.vmware.com/support/kb/enduser/std_adp.php?p_faqid=1564 .
58660	Fixes an error that caused the VMware Management Interface to report an incorrect value for free space available on VMFS partitions.
61823	Prevents <code>/var/log/messages</code> from filling up with error messages when a DVD-ROM device with UDF format DVD is attached to a virtual machine.
74715	Refines runt-packet padding behavior to accommodate relatively rare circumstances where Ethernet frames are dropped and/or flagged as suspicious by a network security appliance.
77302	Fixes an error in the VMware Management Interface that caused swapped I/O for all virtual machines to be reported in Bps instead of KBps.
80568	Modifies the <code>wmpn.pl</code> script so that it correctly displays more than nine storage processors when used with Emulex HBAs.
82496	Enhances failover support on the HP MSA1500.
86118	Fixes a <code>vmkernel</code> system heap memory leak that can cause ESX Server fails.
86281	Fixes a problem that causes the system to stall when running <code>/sbin/loader</code> step while installing ESX Server on Sun servers.
90135	Improves performance for virtual machines running guest operating systems using PAE (Physical Address Extension).
90327	Updates time zone data files to account for changes in Daylight Savings Time dates for 2007.
90742	Fixes a problem that caused corruption of redo logs when they were copied on append-mode disks.
93594	Eliminates the <code>vga=788</code> parameter with the <code>bootfromsan-text</code> installation option. This parameter caused installation problems when used with some monitors.
94115	Incorporates an updated Red Hat tar package to fix a path traversal flaw. This fix addresses the security vulnerability described in CVE-2005-1918. See http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2005-1918 .
94965	Suppresses display of http server version information.
94967	Fixes a problem that caused memory corruption in virtual machines running guest operating systems using PAE.
96017	Incorporates the python security update described in RHSA-2006:0197-01 to fix an integer overflow flaw in python's PCRE library. This fix addresses the security flaw described in CVE-2005-2491. See http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2005-2491 .
98149	Fixes a problem that caused port data not to be visible on the ESX Server fail information screen because the line length was too long.
99024	Fixes a problem with SMP SuSE Linux Enterprise Server 9 SP2 or SP3 virtual machines described in KB 2076 at http://www.vmware.com/support/kb/enduser/std_adp.php?p_faqid=2076 .
99249	Adds an option to allow rotation of <code>vmware.log</code> files based on file size.
102027	Fixes a problem that caused <code>vmhba</code> renaming when patch upgrades to scripted installed machines are applied.
102484	Fixes a bug that caused the VMware Management Interface not to display some groups defined in <code>/etc/group</code> .
102556	Incorporates the following Red Hat security updates: RHSA-2005:806 – <code>cpio</code> security update RHSA-2005:603 – <code>dhcpcd</code> security update RHSA-2005:801 – <code>gdb</code> security update RHSA-2005:839 – <code>lynx</code> security update
103492	Replaced the <code>freebsd.iso</code> ISO image with the image available with ESX Server 3.0 release.
104864	Updates shared VMFS volume metadata to account for changes after removing the <code>.vmdk</code> files.
105529	Updated <code>openssh</code> RPM version 3.6.1p2-33.30.6vmw.

Table 2. Bugs Fixed in ESX Server 2.5.4 (Continued)

PR Number	Description
100644	Adds support for Hitachi Data Systems array in an active/passive configuration.
107153	Changes the behavior of cold migration of virtual machines with append-mode virtual disks with redo logs. Previously, redo logs of such virtual machines were discarded during cold migration if the virtual disk was copied during the migration. Now, the redo logs are committed when the virtual disk is copied during the migration.
115816	Incorporates the Red Hat security update described in RHSA-2006:0591-01 to fix a denial of service bug. This fix addresses the security flaw described in CVE-2006-3403. See http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2006-3403 .

Bugs fixed in ESX Server 2.5.3

Table 3. Bugs Fixed in ESX Server 2.5.3

PR Number	Description
42798	No man page for vmkusage.
54681	Virtual machines do not start in the specified order.
60097	Installation without configuration of VMware Tools causes Linux guest to be unable to start X.
61038	RPM installation of tools does not update chkconfig output for vmware-tools service.
61188	The init script /etc/init.d/vmware needs to be modified to allow proper functioning of the autostop feature.
63064	Emulex driver 2.01g does not handle IOtags correctly during high I/O activity.
64870	Two way HP Opteron servers not recognized as NUMA.
66425	MegaRaid driver does not flush cache when the device is shared.
67325	Helper worlds stall in mega_internal_command (megaraid2 driver), while processing ioctl(s) from service console.
68567	VMware ESX Server is incorrectly referred to as VMware ESX in the graphical installer interface.
70290	Helper world starvation is observed with HP Insight Manager management agents.
71298	Persistent bindings settings do not hold a change in ESX Server.
71574	2.01g Emulex driver has lun queue depth fixed at 32.
72654	Migrating with VMotion causes a Windows 2003 virtual machine to fail.
72735	System_IsACPI in ServiceCommands can return incorrect ACPI status, resulting in incorrect guest shutdown behavior.
73041	Change the Emulex driver name from 2.01g to 2.01g_vmw1 due to upgrades to the driver.
73734	ASSERT statement (bugNr=38289) causes ESX Server to fail.
74991/74992	The option to enable hyperthreading should not be available in the VMware management interface or when using vmkpcidiv -i when ESX Server is running on AMD CPUs.
75143	Multiple process ids are not handled properly by vmware_synchronize_kill().
76755	Multiple issues with vmsnap, vmres, vmsnap_all.
77310	FS lock renew logs spam vmkernel logs.
77364	2 node Paxville with hyperthreading enabled exceeds NUMA limit.
77891	Running the VMware Tools installer with the -default option fails if a non standard kernel is detected.
78426	Correct EVA Active/Passive array controller id support.
78467	RDM LUNs disappear during active controller resets.
78514	ESX patch installer allows downgrading the server back to previous builds and patches.
79040	Multiple virtual machine core dumps and ESX Server fails on 8-way IBM x460 system.
79635	Cannot log on to management interface when ESX Server is set up to authenticate against NIS+ server.
80124	This is a feature request to have vm-support collect Kerberos configuration information from /var/kerberos/krb5kdc/kdc.conf.
80247	Tar reports error in VMware Tools archive under SuSE Linux 9.3.
80498	SCSI_QuiesceWorld() logs excessive numbers of warning messages to /var/log/vmkwarning.
80581	ESX Server uses BIOS MPS table for processor discovery, which gives incorrect results on multicore systems.
82145	Netdev watchdog deadlocks.
82956	Backport pcpu migration improvements from ESX Server 3.0 to ESX Server 2.5.3.
85300	This is a request to refresh data in /proc/vmware/thermmon before collecting the data into the vm-support tarball.
87308	Storage errors while doing reads from highmem cause memory and disk corruption.
87386	IBM FastT failover does not work when hot pulling the active storage processor.
87712	Emulex 2.01g driver needs to accommodate higher RESET Timeout.
88234	Error during VMware Tools installation: Badness in interruptible_sleep_on_timeout at kernel.
88370	IBM x366 generates Twister ID Mismatch warnings.
88395	Kernel panic occurs upon booting into Linux / Linux - UP mode.
89719	This is a request to add additional configuration files to the information collected by vm-support.

Table 3. Bugs Fixed in ESX Server 2.5.3 (Continued)

PR Number	Description
89891	Balloon driver in a Linux guest goes into an infinite loop.
91401	Man page for vmsnap needs to be updated.
91638	vmres fails to restore a backed-up virtual machine.
92582	Security vulnerability: RHSA-2006:0199
92599	Security vulnerability: RHSA-2006:0191
93389	Cannot use MUI or vmkpcidivy to fix ALERT: SMP: 382: processor does not support hyperthreading warnings after upgrading from ESX Server 2.5.2 to ESX Server 2.5.3.

Bugs fixed in ESX Server 2.5.2

Table 4. Bugs fixed in ESX Server 2.5.2

PR Number	Description
56010	The redo log file for a persistent disk is not committed when a virtual machine is backed up using <code>vmsnap.pl</code> .
56044	<code>vmsnap.pl</code> with <code>-l</code> option backs up the files to the staging area and then deletes the files without copying them.
61188	The init script <code>/etc/init.d/vmware</code> needs to be modified to allow proper functioning of the autostop feature.
61563	Remote console session is unresponsive after virtual machine failed, due to a SEGV during guest shutdown.
58432	HP Insight Manager 7.2 blocks on <code>read_rand()</code> .
62057	Recursion bug in <code>GuestTimerCalibration</code> breaks timekeeping in some Linux 2.6 kernels.
54681	Virtual machines do not start in the proper sequence.
61404	Improve hardware configuration reporting.
62105	Cable pull caused ESX Server kernel panic.
62434	Broadcast frames corrupted on Ethernet adapters without hardware VLAN acceleration.
63945	Apache log files never trimmed or rotated.
64002	Failure after upgrade <code>0xc011ef60</code> .
65742	After upgrading NUMA based server that is configured with a zero CPU node to ESX Server 2.5.1, <code>vmkernel</code> fails when a virtual machine is powered on.
66247	The <code>ips</code> driver has sign-extension issues when working with large servers.
67444	HP Insight Manager <code>vmkblkopen.pl</code> script generates message: WARNING: Mod: 1331: status 0xbad0010 world 0xffffffff vmhba0:9:0:0
65240	The <code>/var/log/messages</code> log fills up with <code>modprobe</code> messages after installing the ESX Server 2.1.2 patch 2 upgrade.
68298	SCSI reservations not being released after reboot.
64908	Using NIS+ to authenticate on the service console causes <code>vmware-authd</code> errors.
69418	Timeout when changing virtual machine hardware configuration when a console is connected to the virtual machine.

Bugs Fixed in ESX Server 2.5.1

Table 5. Bugs fixed in ESX Server 2.5.1

PR Number	Description
56165	<code>VMwareService.exe</code> consumes an excessive number of file handles (Windows resource leak.)
53293	Virtual machines being migrated with <code>VMotion</code> could become unresponsive for several minutes, with <code>VirtualCenter</code> displaying 100% CPU use for the target virtual machines.
56435	Changes in the way Windows Server 2003 Service Pack 1 initializes APIC ID registers could cause the operating system not to boot.
27436	A guest operating system might fail to install because of issues with the way the virtual SCSI driver handles memory during DMA transfers. The following message might be written to the <code>vmware.log</code> file: MONITOR PANIC: ASSERT devices/scsi/lsilogic_monitorVMK.c:321
59067	The <code>vmres.pl</code> utility fails to restore files from a remote archive if the remote directory of the backup image is specified as relative to the remote user (not an absolute path from the root directory of the remote system.) Also, the <code>-o</code> and <code>-g</code> options to change the restored file's ownership and group ownership do not work.
59346	The <code>vmsnap.pl</code> utility does not correctly handle disk file names with the colon (<code>:</code>) character, causing the disk file names to be truncated.
59345	The <code>vmsnap.pl</code> utility does not correctly handle VMFS labels that contain underscores (<code>_</code>) and non alphanumeric characters (such as <code>-</code> and <code>+</code>).
59137	Potential vulnerability to the <code>uselib</code> system call flaw described in CAN-2004-1235. See www.cve.mitre.org . The vulnerability is closed with the ESX Server 2.5.1 release.

Bugs Fixed in ESX Server 2.5

Table 6. Bugs fixed in ESX Server 2.5

PR Number	Description
50427	At boot time, ESX Server fails to discover all paths to storage devices on EMC Symmetrix storage arrays.
48792	Using older versions of the VMware Remote Console might cause ESX Server to report the virtual machine error: Signal 11
8469	During a stress test with CPU stress, VMotion and .disk file copies, ESX Server reports the error: Exception type 14 in migServer @ 0x47e6f3
48100	During storage port failover, Windows 2000 Server virtual machines on IBM FASTT 900 report the error Read Error.
47722	Issues with the SCSI ABORT command and the qla driver can cause ESX Server to fail and report the error: WARNING: SCSI: 2036: Delaying failover to path vmhba2:0:2
47589	Setting the Maximum Number of Virtual Disk Files per VMFS value using the vmkfstools command causes serverd to fail and reports the error: Add Virtual Machine: Pipe: Read failed
47341	This is a feature request to add support for HP Insight Manager 7.1, 7.1.1 or 7.1.2.
45116	Virtual machines configured with traffic shaping set to enabled lose network connectivity.
44917	Using a dedicated Compaq cpqarray drive causes ESX Server to report the error: Unable to handle kernel paging request at virtual address
44139	Opening the Network Connections tab in the Management Interface causes a runtime error to occur and displays the message: Object doesn't support this property or method
43435	Using RAW disks on an mptscsi card causes ESX Server to fail and to report the error: ASSERT FAILED F(1402):902
43128	Using eight IP addresses on the same Ethernet adapter causes the virtual machine to report the error: ASSERT fail: F(6027) toolbox/linux/guestInfoPosix.c:180
4308	Attempting to restart a virtual machine after suspending or shutting it down causes the virtual machine to report the error: ASSERT FAILED in vmx/main/device.c: 315
42929	ESX Server stalls on a Compaq Proliant 8500 after reboot if the RAID array on a Compaq 5300 controller is dedicated to a virtual machine.
41773	Windows 2003 virtual machines connected through the remote console report the error: STOP 0x50 Error in vmx_fb.dll
41721	Virtual machines configured with autostart do not automatically power on after migration using VMotion.
40853	Initiating path failure to the active node cause Windows 2003 virtual machines to stall during path failover and causes cluster nodes to fail.
38068	HP cpqarray and HP cciss RAID drivers are unable to support more than 1TB disk volumes.
35918	This is a feature request to add support for boot-from-SAN on ESX Server machines and to allow the use of HBAs in shared mode.
34215	This is a feature request to add support for QLogic driver qla2x00 6.07.xx.
32201	Rebooting a virtual machine with VMotion enabled causes VMotion to become disabled and the virtual machine reports the error: Host is not configured for migration. Disabling migration
28246	Changing the screen resolution causes system failure in Windows 2003 Enterprise Edition virtual machines.

Bugs Fixed in ESX Server 2.1.1

Table 7. Bugs fixed in ESX Server 2.1.1

PR Number	Description
46603	If using the Broadcom BCM 5700 Ethernet controller, ESX Server experiences packet loss and poor remote console performance.
46130	If you use Internet Explorer to access a Websphere Web-based application to add or modify data, Windows 2003 virtual machines running IBM Websphere fail to operate.
44149	Copying files from a shared drive to a Windows virtual machine using a vmxnet driver causes the files to become corrupted.
43372	After an upgrade from ESX Server 2.0.1, ESX Server 2.1 fails if it is configured with 64GB of memory.
43238	If using an HP FCA2214DC fibre channel adapter, ESX Server fails to load the qla2x00 module and reports the error: Wrong Product ID
43235	SCSI bus resets during heavy I/O load or when ESX Server is experiencing connectivity problems with the SAN causes virtual machines to fail.
37524	ESX Server fails and reports an exception 14 error in the VMkernel APICTimerIntHandler.

Bugs Fixed in ESX Server 2.1

Table 8. Bugs fixed in ESX Server 2.1

PR Number	Description
41350	The AllocCOWRemoveHint function used a stale MPN address which caused ESX Server to report the vmkwarning file error: hint remove failed...
41274	After an upgrade to ESX Server 2.1, virtual machines created using the beta 2 version of ESX Server are not visible through the VMware Management Interface.
39968	If a virtual machine accesses a disk on a SAN device and all paths from the ESX Server machine to the SAN are disconnected, the virtual machine freezes.
38329	This is a feature request to include the dump, restore and mt rpms utilities on the ESX Server 2.1 CD-ROM.
37664	If using the onboard e100 NIC on LC200R, ESX Server reports the error <code>hw init failed</code> if the server boots with the cable attached.
37550	SMBIOS does not recognize the correct number of virtual machine processors or memory.
37524	When running Citrix MetaFrame XPe FR3 in Virtual machines, ESX Server fails and reports the error: Exception 14 APICTimerIntHandler
36223	When installed on an ESX Server machine, Dell OpenManage 3.6 does not display information about attached storage devices.
36608	This is a security vulnerability in Red Hat Linux kernels version 2.4.22 and earlier.
36733	This is a feature request to provide an interface to set the MAC address of an adapter for a Windows guest operating system.
35782	After the user logs out and logs back into the VMware management interface, configuration changes made through the Startup Profile page are not saved, and the system reverts back to the original configuration settings.
35667	SANs using EMC Symmetrix report duplicate LUNs if the SANs are configured with Storage Port Failover.
35625	After the user installs the VMCOM API and manually registers the .dll, the mini management interface stalls the virtual machine and the process must be stopped from the ESX Server machine.
35408	SMP-enabled virtual machines that have a valid SMP license key suspend and report a license expiration error message.
34836	Due to user and group permission issues with .vmx and .dks files, security could become compromised.
34641	After the user has installed IBM Director 4.1, ESX Server reports the following monitor error during reboot: *** VMware ESX Server internal monitor error ***NOT_IMPLEMENTED at 20c2 (6303)
33403	After an upgrade to ESX Server 2.x, I/O performance is poor and causes slow boot times for virtual machines.
33139	If the user is using the VMware Management Interface to change the name of a disk file after the file is exported, the file manager is not able to recognize the disk file.

Table 8. Bugs fixed in ESX Server 2.1 (Continued)

PR Number	Description
32522	Installing ESX Server using the scripted installation method always creates a 1.4GB partition and does not create the partition size that was specified through the VMware Management Interface.
31554	After the user unloads and reloads a fibre channel driver, the VMware Management Interface's Storage Management page does not display current information.
30682	After an upgrade from ESX Server 1.5.2 to ESX Server 2.0.1, FTP and Telnet services are disabled, even when the server's security level is set to low.
30454	Replacing the ESX 2.0 beta evaluation license key with a valid ESX 2.0 GA license key causes ESX Server to report errors.
29223	This is a feature request to port the full functionality of creating and formatting disk partitions found in the ESX Server 1.5.2 patch 3 into the ESX Server 2.0.1 VMware Management Interface.
28938	Creating more than one VMFS partition on a disk using the VMware Management Interface is not supported.
25396	Installing virtual machines using an auto-installation script causes the virtual machine to report the error: #0 0x0048f2a2 in _location_. 161 () Cannot access memory at address 0x256fcd0

Bugs Fixed in ESX Server 2.0.1

Table 9. Bugs fixed in ESX Server 2.0.1

PR Number	Description
32087	ESX Server 1.5.2 and ESX Server 2.0 distributions contain security vulnerabilities in OpenSSH packages.
31872	Simultaneous I/O requests to multiple shared devices cause the kernel to report one of the following errors: Oops or Panic.
31184	Running the commitnext.pl script on a suspended and resumed disk fails and the virtual machine reports that the REDO file does not exist.
31001	Idle or mostly inactive virtual machines report high CPU utilization (solved with idler patch at HTUhttp://www.vmware.com/download/esx/esx2-smpidler.html UUTH).
30712	After installing SuSE Linux Enterprise Server version 8.2 with an SP2a guest operating system on a virtual machine, VMware Tools fails to install, and generates compilation errors.
30287	After group permissions are applied to a virtual machine's configuration file, group members are unable to see the virtual machine.
30281	Virtual machines running with IBM Director 4.1 report the vmkernel log error: Host: 3591: Dismissing exception 13, error 0xfee4, ip 0x30:0x479c13, eflags 0x10002
30178	This is a feature request to add support for the Intel Gigabit Quad port NIC.
30165	Converting VMFS-1 to VMFS-2 using the VMware Management Interface causes ESX Server to fail if there is a lack of storage to finish the conversion. Converting VMFS-1 to VMFS-2 using the service console causes ESX Server to report the error: FS1_ConvertToFS2: too many files on filesystem or file too large
30160	Upgrading from ESX Server 1.5.x to ESX Server 2.0 on HP servers with P4 CPUs reports the kernel panic error: MAX APIC ID Exceeded ()
30144	When a user tries to run ESX Server on an IBM x440 Server with more than 30GB of RAM, the vmkernel fails to load.
30117	During an upgrade from ESX Server 1.5.2 patch 3 to ESX Server 2.0, the first serial number entry prompt is skipped and the upgrade fails.
29933	Installing Red Hat Linux Advanced Server 3.0 as a guest operating system reports the error: Error: NOT_IMPLEMENTED F(5411):2130(../devices/scsi/lisilogic.c)
29860	Loading and unloading qla2300_604 drivers on an ESX Server machine, with four QLogic cards assigned as two different failover pair HBAs, causes the server to stall.
29846	After a user installs ESX Server on an HP ProLiant BL20p over the network, the server fails to find the attached storage device after rebooting.
29415	During the guest operating system installation, a network handle issue causes ESX Server to fail and reports one of the following vmkernel errors: Exception 13 or Exception 14.
29398	This is a request to include Tripwire, NcFTP, and ISOF RPMs on the ESX Server 2.0 CD-ROM for PAM authentication.
29223	Users are unable to create and manage VMFS-2 and extended partitions using the ESX Server 2.0 VMware Management Interfaces View Partition page.
28599	When Computer Associates BrightStor ARCserve backup management interface connects to the service console, the VMFS directory tree is not visible in the file browser. All other directories on the service console appear.
28332	Using a physical LSI MegaRAID SCSI adapter causes ESX Server to report the vmkernel log error: WARNING: SCSI: SyncCommand: Returns 195887114
27852	HP ProLiant DL580 G2 and DL380 G3 servers that have inconsistent fixed memory types across CPUs cause the vmkernel warnings log to display alerts after each boot. This is a request to document the MTRR error messages during system boot in the VMware Knowledge Base.
20759	Upgrading from ESX Server 1.5.2 causes an unresolved symbol error message during the server installation due to missing RPMs that were not included in ESX Server 1.5.x. These RPMs were unable to install properly during an upgrade from ESX Server 1.5 to ESX Server 2.0.

Bugs Fixed in ESX Server 2.0

Table 10. Bugs fixed in ESX Server 2.0

PR Number	Description
29027	This is a request to document the limitation of 32 virtual machines per NIC.
27832	Creating more than 11 VMFS partitions causes the virtual machine to fail and to display a blue screen.
27428	This is a request to enhance the documentation of time synchronization between the service console and the virtual machine.
27331	This is a monitor fault (duplicate of PR 26706).
27260	A Red Hat 9 guest operating system fills the file system with a large log file.
27154	During system initialization, ESX Server 1.5.2 panics on a system with ServeRAID cards due to a race in the ips driver.
26946	Microsoft Hardware Compatibility Test (HCT) clients display a blue screen and report the error IRQ_LESS_OR_EQUAL at startup.
26706	Running the Saint utility to scan the network causes a monitor fault.
26496	This is a request to add support for HP Smart Array 641 and 642.
23475	Installing ESX Server 1.5.2 on a Dell PowerEdge 6450 causes the installation to fail.
23456	QLogic driver qla2200_603.o causes a panic from scsi_error.c after the driver apparently attempts to abort a command.
23210	The vmxnet driver is not able to ping an external network after restart.
22764	Installing a virtual machine using autoinstall fails and reports the error: ASSERT failed: Tried to return direct execution without interrupts enabled
22334	The VMkernel log is filled with the following error message: SENSE REQUEST w/o valid sense data available
21931	A soft reboot of the guest operating system causes the vmxnet driver to stop working.
21578	When booting from a floppy image, the virtual machine fails to read a sysLinux root image floppy image file and reports an error.
21559	If a VMFS directory with multiple VMFS partitions is imported, the VERITAS Backup Exec Agent is unable to see VMFS partitions due to a known issue with Backup Exec. This is a request to document how to configure VERITAS Backup Exec agents on the service console and to provide the steps for exporting individual subdirectories of a VMFS directory.
20975	Loading a shared IBM serverRAID driver on an IBM eServer x345 results in a service console error.
20747	Dell OpenManage installation instructions for ESX Server 1.5.2 are incorrect, or a package is missing from the downloadable upgrade.
20700	This is a feature request to add support for the LSI Logic Raid adapter PERC4D/i.
20617	VMware ESX Server might fail while running failover tests on IBM ESS Storage. This is a request to NULL out target->lastWorldIssued in SCISISchedQFree.
20520	Deleting a virtual machine doesn't remove all the virtual machine files.
20250	The spin count has been exceeded, and there is a probable deadlock on a 16-way machine while the system boots.
20238	Using a CD-ROM Drive in IBM Netfinity 6000R causes the ESX Server installation to fail.
20089	The ARCserve 2000 product fails to do a backup.
19921	Windows .NET Server build 3714 causes a blue screen and reports the error: SESSION3_INITIALIZATION_FAILED
19487	An IBM Ultrium Tape Autoloader 3581 or IBM TotalStorage Ultrium Tape Drive T400F does not function properly using Windows RSM with BusLogic emulation.
19407	Running vmkpcidiv should not sub partition multifunction storage controllers.
19138	Using the new configuration editor causes Internet Explorer 6 to shut down.
18867	The ESX Server machine's service console loses time compared with hardware time.
18860	Using the VMware Management Interface File Manager to copy disks corrupts the second copy.
18795	The clocks in virtual machines gain about two minutes of time per day on ESX Server.
18771	VMkernel fails to load if there are eight dual-port NICs in an IBM x440 server and an RXE-100 Remote Expansion Enclosure.

Table 10. Bugs fixed in ESX Server 2.0 (Continued)

PR Number	Description
18740	An ESX Server virtual machine cannot access a dongle or parallel port when the machine is run on HP hardware. The virtual machine reports an error on the screen and in the VMware log: VMX Msg_Post Error: Unsupported host parallel port "/dev/parport0": the device has no PS/2 or ECP mode. Failed to connect device parallel0
18615	Accessing LUNs off an EMC CLARiiON through a Brocade switch causes IBM x440 server core dumps.
18291	This is a request to include better examples for using vmkfstools in the ESX Server documentation.
18249	VMware Management Interface stalls on a large number of LUNs from SANs array.
17825	The service console cannot recognize disks on Emulex LP7000 or LP 8000.
17644	Exercising SAN failover support with QLogic HBAs reports the error: MONITOR ASSERT FAILURE
17641	Dynamic redo log problems might cause an ESX Server machine to shut down abruptly.
17464	Samsung CD-ROM SC-148C reports the error: unable to read from /dev/cdrom.
17440	This is a request for a solution to an advisory about potential exploit of Apache 1.x and 2.x.
17403	Tape access from a host through a shared SCSI controller has a maximum block size of 64KB.
17279	The BIOS error 02B1: Diskette drive B error appears when the user powers on with no floppy drives present. (This is not an error and VMware will not fix it.)
17063	PERC 3/Di on a DELL PowerEdge 1650 cannot use aacraid drivers.
16695	During FTP, when trying to use the put command with a virtual disk that is greater than 2GB results in the error: not a plain file.
16506	The vmware-authd process should decrease logging in release builds.
16362	Running a Citrix Metaframe XP 1.0 test with 20 clients causes poor performance.
16292	The vmkfstools extendfile option fails to make an extended .dsk file. The original size was 1.5GB.
15722	An HP Management Store Agent fails to identify the RAID controller.
15544	Connecting a virtual machine to a parallel port reports the error: Can't control parallel port: Invalid argument
12471	Installing Oracle 8.1.7 in a virtual machine fails, but Oracle 8.0.x installs correctly.
12156	Using the PC-Duo product to remotely control a Windows NT virtual machine causes screen corruption.
9297	Physical Address Extension (PAE) guest operating systems are not supported.
7732	During a Linux guest operating system installation, a VMware application timeout occurs while the user waits for the CD-ROM to be ejected.
7132	Initializing ESX Server causes an assert failure in the virtual timer code.
5501	Trying to shrink the root partition of a guest operating system causes dd to stop with the error message: dd: /foo: File too large. This is caused by a Linux tools shrink problem.
3743	Mounting a floppy drive in a Caldera 2.3 guest operating system causes a VMware panic in floppy emulation.
3152	When the user attempts to play a sound using Microsoft Windows Media Player, the Virtual Machine Monitor reports the error: Assert failed.
2292	Under certain conditions, installing Windows 95 or Windows 98 fails, either by stalling or with a corrupted .CAB file.
316	A Microsoft Windows 95 guest operating system running in DOS mode fails and reports the error: (MON) NOT_IMPLEMENTED F(122):1794.

If you have comments about this documentation, submit your feedback to: docfeedback@vmware.com

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