
Subject: [solved] 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [mikep](#) on Thu, 03 Jul 2008 05:42:45 GMT

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Hi, I just can't make this controller work with this kernel.

Server has centos 5.1 2.6.18-53.el5 #1 SMP Mon Nov 12 02:14:55 EST 2007 x86_64 x86_64 x86_64 GNU/Linux kernel.

First I tried was to copy updates or kernel/driver/scsi/ .ko driver from the actual kernel, witch boots ok, to the new one hypervm install, mkinitrd -v -f, but kernel panic on reboot.

Next I tried to compile the driver, rpm devel from new kernel, yum install gcc, make -f Makefile, copy the new ko, mkinitrd, same result.

So, I dumno how to handle this.

Boot.log is empty, messages has no relevant info and it seems that kernel should support 9690SA:

Changes

- * re-based on the 2.6.18-53.1.19.EL5 Red Hat kernel

- o fixed CVE-2008-1669

- o fixed CVE-2008-1375

- o fixed CVE-2008-0007

- o fixed CVE-2006-6921

- * updated 3w-9xxx driver to the 2.26.08.003 version (it now provides support for 3ware SAS 9690SA RAID controllers)

- * fixed occasional CT stop error with message: "unregister_netdevice: waiting for lo to become free"

Any help on this will be wellcome, thx.

Regards

Mike

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [khorenko](#) on Thu, 03 Jul 2008 06:34:33 GMT

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Hi Mike,

could you please let me know

1) which kernel works fine with your controller?

2) please, send me `lspci`, `lspci -n`

3) do you have / on that controller? If yes, please, check if you can setup a serial console on that node (COM-to-COM cable to another node) - that can greatly help

Thank you.

--
Konstantin

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14
Posted by [khorenko](#) on Thu, 03 Jul 2008 06:39:19 GMT
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Quote:First I tried was to copy updates or kernel/driver/scsi/ .ko driver from the actual kernel, witch boots ok, to the new one hypervm install, mkinitrd -v -f, but kernel panic on reboot.

BTW, that is normal - binary modules that suite for RHEL/CentOS kernel are binary incompatible with OVZ kernels.

--
Konstantin

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14
Posted by [mikep](#) on Thu, 03 Jul 2008 11:50:25 GMT
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Hi Konstantin, thx for replying.

Kernel 2.6.18-53.el5 #1 SMP works fine whith the controller.

```
00:00.0 Host bridge: Intel Corporation 5100 Chipset Memory Controller Hub (rev 90)
00:02.0 PCI bridge: Intel Corporation 5100 Chipset PCI Express x8 Port 2-3 (rev 90)
00:04.0 PCI bridge: Intel Corporation 5100 Chipset PCI Express x8 Port 4-5 (rev 90)
00:06.0 PCI bridge: Intel Corporation 5100 Chipset PCI Express x8 Port 6-7 (rev 90)
00:08.0 System peripheral: Intel Corporation 5100 Chipset DMA Engine (rev 90)
00:10.0 Host bridge: Intel Corporation 5100 Chipset FSB Registers (rev 90)
00:10.1 Host bridge: Intel Corporation 5100 Chipset FSB Registers (rev 90)
00:10.2 Host bridge: Intel Corporation 5100 Chipset FSB Registers (rev 90)
00:11.0 Host bridge: Intel Corporation 5100 Chipset Reserved Registers (rev 90)
00:13.0 Host bridge: Intel Corporation 5100 Chipset Reserved Registers (rev 90)
00:15.0 Host bridge: Intel Corporation 5100 Chipset DDR Channel 0 Registers (rev 90)
00:16.0 Host bridge: Intel Corporation 5100 Chipset DDR Channel 1 Registers (rev 90)
00:1a.0 USB Controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Controller #4 (rev 02)
00:1a.7 USB Controller: Intel Corporation 82801I (ICH9 Family) USB2 EHCI Controller #2 (rev 02)
00:1c.0 PCI bridge: Intel Corporation 82801I (ICH9 Family) PCI Express Port 1 (rev 02)
00:1c.4 PCI bridge: Intel Corporation 82801I (ICH9 Family) PCI Express Port 5 (rev 02)
00:1c.5 PCI bridge: Intel Corporation 82801I (ICH9 Family) PCI Express Port 6 (rev 02)
00:1d.0 USB Controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Controller #1 (rev 02)
00:1d.1 USB Controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Controller #2 (rev 02)
```

00:1d.2 USB Controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Controller #3 (rev 02)
00:1d.7 USB Controller: Intel Corporation 82801I (ICH9 Family) USB2 EHCI Controller #1 (rev 02)
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev 92)
00:1f.0 ISA bridge: Intel Corporation 82801IR (ICH9R) LPC Interface Controller (rev 02)
00:1f.2 IDE interface: Intel Corporation 82801IR/IO/IH (ICH9R/DO/DH) 4 port SATA IDE Controller (rev 02)
00:1f.3 SMBus: Intel Corporation 82801I (ICH9 Family) SMBus Controller (rev 02)
00:1f.5 IDE interface: Intel Corporation 82801I (ICH9 Family) 2 port SATA IDE Controller (rev 02)
02:00.0 RAID bus controller: 3ware Inc Unknown device 1005 (rev 01)
05:00.0 Ethernet controller: Intel Corporation 82573E Gigabit Ethernet Controller (Copper) (rev 03)
06:00.0 Ethernet controller: Intel Corporation 82573L Gigabit Ethernet Controller
07:00.0 IDE interface: Integrated Technology Express, Inc. Unknown device 8213
07:01.0 VGA compatible controller: XGI Technology Inc. (eXtreme Graphics Innovation) Unknown device 0021
00:00.0 0600: 8086:65c0 (rev 90)
00:02.0 0604: 8086:65f7 (rev 90)
00:04.0 0604: 8086:65f8 (rev 90)
00:06.0 0604: 8086:65f9 (rev 90)
00:08.0 0880: 8086:65ff (rev 90)
00:10.0 0600: 8086:65f0 (rev 90)
00:10.1 0600: 8086:65f0 (rev 90)
00:10.2 0600: 8086:65f0 (rev 90)
00:11.0 0600: 8086:65f1 (rev 90)
00:13.0 0600: 8086:65f3 (rev 90)
00:15.0 0600: 8086:65f5 (rev 90)
00:16.0 0600: 8086:65f6 (rev 90)
00:1a.0 0c03: 8086:2937 (rev 02)
00:1a.7 0c03: 8086:293c (rev 02)
00:1c.0 0604: 8086:2940 (rev 02)
00:1c.4 0604: 8086:2948 (rev 02)
00:1c.5 0604: 8086:294a (rev 02)
00:1d.0 0c03: 8086:2934 (rev 02)
00:1d.1 0c03: 8086:2935 (rev 02)
00:1d.2 0c03: 8086:2936 (rev 02)
00:1d.7 0c03: 8086:293a (rev 02)
00:1e.0 0604: 8086:244e (rev 92)
00:1f.0 0601: 8086:2916 (rev 02)
00:1f.2 0101: 8086:2920 (rev 02)
00:1f.3 0c05: 8086:2930 (rev 02)
00:1f.5 0101: 8086:2926 (rev 02)
02:00.0 0104: 13c1:1005 (rev 01)
05:00.0 0200: 8086:108c (rev 03)
06:00.0 0200: 8086:109a
07:00.0 0101: 1283:8213
07:01.0 0300: 18ca:0021

Don't understand what you mean. I have a kvm plugged on that server.

Regards
Mike

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14
Posted by [khorenko](#) on Thu, 03 Jul 2008 15:51:21 GMT
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02:00.0 RAID bus controller: 3ware Inc Unknown device 1005 (rev 01)
02:00.0 0104: 13c1:1005 (rev 01)

Ok, it looks like 3w-9xxx.ko module should handle this device fine.

Quote:Don't understand what you mean. I have a kvm plugged on that server.
well, i meant that i need to save complete boot logs, so i can see _all_ the logs, not only the last screen.

Some KVMs also allow to scroll back, does your KVM provide such a possibility?

If no, please, try to configure a serial console.
http://wiki.openvz.org/Remote_console_setup#Serial_console

One more thing you can check yourself before the serial console installation: check that 3w-9xxx.ko module is in initrd for 2.6.18-53.1.19.el5.028stab053.14 kernel.
(in order to do this, you need to unpack initrd: add a ".gz" suffix to initrd file (or its copy), gunzip it; then run "cat initrd_file | cpio -id").

Hope this helps.

--
Konstantin.

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14
Posted by [mikep](#) on Thu, 03 Jul 2008 20:18:49 GMT
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Hi again, not my kvm. Also I have not physical access to the server, unless I drive 400 Km. May the cat exit tell you something, I had to make a new mkinitrd --nocompress cause inirids are not in gzip format, dummno.

cpio: init not created: newer or same age version exists
cpio: sbin not created: newer or same age version exists
cpio: dev/ram1 not created: newer or same age version exists
cpio: dev/ram not created: newer or same age version exists
cpio: dev/tty not created: newer or same age version exists
cpio: dev/ttyS0 not created: newer or same age version exists
cpio: dev/null not created: newer or same age version exists

cpio: dev/ttyS2 not created: newer or same age version exists
cpio: dev/tty10 not created: newer or same age version exists
cpio: dev/tty3 not created: newer or same age version exists
cpio: dev/tty4 not created: newer or same age version exists
cpio: dev/ttyS1 not created: newer or same age version exists
cpio: dev/console not created: newer or same age version exists
cpio: dev/rtc not created: newer or same age version exists
cpio: dev/ram0 not created: newer or same age version exists
cpio: dev/tty1 not created: newer or same age version exists
cpio: dev/systty not created: newer or same age version exists
cpio: dev/ptmx not created: newer or same age version exists
cpio: dev/tty5 not created: newer or same age version exists
cpio: dev/tty8 not created: newer or same age version exists
cpio: dev/tty12 not created: newer or same age version exists
cpio: dev/tty2 not created: newer or same age version exists
cpio: dev/tty9 not created: newer or same age version exists
cpio: dev/tty0 not created: newer or same age version exists
cpio: dev/zero not created: newer or same age version exists
cpio: dev/tty6 not created: newer or same age version exists
cpio: dev/ttyS3 not created: newer or same age version exists
cpio: dev/tty7 not created: newer or same age version exists
cpio: dev/tty11 not created: newer or same age version exists
cpio: etc/lvm/lvm.conf not created: newer or same age version exists
cpio: bin/nash not created: newer or same age version exists
cpio: bin/modprobe not created: newer or same age version exists
cpio: bin/kpartx not created: newer or same age version exists
cpio: bin/lvm not created: newer or same age version exists
cpio: bin/dmraid not created: newer or same age version exists
cpio: bin/inssmod not created: newer or same age version exists
cpio: lib/jbd.ko not created: newer or same age version exists
cpio: lib/scsi_mod.ko not created: newer or same age version exists
cpio: lib/ata_piix.ko not created: newer or same age version exists
cpio: lib/sd_mod.ko not created: newer or same age version exists
cpio: lib/dm-zero.ko not created: newer or same age version exists
cpio: lib/3w-9xxx.ko not created: newer or same age version exists
cpio: lib/dm-snapshot.ko not created: newer or same age version exists
cpio: lib/ohci-hcd.ko not created: newer or same age version exists
cpio: lib/dm-mod.ko not created: newer or same age version exists
cpio: lib/dm-mirror.ko not created: newer or same age version exists
cpio: lib/uhci-hcd.ko not created: newer or same age version exists
cpio: lib/ehci-hcd.ko not created: newer or same age version exists
cpio: lib/ext3.ko not created: newer or same age version exists
cpio: lib/libata.ko not created: newer or same age version exists
14135 blocks

Regards
Mike

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [khorenko](#) on Fri, 04 Jul 2008 07:49:33 GMT

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mikep wrote on Fri, 04 July 2008 00:18Hi again, not my kvm. Also I have not phisical access to the server, unless I drive 400 Km.

Well, that's not good. Can you please at least do a printscreen from the KVM when the kernel panics?

Can you also provide me an access to the node via PM? i do not promise i can understand the problem without logs but i'll try to.

--

Konstantin

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [mikep](#) on Fri, 04 Jul 2008 12:13:51 GMT

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Yes I could you give access via PM, one thing more before, I tried for the last time to clean up the mess I made and remove the ovzkernel and install again via yum. I have this warnings in the 3ware module:

WARNING: /lib/modules/2.6.18-53.1.19.el5.028stab053.14/updates/3w-9xx x.ko needs unknown symbol dma_ops

WARNING: /lib/modules/2.6.18-53.1.19.el5.028stab053.14/updates/3w-9xx x.ko needs unknown symbol copy_from_user

WARNING: /lib/modules/2.6.18-53.1.19.el5.028stab053.14/updates/3w-9xx x.ko needs unknown symbol mem_section

WARNING: /lib/modules/2.6.18-53.1.19.el5.028stab053.14/updates/3w-9xx x.ko needs unknown symbol copy_to_user

WARNING: /lib/modules/2.6.18-53.1.19.el5.028stab053.14/updates/3w-9xx x.ko needs unknown symbol __memcpy

Dumno if could be helpfull.

Regards

Mike

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [mikep](#) on Fri, 04 Jul 2008 12:21:30 GMT

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Also now I have a different thing instead kernel panic.

File Attachments

1) [kvm.tiff](#), downloaded 378 times

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [khorenko](#) on Fri, 04 Jul 2008 12:50:20 GMT

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Mike, thank you for the access, i've got the reason - you have tried to install an OVZ kernel of different architecture than the OS itself. And now you have some mix of arches. Look:

```
[root@aaa ~]# rpm -qa --queryformat "%{name} %{version} %{release} %{arch}\n" | grep kernel
kernel-headers 2.6.18 92.1.6.el5 x86_64
kernel 2.6.18 53.el5 x86_64
kernel-devel 2.6.18 53.1.21.el5 x86_64
ovzkernel-devel 2.6.18 53.1.19.el5.028stab053.14 x86_64
ovzkernel 2.6.18 53.1.19.el5.028stab053.14 x86_64
kernel 2.6.18 53.1.21.el5 x86_64
kernel 2.6.20 ovz007.1 x86_64
kernel-devel 2.6.18 92.1.6.el5 x86_64
ovzkernel 2.6.18 53.1.19.el5.028stab053.14 i686
[root@aaa ~]# rpm -qa --queryformat "%{name} %{version} %{release} %{arch}\n" | grep vzctl
vzctl-lib 3.0.22 1 i386
vzctl 3.0.22 1 i386
vzctl-lib 3.0.22 1 x86_64
vzctl 3.0.22 1 x86_64
[root@aaa ~]# rpm -qa --queryformat "%{name} %{version} %{release} %{arch}\n" | grep quota
quota 3.13 1.2.3.2.el5 x86_64
vzquota 3.0.11 1 x86_64
vzquota 3.0.11 1 i386
```

Please, remove i386 arch rpms and reinstall 64bit ones - this should help.

Regards,
Konstantin

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [mikep](#) on Fri, 04 Jul 2008 15:13:02 GMT

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Mmm, just installed hypervm slave, when I do a yum instal ovz kernel it try to install:

```
Installing:
ovzkernel          i686      2.6.18-53.1.19.el5.028stab053.14  openvz-kernel-rhel5  17 M
```

ovzkernel x86_64 2.6.18-53.1.19.el5.028stab053.14 openvz-kernel-rhel5 19 M

How do I fix it so only install x86_64 arch what I understand you mean?

Regards Mike

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [khorenko](#) on Fri, 04 Jul 2008 15:22:39 GMT

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yum install name.arch

Subject: Re: 3ware 9690SA and 2.6.18-53.1.19.el5.028stab053.14

Posted by [mikep](#) on Fri, 04 Jul 2008 18:22:10 GMT

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Thanks a lot. No need to compile or even make a new boot img after cleaning i386 and i686 archs.

Regards

Mike
