Subject: Debian <> 3ware <> kernel 2.6.18+
Posted by smilie on Tue, 10 Feb 2009 22:32:52 GMT
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Hi,

Following issue.

New server, with 3wsare 9650 raid card.
Default kernel 2.6.18-6 supports this card.
However, openvz 2.6.18 does not

After spending many hours searching the net, I finally have (after test & trial) got this version of OpenVZ kernel working:

nononsense:~# uname -a
Linux nononsense 2.6.18-openvz-18-51.3d2-686 #1 SMP Tue Feb 12 09:56:11 CET 2008 i686 GNU/Linux

But, server is equipped with 8GB RAM, and this version of kernel only shows 4

Is there a way to get bigmem version of this kernel? Or tweak kernel so it does support 8GB ram?
I have already changed in config:

CONFIG_HIGHMEM64G=y
CONFIG_RESOURCES_64BIT=y

No other settings ring a bell, so haven't changed them.

====

Also, any other kernel that supports 3ware + 8 GB is welcome

====

Thanx in advance! Spasiba

Cheers,
Aleks

Subject: Re: Debian <> 3ware <> kernel 2.6.18+
Posted by maratrus on Wed, 11 Feb 2009 10:19:33 GMT
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Hello,

did you try the kernel from http://download.openvz.org/?

http://download.openvz.org/kernel/branches/2.6.18/stable/
kernel-enterprise-2.6.18-ovz028stab056.1.i686.rpm
direct link
http://download.openvz.org/kernel/branches/2.6.18/stable/ker
nel-enterprise-2.6.18-ovz028stab056.1.i686.rpm

Subject: Re: Debian <> 3ware <> kernel 2.6.18+
Posted by smilie on Wed, 11 Feb 2009 10:35:18 GMT
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Hi,

Yes, I did. That one is in the apt-get sources also, but it does not recognise 3ware raid for some reason

I will try to compile it with the 3ware drivers, to see if I can jump start it.

Subject: Re: Debian <> 3ware <> kernel 2.6.18+
Posted by maratrus on Wed, 11 Feb 2009 10:46:32 GMT
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Hello,

could you possibly tell what kind of controller do you have (lspci output would be useful too), what driver's version is required?

Subject: Re: Debian <> 3ware <> kernel 2.6.18+
Posted by smilie on Wed, 11 Feb 2009 20:07:46 GMT
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Hi,

In specs, it says:

3Ware/AMCC 9650SE-LP2 bulk, 2 x SATA II hardware RAID 0/1, PCI-e

lpsci says:

nononsense:/home/smilie# lspci
00:00.0 Host bridge: Intel Corporation E7230 Memory Controller Hub (rev c0)
00:01.0 PCI bridge: Intel Corporation E7230 PCI Express Root Port (rev c0)
00:1c.0 PCI bridge: Intel Corporation 82801G (ICH7 Family) PCI Express Port 1 (rev 01)
00:1c.4 PCI bridge: Intel Corporation 82801GR/GH/GHM (ICH7 Family) PCI Express Port 5 (rev

01)
00:1c.5 PCI bridge: Intel Corporation 82801GR/GH/GHM (ICH7 Family) PCI Express Port 6 (rev 01)
00:1d.0 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI #1 (rev 01)
00:1d.1 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI #2 (rev 01)
00:1d.2 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI #3 (rev 01)
00:1d.3 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI #4 (rev 01)
00:1d.7 USB Controller: Intel Corporation 82801G (ICH7 Family) USB2 EHCI Controller (rev 01)
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev e1)
00:1f.0 ISA bridge: Intel Corporation 82801GB/GR (ICH7 Family) LPC Interface Bridge (rev 01)
00:1f.1 IDE interface: Intel Corporation 82801G (ICH7 Family) IDE Controller (rev 01)
00:1f.3 SMBus: Intel Corporation 82801G (ICH7 Family) SMBus Controller (rev 01)
01:00.0 RAID bus controller: 3ware Inc Unknown device 1004 (rev 01)
09:00.0 PCI bridge: Intel Corporation 6702PXH PCI Express-to-PCI Bridge A (rev 09)
09:00.1 PIC: Intel Corporation 6700/6702PXH I/OxAPIC Interrupt Controller A (rev 09)
0d:00.0 Ethernet controller: Intel Corporation 82573E Gigabit Ethernet Controller (Copper) (rev 03)
0e:00.0 Ethernet controller: Intel Corporation 82573L Gigabit Ethernet Controller
0f:00.0 VGA compatible controller: ATI Technologies Inc ES1000 (rev 02)

This was done from:
Linux nononsense 2.6.18-6-686 #1 SMP Fri Dec 12 16:48:28 UTC 2008 i686 GNU/Linux

I have installed all (!!) of these kernels, but non will work properly:

linux-image-2.6.18-openvz-12-1-686 - Linux kernel binary image for version 2.6.18-openvz-12-1-686
linux-image-2.6.18-openvz-12-1etch1-686 - Linux kernel binary image for version 2.6.18-openvz-12-1etch1-686
linux-image-2.6.18-openvz-13-1etch4-686 - Linux kernel binary image for version 2.6.18-openvz-13-1etch4-686
linux-image-2.6.18-openvz-686 - Linux kernel binary image for version 2.6.18-openvz-686
linux-image-2.6.18-openvz-13-39.1d2-686 - Linux kernel binary image for version 2.6.18-openvz-13-39.1d2-686
linux-image-2.6.18-openvz-13-1etch5-686 - Linux kernel binary image for version 2.6.18-openvz-13-1etch5-686
linux-image-2.6.18-openvz-13-51.3d1-686 - Linux kernel binary image for version 2.6.18-openvz-13-51.3d1-686
linux-image-2.6.18-openvz-18-51.3d2-686 - Linux kernel binary image for version 2.6.18-openvz-18-51.3d2-686
linux-image-2.6.18-openvz-18-53.5d1-686 - Linux kernel binary image for version 2.6.18-openvz-18-53.5d1-686
linux-image-2.6.24-openvz-24-004.1d1-686 - Linux kernel binary image for version 2.6.24-openvz-24-004.1d1-686
linux-image-2.6.18-openvz-18-53.5d3-686 - Linux kernel binary image for version 2.6.18-openvz-18-53.5d3-686
linux-image-2.6.24-openvz-24-004.1d3-686 - Linux kernel binary image for version 2.6.24-openvz-24-004.1d3-686

Only one of them booted up properly, that was:
linux-image-2.6.18-openvz-13-51.3d1-686 - Linux kernel binary image for version 2.6.18-openvz-13-51.3d1-686

However, this one shows up only 4GB of RAM, while there is 8GB present in the server. OpenVZ does work properly in it, but I really need all 8GB)

I have tried to re-compile that kernel to make it work with 8GB, but with no success.

Thanx in advance.
Cheers,
Aleks

Subject: Re: Debian <> 3ware <> kernel 2.6.18+
Posted by smilie on Wed, 11 Feb 2009 20:20:36 GMT
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What I do not quite understand is the following.

Clean debian installation of kernel 2.6.18-6 works fine.
But, if I install:
fzakernel-2.6.18-686-bigmem
which should resamble original kernel distro, then it doesnt work

I am really stuck with this one...

Maybe if we approach it like this:

nononsense:~# uname -a
Linux nononsense 2.6.18-openvz-18-53.5d1-686 #1 SMP Sat Mar 22 19:27:07 CET 2008 i686 GNU/Linux

Loads up, all seems oke, tho' raid controller is unknown, but no crashing
OpenVZ and all can be installed.

If I could now get my hands on this kernel, to compile it with 64GB support...?

Regards,
Aleks

Subject: Re: Debian <> 3ware <> kernel 2.6.18+
Posted by smilie on Thu, 12 Feb 2009 20:55:25 GMT
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For the time beeing, we have installed CentOS. No problems there at all, 3Ware is recognised, as well as 8GB RAM...

I would though love to see this one solved, as I am addicted to Debian

---

Subject: Re: Debian <> 3ware <> kernel 2.6.18+
Posted by TheStig on Thu, 19 Feb 2009 23:26:57 GMT
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are the kernels you tried from the repository at
http://debian.systs.org/ ?

i had a debian kernel vmlinuz-2.6.18-ovz-028stab051.1-smp up and running with the 3ware9650 (i ran ubuntu on it).
now i'm using 2.6.22-ovz005 which i believe i got from
http://wiki.openvz.org/Download/kernel/2.6.22/2.6.22-ovz005. 1
and it also works fine.
i've already installed the kernel ubuntu offers, but i haven't got to test them properly (but they found the 3ware controller). ubuntu also offers amd64 kernels.

best regards...
